



Supplemental Material to:

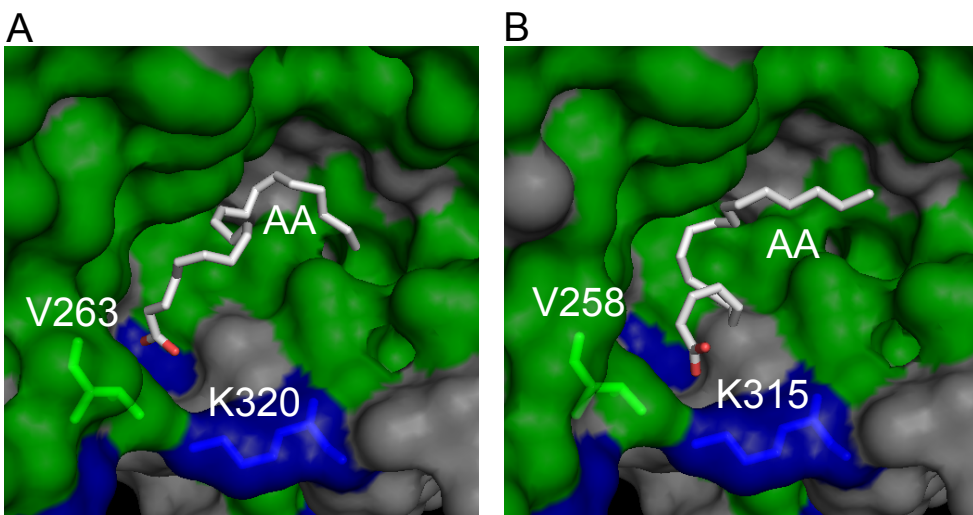
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**Homology model and targeted mutagenesis identify
critical residues for arachidonic acid inhibition of Kv4
channels**

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<http://dx.doi.org/10.4161/chan.23453>

<http://www.landesbioscience.com/journals/channels/article/23453/>

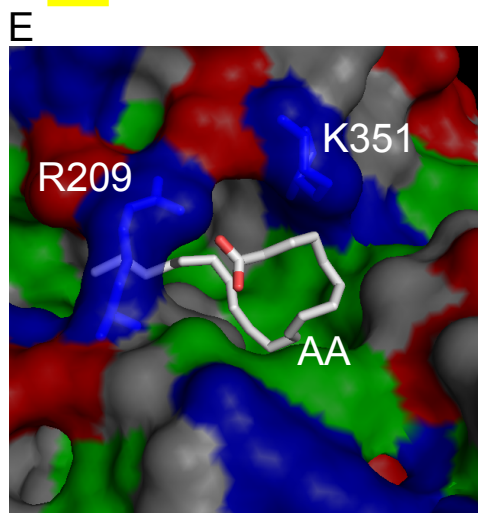
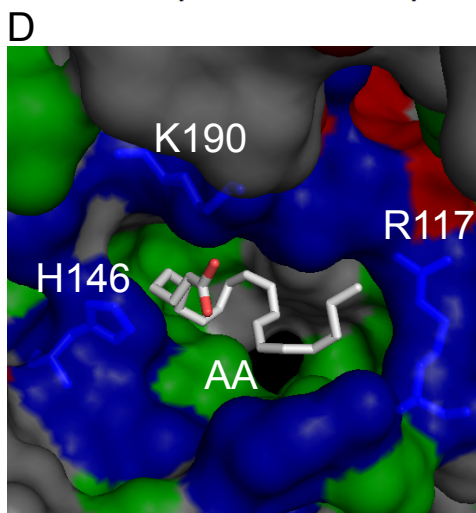


C

	S2	S3	S4	
rKv4.2	MIFTVEYLLRLAAPSRYRFVRS	VM	SIIDVVAILPYYIGLVMTDNEVDVSGAFVTLRVFRV	297
rKv4.3	MIFTVEYLLRLFAAPSRYRFIRS	VM	SIIDVVAIMPYYIGLVMTNNEVDVSGAFVTLRVFRV	294
rKv4.1	LIPTGEYLLRLFAAPSRCRFLRS	VM	SLIDVVAILPYYIGLFPVKNDVDVSGAFVTLRVFRV	299
	:*** ***** ***** **:*	***:*****:*****	:.:*****:*****	

	S4	S4-S5	S5		
rKv4.2	FRIFKFSRHSQ	GLRILGYTLK	SCASELGFLLF	SLTMAIIIFATVMFYAEKGGSSASKFTSI	357
rKv4.3	FRIFKFSRHSQ	GLRILGYTLK	SCASELGFLLF	SLTMAIIIFATVMFYAEKGGSSASKFTSI	354
rKv4.1	FRIFKFSRHSQ	GLRILGYTLK	SCASELGFLLF	SLTMAIIIFATVMFYAEKGTSKTNFTSI	359
	*****	*****	*****	*****:*	:;****

	P	S6		
rKv4.2	PAAFWYTIVTMTTLGYGDMVPKTIAGKIFGSI	C	LSGLVVLVIALPVPVIVSNFSRIYHQNQ	417
rKv4.3	PASFWYTIVTMTTLGYGDMVPKTIAGKIFGSI	C	LSGLVVLVIALPVPVIVSNFSRIYHQNQ	414
rKv4.1	PAAFWYTIVTMTTLGYGDMVPSTIAGKIFGSI	C	LSGLVVLVIALPVPVIVSNFSRIYHQNQ	419
	:	***	*****	



Supplemental Figure 1. Conserved features of AA binding pockets in proteins. AA was docked to the region near the proposed binding pocket within (A) rKv4.1 and (B) rKv4.3. Only one of eight orientations of AA is shown in each binding pocket, for clarity. (C) ClustalW2 sequence alignment of all 3 Kv4 channel subtypes, highlighting the conserved features of the proposed AA binding pocket. The Genbank accession numbers are NM_001105748.1 (rKv4.1), NP_113918.2 (rKv4.2), and BAA24525.1 (rKv4.3). Numbers refer to the last residue on each line. Topographical regions are noted (e.g. S3 = third transmembrane domain). Residues highlighted in yellow are those involved in the hydrophobic pocket shown in Figure 1D. (D, E) AA was docked to the crystal structure of human serum albumin (pdb file 1GNJ), using the same methods as described for AA docking to the Kv4.2 homology model. AA docking in (D) recapitulates "site 1" and the docking in (E) recapitulates "site 6" in the crystal structure of albumin with AA bound.

Supplemental File 1. A pdb file for our Kv4.2 tetrameric model. The residue numbering begins with 175 because the first 174 amino acids represent the cytoplasmic N-terminus for which we lacked structural data for modeling.

REMARK Created by MOLEMAN2 V. 070913/3.3.9 at Mon Sep 5 16:43:35 2011 for jbell6

REMARK 1 THEORETICAL MODEL, MODELLER 9v5 2009/01/16 10:18:45

REMARK 6 MODELLER OBJECTIVE FUNCTION: 4028.9565

REMARK 6 MODELLER BEST TEMPLATE % SEQ ID: 52.201

REMARK 40

REMARK 40 MOLPROBITY STRUCTURE VALIDATION

REMARK 40 PROGRAMS : MOLPROBITY (KING, REDUCE, AND PROBE)

REMARK 40 AUTHORS : I.W.DAVIS,V.B.CHEN,

REMARK 40 : R.M.IMMORMINO,J.J.HEADD,W.B.ARENDALL,J.M.WORD

REMARK 40 URL : HTTP://KINEMAGE.BIOCHEM.DUKE.EDU/MOLPROBITY/

REMARK 40 AUTHORS : I.W.DAVIS,A.LEAVER-FAY,V.B.CHEN,J.N.BLOCK,

REMARK 40 : G.J.KAPRAL,X.WANG,L.W.MURRAY,W.B.ARENDALL,

REMARK 40 : J.SNOEYINK,J.S.RICHARDSON,D.C.RICHARDSON

REMARK 40 REFERENCE : MOLPROBITY: ALL-ATOM CONTACTS AND STRUCTURE

REMARK 40 : VALIDATION FOR PROTEINS AND NUCLEIC ACIDS

REMARK 40 : NUCLEIC ACIDS RESEARCH. 2007;35:W375-83.

REMARK 40 MOLPROBITY OUTPUT SCORES:

REMARK 40 ALL-ATOM CLASHSCORE : 22.42

REMARK 40 BAD ROTAMERS : 0.5% 4/832 (TARGET 0-1%)

REMARK 40 RAMACHANDRAN OUTLIERS : 1.7% 16/964 (TARGET 0.2%)

REMARK 40 RAMACHANDRAN FAVORED : 94.6% 912/964 (TARGET 98.0%)

CRYST1 1.000 1.000 1.000 90.00 90.00 90.00 P 1 1

ORIGX1 1.000000 0.000000 0.000000 0.000000 0.000000

ORIGX2 0.000000 1.000000 0.000000 0.000000 0.000000

ORIGX3 0.000000 0.000000 1.000000 0.000000 0.000000

SCALE1 1.000000 0.000000 0.000000 0.000000 0.000000

SCALE2 0.000000 1.000000 0.000000 0.000000 0.000000

SCALE3 0.000000 0.000000 1.000000 0.000000 0.000000

ATOM 1 N PHE A 175 79.302 90.340 -69.218 1.00 80.84 A N

ATOM 2 CA PHE A 175 79.453 91.323 -70.284 1.00 80.84 A C

ATOM 3 CB PHE A 175 78.087 91.868 -70.706 1.00 80.84 A C

ATOM 4 CG PHE A 175 77.139 90.812 -71.196 1.00 80.84 A C

ATOM 5 CD1 PHE A 175 77.136 90.429 -72.527 1.00 80.84 A C

ATOM 6 CD2 PHE A 175 76.251 90.202 -70.326 1.00 80.84 A C

ATOM 7 CE1 PHE A 175 76.265 89.457 -72.981 1.00 80.84 A C

ATOM 8 CE2 PHE A 175 75.377 89.229 -70.774 1.00 80.84 A C

ATOM 9 CZ PHE A 175 75.385 88.856 -72.103 1.00 80.84 A C

ATOM 10 C PHE A 175 80.364 92.467 -69.854 1.00 80.84 A C

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ATOM 14 CB GLU A 176 80.669 94.506 -67.048 1.00133.93 A C

ATOM 15 CG GLU A 176 79.480 95.206 -67.687 1.00133.93 A C

ATOM 16 CD GLU A 176 78.728 96.089 -66.709 1.00133.93 A C

ATOM 17 OE1 GLU A 176 79.133 96.150 -65.529 1.00133.93 A O

ATOM 18 OE2 GLU A 176 77.733 96.722 -67.120 1.00133.93 A O

ATOM 19 C GLU A 176 82.671 93.022 -67.296 1.00133.93 A C

ATOM 20 O GLU A 176 83.687 93.693 -67.113 1.00133.93 A O

ATOM 21 N ASN A 177 82.556 91.759 -66.897 1.00 62.69 A N

ATOM 22 CA ASN A 177 83.638 91.074 -66.200 1.00 62.69 A C

ATOM 23 CB ASN A 177 83.307 90.925 -64.714 1.00 62.69 A C

ATOM 24 CG ASN A 177 83.082 92.259 -64.030 1.00 62.69 A C

ATOM 25 OD1 ASN A 177 84.016 92.866 -63.505 1.00 62.69 A O

ATOM 26 ND2 ASN A 177 81.838 92.724 -64.035 1.00 62.69 A N

ATOM 27 C ASN A 177 83.944 89.709 -66.809 1.00 62.69 A C

ATOM 28 O ASN A 177 83.432 88.689 -66.347 1.00 62.69 A O

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ATOM 37 CA HIS A 179 87.083 87.157 -65.509 1.00 64.97 A C

ATOM 38 ND1 HIS A 179 88.813 89.591 -66.534 1.00 64.97 A N

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ATOM	43	CE1	HIS	A	179	89.927	90.004	-67.111	1.00	64.97	A	C
ATOM	44	C	HIS	A	179	86.141	86.426	-64.557	1.00	64.97	A	C
ATOM	45	O	HIS	A	179	86.585	85.772	-63.613	1.00	64.97	A	O
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ATOM	51	C	THR	A	180	83.883	84.369	-64.140	1.00	98.23	A	C
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ATOM	54	CA	SER	A	181	83.825	82.485	-65.680	1.00	37.88	A	C
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ATOM	63	CG2	THR	A	182	85.558	78.642	-70.272	1.00	92.23	A	C
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ATOM	66	N	MET	A	183	82.758	81.004	-69.748	1.00	58.27	A	N
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ATOM	68	CB	MET	A	183	80.389	81.142	-70.381	1.00	58.27	A	C
ATOM	69	CG	MET	A	183	80.136	79.645	-70.294	1.00	58.27	A	C
ATOM	70	SD	MET	A	183	78.425	79.247	-69.889	1.00	58.27	A	S
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ATOM	73	O	MET	A	183	81.770	83.572	-71.980	1.00	58.27	A	O
ATOM	74	N	ALA	A	184	82.288	83.694	-69.794	1.00	28.36	A	N
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ATOM	76	CB	ALA	A	184	82.593	85.670	-68.386	1.00	28.36	A	C
ATOM	77	C	ALA	A	184	83.715	85.511	-70.616	1.00	28.36	A	C
ATOM	78	O	ALA	A	184	83.780	86.587	-71.211	1.00	28.36	A	O
ATOM	79	N	LEU	A	185	84.695	84.613	-70.635	1.00	114.45	A	N
ATOM	80	CA	LEU	A	185	85.920	84.832	-71.392	1.00	114.45	A	C
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ATOM	82	CG	LEU	A	185	88.432	84.149	-71.477	1.00	114.45	A	C
ATOM	83	CD1	LEU	A	185	88.898	85.586	-71.304	1.00	114.45	A	C
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ATOM	89	CB	VAL	A	186	83.357	82.211	-74.612	1.00	33.25	A	C
ATOM	90	CG1	VAL	A	186	82.938	81.961	-76.052	1.00	33.25	A	C
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ATOM	93	O	VAL	A	186	84.239	84.886	-76.385	1.00	33.25	A	O
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ATOM	95	CA	PHE	A	187	82.301	86.469	-75.175	1.00	90.63	A	C
ATOM	96	CB	PHE	A	187	81.174	86.972	-74.270	1.00	90.63	A	C
ATOM	97	CG	PHE	A	187	80.449	88.171	-74.811	1.00	90.63	A	C
ATOM	98	CD1	PHE	A	187	79.409	88.019	-75.712	1.00	90.63	A	C
ATOM	99	CD2	PHE	A	187	80.804	89.450	-74.414	1.00	90.63	A	C
ATOM	100	CE1	PHE	A	187	78.738	89.119	-76.210	1.00	90.63	A	C
ATOM	101	CE2	PHE	A	187	80.137	90.554	-74.909	1.00	90.63	A	C
ATOM	102	CZ	PHE	A	187	79.102	90.389	-75.809	1.00	90.63	A	C
ATOM	103	C	PHE	A	187	83.350	87.560	-75.369	1.00	90.63	A	C
ATOM	104	O	PHE	A	187	83.164	88.480	-76.165	1.00	90.63	A	O
ATOM	105	N	TYR	A	188	84.453	87.448	-74.636	1.00	111.20	A	N
ATOM	106	CA	TYR	A	188	85.541	88.414	-74.730	1.00	111.20	A	C
ATOM	107	CB	TYR	A	188	86.520	88.229	-73.568	1.00	111.20	A	C
ATOM	108	CG	TYR	A	188	87.699	89.177	-73.594	1.00	111.20	A	C

ATOM	109	CD1	TYR	A	188	87.612	90.440	-73.024	1.00	111.20	A	C
ATOM	110	CD2	TYR	A	188	88.900	88.806	-74.182	1.00	111.20	A	C
ATOM	111	CE1	TYR	A	188	88.688	91.308	-73.043	1.00	111.20	A	C
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ATOM	113	CZ	TYR	A	188	89.869	90.916	-73.635	1.00	111.20	A	C
ATOM	114	OH	TYR	A	188	90.943	91.776	-73.656	1.00	111.20	A	O
ATOM	115	C	TYR	A	188	86.272	88.292	-76.063	1.00	111.20	A	C
ATOM	116	O	TYR	A	188	86.554	89.294	-76.720	1.00	111.20	A	O
ATOM	117	N	TYR	A	189	86.578	87.060	-76.457	1.00	99.31	A	N
ATOM	118	CA	TYR	A	189	87.266	86.810	-77.719	1.00	99.31	A	C
ATOM	119	CB	TYR	A	189	87.909	85.421	-77.720	1.00	99.31	A	C
ATOM	120	CG	TYR	A	189	89.097	85.294	-76.794	1.00	99.31	A	C
ATOM	121	CD1	TYR	A	189	88.941	84.856	-75.486	1.00	99.31	A	C
ATOM	122	CD2	TYR	A	189	90.377	85.612	-77.228	1.00	99.31	A	C
ATOM	123	CE1	TYR	A	189	90.026	84.739	-74.637	1.00	99.31	A	C
ATOM	124	CE2	TYR	A	189	91.467	85.498	-76.387	1.00	99.31	A	C
ATOM	125	CZ	TYR	A	189	91.286	85.061	-75.093	1.00	99.31	A	C
ATOM	126	OH	TYR	A	189	92.369	84.946	-74.252	1.00	99.31	A	O
ATOM	127	C	TYR	A	189	86.322	86.955	-78.909	1.00	99.31	A	C
ATOM	128	O	TYR	A	189	86.706	87.481	-79.954	1.00	99.31	A	O
ATOM	129	N	VAL	A	190	85.090	86.485	-78.746	1.00	25.67	A	N
ATOM	130	CA	VAL	A	190	84.087	86.585	-79.801	1.00	25.67	A	C
ATOM	131	CB	VAL	A	190	82.737	85.987	-79.361	1.00	25.67	A	C
ATOM	132	CG1	VAL	A	190	81.660	86.293	-80.390	1.00	25.67	A	C
ATOM	133	CG2	VAL	A	190	82.867	84.487	-79.145	1.00	25.67	A	C
ATOM	134	C	VAL	A	190	83.880	88.036	-80.222	1.00	25.67	A	C
ATOM	135	O	VAL	A	190	83.881	88.353	-81.411	1.00	25.67	A	O
ATOM	136	N	THR	A	191	83.706	88.913	-79.239	1.00	113.27	A	N
ATOM	137	CA	THR	A	191	83.520	90.334	-79.504	1.00	113.27	A	C
ATOM	138	CB	THR	A	191	83.281	91.126	-78.205	1.00	113.27	A	C
ATOM	139	OG1	THR	A	191	82.094	90.646	-77.560	1.00	113.27	A	O
ATOM	140	CG2	THR	A	191	83.124	92.608	-78.505	1.00	113.27	A	C
ATOM	141	C	THR	A	191	84.728	90.916	-80.228	1.00	113.27	A	C
ATOM	142	O	THR	A	191	84.587	91.586	-81.252	1.00	113.27	A	O
ATOM	143	N	GLY	A	192	85.916	90.652	-79.692	1.00	21.76	A	N
ATOM	144	CA	GLY	A	192	87.149	91.152	-80.273	1.00	21.76	A	C
ATOM	145	C	GLY	A	192	87.319	90.767	-81.730	1.00	21.76	A	C
ATOM	146	O	GLY	A	192	87.966	91.479	-82.497	1.00	21.76	A	O
ATOM	147	N	PHE	A	193	86.736	89.634	-82.112	1.00	45.84	A	N
ATOM	148	CA	PHE	A	193	86.811	89.163	-83.490	1.00	45.84	A	C
ATOM	149	CB	PHE	A	193	86.390	87.695	-83.583	1.00	45.84	A	C
ATOM	150	CG	PHE	A	193	87.334	86.748	-82.899	1.00	45.84	A	C
ATOM	151	CD1	PHE	A	193	88.637	87.128	-82.622	1.00	45.84	A	C
ATOM	152	CD2	PHE	A	193	86.920	85.478	-82.535	1.00	45.84	A	C
ATOM	153	CE1	PHE	A	193	89.509	86.258	-81.994	1.00	45.84	A	C
ATOM	154	CE2	PHE	A	193	87.787	84.604	-81.906	1.00	45.84	A	C
ATOM	155	CZ	PHE	A	193	89.083	84.995	-81.635	1.00	45.84	A	C
ATOM	156	C	PHE	A	193	85.953	90.020	-84.416	1.00	45.84	A	C
ATOM	157	O	PHE	A	193	86.402	90.436	-85.484	1.00	45.84	A	O
ATOM	158	N	PHE	A	194	84.717	90.282	-84.000	1.00	127.60	A	N
ATOM	159	CA	PHE	A	194	83.807	91.111	-84.784	1.00	127.60	A	C
ATOM	160	CB	PHE	A	194	82.410	91.123	-84.159	1.00	127.60	A	C
ATOM	161	CG	PHE	A	194	81.642	89.849	-84.364	1.00	127.60	A	C
ATOM	162	CD1	PHE	A	194	81.724	88.817	-83.444	1.00	127.60	A	C
ATOM	163	CD2	PHE	A	194	80.835	89.683	-85.478	1.00	127.60	A	C
ATOM	164	CE1	PHE	A	194	81.017	87.644	-83.632	1.00	127.60	A	C
ATOM	165	CE2	PHE	A	194	80.126	88.513	-85.671	1.00	127.60	A	C
ATOM	166	CZ	PHE	A	194	80.217	87.492	-84.746	1.00	127.60	A	C
ATOM	167	C	PHE	A	194	84.333	92.536	-84.927	1.00	127.60	A	C
ATOM	168	O	PHE	A	194	84.084	93.200	-85.933	1.00	127.60	A	O
ATOM	169	N	ILE	A	195	85.061	93.000	-83.916	1.00	36.34	A	N
ATOM	170	CA	ILE	A	195	85.645	94.335	-83.946	1.00	36.34	A	C
ATOM	171	CB	ILE	A	195	86.228	94.728	-82.577	1.00	36.34	A	C
ATOM	172	CG2	ILE	A	195	86.723	96.166	-82.603	1.00	36.34	A	C
ATOM	173	CG1	ILE	A	195	85.184	94.539	-81.476	1.00	36.34	A	C
ATOM	174	CD1	ILE	A	195	85.715	94.797	-80.083	1.00	36.34	A	C
ATOM	175	C	ILE	A	195	86.750	94.408	-84.993	1.00	36.34	A	C
ATOM	176	O	ILE	A	195	86.930	95.433	-85.651	1.00	36.34	A	O

ATOM	177	N	ALA	A	196	87.487	93.313	-85.142	1.00	30.78	A	N
ATOM	178	CA	ALA	A	196	88.568	93.242	-86.116	1.00	30.78	A	C
ATOM	179	CB	ALA	A	196	89.504	92.090	-85.787	1.00	30.78	A	C
ATOM	180	C	ALA	A	196	88.019	93.096	-87.531	1.00	30.78	A	C
ATOM	181	O	ALA	A	196	88.459	93.784	-88.452	1.00	30.78	A	O
ATOM	182	N	VAL	A	197	87.054	92.197	-87.696	1.00	86.02	A	N
ATOM	183	CA	VAL	A	197	86.442	91.954	-88.997	1.00	86.02	A	C
ATOM	184	CB	VAL	A	197	85.406	90.814	-88.930	1.00	86.02	A	C
ATOM	185	CG1	VAL	A	197	84.712	90.646	-90.274	1.00	86.02	A	C
ATOM	186	CG2	VAL	A	197	86.074	89.515	-88.504	1.00	86.02	A	C
ATOM	187	C	VAL	A	197	85.770	93.213	-89.537	1.00	86.02	A	C
ATOM	188	O	VAL	A	197	85.841	93.502	-90.732	1.00	86.02	A	O
ATOM	189	N	SER	A	198	85.121	93.960	-88.650	1.00	41.44	A	N
ATOM	190	CA	SER	A	198	84.440	95.190	-89.039	1.00	41.44	A	C
ATOM	191	CB	SER	A	198	83.652	95.765	-87.860	1.00	41.44	A	C
ATOM	192	OG	SER	A	198	84.511	96.086	-86.779	1.00	41.44	A	O
ATOM	193	C	SER	A	198	85.426	96.226	-89.570	1.00	41.44	A	C
ATOM	194	O	SER	A	198	85.079	97.048	-90.419	1.00	41.44	A	O
ATOM	195	N	VAL	A	199	86.655	96.182	-89.065	1.00	108.02	A	N
ATOM	196	CA	VAL	A	199	87.698	97.103	-89.502	1.00	108.02	A	C
ATOM	197	CB	VAL	A	199	88.792	97.272	-88.430	1.00	108.02	A	C
ATOM	198	CG1	VAL	A	199	89.927	98.136	-88.960	1.00	108.02	A	C
ATOM	199	CG2	VAL	A	199	88.206	97.872	-87.162	1.00	108.02	A	C
ATOM	200	C	VAL	A	199	88.339	96.633	-90.804	1.00	108.02	A	C
ATOM	201	O	VAL	A	199	88.551	97.424	-91.723	1.00	108.02	A	O
ATOM	202	N	ILE	A	200	88.645	95.341	-90.875	1.00	89.21	A	N
ATOM	203	CA	ILE	A	200	89.245	94.761	-92.071	1.00	89.21	A	C
ATOM	204	CB	ILE	A	200	89.591	93.274	-91.868	1.00	89.21	A	C
ATOM	205	CG2	ILE	A	200	90.171	92.683	-93.144	1.00	89.21	A	C
ATOM	206	CG1	ILE	A	200	90.573	93.109	-90.707	1.00	89.21	A	C
ATOM	207	CD1	ILE	A	200	91.885	93.832	-90.911	1.00	89.21	A	C
ATOM	208	C	ILE	A	200	88.316	94.901	-93.272	1.00	89.21	A	C
ATOM	209	O	ILE	A	200	88.733	95.341	-94.344	1.00	89.21	A	O
ATOM	210	N	ALA	A	201	87.055	94.526	-93.085	1.00	33.80	A	N
ATOM	211	CA	ALA	A	201	86.059	94.633	-94.144	1.00	33.80	A	C
ATOM	212	CB	ALA	A	201	84.734	94.042	-93.690	1.00	33.80	A	C
ATOM	213	C	ALA	A	201	85.878	96.084	-94.574	1.00	33.80	A	C
ATOM	214	O	ALA	A	201	85.665	96.370	-95.752	1.00	33.80	A	O
ATOM	215	N	ASN	A	202	85.966	96.996	-93.610	1.00	47.57	A	N
ATOM	216	CA	ASN	A	202	85.850	98.422	-93.890	1.00	47.57	A	C
ATOM	217	CB	ASN	A	202	86.012	99.233	-92.602	1.00	47.57	A	C
ATOM	218	CG	ASN	A	202	85.661	100.698	-92.782	1.00	47.57	A	C
ATOM	219	OD1	ASN	A	202	85.833	101.264	-93.862	1.00	47.57	A	O
ATOM	220	ND2	ASN	A	202	85.166	101.321	-91.720	1.00	47.57	A	N
ATOM	221	C	ASN	A	202	86.880	98.861	-94.925	1.00	47.57	A	C
ATOM	222	O	ASN	A	202	86.572	99.630	-95.836	1.00	47.57	A	O
ATOM	223	N	VAL	A	203	88.102	98.360	-94.780	1.00	47.39	A	N
ATOM	224	CA	VAL	A	203	89.176	98.675	-95.713	1.00	47.39	A	C
ATOM	225	CB	VAL	A	203	90.536	98.166	-95.198	1.00	47.39	A	C
ATOM	226	CG1	VAL	A	203	91.641	98.505	-96.186	1.00	47.39	A	C
ATOM	227	CG2	VAL	A	203	90.838	98.756	-93.829	1.00	47.39	A	C
ATOM	228	C	VAL	A	203	88.900	98.068	-97.086	1.00	47.39	A	C
ATOM	229	O	VAL	A	203	89.198	98.674	-98.115	1.00	47.39	A	O
ATOM	230	N	VAL	A	204	88.323	96.871	-97.092	1.00	117.92	A	N
ATOM	231	CA	VAL	A	204	88.007	96.178	-98.336	1.00	117.92	A	C
ATOM	232	CB	VAL	A	204	87.570	94.723	-98.077	1.00	117.92	A	C
ATOM	233	CG1	VAL	A	204	87.346	93.992	-99.392	1.00	117.92	A	C
ATOM	234	CG2	VAL	A	204	88.610	94.000	-97.236	1.00	117.92	A	C
ATOM	235	C	VAL	A	204	86.908	96.907	-99.105	1.00	117.92	A	C
ATOM	236	O	VAL	A	204	86.843	96.834	-100.331	1.00	117.92	A	O
ATOM	237	N	GLU	A	205	86.048	97.611	-98.376	1.00	86.49	A	N
ATOM	238	CA	GLU	A	205	84.970	98.373	-98.996	1.00	86.49	A	C
ATOM	239	CB	GLU	A	205	84.002	98.897	-97.934	1.00	86.49	A	C
ATOM	240	CG	GLU	A	205	83.292	97.811	-97.143	1.00	86.49	A	C
ATOM	241	CD	GLU	A	205	82.352	98.377	-96.096	1.00	86.49	A	C
ATOM	242	OE1	GLU	A	205	82.258	99.618	-95.991	1.00	86.49	A	O
ATOM	243	OE2	GLU	A	205	81.709	97.583	-95.380	1.00	86.49	A	O
ATOM	244	C	GLU	A	205	85.523	99.534	-99.815	1.00	86.49	A	C

ATOM	245	O	GLU	A	205	84.857	100.044-100.715	1.00	86.49	A	O
ATOM	246	N	THR	A	206	86.746	99.946-99.496	1.00	119.91	A	N
ATOM	247	CA	THR	A	206	87.383	101.064-100.181	1.00	119.91	A	C
ATOM	248	CB	THR	A	206	88.425	101.754-99.280	1.00	119.91	A	C
ATOM	249	OG1	THR	A	206	87.837	102.054-98.008	1.00	119.91	A	O
ATOM	250	CG2	THR	A	206	88.921	103.042-99.921	1.00	119.91	A	C
ATOM	251	C	THR	A	206	88.054	100.611-101.475	1.00	119.91	A	C
ATOM	252	O	THR	A	206	88.332	101.423-102.358	1.00	119.91	A	O
ATOM	253	N	VAL	A	207	88.309	99.310-101.580	1.00	81.16	A	N
ATOM	254	CA	VAL	A	207	88.919	98.737-102.776	1.00	81.16	A	C
ATOM	255	CB	VAL	A	207	88.837	97.196-102.766	1.00	81.16	A	C
ATOM	256	CG1	VAL	A	207	89.277	96.626-104.106	1.00	81.16	A	C
ATOM	257	CG2	VAL	A	207	89.680	96.627-101.634	1.00	81.16	A	C
ATOM	258	C	VAL	A	207	88.252	99.271-104.040	1.00	81.16	A	C
ATOM	259	O	VAL	A	207	87.025	99.280-104.140	1.00	81.16	A	O
ATOM	260	N	PRO	A	208	89.065	99.728-105.005	1.00	163.31	A	N
ATOM	261	CA	PRO	A	208	88.593	100.307-106.268	1.00	163.31	A	C
ATOM	262	CD	PRO	A	208	90.536	99.713-104.926	1.00	163.31	A	C
ATOM	263	CB	PRO	A	208	89.849	100.295-107.138	1.00	163.31	A	C
ATOM	264	CG	PRO	A	208	90.959	100.458-106.166	1.00	163.31	A	C
ATOM	265	C	PRO	A	208	87.490	99.482-106.925	1.00	163.31	A	C
ATOM	266	O	PRO	A	208	87.778	98.528-107.649	1.00	163.31	A	O
ATOM	267	N	CYS	A	209	86.240	99.857-106.671	1.00	122.13	A	N
ATOM	268	CA	CYS	A	209	85.088	99.184-107.262	1.00	122.13	A	C
ATOM	269	CB	CYS	A	209	84.985	97.742-106.760	1.00	122.13	A	C
ATOM	270	SG	CYS	A	209	84.665	97.586-104.988	1.00	122.13	A	S
ATOM	271	C	CYS	A	209	83.804	99.941-106.941	1.00	122.13	A	C
ATOM	272	O	CYS	A	209	83.841	101.116-106.575	1.00	122.13	A	O
ATOM	273	N	GLY	A	210	82.669	99.263-107.078	1.00	296.88	A	N
ATOM	274	CA	GLY	A	210	81.381	99.863-106.783	1.00	296.88	A	C
ATOM	275	C	GLY	A	210	80.824	100.672-107.939	1.00	296.88	A	C
ATOM	276	O	GLY	A	210	81.373	100.660-109.040	1.00	296.88	A	O
ATOM	277	N	SER	A	211	79.727	101.377-107.683	1.00	230.38	A	N
ATOM	278	CA	SER	A	211	79.087	102.199-108.704	1.00	230.38	A	C
ATOM	279	CB	SER	A	211	77.638	101.755-108.915	1.00	230.38	A	C
ATOM	280	OG	SER	A	211	77.576	100.406-109.347	1.00	230.38	A	O
ATOM	281	C	SER	A	211	79.132	103.678-108.332	1.00	230.38	A	C
ATOM	282	O	SER	A	211	80.208	104.260-108.192	1.00	230.38	A	O
ATOM	283	N	SER	A	212	77.957	104.279-108.174	1.00	146.29	A	N
ATOM	284	CA	SER	A	212	77.859	105.691-107.816	1.00	146.29	A	C
ATOM	285	CB	SER	A	212	77.220	106.497-108.953	1.00	146.29	A	C
ATOM	286	OG	SER	A	212	78.001	106.425-110.133	1.00	146.29	A	O
ATOM	287	C	SER	A	212	77.101	105.915-106.504	1.00	146.29	A	C
ATOM	288	O	SER	A	212	77.609	106.584-105.604	1.00	146.29	A	O
ATOM	289	N	PRO	A	213	75.884	105.355-106.389	1.00	129.39	A	N
ATOM	290	CA	PRO	A	213	75.094	105.556-105.171	1.00	129.39	A	C
ATOM	291	CD	PRO	A	213	75.161	104.528-107.365	1.00	129.39	A	C
ATOM	292	CB	PRO	A	213	73.675	105.144-105.594	1.00	129.39	A	C
ATOM	293	CG	PRO	A	213	73.743	104.876-107.081	1.00	129.39	A	C
ATOM	294	C	PRO	A	213	75.569	104.647-104.045	1.00	129.39	A	C
ATOM	295	O	PRO	A	213	75.239	104.879-102.884	1.00	129.39	A	O
ATOM	296	N	GLY	A	214	76.328	103.616-104.400	1.00	105.51	A	N
ATOM	297	CA	GLY	A	214	76.833	102.670-103.426	1.00	105.51	A	C
ATOM	298	C	GLY	A	214	78.315	102.853-103.164	1.00	105.51	A	C
ATOM	299	O	GLY	A	214	78.913	102.118-102.378	1.00	105.51	A	O
ATOM	300	N	HIS	A	215	78.908	103.841-103.826	1.00	142.23	A	N
ATOM	301	CA	HIS	A	215	80.329	104.125-103.668	1.00	142.23	A	C
ATOM	302	ND1	HIS	A	215	83.321	104.121-104.618	1.00	142.23	A	N
ATOM	303	CG	HIS	A	215	82.354	105.072-104.862	1.00	142.23	A	C
ATOM	304	CB	HIS	A	215	80.897	104.740-104.948	1.00	142.23	A	C
ATOM	305	NE2	HIS	A	215	84.347	105.991-104.816	1.00	142.23	A	N
ATOM	306	CD2	HIS	A	215	83.009	106.251-104.985	1.00	142.23	A	C
ATOM	307	CE1	HIS	A	215	84.509	104.699-104.596	1.00	142.23	A	C
ATOM	308	C	HIS	A	215	80.581	105.053-102.484	1.00	142.23	A	C
ATOM	309	O	HIS	A	215	81.593	104.932-101.793	1.00	142.23	A	O
ATOM	310	N	ILE	A	216	79.656	105.980-102.257	1.00	67.89	A	N
ATOM	311	CA	ILE	A	216	79.776	106.929-101.157	1.00	67.89	A	C
ATOM	312	CB	ILE	A	216	78.737	108.060-101.268	1.00	67.89	A	C

ATOM	313	CG2	ILE	A	216	78.930	109.071-100.149	1.00	67.89	A	C
ATOM	314	CG1	ILE	A	216	78.832	108.740-102.635	1.00	67.89	A	C
ATOM	315	CD1	ILE	A	216	77.849	109.874-102.822	1.00	67.89	A	C
ATOM	316	C	ILE	A	216	79.608	106.228 -99.813	1.00	67.89	A	C
ATOM	317	O	ILE	A	216	80.430	106.389 -98.911	1.00	67.89	A	O
ATOM	318	N	LYS	A	217	78.537	105.451 -99.687	1.00	172.29	A	N
ATOM	319	CA	LYS	A	217	78.272	104.706 -98.463	1.00	172.29	A	C
ATOM	320	CB	LYS	A	217	76.786	104.354 -98.362	1.00	172.29	A	C
ATOM	321	CG	LYS	A	217	76.370	103.764 -97.022	1.00	172.29	A	C
ATOM	322	CD	LYS	A	217	76.644	104.734 -95.883	1.00	172.29	A	C
ATOM	323	CE	LYS	A	217	76.236	104.142 -94.543	1.00	172.29	A	C
ATOM	324	NZ	LYS	A	217	76.502	105.079 -93.415	1.00	172.29	A	N
ATOM	325	C	LYS	A	217	79.123	103.442 -98.418	1.00	172.29	A	C
ATOM	326	O	LYS	A	217	79.099	102.697 -97.438	1.00	172.29	A	O
ATOM	327	N	GLU	A	218	79.873	103.208 -99.492	1.00	302.48	A	N
ATOM	328	CA	GLU	A	218	80.763	102.054 -99.590	1.00	302.48	A	C
ATOM	329	CB	GLU	A	218	81.744	102.026 -98.414	1.00	302.48	A	C
ATOM	330	CG	GLU	A	218	82.599	103.277 -98.286	1.00	302.48	A	C
ATOM	331	CD	GLU	A	218	83.534	103.472 -99.464	1.00	302.48	A	C
ATOM	332	OE1	GLU	A	218	83.686	102.529-100.270	1.00	302.48	A	O
ATOM	333	OE2	GLU	A	218	84.119	104.569 -99.585	1.00	302.48	A	O
ATOM	334	C	GLU	A	218	79.996	100.737 -99.672	1.00	302.48	A	C
ATOM	335	O	GLU	A	218	80.595	99.666 -99.765	1.00	302.48	A	O
ATOM	336	N	LEU	A	219	78.670	100.824 -99.640	1.00	167.09	A	N
ATOM	337	CA	LEU	A	219	77.822	99.640 -99.734	1.00	167.09	A	C
ATOM	338	CB	LEU	A	219	77.928	98.792 -98.460	1.00	167.09	A	C
ATOM	339	CG	LEU	A	219	77.932	99.497 -97.100	1.00	167.09	A	C
ATOM	340	CD1	LEU	A	219	76.532	99.924 -96.689	1.00	167.09	A	C
ATOM	341	CD2	LEU	A	219	78.535	98.588 -96.042	1.00	167.09	A	C
ATOM	342	C	LEU	A	219	76.368	100.000-100.036	1.00	167.09	A	C
ATOM	343	O	LEU	A	219	75.752	100.784 -99.316	1.00	167.09	A	O
ATOM	344	N	PRO	A	220	75.823	99.433-101.122	1.00	155.58	A	N
ATOM	345	CA	PRO	A	220	74.432	99.659-101.528	1.00	155.58	A	C
ATOM	346	CD	PRO	A	220	76.556	98.611-102.099	1.00	155.58	A	C
ATOM	347	CB	PRO	A	220	74.317	98.865-102.835	1.00	155.58	A	C
ATOM	348	CG	PRO	A	220	75.719	98.738-103.331	1.00	155.58	A	C
ATOM	349	C	PRO	A	220	73.448	99.112-100.499	1.00	155.58	A	C
ATOM	350	O	PRO	A	220	73.258	97.899-100.413	1.00	155.58	A	O
ATOM	351	N	CYS	A	221	72.830	100.003 -99.730	1.00	60.66	A	N
ATOM	352	CA	CYS	A	221	71.871	99.595 -98.710	1.00	60.66	A	C
ATOM	353	CB	CYS	A	221	71.559	100.762 -97.772	1.00	60.66	A	C
ATOM	354	SG	CYS	A	221	72.998	101.419 -96.896	1.00	60.66	A	S
ATOM	355	C	CYS	A	221	70.586	99.069 -99.342	1.00	60.66	A	C
ATOM	356	O	CYS	A	221	69.954	99.754-100.146	1.00	60.66	A	O
ATOM	357	N	GLY	A	222	70.208	97.850 -98.974	1.00	31.84	A	N
ATOM	358	CA	GLY	A	222	69.008	97.231 -99.507	1.00	31.84	A	C
ATOM	359	C	GLY	A	222	68.591	95.997 -98.730	1.00	31.84	A	C
ATOM	360	O	GLY	A	222	69.367	95.453 -97.944	1.00	31.84	A	O
ATOM	361	N	GLU	A	223	67.358	95.557 -98.953	1.00	109.66	A	N
ATOM	362	CA	GLU	A	223	66.829	94.376 -98.281	1.00	109.66	A	C
ATOM	363	CB	GLU	A	223	65.302	94.454 -98.192	1.00	109.66	A	C
ATOM	364	CG	GLU	A	223	64.647	93.312 -97.425	1.00	109.66	A	C
ATOM	365	CD	GLU	A	223	64.444	92.071 -98.275	1.00	109.66	A	C
ATOM	366	OE1	GLU	A	223	64.563	92.169 -99.514	1.00	109.66	A	O
ATOM	367	OE2	GLU	A	223	64.165	90.996 -97.702	1.00	109.66	A	O
ATOM	368	C	GLU	A	223	67.261	93.105 -99.005	1.00	109.66	A	C
ATOM	369	O	GLU	A	223	67.319	92.028 -98.411	1.00	109.66	A	O
ATOM	370	N	ARG	A	224	67.571	93.241-100.291	1.00	102.89	A	N
ATOM	371	CA	ARG	A	224	67.986	92.107-101.110	1.00	102.89	A	C
ATOM	372	CB	ARG	A	224	68.303	92.564-102.535	1.00	102.89	A	C
ATOM	373	CG	ARG	A	224	67.130	93.203-103.260	1.00	102.89	A	C
ATOM	374	CD	ARG	A	224	67.524	93.654-104.658	1.00	102.89	A	C
ATOM	375	NE	ARG	A	224	66.417	94.300-105.356	1.00	102.89	A	N
ATOM	376	CZ	ARG	A	224	66.495	94.790-106.588	1.00	102.89	A	C
ATOM	377	NH1	ARG	A	224	67.633	94.709-107.265	1.00	102.89	A	N
ATOM	378	NH2	ARG	A	224	65.437	95.362-107.145	1.00	102.89	A	N
ATOM	379	C	ARG	A	224	69.193	91.386-100.515	1.00	102.89	A	C
ATOM	380	O	ARG	A	224	69.368	90.184-100.716	1.00	102.89	A	O

ATOM	381	N	TYR	A	225	70.022	92.128	-99.787	1.00235.34	A	N
ATOM	382	CA	TYR	A	225	71.218	91.566	-99.167	1.00235.34	A	C
ATOM	383	CB	TYR	A	225	70.838	90.563	-98.075	1.00235.34	A	C
ATOM	384	CG	TYR	A	225	70.032	91.159	-96.944	1.00235.34	A	C
ATOM	385	CD1	TYR	A	225	70.100	92.515	-96.655	1.00235.34	A	C
ATOM	386	CD2	TYR	A	225	69.201	90.364	-96.165	1.00235.34	A	C
ATOM	387	CE1	TYR	A	225	69.364	93.063	-95.622	1.00235.34	A	C
ATOM	388	CE2	TYR	A	225	68.461	90.904	-95.130	1.00235.34	A	C
ATOM	389	CZ	TYR	A	225	68.546	92.253	-94.863	1.00235.34	A	C
ATOM	390	OH	TYR	A	225	67.811	92.794	-93.834	1.00235.34	A	O
ATOM	391	C	TYR	A	225	72.122	90.899	-100.198	1.00235.34	A	C
ATOM	392	O	TYR	A	225	72.683	89.833	-99.947	1.00235.34	A	O
ATOM	393	N	ALA	A	226	72.258	91.533	-101.358	1.00 79.48	A	N
ATOM	394	CA	ALA	A	226	73.095	91.000	-102.427	1.00 79.48	A	C
ATOM	395	CB	ALA	A	226	72.681	91.587	-103.769	1.00 79.48	A	C
ATOM	396	C	ALA	A	226	74.572	91.270	-102.159	1.00 79.48	A	C
ATOM	397	O	ALA	A	226	75.402	90.365	-102.239	1.00 79.48	A	O
ATOM	398	N	VAL	A	227	74.893	92.519	-101.841	1.00226.17	A	N
ATOM	399	CA	VAL	A	227	76.269	92.906	-101.554	1.00226.17	A	C
ATOM	400	CB	VAL	A	227	76.411	94.435	-101.430	1.00226.17	A	C
ATOM	401	CG1	VAL	A	227	77.844	94.808	-101.082	1.00226.17	A	C
ATOM	402	CG2	VAL	A	227	75.976	95.113	-102.719	1.00226.17	A	C
ATOM	403	C	VAL	A	227	76.766	92.247	-100.271	1.00226.17	A	C
ATOM	404	O	VAL	A	227	76.162	92.401	-99.209	1.00226.17	A	O
ATOM	405	N	ALA	A	228	77.868	91.512	-100.378	1.00 52.15	A	N
ATOM	406	CA	ALA	A	228	78.444	90.822	-99.229	1.00 52.15	A	C
ATOM	407	CB	ALA	A	228	79.563	89.894	-99.675	1.00 52.15	A	C
ATOM	408	C	ALA	A	228	78.956	91.811	-98.188	1.00 52.15	A	C
ATOM	409	O	ALA	A	228	78.946	91.527	-96.991	1.00 52.15	A	O
ATOM	410	N	PHE	A	229	79.403	92.973	-98.654	1.00 68.64	A	N
ATOM	411	CA	PHE	A	229	79.912	94.010	-97.765	1.00 68.64	A	C
ATOM	412	CB	PHE	A	229	80.483	95.176	-98.575	1.00 68.64	A	C
ATOM	413	CG	PHE	A	229	81.617	94.788	-99.480	1.00 68.64	A	C
ATOM	414	CD1	PHE	A	229	82.925	94.831	-99.028	1.00 68.64	A	C
ATOM	415	CD2	PHE	A	229	81.375	94.380	-100.781	1.00 68.64	A	C
ATOM	416	CE1	PHE	A	229	83.971	94.475	-99.858	1.00 68.64	A	C
ATOM	417	CE2	PHE	A	229	82.417	94.022	-101.615	1.00 68.64	A	C
ATOM	418	CZ	PHE	A	229	83.717	94.070	-101.152	1.00 68.64	A	C
ATOM	419	C	PHE	A	229	78.820	94.511	-96.827	1.00 68.64	A	C
ATOM	420	O	PHE	A	229	79.080	94.817	-95.664	1.00 68.64	A	O
ATOM	421	N	PHE	A	230	77.598	94.593	-97.341	1.00 73.77	A	N
ATOM	422	CA	PHE	A	230	76.463	95.049	-96.549	1.00 73.77	A	C
ATOM	423	CB	PHE	A	230	75.281	95.398	-97.455	1.00 73.77	A	C
ATOM	424	CG	PHE	A	230	74.086	95.930	-96.715	1.00 73.77	A	C
ATOM	425	CD1	PHE	A	230	73.986	97.278	-96.413	1.00 73.77	A	C
ATOM	426	CD2	PHE	A	230	73.062	95.083	-96.325	1.00 73.77	A	C
ATOM	427	CE1	PHE	A	230	72.888	97.770	-95.735	1.00 73.77	A	C
ATOM	428	CE2	PHE	A	230	71.962	95.570	-95.646	1.00 73.77	A	C
ATOM	429	CZ	PHE	A	230	71.875	96.915	-95.351	1.00 73.77	A	C
ATOM	430	C	PHE	A	230	76.050	93.993	-95.530	1.00 73.77	A	C
ATOM	431	O	PHE	A	230	75.614	94.318	-94.427	1.00 73.77	A	O
ATOM	432	N	CYS	A	231	76.189	92.727	-95.910	1.00 36.96	A	N
ATOM	433	CA	CYS	A	231	75.844	91.619	-95.028	1.00 36.96	A	C
ATOM	434	CB	CYS	A	231	75.846	90.299	-95.801	1.00 36.96	A	C
ATOM	435	SG	CYS	A	231	74.656	90.227	-97.159	1.00 36.96	A	S
ATOM	436	C	CYS	A	231	76.808	91.540	-93.850	1.00 36.96	A	C
ATOM	437	O	CYS	A	231	76.398	91.292	-92.716	1.00 36.96	A	O
ATOM	438	N	LEU	A	232	78.090	91.753	-94.126	1.00104.38	A	N
ATOM	439	CA	LEU	A	232	79.112	91.725	-93.087	1.00104.38	A	C
ATOM	440	CB	LEU	A	232	80.510	91.694	-93.708	1.00104.38	A	C
ATOM	441	CG	LEU	A	232	80.838	90.487	-94.589	1.00104.38	A	C
ATOM	442	CD1	LEU	A	232	82.227	90.624	-95.193	1.00104.38	A	C
ATOM	443	CD2	LEU	A	232	80.718	89.195	-93.796	1.00104.38	A	C
ATOM	444	C	LEU	A	232	78.976	92.927	-92.159	1.00104.38	A	C
ATOM	445	O	LEU	A	232	79.132	92.806	-90.944	1.00104.38	A	O
ATOM	446	N	ASP	A	233	78.686	94.086	-92.741	1.00 58.49	A	N
ATOM	447	CA	ASP	A	233	78.514	95.310	-91.968	1.00 58.49	A	C
ATOM	448	CB	ASP	A	233	78.323	96.509	-92.899	1.00 58.49	A	C

ATOM	449	CG	ASP	A	233	78.149	97.811	-92.143	1.00	58.49	A	C
ATOM	450	OD1	ASP	A	233	78.718	97.940	-91.038	1.00	58.49	A	O
ATOM	451	OD2	ASP	A	233	77.444	98.707	-92.653	1.00	58.49	A	O
ATOM	452	C	ASP	A	233	77.328	95.191	-91.016	1.00	58.49	A	C
ATOM	453	O	ASP	A	233	77.426	95.545	-89.842	1.00	58.49	A	O
ATOM	454	N	THR	A	234	76.210	94.690	-91.532	1.00	127.80	A	N
ATOM	455	CA	THR	A	234	75.008	94.508	-90.727	1.00	127.80	A	C
ATOM	456	CB	THR	A	234	73.817	94.043	-91.587	1.00	127.80	A	C
ATOM	457	OG1	THR	A	234	73.560	95.009	-92.614	1.00	127.80	A	O
ATOM	458	CG2	THR	A	234	72.571	93.876	-90.731	1.00	127.80	A	C
ATOM	459	C	THR	A	234	75.247	93.495	-89.612	1.00	127.80	A	C
ATOM	460	O	THR	A	234	74.723	93.637	-88.508	1.00	127.80	A	O
ATOM	461	N	ALA	A	235	76.044	92.473	-89.910	1.00	35.61	A	N
ATOM	462	CA	ALA	A	235	76.363	91.440	-88.932	1.00	35.61	A	C
ATOM	463	CB	ALA	A	235	77.120	90.299	-89.595	1.00	35.61	A	C
ATOM	464	C	ALA	A	235	77.169	92.011	-87.770	1.00	35.61	A	C
ATOM	465	O	ALA	A	235	76.926	91.676	-86.610	1.00	35.61	A	O
ATOM	466	N	CYS	A	236	78.127	92.876	-88.089	1.00	41.29	A	N
ATOM	467	CA	CYS	A	236	78.963	93.502	-87.071	1.00	41.29	A	C
ATOM	468	CB	CYS	A	236	80.147	94.224	-87.718	1.00	41.29	A	C
ATOM	469	SG	CYS	A	236	81.264	93.146	-88.646	1.00	41.29	A	S
ATOM	470	C	CYS	A	236	78.157	94.476	-86.219	1.00	41.29	A	C
ATOM	471	O	CYS	A	236	78.242	94.456	-84.991	1.00	41.29	A	O
ATOM	472	N	VAL	A	237	77.376	95.326	-86.878	1.00	109.38	A	N
ATOM	473	CA	VAL	A	237	76.544	96.300	-86.181	1.00	109.38	A	C
ATOM	474	CB	VAL	A	237	75.826	97.240	-87.169	1.00	109.38	A	C
ATOM	475	CG1	VAL	A	237	74.895	98.185	-86.425	1.00	109.38	A	C
ATOM	476	CG2	VAL	A	237	76.840	98.021	-87.990	1.00	109.38	A	C
ATOM	477	C	VAL	A	237	75.510	95.605	-85.302	1.00	109.38	A	C
ATOM	478	O	VAL	A	237	75.183	96.083	-84.216	1.00	109.38	A	O
ATOM	479	N	MET	A	238	75.001	94.473	-85.779	1.00	141.41	A	N
ATOM	480	CA	MET	A	238	74.018	93.698	-85.032	1.00	141.41	A	C
ATOM	481	CB	MET	A	238	73.603	92.456	-85.825	1.00	141.41	A	C
ATOM	482	CG	MET	A	238	72.463	91.656	-85.207	1.00	141.41	A	C
ATOM	483	SD	MET	A	238	72.958	90.663	-83.785	1.00	141.41	A	S
ATOM	484	CE	MET	A	238	71.405	89.876	-83.365	1.00	141.41	A	C
ATOM	485	C	MET	A	238	74.576	93.297	-83.671	1.00	141.41	A	C
ATOM	486	O	MET	A	238	73.938	93.511	-82.640	1.00	141.41	A	O
ATOM	487	N	ILE	A	239	75.772	92.717	-83.676	1.00	163.25	A	N
ATOM	488	CA	ILE	A	239	76.426	92.296	-82.444	1.00	163.25	A	C
ATOM	489	CB	ILE	A	239	77.749	91.562	-82.730	1.00	163.25	A	C
ATOM	490	CG2	ILE	A	239	78.410	91.126	-81.431	1.00	163.25	A	C
ATOM	491	CG1	ILE	A	239	77.505	90.359	-83.642	1.00	163.25	A	C
ATOM	492	CD1	ILE	A	239	76.554	89.335	-83.062	1.00	163.25	A	C
ATOM	493	C	ILE	A	239	76.703	93.490	-81.537	1.00	163.25	A	C
ATOM	494	O	ILE	A	239	76.501	93.423	-80.325	1.00	163.25	A	O
ATOM	495	N	PHE	A	240	77.166	94.584	-82.134	1.00	70.90	A	N
ATOM	496	CA	PHE	A	240	77.475	95.795	-81.384	1.00	70.90	A	C
ATOM	497	CB	PHE	A	240	78.139	96.833	-82.292	1.00	70.90	A	C
ATOM	498	CG	PHE	A	240	79.438	96.373	-82.891	1.00	70.90	A	C
ATOM	499	CD1	PHE	A	240	80.174	95.364	-82.293	1.00	70.90	A	C
ATOM	500	CD2	PHE	A	240	79.923	96.949	-84.054	1.00	70.90	A	C
ATOM	501	CE1	PHE	A	240	81.369	94.938	-82.842	1.00	70.90	A	C
ATOM	502	CE2	PHE	A	240	81.117	96.528	-84.608	1.00	70.90	A	C
ATOM	503	CZ	PHE	A	240	81.841	95.521	-84.001	1.00	70.90	A	C
ATOM	504	C	PHE	A	240	76.222	96.383	-80.742	1.00	70.90	A	C
ATOM	505	O	PHE	A	240	76.275	96.924	-79.638	1.00	70.90	A	O
ATOM	506	N	THR	A	241	75.097	96.272	-81.442	1.00	101.68	A	N
ATOM	507	CA	THR	A	241	73.830	96.791	-80.942	1.00	101.68	A	C
ATOM	508	CB	THR	A	241	72.753	96.809	-82.042	1.00	101.68	A	C
ATOM	509	OG1	THR	A	241	73.174	97.665	-83.112	1.00	101.68	A	O
ATOM	510	CG2	THR	A	241	71.430	97.315	-81.486	1.00	101.68	A	C
ATOM	511	C	THR	A	241	73.326	95.969	-79.761	1.00	101.68	A	C
ATOM	512	O	THR	A	241	72.876	96.520	-78.756	1.00	101.68	A	O
ATOM	513	N	VAL	A	242	73.404	94.648	-79.888	1.00	32.84	A	N
ATOM	514	CA	VAL	A	242	72.968	93.748	-78.827	1.00	32.84	A	C
ATOM	515	CB	VAL	A	242	73.150	92.271	-79.225	1.00	32.84	A	C
ATOM	516	CG1	VAL	A	242	72.798	91.360	-78.059	1.00	32.84	A	C

ATOM	517	CG2	VAL	A	242	72.299	91.942	-80.441	1.00	32.84	A	C
ATOM	518	C	VAL	A	242	73.728	94.020	-77.533	1.00	32.84	A	C
ATOM	519	O	VAL	A	242	73.142	94.040	-76.450	1.00	32.84	A	O
ATOM	520	N	GLU	A	243	75.034	94.231	-77.653	1.00	57.64	A	N
ATOM	521	CA	GLU	A	243	75.870	94.528	-76.496	1.00	57.64	A	C
ATOM	522	CB	GLU	A	243	77.336	94.657	-76.911	1.00	57.64	A	C
ATOM	523	CG	GLU	A	243	77.920	93.398	-77.529	1.00	57.64	A	C
ATOM	524	CD	GLU	A	243	79.367	93.571	-77.947	1.00	57.64	A	C
ATOM	525	OE1	GLU	A	243	79.917	92.648	-78.583	1.00	57.64	A	O
ATOM	526	OE2	GLU	A	243	79.954	94.629	-77.638	1.00	57.64	A	O
ATOM	527	C	GLU	A	243	75.408	95.807	-75.806	1.00	57.64	A	C
ATOM	528	O	GLU	A	243	75.419	95.903	-74.579	1.00	57.64	A	O
ATOM	529	N	TYR	A	244	75.001	96.787	-76.606	1.00	53.95	A	N
ATOM	530	CA	TYR	A	244	74.521	98.058	-76.079	1.00	53.95	A	C
ATOM	531	CB	TYR	A	244	74.374	99.084	-77.205	1.00	53.95	A	C
ATOM	532	CG	TYR	A	244	73.717	100.377	-76.775	1.00	53.95	A	C
ATOM	533	CD1	TYR	A	244	74.453	101.383	-76.165	1.00	53.95	A	C
ATOM	534	CD2	TYR	A	244	72.361	100.591	-76.982	1.00	53.95	A	C
ATOM	535	CE1	TYR	A	244	73.856	102.566	-75.771	1.00	53.95	A	C
ATOM	536	CE2	TYR	A	244	71.756	101.771	-76.592	1.00	53.95	A	C
ATOM	537	CZ	TYR	A	244	72.508	102.754	-75.987	1.00	53.95	A	C
ATOM	538	OH	TYR	A	244	71.910	103.931	-75.597	1.00	53.95	A	O
ATOM	539	C	TYR	A	244	73.193	97.890	-75.347	1.00	53.95	A	C
ATOM	540	O	TYR	A	244	72.968	98.501	-74.303	1.00	53.95	A	O
ATOM	541	N	LEU	A	245	72.319	97.056	-75.901	1.00	44.50	A	N
ATOM	542	CA	LEU	A	245	71.003	96.826	-75.316	1.00	44.50	A	C
ATOM	543	CB	LEU	A	245	70.090	96.114	-76.316	1.00	44.50	A	C
ATOM	544	CG	LEU	A	245	69.815	96.854	-77.626	1.00	44.50	A	C
ATOM	545	CD1	LEU	A	245	68.965	96.002	-78.557	1.00	44.50	A	C
ATOM	546	CD2	LEU	A	245	69.144	98.192	-77.357	1.00	44.50	A	C
ATOM	547	C	LEU	A	245	71.093	96.020	-74.023	1.00	44.50	A	C
ATOM	548	O	LEU	A	245	70.370	96.287	-73.063	1.00	44.50	A	O
ATOM	549	N	LEU	A	246	71.985	95.035	-74.005	1.00	93.07	A	N
ATOM	550	CA	LEU	A	246	72.156	94.179	-72.837	1.00	93.07	A	C
ATOM	551	CB	LEU	A	246	73.011	92.957	-73.183	1.00	93.07	A	C
ATOM	552	CG	LEU	A	246	72.415	91.982	-74.201	1.00	93.07	A	C
ATOM	553	CD1	LEU	A	246	73.390	90.853	-74.497	1.00	93.07	A	C
ATOM	554	CD2	LEU	A	246	71.087	91.433	-73.704	1.00	93.07	A	C
ATOM	555	C	LEU	A	246	72.770	94.937	-71.665	1.00	93.07	A	C
ATOM	556	O	LEU	A	246	72.249	94.896	-70.551	1.00	93.07	A	O
ATOM	557	N	ARG	A	247	73.877	95.627	-71.920	1.00	110.03	A	N
ATOM	558	CA	ARG	A	247	74.560	96.385	-70.878	1.00	110.03	A	C
ATOM	559	CB	ARG	A	247	75.902	96.921	-71.384	1.00	110.03	A	C
ATOM	560	CG	ARG	A	247	76.925	95.844	-71.706	1.00	110.03	A	C
ATOM	561	CD	ARG	A	247	78.299	96.450	-71.948	1.00	110.03	A	C
ATOM	562	NE	ARG	A	247	79.306	95.436	-72.249	1.00	110.03	A	N
ATOM	563	CZ	ARG	A	247	79.698	95.112	-73.477	1.00	110.03	A	C
ATOM	564	NH1	ARG	A	247	79.170	95.727	-74.526	1.00	110.03	A	N
ATOM	565	NH2	ARG	A	247	80.620	94.177	-73.656	1.00	110.03	A	N
ATOM	566	C	ARG	A	247	73.697	97.533	-70.360	1.00	110.03	A	C
ATOM	567	O	ARG	A	247	73.866	97.986	-69.228	1.00	110.03	A	O
ATOM	568	N	LEU	A	248	72.775	98.000	-71.195	1.00	148.40	A	N
ATOM	569	CA	LEU	A	248	71.886	99.093	-70.818	1.00	148.40	A	C
ATOM	570	CB	LEU	A	248	71.199	99.676	-72.055	1.00	148.40	A	C
ATOM	571	CG	LEU	A	248	70.285	100.881	-71.825	1.00	148.40	A	C
ATOM	572	CD1	LEU	A	248	71.054	102.020	-71.176	1.00	148.40	A	C
ATOM	573	CD2	LEU	A	248	69.651	101.333	-73.131	1.00	148.40	A	C
ATOM	574	C	LEU	A	248	70.841	98.628	-69.809	1.00	148.40	A	C
ATOM	575	O	LEU	A	248	70.353	99.415	-68.999	1.00	148.40	A	O
ATOM	576	N	ALA	A	249	70.505	97.343	-69.864	1.00	46.03	A	N
ATOM	577	CA	ALA	A	249	69.514	96.772	-68.959	1.00	46.03	A	C
ATOM	578	CB	ALA	A	249	68.549	95.880	-69.726	1.00	46.03	A	C
ATOM	579	C	ALA	A	249	70.177	95.994	-67.828	1.00	46.03	A	C
ATOM	580	O	ALA	A	249	69.526	95.624	-66.851	1.00	46.03	A	O
ATOM	581	N	ALA	A	250	71.476	95.748	-67.967	1.00	55.13	A	N
ATOM	582	CA	ALA	A	250	72.230	95.018	-66.955	1.00	55.13	A	C
ATOM	583	CB	ALA	A	250	73.229	94.078	-67.613	1.00	55.13	A	C
ATOM	584	C	ALA	A	250	72.943	95.975	-66.006	1.00	55.13	A	C

ATOM	585	O	ALA	A	250	73.382	95.580	-64.926	1.00	55.13	A	O
ATOM	586	N	ALA	A	251	73.054	97.234	-66.416	1.00	67.05	A	N
ATOM	587	CA	ALA	A	251	73.708	98.250	-65.601	1.00	67.05	A	C
ATOM	588	CB	ALA	A	251	74.021	99.481	-66.436	1.00	67.05	A	C
ATOM	589	C	ALA	A	251	72.850	98.625	-64.397	1.00	67.05	A	C
ATOM	590	O	ALA	A	251	71.705	99.048	-64.554	1.00	67.05	A	O
ATOM	591	N	PRO	A	252	73.408	98.467	-63.188	1.00	163.88	A	N
ATOM	592	CA	PRO	A	252	72.715	98.795	-61.937	1.00	163.88	A	C
ATOM	593	CD	PRO	A	252	74.754	97.921	-62.946	1.00	163.88	A	C
ATOM	594	CB	PRO	A	252	73.804	98.605	-60.879	1.00	163.88	A	C
ATOM	595	CG	PRO	A	252	74.736	97.612	-61.478	1.00	163.88	A	C
ATOM	596	C	PRO	A	252	72.220	100.238	-61.925	1.00	163.88	A	C
ATOM	597	O	PRO	A	252	71.236	100.547	-61.252	1.00	163.88	A	O
ATOM	598	N	SER	A	253	72.901	101.108	-62.663	1.00	124.25	A	N
ATOM	599	CA	SER	A	253	72.523	102.515	-62.734	1.00	124.25	A	C
ATOM	600	CB	SER	A	253	73.636	103.397	-62.164	1.00	124.25	A	C
ATOM	601	OG	SER	A	253	73.284	104.768	-62.225	1.00	124.25	A	O
ATOM	602	C	SER	A	253	72.207	102.931	-64.166	1.00	124.25	A	C
ATOM	603	O	SER	A	253	72.907	102.548	-65.103	1.00	124.25	A	O
ATOM	604	N	ARG	A	254	71.148	103.718	-64.328	1.00	172.72	A	N
ATOM	605	CA	ARG	A	254	70.740	104.192	-65.645	1.00	172.72	A	C
ATOM	606	CB	ARG	A	254	69.236	103.997	-65.843	1.00	172.72	A	C
ATOM	607	CG	ARG	A	254	68.790	102.545	-65.824	1.00	172.72	A	C
ATOM	608	CD	ARG	A	254	69.441	101.755	-66.947	1.00	172.72	A	C
ATOM	609	NE	ARG	A	254	69.109	102.299	-68.260	1.00	172.72	A	N
ATOM	610	CZ	ARG	A	254	68.057	101.923	-68.980	1.00	172.72	A	C
ATOM	611	NH1	ARG	A	254	67.229	100.998	-68.516	1.00	172.72	A	N
ATOM	612	NH2	ARG	A	254	67.832	102.473	-70.166	1.00	172.72	A	N
ATOM	613	C	ARG	A	254	71.109	105.658	-65.845	1.00	172.72	A	C
ATOM	614	O	ARG	A	254	70.895	106.220	-66.919	1.00	172.72	A	O
ATOM	615	N	TYR	A	255	71.661	106.273	-64.804	1.00	99.39	A	N
ATOM	616	CA	TYR	A	255	72.063	107.673	-64.868	1.00	99.39	A	C
ATOM	617	CB	TYR	A	255	71.622	108.417	-63.606	1.00	99.39	A	C
ATOM	618	CG	TYR	A	255	71.860	109.910	-63.658	1.00	99.39	A	C
ATOM	619	CD1	TYR	A	255	70.920	110.763	-64.220	1.00	99.39	A	C
ATOM	620	CD2	TYR	A	255	73.024	110.466	-63.144	1.00	99.39	A	C
ATOM	621	CE1	TYR	A	255	71.132	112.127	-64.270	1.00	99.39	A	C
ATOM	622	CE2	TYR	A	255	73.245	111.829	-63.190	1.00	99.39	A	C
ATOM	623	CZ	TYR	A	255	72.296	112.655	-63.753	1.00	99.39	A	C
ATOM	624	OH	TYR	A	255	72.511	114.013	-63.801	1.00	99.39	A	O
ATOM	625	C	TYR	A	255	73.571	107.798	-65.057	1.00	99.39	A	C
ATOM	626	O	TYR	A	255	74.060	108.795	-65.589	1.00	99.39	A	O
ATOM	627	N	ARG	A	256	74.304	106.779	-64.619	1.00	167.77	A	N
ATOM	628	CA	ARG	A	256	75.755	106.764	-64.753	1.00	167.77	A	C
ATOM	629	CB	ARG	A	256	76.398	106.093	-63.537	1.00	167.77	A	C
ATOM	630	CG	ARG	A	256	76.142	106.810	-62.222	1.00	167.77	A	C
ATOM	631	CD	ARG	A	256	76.779	106.068	-61.059	1.00	167.77	A	C
ATOM	632	NE	ARG	A	256	78.214	105.875	-61.253	1.00	167.77	A	N
ATOM	633	CZ	ARG	A	256	79.145	106.732	-60.848	1.00	167.77	A	C
ATOM	634	NH1	ARG	A	256	78.796	107.847	-60.222	1.00	167.77	A	N
ATOM	635	NH2	ARG	A	256	80.427	106.474	-61.068	1.00	167.77	A	N
ATOM	636	C	ARG	A	256	76.184	106.050	-66.030	1.00	167.77	A	C
ATOM	637	O	ARG	A	256	77.375	105.858	-66.277	1.00	167.77	A	O
ATOM	638	N	PHE	A	257	75.204	105.658	-66.839	1.00	86.55	A	N
ATOM	639	CA	PHE	A	257	75.476	104.955	-68.087	1.00	86.55	A	C
ATOM	640	CB	PHE	A	257	74.209	104.265	-68.600	1.00	86.55	A	C
ATOM	641	CG	PHE	A	257	74.397	103.543	-69.903	1.00	86.55	A	C
ATOM	642	CD1	PHE	A	257	74.874	102.243	-69.928	1.00	86.55	A	C
ATOM	643	CD2	PHE	A	257	74.096	104.164	-71.104	1.00	86.55	A	C
ATOM	644	CE1	PHE	A	257	75.047	101.575	-71.126	1.00	86.55	A	C
ATOM	645	CE2	PHE	A	257	74.267	103.502	-72.306	1.00	86.55	A	C
ATOM	646	CZ	PHE	A	257	74.743	102.206	-72.317	1.00	86.55	A	C
ATOM	647	C	PHE	A	257	76.024	105.900	-69.151	1.00	86.55	A	C
ATOM	648	O	PHE	A	257	77.028	105.606	-69.799	1.00	86.55	A	O
ATOM	649	N	VAL	A	258	75.359	107.038	-69.323	1.00	126.69	A	N
ATOM	650	CA	VAL	A	258	75.765	108.018	-70.324	1.00	126.69	A	C
ATOM	651	CB	VAL	A	258	74.624	109.001	-70.645	1.00	126.69	A	C
ATOM	652	CG1	VAL	A	258	73.442	108.260	-71.252	1.00	126.69	A	C

ATOM	653	CG2	VAL	A	258	74.206	109.755	-69.392	1.00	126.69	A	C
ATOM	654	C	VAL	A	258	76.990	108.808	-69.873	1.00	126.69	A	C
ATOM	655	O	VAL	A	258	77.496	109.657	-70.607	1.00	126.69	A	O
ATOM	656	N	ARG	A	259	77.462	108.524	-68.663	1.00	166.93	A	N
ATOM	657	CA	ARG	A	259	78.627	109.211	-68.117	1.00	166.93	A	C
ATOM	658	CB	ARG	A	259	78.503	109.353	-66.599	1.00	166.93	A	C
ATOM	659	CG	ARG	A	259	79.647	110.119	-65.953	1.00	166.93	A	C
ATOM	660	CD	ARG	A	259	79.472	110.209	-64.447	1.00	166.93	A	C
ATOM	661	NE	ARG	A	259	80.534	110.990	-63.819	1.00	166.93	A	N
ATOM	662	CZ	ARG	A	259	81.681	110.478	-63.386	1.00	166.93	A	C
ATOM	663	NH1	ARG	A	259	81.920	109.180	-63.511	1.00	166.93	A	N
ATOM	664	NH2	ARG	A	259	82.591	111.264	-62.827	1.00	166.93	A	N
ATOM	665	C	ARG	A	259	79.918	108.481	-68.472	1.00	166.93	A	C
ATOM	666	O	ARG	A	259	80.959	109.107	-68.676	1.00	166.93	A	O
ATOM	667	N	SER	A	260	79.845	107.156	-68.542	1.00	90.97	A	N
ATOM	668	CA	SER	A	260	81.010	106.341	-68.865	1.00	90.97	A	C
ATOM	669	CB	SER	A	260	80.679	104.853	-68.726	1.00	90.97	A	C
ATOM	670	OG	SER	A	260	80.276	104.541	-67.404	1.00	90.97	A	O
ATOM	671	C	SER	A	260	81.521	106.636	-70.271	1.00	90.97	A	C
ATOM	672	O	SER	A	260	80.743	106.954	-71.170	1.00	90.97	A	O
ATOM	673	N	VAL	A	261	82.833	106.530	-70.454	1.00	94.76	A	N
ATOM	674	CA	VAL	A	261	83.450	106.794	-71.749	1.00	94.76	A	C
ATOM	675	CB	VAL	A	261	84.909	107.267	-71.595	1.00	94.76	A	C
ATOM	676	CG1	VAL	A	261	84.960	108.607	-70.878	1.00	94.76	A	C
ATOM	677	CG2	VAL	A	261	85.732	106.225	-70.852	1.00	94.76	A	C
ATOM	678	C	VAL	A	261	83.415	105.561	-72.646	1.00	94.76	A	C
ATOM	679	O	VAL	A	261	83.461	105.673	-73.871	1.00	94.76	A	O
ATOM	680	N	MET	A	262	83.334	104.386	-72.030	1.00	60.02	A	N
ATOM	681	CA	MET	A	262	83.288	103.133	-72.775	1.00	60.02	A	C
ATOM	682	CB	MET	A	262	83.579	101.948	-71.852	1.00	60.02	A	C
ATOM	683	CG	MET	A	262	84.964	101.976	-71.224	1.00	60.02	A	C
ATOM	684	SD	MET	A	262	86.281	101.976	-72.454	1.00	60.02	A	S
ATOM	685	CE	MET	A	262	87.730	101.994	-71.401	1.00	60.02	A	C
ATOM	686	C	MET	A	262	81.937	102.949	-73.457	1.00	60.02	A	C
ATOM	687	O	MET	A	262	81.854	102.389	-74.550	1.00	60.02	A	O
ATOM	688	N	SER	A	263	80.882	103.423	-72.804	1.00	83.90	A	N
ATOM	689	CA	SER	A	263	79.533	103.317	-73.345	1.00	83.90	A	C
ATOM	690	CB	SER	A	263	78.500	103.693	-72.282	1.00	83.90	A	C
ATOM	691	OG	SER	A	263	78.679	105.030	-71.849	1.00	83.90	A	O
ATOM	692	C	SER	A	263	79.362	104.206	-74.573	1.00	83.90	A	C
ATOM	693	O	SER	A	263	78.716	103.818	-75.546	1.00	83.90	A	O
ATOM	694	N	ILE	A	264	79.944	105.399	-74.518	1.00	88.68	A	N
ATOM	695	CA	ILE	A	264	79.864	106.345	-75.624	1.00	88.68	A	C
ATOM	696	CB	ILE	A	264	80.595	107.661	-75.295	1.00	88.68	A	C
ATOM	697	CG2	ILE	A	264	80.489	108.637	-76.457	1.00	88.68	A	C
ATOM	698	CG1	ILE	A	264	80.029	108.280	-74.016	1.00	88.68	A	C
ATOM	699	CD1	ILE	A	264	78.557	108.622	-74.102	1.00	88.68	A	C
ATOM	700	C	ILE	A	264	80.455	105.751	-76.898	1.00	88.68	A	C
ATOM	701	O	ILE	A	264	79.896	105.905	-77.984	1.00	88.68	A	O
ATOM	702	N	ILE	A	265	81.588	105.072	-76.756	1.00	113.98	A	N
ATOM	703	CA	ILE	A	265	82.252	104.440	-77.891	1.00	113.98	A	C
ATOM	704	CB	ILE	A	265	83.587	103.795	-77.474	1.00	113.98	A	C
ATOM	705	CG2	ILE	A	265	84.271	103.158	-78.675	1.00	113.98	A	C
ATOM	706	CG1	ILE	A	265	84.501	104.834	-76.822	1.00	113.98	A	C
ATOM	707	CD1	ILE	A	265	85.839	104.282	-76.382	1.00	113.98	A	C
ATOM	708	C	ILE	A	265	81.357	103.379	-78.523	1.00	113.98	A	C
ATOM	709	O	ILE	A	265	81.328	103.224	-79.744	1.00	113.98	A	O
ATOM	710	N	ASP	A	266	80.626	102.653	-77.684	1.00	68.21	A	N
ATOM	711	CA	ASP	A	266	79.717	101.617	-78.160	1.00	68.21	A	C
ATOM	712	CB	ASP	A	266	79.204	100.775	-76.990	1.00	68.21	A	C
ATOM	713	CG	ASP	A	266	80.325	100.098	-76.225	1.00	68.21	A	C
ATOM	714	OD1	ASP	A	266	81.361	99.778	-76.845	1.00	68.21	A	O
ATOM	715	OD2	ASP	A	266	80.169	99.884	-75.004	1.00	68.21	A	O
ATOM	716	C	ASP	A	266	78.545	102.226	-78.922	1.00	68.21	A	C
ATOM	717	O	ASP	A	266	77.959	101.586	-79.794	1.00	68.21	A	O
ATOM	718	N	VAL	A	267	78.208	103.467	-78.585	1.00	104.56	A	N
ATOM	719	CA	VAL	A	267	77.109	104.168	-79.239	1.00	104.56	A	C
ATOM	720	CB	VAL	A	267	76.612	105.355	-78.393	1.00	104.56	A	C

ATOM	721	CG1	VAL	A	267	75.514	106.108	-79.127	1.00104.56	A	C
ATOM	722	CG2	VAL	A	267	76.121	104.871	-77.038	1.00104.56	A	C
ATOM	723	C	VAL	A	267	77.521	104.677	-80.617	1.00104.56	A	C
ATOM	724	O	VAL	A	267	76.847	104.418	-81.612	1.00104.56	A	O
ATOM	725	N	VAL	A	268	78.636	105.400	-80.665	1.00100.82	A	N
ATOM	726	CA	VAL	A	268	79.135	105.966	-81.913	1.00100.82	A	C
ATOM	727	CB	VAL	A	268	80.368	106.860	-81.666	1.00100.82	A	C
ATOM	728	CG1	VAL	A	268	80.801	107.542	-82.955	1.00100.82	A	C
ATOM	729	CG2	VAL	A	268	80.066	107.892	-80.592	1.00100.82	A	C
ATOM	730	C	VAL	A	268	79.495	104.870	-82.914	1.00100.82	A	C
ATOM	731	O	VAL	A	268	79.607	105.121	-84.113	1.00100.82	A	O
ATOM	732	N	ALA	A	269	79.667	103.651	-82.413	1.00 69.40	A	N
ATOM	733	CA	ALA	A	269	80.043	102.523	-83.258	1.00 69.40	A	C
ATOM	734	CB	ALA	A	269	80.683	101.425	-82.420	1.00 69.40	A	C
ATOM	735	C	ALA	A	269	78.856	101.971	-84.044	1.00 69.40	A	C
ATOM	736	O	ALA	A	269	79.014	101.072	-84.869	1.00 69.40	A	O
ATOM	737	N	ILE	A	270	77.668	102.512	-83.786	1.00105.76	A	N
ATOM	738	CA	ILE	A	270	76.459	102.049	-84.461	1.00105.76	A	C
ATOM	739	CB	ILE	A	270	75.597	101.164	-83.538	1.00105.76	A	C
ATOM	740	CG2	ILE	A	270	76.381	99.944	-83.080	1.00105.76	A	C
ATOM	741	CG1	ILE	A	270	75.096	101.970	-82.338	1.00105.76	A	C
ATOM	742	CD1	ILE	A	270	74.254	101.166	-81.371	1.00105.76	A	C
ATOM	743	C	ILE	A	270	75.605	103.204	-84.979	1.00105.76	A	C
ATOM	744	O	ILE	A	270	74.647	102.990	-85.721	1.00105.76	A	O
ATOM	745	N	LEU	A	271	75.954	104.424	-84.586	1.00 71.73	A	N
ATOM	746	CA	LEU	A	271	75.204	105.606	-85.004	1.00 71.73	A	C
ATOM	747	CB	LEU	A	271	75.712	106.862	-84.287	1.00 71.73	A	C
ATOM	748	CG	LEU	A	271	75.475	106.934	-82.778	1.00 71.73	A	C
ATOM	749	CD1	LEU	A	271	76.083	108.203	-82.200	1.00 71.73	A	C
ATOM	750	CD2	LEU	A	271	73.988	106.857	-82.465	1.00 71.73	A	C
ATOM	751	C	LEU	A	271	75.210	105.817	-86.520	1.00 71.73	A	C
ATOM	752	O	LEU	A	271	74.151	105.974	-87.127	1.00 71.73	A	O
ATOM	753	N	PRO	A	272	76.404	105.823	-87.139	1.00 85.42	A	N
ATOM	754	CA	PRO	A	272	76.492	106.046	-88.587	1.00 85.42	A	C
ATOM	755	CD	PRO	A	272	77.735	105.666	-86.527	1.00 85.42	A	C
ATOM	756	CB	PRO	A	272	77.983	105.849	-88.877	1.00 85.42	A	C
ATOM	757	CG	PRO	A	272	78.659	106.169	-87.594	1.00 85.42	A	C
ATOM	758	C	PRO	A	272	75.668	105.041	-89.387	1.00 85.42	A	C
ATOM	759	O	PRO	A	272	75.293	105.324	-90.525	1.00 85.42	A	O
ATOM	760	N	TYR	A	273	75.393	103.883	-88.796	1.00 80.36	A	N
ATOM	761	CA	TYR	A	273	74.632	102.841	-89.475	1.00 80.36	A	C
ATOM	762	CB	TYR	A	273	74.774	101.507	-88.739	1.00 80.36	A	C
ATOM	763	CG	TYR	A	273	74.047	100.361	-89.405	1.00 80.36	A	C
ATOM	764	CD1	TYR	A	273	74.652	99.621	-90.413	1.00 80.36	A	C
ATOM	765	CD2	TYR	A	273	72.756	100.017	-89.026	1.00 80.36	A	C
ATOM	766	CE1	TYR	A	273	73.992	98.572	-91.025	1.00 80.36	A	C
ATOM	767	CE2	TYR	A	273	72.088	98.970	-89.632	1.00 80.36	A	C
ATOM	768	CZ	TYR	A	273	72.711	98.251	-90.631	1.00 80.36	A	C
ATOM	769	OH	TYR	A	273	72.050	97.208	-91.238	1.00 80.36	A	O
ATOM	770	C	TYR	A	273	73.158	103.216	-89.603	1.00 80.36	A	C
ATOM	771	O	TYR	A	273	72.606	103.235	-90.703	1.00 80.36	A	O
ATOM	772	N	TYR	A	274	72.527	103.512	-88.472	1.00 58.29	A	N
ATOM	773	CA	TYR	A	274	71.111	103.860	-88.454	1.00 58.29	A	C
ATOM	774	CB	TYR	A	274	70.575	103.855	-87.020	1.00 58.29	A	C
ATOM	775	CG	TYR	A	274	70.610	102.495	-86.362	1.00 58.29	A	C
ATOM	776	CD1	TYR	A	274	71.707	102.092	-85.613	1.00 58.29	A	C
ATOM	777	CD2	TYR	A	274	69.546	101.612	-86.493	1.00 58.29	A	C
ATOM	778	CE1	TYR	A	274	71.744	100.849	-85.011	1.00 58.29	A	C
ATOM	779	CE2	TYR	A	274	69.574	100.367	-85.894	1.00 58.29	A	C
ATOM	780	CZ	TYR	A	274	70.674	99.990	-85.155	1.00 58.29	A	C
ATOM	781	OH	TYR	A	274	70.705	98.751	-84.558	1.00 58.29	A	O
ATOM	782	C	TYR	A	274	70.852	105.214	-89.107	1.00 58.29	A	C
ATOM	783	O	TYR	A	274	69.905	105.370	-89.877	1.00 58.29	A	O
ATOM	784	N	ILE	A	275	71.700	106.189	-88.795	1.00 98.26	A	N
ATOM	785	CA	ILE	A	275	71.558	107.533	-89.345	1.00 98.26	A	C
ATOM	786	CB	ILE	A	275	72.614	108.495	-88.767	1.00 98.26	A	C
ATOM	787	CG2	ILE	A	275	72.485	109.872	-89.398	1.00 98.26	A	C
ATOM	788	CG1	ILE	A	275	72.474	108.589	-87.246	1.00 98.26	A	C

ATOM	789	CD1	ILE	A	275	73.488	109.505	-86.595	1.00	98.26	A	C
ATOM	790	C	ILE	A	275	71.662	107.527	-90.867	1.00	98.26	A	C
ATOM	791	O	ILE	A	275	70.903	108.211	-91.553	1.00	98.26	A	O
ATOM	792	N	GLY	A	276	72.604	106.748	-91.389	1.00	33.27	A	N
ATOM	793	CA	GLY	A	276	72.811	106.658	-92.822	1.00	33.27	A	C
ATOM	794	C	GLY	A	276	71.634	106.042	-93.552	1.00	33.27	A	C
ATOM	795	O	GLY	A	276	71.252	106.499	-94.628	1.00	33.27	A	O
ATOM	796	N	LEU	A	277	71.057	104.999	-92.963	1.00	135.89	A	N
ATOM	797	CA	LEU	A	277	69.929	104.302	-93.572	1.00	135.89	A	C
ATOM	798	CB	LEU	A	277	69.588	103.040	-92.778	1.00	135.89	A	C
ATOM	799	CG	LEU	A	277	68.414	102.209	-93.301	1.00	135.89	A	C
ATOM	800	CD1	LEU	A	277	68.645	101.803	-94.749	1.00	135.89	A	C
ATOM	801	CD2	LEU	A	277	68.191	100.985	-92.426	1.00	135.89	A	C
ATOM	802	C	LEU	A	277	68.703	105.203	-93.675	1.00	135.89	A	C
ATOM	803	O	LEU	A	277	67.973	105.161	-94.666	1.00	135.89	A	O
ATOM	804	N	VAL	A	278	68.481	106.016	-92.648	1.00	91.77	A	N
ATOM	805	CA	VAL	A	278	67.333	106.913	-92.616	1.00	91.77	A	C
ATOM	806	CB	VAL	A	278	67.085	107.461	-91.198	1.00	91.77	A	C
ATOM	807	CG1	VAL	A	278	65.917	108.435	-91.202	1.00	91.77	A	C
ATOM	808	CG2	VAL	A	278	66.833	106.321	-90.225	1.00	91.77	A	C
ATOM	809	C	VAL	A	278	67.511	108.082	-93.579	1.00	91.77	A	C
ATOM	810	O	VAL	A	278	66.583	108.453	-94.298	1.00	91.77	A	O
ATOM	811	N	MET	A	279	68.710	108.656	-93.590	1.00	131.98	A	N
ATOM	812	CA	MET	A	279	69.001	109.805	-94.441	1.00	131.98	A	C
ATOM	813	CB	MET	A	279	70.395	110.359	-94.139	1.00	131.98	A	C
ATOM	814	CG	MET	A	279	70.763	111.587	-94.956	1.00	131.98	A	C
ATOM	815	SD	MET	A	279	72.386	112.248	-94.533	1.00	131.98	A	S
ATOM	816	CE	MET	A	279	72.144	112.673	-92.810	1.00	131.98	A	C
ATOM	817	C	MET	A	279	68.882	109.457	-95.923	1.00	131.98	A	C
ATOM	818	O	MET	A	279	68.244	110.179	-96.688	1.00	131.98	A	O
ATOM	819	N	THR	A	280	69.499	108.349	-96.321	1.00	57.64	A	N
ATOM	820	CA	THR	A	280	69.469	107.915	-97.713	1.00	57.64	A	C
ATOM	821	CB	THR	A	280	70.408	106.718	-97.955	1.00	57.64	A	C
ATOM	822	OG1	THR	A	280	70.029	105.629	-97.104	1.00	57.64	A	O
ATOM	823	CG2	THR	A	280	71.850	107.104	-97.665	1.00	57.64	A	C
ATOM	824	C	THR	A	280	68.058	107.540	-98.154	1.00	57.64	A	C
ATOM	825	O	THR	A	280	67.752	107.530	-99.346	1.00	57.64	A	O
ATOM	826	N	ASP	A	281	67.202	107.230	-97.186	1.00	89.40	A	N
ATOM	827	CA	ASP	A	281	65.821	106.863	-97.474	1.00	89.40	A	C
ATOM	828	CB	ASP	A	281	65.225	106.070	-96.308	1.00	89.40	A	C
ATOM	829	CG	ASP	A	281	63.896	105.426	-96.655	1.00	89.40	A	C
ATOM	830	OD1	ASP	A	281	63.156	105.986	-97.491	1.00	89.40	A	O
ATOM	831	OD2	ASP	A	281	63.590	104.355	-96.090	1.00	89.40	A	O
ATOM	832	C	ASP	A	281	64.983	108.107	-97.747	1.00	89.40	A	C
ATOM	833	O	ASP	A	281	64.235	108.162	-98.723	1.00	89.40	A	O
ATOM	834	N	ASN	A	282	65.116	109.104	-96.879	1.00	77.30	A	N
ATOM	835	CA	ASN	A	282	64.365	110.346	-97.016	1.00	77.30	A	C
ATOM	836	CB	ASN	A	282	64.587	111.242	-95.796	1.00	77.30	A	C
ATOM	837	CG	ASN	A	282	64.129	110.593	-94.505	1.00	77.30	A	C
ATOM	838	OD1	ASN	A	282	63.198	109.788	-94.497	1.00	77.30	A	O
ATOM	839	ND2	ASN	A	282	64.784	110.941	-93.403	1.00	77.30	A	N
ATOM	840	C	ASN	A	282	64.717	111.104	-98.293	1.00	77.30	A	C
ATOM	841	O	ASN	A	282	63.860	111.330	-99.148	1.00	77.30	A	O
ATOM	842	N	GLU	A	283	65.982	111.493	-98.416	1.00	247.84	A	N
ATOM	843	CA	GLU	A	283	66.443	112.237	-99.582	1.00	247.84	A	C
ATOM	844	CB	GLU	A	283	66.559	113.728	-99.255	1.00	247.84	A	C
ATOM	845	CG	GLU	A	283	66.997	114.601	-100.422	1.00	247.84	A	C
ATOM	846	CD	GLU	A	283	65.951	114.697	-101.519	1.00	247.84	A	C
ATOM	847	OE1	GLU	A	283	65.379	113.655	-101.901	1.00	247.84	A	O
ATOM	848	OE2	GLU	A	283	65.699	115.822	-102.000	1.00	247.84	A	O
ATOM	849	C	GLU	A	283	67.778	111.702	-100.092	1.00	247.84	A	C
ATOM	850	O	GLU	A	283	68.628	111.277	-99.309	1.00	247.84	A	O
ATOM	851	N	ASP	A	284	67.955	111.728	-101.409	1.00	243.54	A	N
ATOM	852	CA	ASP	A	284	69.173	111.221	-102.032	1.00	243.54	A	C
ATOM	853	CB	ASP	A	284	68.839	110.430	-103.302	1.00	243.54	A	C
ATOM	854	CG	ASP	A	284	68.097	111.261	-104.334	1.00	243.54	A	C
ATOM	855	OD1	ASP	A	284	67.344	112.177	-103.940	1.00	243.54	A	O
ATOM	856	OD2	ASP	A	284	68.267	110.996	-105.542	1.00	243.54	A	O

ATOM	857	C	ASP	A	284	70.166	112.338	-102.346	1.00243.54	A	C
ATOM	858	O	ASP	A	284	70.378	112.687	-103.507	1.00243.54	A	O
ATOM	859	N	VAL	A	285	70.774	112.893	-101.302	1.00154.00	A	N
ATOM	860	CA	VAL	A	285	71.774	113.943	-101.467	1.00154.00	A	C
ATOM	861	CB	VAL	A	285	71.442	115.183	-100.616	1.00154.00	A	C
ATOM	862	CG1	VAL	A	285	70.187	115.865	-101.138	1.00154.00	A	C
ATOM	863	CG2	VAL	A	285	71.283	114.795	-99.153	1.00154.00	A	C
ATOM	864	C	VAL	A	285	73.164	113.438	-101.095	1.00154.00	A	C
ATOM	865	O	VAL	A	285	73.357	112.247	-100.852	1.00154.00	A	O
ATOM	866	N	SER	A	286	74.129	114.351	-101.054	1.00204.33	A	N
ATOM	867	CA	SER	A	286	75.503	113.998	-100.718	1.00204.33	A	C
ATOM	868	CB	SER	A	286	76.303	113.696	-101.987	1.00204.33	A	C
ATOM	869	OG	SER	A	286	75.722	112.629	-102.716	1.00204.33	A	O
ATOM	870	C	SER	A	286	76.182	115.107	-99.922	1.00204.33	A	C
ATOM	871	O	SER	A	286	76.000	116.290	-100.209	1.00204.33	A	O
ATOM	872	N	GLY	A	287	76.964	114.717	-98.921	1.00 74.32	A	N
ATOM	873	CA	GLY	A	287	77.680	115.673	-98.098	1.00 74.32	A	C
ATOM	874	C	GLY	A	287	77.455	115.463	-96.613	1.00 74.32	A	C
ATOM	875	O	GLY	A	287	78.381	115.591	-95.812	1.00 74.32	A	O
ATOM	876	N	ALA	A	288	76.220	115.140	-96.245	1.00 54.17	A	N
ATOM	877	CA	ALA	A	288	75.867	114.938	-94.844	1.00 54.17	A	C
ATOM	878	CB	ALA	A	288	74.378	115.167	-94.634	1.00 54.17	A	C
ATOM	879	C	ALA	A	288	76.270	113.549	-94.355	1.00 54.17	A	C
ATOM	880	O	ALA	A	288	77.015	113.416	-93.384	1.00 54.17	A	O
ATOM	881	N	PHE	A	289	75.775	112.519	-95.034	1.00205.64	A	N
ATOM	882	CA	PHE	A	289	76.067	111.139	-94.656	1.00205.64	A	C
ATOM	883	CB	PHE	A	289	75.099	110.168	-95.342	1.00205.64	A	C
ATOM	884	CG	PHE	A	289	75.261	110.095	-96.837	1.00205.64	A	C
ATOM	885	CD1	PHE	A	289	75.776	111.163	-97.553	1.00205.64	A	C
ATOM	886	CD2	PHE	A	289	74.892	108.951	-97.527	1.00205.64	A	C
ATOM	887	CE1	PHE	A	289	75.922	111.092	-98.925	1.00205.64	A	C
ATOM	888	CE2	PHE	A	289	75.035	108.875	-98.899	1.00205.64	A	C
ATOM	889	CZ	PHE	A	289	75.551	109.946	-99.599	1.00205.64	A	C
ATOM	890	C	PHE	A	289	77.512	110.753	-94.962	1.00205.64	A	C
ATOM	891	O	PHE	A	289	77.955	109.656	-94.624	1.00205.64	A	O
ATOM	892	N	VAL	A	290	78.240	111.661	-95.604	1.00 43.82	A	N
ATOM	893	CA	VAL	A	290	79.640	111.426	-95.932	1.00 43.82	A	C
ATOM	894	CB	VAL	A	290	80.148	112.429	-96.986	1.00 43.82	A	C
ATOM	895	CG1	VAL	A	290	81.623	112.197	-97.275	1.00 43.82	A	C
ATOM	896	CG2	VAL	A	290	79.326	112.318	-98.262	1.00 43.82	A	C
ATOM	897	C	VAL	A	290	80.510	111.523	-94.682	1.00 43.82	A	C
ATOM	898	O	VAL	A	290	81.477	110.777	-94.526	1.00 43.82	A	O
ATOM	899	N	THR	A	291	80.155	112.445	-93.793	1.00 50.43	A	N
ATOM	900	CA	THR	A	291	80.896	112.640	-92.553	1.00 50.43	A	C
ATOM	901	CB	THR	A	291	80.452	113.925	-91.826	1.00 50.43	A	C
ATOM	902	OG1	THR	A	291	80.612	115.051	-92.699	1.00 50.43	A	O
ATOM	903	CG2	THR	A	291	81.281	114.142	-90.569	1.00 50.43	A	C
ATOM	904	C	THR	A	291	80.725	111.448	-91.616	1.00 50.43	A	C
ATOM	905	O	THR	A	291	81.669	111.038	-90.940	1.00 50.43	A	O
ATOM	906	N	LEU	A	292	79.516	110.894	-91.582	1.00 89.67	A	N
ATOM	907	CA	LEU	A	292	79.222	109.743	-90.735	1.00 89.67	A	C
ATOM	908	CB	LEU	A	292	77.731	109.396	-90.787	1.00 89.67	A	C
ATOM	909	CG	LEU	A	292	76.754	110.324	-90.058	1.00 89.67	A	C
ATOM	910	CD1	LEU	A	292	77.101	110.412	-88.579	1.00 89.67	A	C
ATOM	911	CD2	LEU	A	292	76.724	111.709	-90.689	1.00 89.67	A	C
ATOM	912	C	LEU	A	292	80.054	108.531	-91.138	1.00 89.67	A	C
ATOM	913	O	LEU	A	292	80.336	107.657	-90.317	1.00 89.67	A	O
ATOM	914	N	ARG	A	293	80.443	108.483	-92.408	1.00153.52	A	N
ATOM	915	CA	ARG	A	293	81.265	107.394	-92.918	1.00153.52	A	C
ATOM	916	CB	ARG	A	293	81.465	107.543	-94.429	1.00153.52	A	C
ATOM	917	CG	ARG	A	293	81.894	106.269	-95.148	1.00153.52	A	C
ATOM	918	CD	ARG	A	293	83.334	105.896	-94.838	1.00153.52	A	C
ATOM	919	NE	ARG	A	293	83.755	104.695	-95.553	1.00153.52	A	N
ATOM	920	CZ	ARG	A	293	84.948	104.126	-95.418	1.00153.52	A	C
ATOM	921	NH1	ARG	A	293	85.842	104.647	-94.590	1.00153.52	A	N
ATOM	922	NH2	ARG	A	293	85.247	103.034	-96.109	1.00153.52	A	N
ATOM	923	C	ARG	A	293	82.610	107.381	-92.198	1.00153.52	A	C
ATOM	924	O	ARG	A	293	83.116	106.324	-91.823	1.00153.52	A	O

ATOM	925	N	VAL	A	294	83.180	108.566	-92.005	1.00148.57	A	N
ATOM	926	CA	VAL	A	294	84.456	108.702	-91.314	1.00148.57	A	C
ATOM	927	CB	VAL	A	294	84.968	110.155	-91.361	1.00148.57	A	C
ATOM	928	CG1	VAL	A	294	86.310	110.270	-90.655	1.00148.57	A	C
ATOM	929	CG2	VAL	A	294	85.076	110.631	-92.801	1.00148.57	A	C
ATOM	930	C	VAL	A	294	84.338	108.257	-89.859	1.00148.57	A	C
ATOM	931	O	VAL	A	294	85.288	107.727	-89.281	1.00148.57	A	O
ATOM	932	N	PHE	A	295	83.165	108.472	-89.273	1.00171.25	A	N
ATOM	933	CA	PHE	A	295	82.919	108.098	-87.885	1.00171.25	A	C
ATOM	934	CB	PHE	A	295	81.616	108.723	-87.381	1.00171.25	A	C
ATOM	935	CG	PHE	A	295	81.643	110.223	-87.331	1.00171.25	A	C
ATOM	936	CD1	PHE	A	295	82.847	110.908	-87.299	1.00171.25	A	C
ATOM	937	CD2	PHE	A	295	80.465	110.950	-87.315	1.00171.25	A	C
ATOM	938	CE1	PHE	A	295	82.875	112.288	-87.253	1.00171.25	A	C
ATOM	939	CE2	PHE	A	295	80.486	112.331	-87.269	1.00171.25	A	C
ATOM	940	CZ	PHE	A	295	81.692	113.001	-87.237	1.00171.25	A	C
ATOM	941	C	PHE	A	295	82.876	106.583	-87.710	1.00171.25	A	C
ATOM	942	O	PHE	A	295	82.927	106.077	-86.590	1.00171.25	A	O
ATOM	943	N	ARG	A	296	82.780	105.864	-88.824	1.00159.61	A	N
ATOM	944	CA	ARG	A	296	82.746	104.407	-88.793	1.00159.61	A	C
ATOM	945	CB	ARG	A	296	82.226	103.853	-90.121	1.00159.61	A	C
ATOM	946	CG	ARG	A	296	80.816	104.301	-90.471	1.00159.61	A	C
ATOM	947	CD	ARG	A	296	80.370	103.743	-91.813	1.00159.61	A	C
ATOM	948	NE	ARG	A	296	80.341	102.283	-91.823	1.00159.61	A	N
ATOM	949	CZ	ARG	A	296	81.330	101.518	-92.274	1.00159.61	A	C
ATOM	950	NH1	ARG	A	296	82.433	102.073	-92.758	1.00159.61	A	N
ATOM	951	NH2	ARG	A	296	81.217	100.197	-92.244	1.00159.61	A	N
ATOM	952	C	ARG	A	296	84.126	103.833	-88.488	1.00159.61	A	C
ATOM	953	O	ARG	A	296	84.280	102.627	-88.299	1.00159.61	A	O
ATOM	954	N	VAL	A	297	85.127	104.706	-88.444	1.00167.62	A	N
ATOM	955	CA	VAL	A	297	86.493	104.293	-88.144	1.00167.62	A	C
ATOM	956	CB	VAL	A	297	87.520	105.237	-88.801	1.00167.62	A	C
ATOM	957	CG1	VAL	A	297	88.938	104.740	-88.556	1.00167.62	A	C
ATOM	958	CG2	VAL	A	297	87.248	105.360	-90.291	1.00167.62	A	C
ATOM	959	C	VAL	A	297	86.721	104.261	-86.636	1.00167.62	A	C
ATOM	960	O	VAL	A	297	87.650	103.616	-86.150	1.00167.62	A	O
ATOM	961	N	PHE	A	298	85.858	104.954	-85.900	1.00121.45	A	N
ATOM	962	CA	PHE	A	298	85.974	105.030	-84.448	1.00121.45	A	C
ATOM	963	CB	PHE	A	298	85.110	106.167	-83.898	1.00121.45	A	C
ATOM	964	CG	PHE	A	298	85.544	107.532	-84.351	1.00121.45	A	C
ATOM	965	CD1	PHE	A	298	86.830	107.744	-84.821	1.00121.45	A	C
ATOM	966	CD2	PHE	A	298	84.668	108.603	-84.305	1.00121.45	A	C
ATOM	967	CE1	PHE	A	298	87.233	108.999	-85.237	1.00121.45	A	C
ATOM	968	CE2	PHE	A	298	85.065	109.860	-84.720	1.00121.45	A	C
ATOM	969	CZ	PHE	A	298	86.349	110.058	-85.187	1.00121.45	A	C
ATOM	970	C	PHE	A	298	85.603	103.713	-83.771	1.00121.45	A	C
ATOM	971	O	PHE	A	298	85.603	103.616	-82.544	1.00121.45	A	O
ATOM	972	N	ARG	A	299	85.289	102.702	-84.575	1.00168.10	A	N
ATOM	973	CA	ARG	A	299	84.948	101.386	-84.046	1.00168.10	A	C
ATOM	974	CB	ARG	A	299	84.261	100.537	-85.116	1.00168.10	A	C
ATOM	975	CG	ARG	A	299	85.115	100.272	-86.344	1.00168.10	A	C
ATOM	976	CD	ARG	A	299	84.360	99.447	-87.374	1.00168.10	A	C
ATOM	977	NE	ARG	A	299	83.126	100.103	-87.797	1.00168.10	A	N
ATOM	978	CZ	ARG	A	299	82.300	99.619	-88.719	1.00168.10	A	C
ATOM	979	NH1	ARG	A	299	82.574	98.469	-89.320	1.00168.10	A	N
ATOM	980	NH2	ARG	A	299	81.199	100.285	-89.040	1.00168.10	A	N
ATOM	981	C	ARG	A	299	86.193	100.674	-83.527	1.00168.10	A	C
ATOM	982	O	ARG	A	299	86.099	99.627	-82.886	1.00168.10	A	O
ATOM	983	N	ILE	A	300	87.356	101.251	-83.809	1.00203.46	A	N
ATOM	984	CA	ILE	A	300	88.623	100.691	-83.355	1.00203.46	A	C
ATOM	985	CB	ILE	A	300	89.800	101.212	-84.200	1.00203.46	A	C
ATOM	986	CG2	ILE	A	300	91.095	100.519	-83.801	1.00203.46	A	C
ATOM	987	CG1	ILE	A	300	89.515	101.009	-85.690	1.00203.46	A	C
ATOM	988	CD1	ILE	A	300	90.603	101.534	-86.597	1.00203.46	A	C
ATOM	989	C	ILE	A	300	88.865	101.031	-81.888	1.00203.46	A	C
ATOM	990	O	ILE	A	300	89.607	100.339	-81.192	1.00203.46	A	O
ATOM	991	N	PHE	A	301	88.227	102.101	-81.423	1.00106.14	A	N
ATOM	992	CA	PHE	A	301	88.351	102.523	-80.033	1.00106.14	A	C

ATOM	993	CB	PHE	A	301	87.844	103.956	-79.859	1.00106.14	A	C
ATOM	994	CG	PHE	A	301	88.665	104.983	-80.584	1.00106.14	A	C
ATOM	995	CD1	PHE	A	301	89.985	104.726	-80.914	1.00106.14	A	C
ATOM	996	CD2	PHE	A	301	88.118	106.206	-80.935	1.00106.14	A	C
ATOM	997	CE1	PHE	A	301	90.744	105.668	-81.580	1.00106.14	A	C
ATOM	998	CE2	PHE	A	301	88.872	107.153	-81.602	1.00106.14	A	C
ATOM	999	CZ	PHE	A	301	90.187	106.884	-81.925	1.00106.14	A	C
ATOM	1000	C	PHE	A	301	87.594	101.584	-79.100	1.00106.14	A	C
ATOM	1001	O	PHE	A	301	87.511	101.826	-77.896	1.00106.14	A	O
ATOM	1002	N	LYS	A	302	87.042	100.514	-79.662	1.00168.00	A	N
ATOM	1003	CA	LYS	A	302	86.283	99.545	-78.881	1.00168.00	A	C
ATOM	1004	CB	LYS	A	302	85.291	98.797	-79.775	1.00168.00	A	C
ATOM	1005	CG	LYS	A	302	84.276	97.958	-79.015	1.00168.00	A	C
ATOM	1006	CD	LYS	A	302	83.270	97.318	-79.959	1.00168.00	A	C
ATOM	1007	CE	LYS	A	302	82.509	98.367	-80.753	1.00168.00	A	C
ATOM	1008	NZ	LYS	A	302	81.734	99.280	-79.870	1.00168.00	A	N
ATOM	1009	C	LYS	A	302	87.215	98.563	-78.176	1.00168.00	A	C
ATOM	1010	O	LYS	A	302	86.805	97.850	-77.261	1.00168.00	A	O
ATOM	1011	N	PHE	A	303	88.473	98.535	-78.607	1.00 83.96	A	N
ATOM	1012	CA	PHE	A	303	89.474	97.675	-77.985	1.00 83.96	A	C
ATOM	1013	CB	PHE	A	303	90.721	97.567	-78.867	1.00 83.96	A	C
ATOM	1014	CG	PHE	A	303	90.507	96.784	-80.130	1.00 83.96	A	C
ATOM	1015	CD1	PHE	A	303	90.525	95.399	-80.113	1.00 83.96	A	C
ATOM	1016	CD2	PHE	A	303	90.299	97.431	-81.336	1.00 83.96	A	C
ATOM	1017	CE1	PHE	A	303	90.333	94.675	-81.273	1.00 83.96	A	C
ATOM	1018	CE2	PHE	A	303	90.107	96.712	-82.501	1.00 83.96	A	C
ATOM	1019	CZ	PHE	A	303	90.124	95.332	-82.469	1.00 83.96	A	C
ATOM	1020	C	PHE	A	303	89.860	98.192	-76.604	1.00 83.96	A	C
ATOM	1021	O	PHE	A	303	90.533	97.501	-75.839	1.00 83.96	A	O
ATOM	1022	N	SER	A	304	89.432	99.411	-76.290	1.00 64.30	A	N
ATOM	1023	CA	SER	A	304	89.732	100.022	-75.001	1.00 64.30	A	C
ATOM	1024	CB	SER	A	304	89.269	101.480	-74.977	1.00 64.30	A	C
ATOM	1025	OG	SER	A	304	87.869	101.574	-75.167	1.00 64.30	A	O
ATOM	1026	C	SER	A	304	89.082	99.248	-73.860	1.00 64.30	A	C
ATOM	1027	O	SER	A	304	89.562	99.273	-72.726	1.00 64.30	A	O
ATOM	1028	N	ARG	A	305	87.988	98.560	-74.167	1.00148.97	A	N
ATOM	1029	CA	ARG	A	305	87.278	97.766	-73.173	1.00148.97	A	C
ATOM	1030	CB	ARG	A	305	85.815	97.582	-73.584	1.00148.97	A	C
ATOM	1031	CG	ARG	A	305	84.938	96.955	-72.513	1.00148.97	A	C
ATOM	1032	CD	ARG	A	305	83.494	96.853	-72.976	1.00148.97	A	C
ATOM	1033	NE	ARG	A	305	82.623	96.316	-71.935	1.00148.97	A	N
ATOM	1034	CZ	ARG	A	305	81.988	97.061	-71.036	1.00148.97	A	C
ATOM	1035	NH1	ARG	A	305	82.126	98.380	-71.048	1.00148.97	A	N
ATOM	1036	NH2	ARG	A	305	81.214	96.488	-70.125	1.00148.97	A	N
ATOM	1037	C	ARG	A	305	87.952	96.410	-72.990	1.00148.97	A	C
ATOM	1038	O	ARG	A	305	87.658	95.680	-72.043	1.00148.97	A	O
ATOM	1039	N	HIS	A	306	88.862	96.083	-73.901	1.00 99.22	A	N
ATOM	1040	CA	HIS	A	306	89.583	94.817	-73.845	1.00 99.22	A	C
ATOM	1041	ND1	HIS	A	306	87.387	94.860	-76.116	1.00 99.22	A	N
ATOM	1042	CG	HIS	A	306	88.310	93.878	-75.826	1.00 99.22	A	C
ATOM	1043	CB	HIS	A	306	89.651	94.179	-75.234	1.00 99.22	A	C
ATOM	1044	NE2	HIS	A	306	86.486	92.998	-76.674	1.00 99.22	A	N
ATOM	1045	CD2	HIS	A	306	87.734	92.705	-76.180	1.00 99.22	A	C
ATOM	1046	CE1	HIS	A	306	86.302	94.305	-76.624	1.00 99.22	A	C
ATOM	1047	C	HIS	A	306	90.990	95.009	-73.289	1.00 99.22	A	C
ATOM	1048	O	HIS	A	306	91.358	94.403	-72.283	1.00 99.22	A	O
ATOM	1049	N	SER	A	307	91.773	95.854	-73.951	1.00102.77	A	N
ATOM	1050	CA	SER	A	307	93.139	96.129	-73.524	1.00102.77	A	C
ATOM	1051	CB	SER	A	307	94.020	96.464	-74.728	1.00102.77	A	C
ATOM	1052	OG	SER	A	307	94.051	95.389	-75.652	1.00102.77	A	O
ATOM	1053	C	SER	A	307	93.180	97.268	-72.509	1.00102.77	A	C
ATOM	1054	O	SER	A	307	92.289	98.116	-72.477	1.00102.77	A	O
ATOM	1055	N	GLN	A	308	94.221	97.280	-71.684	1.00121.93	A	N
ATOM	1056	CA	GLN	A	308	94.373	98.301	-70.654	1.00121.93	A	C
ATOM	1057	CB	GLN	A	308	94.944	97.686	-69.375	1.00121.93	A	C
ATOM	1058	CG	GLN	A	308	94.130	96.524	-68.828	1.00121.93	A	C
ATOM	1059	CD	GLN	A	308	92.730	96.934	-68.415	1.00121.93	A	C
ATOM	1060	OE1	GLN	A	308	92.546	97.904	-67.680	1.00121.93	A	O

ATOM	1061	NE2	GLN	A	308	91.732	96.200	-68.893	1.00121.93	A	N
ATOM	1062	C	GLN	A	308	95.272	99.436	-71.133	1.00121.93	A	C
ATOM	1063	O	GLN	A	308	95.516	100.398	-70.404	1.00121.93	A	O
ATOM	1064	N	GLY	A	309	95.762	99.317	-72.363	1.00 30.52	A	N
ATOM	1065	CA	GLY	A	309	96.630	100.327	-72.940	1.00 30.52	A	C
ATOM	1066	C	GLY	A	309	95.886	101.594	-73.311	1.00 30.52	A	C
ATOM	1067	O	GLY	A	309	96.367	102.701	-73.067	1.00 30.52	A	O
ATOM	1068	N	LEU	A	310	94.709	101.432	-73.906	1.00101.35	A	N
ATOM	1069	CA	LEU	A	310	93.892	102.571	-74.310	1.00101.35	A	C
ATOM	1070	CB	LEU	A	310	92.816	102.136	-75.306	1.00101.35	A	C
ATOM	1071	CG	LEU	A	310	93.315	101.546	-76.626	1.00101.35	A	C
ATOM	1072	CD1	LEU	A	310	92.146	101.105	-77.492	1.00101.35	A	C
ATOM	1073	CD2	LEU	A	310	94.187	102.549	-77.366	1.00101.35	A	C
ATOM	1074	C	LEU	A	310	93.248	103.245	-73.104	1.00101.35	A	C
ATOM	1075	O	LEU	A	310	92.897	104.424	-73.155	1.00101.35	A	O
ATOM	1076	N	ARG	A	311	93.093	102.490	-72.022	1.00108.34	A	N
ATOM	1077	CA	ARG	A	311	92.520	103.028	-70.794	1.00108.34	A	C
ATOM	1078	CB	ARG	A	311	92.190	101.901	-69.814	1.00108.34	A	C
ATOM	1079	CG	ARG	A	311	91.100	100.957	-70.294	1.00108.34	A	C
ATOM	1080	CD	ARG	A	311	90.789	99.903	-69.245	1.00108.34	A	C
ATOM	1081	NE	ARG	A	311	90.407	100.502	-67.969	1.00108.34	A	N
ATOM	1082	CZ	ARG	A	311	89.154	100.768	-67.613	1.00108.34	A	C
ATOM	1083	NH1	ARG	A	311	88.155	100.485	-68.437	1.00108.34	A	N
ATOM	1084	NH2	ARG	A	311	88.900	101.314	-66.432	1.00108.34	A	N
ATOM	1085	C	ARG	A	311	93.469	104.029	-70.144	1.00108.34	A	C
ATOM	1086	O	ARG	A	311	93.055	105.112	-69.731	1.00108.34	A	O
ATOM	1087	N	ILE	A	312	94.743	103.659	-70.056	1.00 41.79	A	N
ATOM	1088	CA	ILE	A	312	95.752	104.529	-69.466	1.00 41.79	A	C
ATOM	1089	CB	ILE	A	312	97.081	103.784	-69.240	1.00 41.79	A	C
ATOM	1090	CG2	ILE	A	312	98.112	104.711	-68.615	1.00 41.79	A	C
ATOM	1091	CG1	ILE	A	312	96.860	102.553	-68.360	1.00 41.79	A	C
ATOM	1092	CD1	ILE	A	312	98.118	101.756	-68.097	1.00 41.79	A	C
ATOM	1093	C	ILE	A	312	96.004	105.746	-70.350	1.00 41.79	A	C
ATOM	1094	O	ILE	A	312	96.076	106.874	-69.863	1.00 41.79	A	O
ATOM	1095	N	LEU	A	313	96.137	105.508	-71.651	1.00 49.07	A	N
ATOM	1096	CA	LEU	A	313	96.363	106.583	-72.609	1.00 49.07	A	C
ATOM	1097	CB	LEU	A	313	96.614	106.009	-74.005	1.00 49.07	A	C
ATOM	1098	CG	LEU	A	313	96.877	107.022	-75.121	1.00 49.07	A	C
ATOM	1099	CD1	LEU	A	313	98.070	107.900	-74.779	1.00 49.07	A	C
ATOM	1100	CD2	LEU	A	313	97.091	106.316	-76.451	1.00 49.07	A	C
ATOM	1101	C	LEU	A	313	95.181	107.545	-72.642	1.00 49.07	A	C
ATOM	1102	O	LEU	A	313	95.353	108.749	-72.828	1.00 49.07	A	O
ATOM	1103	N	GLY	A	314	93.980	107.005	-72.461	1.00 27.86	A	N
ATOM	1104	CA	GLY	A	314	92.772	107.810	-72.460	1.00 27.86	A	C
ATOM	1105	C	GLY	A	314	92.700	108.738	-71.263	1.00 27.86	A	C
ATOM	1106	O	GLY	A	314	92.329	109.905	-71.391	1.00 27.86	A	O
ATOM	1107	N	TYR	A	315	93.059	108.217	-70.094	1.00 99.30	A	N
ATOM	1108	CA	TYR	A	315	93.045	109.004	-68.867	1.00 99.30	A	C
ATOM	1109	CB	TYR	A	315	93.145	108.092	-67.643	1.00 99.30	A	C
ATOM	1110	CG	TYR	A	315	91.990	107.128	-67.504	1.00 99.30	A	C
ATOM	1111	CD1	TYR	A	315	92.118	105.961	-66.762	1.00 99.30	A	C
ATOM	1112	CD2	TYR	A	315	90.769	107.385	-68.114	1.00 99.30	A	C
ATOM	1113	CE1	TYR	A	315	91.064	105.077	-66.632	1.00 99.30	A	C
ATOM	1114	CE2	TYR	A	315	89.710	106.507	-67.990	1.00 99.30	A	C
ATOM	1115	CZ	TYR	A	315	89.863	105.355	-67.248	1.00 99.30	A	C
ATOM	1116	OH	TYR	A	315	88.810	104.478	-67.123	1.00 99.30	A	O
ATOM	1117	C	TYR	A	315	94.178	110.024	-68.856	1.00 99.30	A	C
ATOM	1118	O	TYR	A	315	94.071	111.078	-68.229	1.00 99.30	A	O
ATOM	1119	N	THR	A	316	95.263	109.703	-69.553	1.00115.27	A	N
ATOM	1120	CA	THR	A	316	96.409	110.600	-69.638	1.00115.27	A	C
ATOM	1121	CB	THR	A	316	97.638	109.894	-70.242	1.00115.27	A	C
ATOM	1122	OG1	THR	A	316	98.015	108.790	-69.410	1.00115.27	A	O
ATOM	1123	CG2	THR	A	316	98.807	110.860	-70.353	1.00115.27	A	C
ATOM	1124	C	THR	A	316	96.078	111.832	-70.472	1.00115.27	A	C
ATOM	1125	O	THR	A	316	96.351	112.960	-70.065	1.00115.27	A	O
ATOM	1126	N	LEU	A	317	95.486	111.608	-71.641	1.00 53.09	A	N
ATOM	1127	CA	LEU	A	317	95.103	112.701	-72.527	1.00 53.09	A	C
ATOM	1128	CB	LEU	A	317	94.708	112.163	-73.905	1.00 53.09	A	C

ATOM	1129	CG	LEU	A	317	95.793	111.411	-74.679	1.00	53.09	A	C
ATOM	1130	CD1	LEU	A	317	95.246	110.878	-75.994	1.00	53.09	A	C
ATOM	1131	CD2	LEU	A	317	97.000	112.305	-74.920	1.00	53.09	A	C
ATOM	1132	C	LEU	A	317	93.959	113.514	-71.931	1.00	53.09	A	C
ATOM	1133	O	LEU	A	317	93.804	114.698	-72.229	1.00	53.09	A	O
ATOM	1134	N	LYS	A	318	93.158	112.870	-71.087	1.00	75.11	A	N
ATOM	1135	CA	LYS	A	318	92.044	113.539	-70.427	1.00	75.11	A	C
ATOM	1136	CB	LYS	A	318	91.079	112.514	-69.830	1.00	75.11	A	C
ATOM	1137	CG	LYS	A	318	89.884	113.130	-69.121	1.00	75.11	A	C
ATOM	1138	CD	LYS	A	318	88.977	112.060	-68.537	1.00	75.11	A	C
ATOM	1139	CE	LYS	A	318	88.443	111.139	-69.621	1.00	75.11	A	C
ATOM	1140	NZ	LYS	A	318	87.558	110.081	-69.060	1.00	75.11	A	N
ATOM	1141	C	LYS	A	318	92.544	114.483	-69.340	1.00	75.11	A	C
ATOM	1142	O	LYS	A	318	92.131	115.641	-69.271	1.00	75.11	A	O
ATOM	1143	N	SER	A	319	93.435	113.981	-68.491	1.00	82.79	A	N
ATOM	1144	CA	SER	A	319	94.011	114.785	-67.420	1.00	82.79	A	C
ATOM	1145	CB	SER	A	319	94.784	113.900	-66.441	1.00	82.79	A	C
ATOM	1146	OG	SER	A	319	95.370	114.673	-65.408	1.00	82.79	A	O
ATOM	1147	C	SER	A	319	94.928	115.866	-67.983	1.00	82.79	A	C
ATOM	1148	O	SER	A	319	95.133	116.907	-67.359	1.00	82.79	A	O
ATOM	1149	N	CYS	A	320	95.476	115.610	-69.166	1.00	91.34	A	N
ATOM	1150	CA	CYS	A	320	96.364	116.562	-69.823	1.00	91.34	A	C
ATOM	1151	CB	CYS	A	320	97.605	115.852	-70.367	1.00	91.34	A	C
ATOM	1152	SG	CYS	A	320	98.604	115.023	-69.109	1.00	91.34	A	S
ATOM	1153	C	CYS	A	320	95.644	117.293	-70.950	1.00	91.34	A	C
ATOM	1154	O	CYS	A	320	96.257	117.673	-71.948	1.00	91.34	A	O
ATOM	1155	N	ALA	A	321	94.339	117.484	-70.785	1.00	55.04	A	N
ATOM	1156	CA	ALA	A	321	93.536	118.188	-71.777	1.00	55.04	A	C
ATOM	1157	CB	ALA	A	321	92.068	118.171	-71.381	1.00	55.04	A	C
ATOM	1158	C	ALA	A	321	94.025	119.621	-71.950	1.00	55.04	A	C
ATOM	1159	O	ALA	A	321	93.953	120.186	-73.042	1.00	55.04	A	O
ATOM	1160	N	SER	A	322	94.524	120.203	-70.865	1.00	39.37	A	N
ATOM	1161	CA	SER	A	322	95.061	121.558	-70.899	1.00	39.37	A	C
ATOM	1162	CB	SER	A	322	94.955	122.211	-69.519	1.00	39.37	A	C
ATOM	1163	OG	SER	A	322	93.607	122.282	-69.090	1.00	39.37	A	O
ATOM	1164	C	SER	A	322	96.511	121.553	-71.368	1.00	39.37	A	C
ATOM	1165	O	SER	A	322	96.933	122.430	-72.121	1.00	39.37	A	O
ATOM	1166	N	GLU	A	323	97.270	120.558	-70.917	1.00	101.99	A	N
ATOM	1167	CA	GLU	A	323	98.670	120.426	-71.302	1.00	101.99	A	C
ATOM	1168	CB	GLU	A	323	99.306	119.221	-70.607	1.00	101.99	A	C
ATOM	1169	CG	GLU	A	323	99.254	119.276	-69.088	1.00	101.99	A	C
ATOM	1170	CD	GLU	A	323	100.088	120.405	-68.513	1.00	101.99	A	C
ATOM	1171	OE1	GLU	A	323	100.859	121.028	-69.273	1.00	101.99	A	O
ATOM	1172	OE2	GLU	A	323	99.973	120.668	-67.298	1.00	101.99	A	O
ATOM	1173	C	GLU	A	323	98.806	120.288	-72.814	1.00	101.99	A	C
ATOM	1174	O	GLU	A	323	99.672	120.910	-73.429	1.00	101.99	A	O
ATOM	1175	N	LEU	A	324	97.945	119.466	-73.406	1.00	51.45	A	N
ATOM	1176	CA	LEU	A	324	97.946	119.264	-74.849	1.00	51.45	A	C
ATOM	1177	CB	LEU	A	324	97.036	118.093	-75.225	1.00	51.45	A	C
ATOM	1178	CG	LEU	A	324	96.972	117.724	-76.709	1.00	51.45	A	C
ATOM	1179	CD1	LEU	A	324	98.354	117.369	-77.234	1.00	51.45	A	C
ATOM	1180	CD2	LEU	A	324	95.998	116.578	-76.936	1.00	51.45	A	C
ATOM	1181	C	LEU	A	324	97.496	120.531	-75.567	1.00	51.45	A	C
ATOM	1182	O	LEU	A	324	97.869	120.773	-76.715	1.00	51.45	A	O
ATOM	1183	N	GLY	A	325	96.692	121.338	-74.882	1.00	21.45	A	N
ATOM	1184	CA	GLY	A	325	96.198	122.582	-75.442	1.00	21.45	A	C
ATOM	1185	C	GLY	A	325	97.312	123.567	-75.737	1.00	21.45	A	C
ATOM	1186	O	GLY	A	325	97.347	124.175	-76.807	1.00	21.45	A	O
ATOM	1187	N	PHE	A	326	98.225	123.725	-74.784	1.00	93.89	A	N
ATOM	1188	CA	PHE	A	326	99.354	124.634	-74.948	1.00	93.89	A	C
ATOM	1189	CB	PHE	A	326	100.044	124.888	-73.605	1.00	93.89	A	C
ATOM	1190	CG	PHE	A	326	99.210	125.673	-72.632	1.00	93.89	A	C
ATOM	1191	CD1	PHE	A	326	98.398	125.028	-71.715	1.00	93.89	A	C
ATOM	1192	CD2	PHE	A	326	99.241	127.058	-72.635	1.00	93.89	A	C
ATOM	1193	CE1	PHE	A	326	97.631	125.749	-70.819	1.00	93.89	A	C
ATOM	1194	CE2	PHE	A	326	98.476	127.784	-71.741	1.00	93.89	A	C
ATOM	1195	CZ	PHE	A	326	97.670	127.129	-70.833	1.00	93.89	A	C
ATOM	1196	C	PHE	A	326	100.358	124.095	-75.962	1.00	93.89	A	C

ATOM	1197	O	PHE	A	326	101.145	124.852	-76.530	1.00	93.89	A	O
ATOM	1198	N	LEU	A	327	100.328	122.785	-76.182	1.00	47.15	A	N
ATOM	1199	CA	LEU	A	327	101.221	122.151	-77.146	1.00	47.15	A	C
ATOM	1200	CB	LEU	A	327	101.143	120.628	-77.033	1.00	47.15	A	C
ATOM	1201	CG	LEU	A	327	101.964	119.828	-78.048	1.00	47.15	A	C
ATOM	1202	CD1	LEU	A	327	103.424	120.252	-78.023	1.00	47.15	A	C
ATOM	1203	CD2	LEU	A	327	101.830	118.336	-77.789	1.00	47.15	A	C
ATOM	1204	C	LEU	A	327	100.888	122.591	-78.567	1.00	47.15	A	C
ATOM	1205	O	LEU	A	327	101.778	122.928	-79.347	1.00	47.15	A	O
ATOM	1206	N	LEU	A	328	99.601	122.585	-78.897	1.00	87.13	A	N
ATOM	1207	CA	LEU	A	328	99.147	123.022	-80.211	1.00	87.13	A	C
ATOM	1208	CB	LEU	A	328	97.778	122.421	-80.542	1.00	87.13	A	C
ATOM	1209	CG	LEU	A	328	97.718	120.940	-80.931	1.00	87.13	A	C
ATOM	1210	CD1	LEU	A	328	98.235	120.045	-79.815	1.00	87.13	A	C
ATOM	1211	CD2	LEU	A	328	96.298	120.551	-81.313	1.00	87.13	A	C
ATOM	1212	C	LEU	A	328	99.084	124.543	-80.279	1.00	87.13	A	C
ATOM	1213	O	LEU	A	328	99.178	125.131	-81.357	1.00	87.13	A	O
ATOM	1214	N	PHE	A	329	98.927	125.175	-79.121	1.00	48.49	A	N
ATOM	1215	CA	PHE	A	329	98.873	126.629	-79.045	1.00	48.49	A	C
ATOM	1216	CB	PHE	A	329	98.416	127.080	-77.657	1.00	48.49	A	C
ATOM	1217	CG	PHE	A	329	98.354	128.571	-77.495	1.00	48.49	A	C
ATOM	1218	CD1	PHE	A	329	97.215	129.275	-77.853	1.00	48.49	A	C
ATOM	1219	CD2	PHE	A	329	99.434	129.270	-76.985	1.00	48.49	A	C
ATOM	1220	CE1	PHE	A	329	97.155	130.648	-77.706	1.00	48.49	A	C
ATOM	1221	CE2	PHE	A	329	99.381	130.642	-76.836	1.00	48.49	A	C
ATOM	1222	CZ	PHE	A	329	98.240	131.332	-77.197	1.00	48.49	A	C
ATOM	1223	C	PHE	A	329	100.230	127.239	-79.376	1.00	48.49	A	C
ATOM	1224	O	PHE	A	329	100.364	127.989	-80.342	1.00	48.49	A	O
ATOM	1225	N	SER	A	330	101.234	126.911	-78.568	1.00	71.43	A	N
ATOM	1226	CA	SER	A	330	102.589	127.405	-78.785	1.00	71.43	A	C
ATOM	1227	CB	SER	A	330	103.529	126.885	-77.697	1.00	71.43	A	C
ATOM	1228	OG	SER	A	330	103.545	125.468	-77.672	1.00	71.43	A	O
ATOM	1229	C	SER	A	330	103.104	126.999	-80.162	1.00	71.43	A	C
ATOM	1230	O	SER	A	330	103.980	127.655	-80.726	1.00	71.43	A	O
ATOM	1231	N	LEU	A	331	102.556	125.912	-80.697	1.00	53.19	A	N
ATOM	1232	CA	LEU	A	331	102.923	125.443	-82.027	1.00	53.19	A	C
ATOM	1233	CB	LEU	A	331	102.387	124.030	-82.265	1.00	53.19	A	C
ATOM	1234	CG	LEU	A	331	102.626	123.436	-83.655	1.00	53.19	A	C
ATOM	1235	CD1	LEU	A	331	104.114	123.322	-83.946	1.00	53.19	A	C
ATOM	1236	CD2	LEU	A	331	101.947	122.082	-83.785	1.00	53.19	A	C
ATOM	1237	C	LEU	A	331	102.388	126.389	-83.097	1.00	53.19	A	C
ATOM	1238	O	LEU	A	331	103.154	126.956	-83.875	1.00	53.19	A	O
ATOM	1239	N	THR	A	332	101.069	126.554	-83.124	1.00	103.02	A	N
ATOM	1240	CA	THR	A	332	100.417	127.418	-84.102	1.00	103.02	A	C
ATOM	1241	CB	THR	A	332	98.903	127.524	-83.839	1.00	103.02	A	C
ATOM	1242	OG1	THR	A	332	98.318	126.216	-83.868	1.00	103.02	A	O
ATOM	1243	CG2	THR	A	332	98.236	128.396	-84.891	1.00	103.02	A	C
ATOM	1244	C	THR	A	332	101.025	128.818	-84.108	1.00	103.02	A	C
ATOM	1245	O	THR	A	332	101.196	129.426	-85.165	1.00	103.02	A	O
ATOM	1246	N	MET	A	333	101.351	129.322	-82.922	1.00	112.73	A	N
ATOM	1247	CA	MET	A	333	101.969	130.636	-82.794	1.00	112.73	A	C
ATOM	1248	CB	MET	A	333	102.252	130.957	-81.325	1.00	112.73	A	C
ATOM	1249	CG	MET	A	333	101.007	131.055	-80.459	1.00	112.73	A	C
ATOM	1250	SD	MET	A	333	99.868	132.332	-81.027	1.00	112.73	A	S
ATOM	1251	CE	MET	A	333	100.911	133.784	-80.924	1.00	112.73	A	C
ATOM	1252	C	MET	A	333	103.258	130.711	-83.603	1.00	112.73	A	C
ATOM	1253	O	MET	A	333	103.433	131.608	-84.428	1.00	112.73	A	O
ATOM	1254	N	ALA	A	334	104.156	129.761	-83.365	1.00	30.08	A	N
ATOM	1255	CA	ALA	A	334	105.433	129.719	-84.067	1.00	30.08	A	C
ATOM	1256	CB	ALA	A	334	106.330	128.646	-83.469	1.00	30.08	A	C
ATOM	1257	C	ALA	A	334	105.242	129.485	-85.562	1.00	30.08	A	C
ATOM	1258	O	ALA	A	334	106.030	129.961	-86.379	1.00	30.08	A	O
ATOM	1259	N	ILE	A	335	104.192	128.749	-85.914	1.00	41.45	A	N
ATOM	1260	CA	ILE	A	335	103.903	128.445	-87.312	1.00	41.45	A	C
ATOM	1261	CB	ILE	A	335	102.611	127.618	-87.460	1.00	41.45	A	C
ATOM	1262	CG2	ILE	A	335	102.244	127.462	-88.927	1.00	41.45	A	C
ATOM	1263	CG1	ILE	A	335	102.778	126.246	-86.804	1.00	41.45	A	C
ATOM	1264	CD1	ILE	A	335	101.549	125.368	-86.902	1.00	41.45	A	C

ATOM	1265	C	ILE	A	335	103.784	129.712	-88.153	1.00	41.45	A	C
ATOM	1266	O	ILE	A	335	104.513	129.890	-89.128	1.00	41.45	A	O
ATOM	1267	N	ILE	A	336	102.864	130.590	-87.767	1.00	44.55	A	N
ATOM	1268	CA	ILE	A	336	102.629	131.828	-88.502	1.00	44.55	A	C
ATOM	1269	CB	ILE	A	336	101.437	132.610	-87.917	1.00	44.55	A	C
ATOM	1270	CG2	ILE	A	336	101.115	133.819	-88.782	1.00	44.55	A	C
ATOM	1271	CG1	ILE	A	336	100.216	131.696	-87.782	1.00	44.55	A	C
ATOM	1272	CD1	ILE	A	336	99.002	132.379	-87.191	1.00	44.55	A	C
ATOM	1273	C	ILE	A	336	103.867	132.721	-88.506	1.00	44.55	A	C
ATOM	1274	O	ILE	A	336	104.114	133.449	-89.468	1.00	44.55	A	O
ATOM	1275	N	ILE	A	337	104.645	132.657	-87.430	1.00	87.94	A	N
ATOM	1276	CA	ILE	A	337	105.846	133.476	-87.300	1.00	87.94	A	C
ATOM	1277	CB	ILE	A	337	106.490	133.316	-85.910	1.00	87.94	A	C
ATOM	1278	CG2	ILE	A	337	107.789	134.103	-85.832	1.00	87.94	A	C
ATOM	1279	CG1	ILE	A	337	105.522	133.771	-84.818	1.00	87.94	A	C
ATOM	1280	CD1	ILE	A	337	106.054	133.585	-83.415	1.00	87.94	A	C
ATOM	1281	C	ILE	A	337	106.884	133.143	-88.368	1.00	87.94	A	C
ATOM	1282	O	ILE	A	337	107.357	134.028	-89.082	1.00	87.94	A	O
ATOM	1283	N	PHE	A	338	107.235	131.866	-88.472	1.00	61.40	A	N
ATOM	1284	CA	PHE	A	338	108.255	131.428	-89.419	1.00	61.40	A	C
ATOM	1285	CB	PHE	A	338	108.860	130.092	-88.983	1.00	61.40	A	C
ATOM	1286	CG	PHE	A	338	109.606	130.160	-87.680	1.00	61.40	A	C
ATOM	1287	CD1	PHE	A	338	110.922	130.590	-87.642	1.00	61.40	A	C
ATOM	1288	CD2	PHE	A	338	108.992	129.791	-86.495	1.00	61.40	A	C
ATOM	1289	CE1	PHE	A	338	111.611	130.653	-86.445	1.00	61.40	A	C
ATOM	1290	CE2	PHE	A	338	109.676	129.852	-85.295	1.00	61.40	A	C
ATOM	1291	CZ	PHE	A	338	110.987	130.283	-85.271	1.00	61.40	A	C
ATOM	1292	C	PHE	A	338	107.717	131.322	-90.843	1.00	61.40	A	C
ATOM	1293	O	PHE	A	338	108.428	131.610	-91.805	1.00	61.40	A	O
ATOM	1294	N	ALA	A	339	106.460	130.910	-90.973	1.00	38.36	A	N
ATOM	1295	CA	ALA	A	339	105.841	130.745	-92.285	1.00	38.36	A	C
ATOM	1296	CB	ALA	A	339	104.409	130.252	-92.141	1.00	38.36	A	C
ATOM	1297	C	ALA	A	339	105.882	132.039	-93.091	1.00	38.36	A	C
ATOM	1298	O	ALA	A	339	105.876	132.014	-94.322	1.00	38.36	A	O
ATOM	1299	N	THR	A	340	105.923	133.168	-92.392	1.00	117.99	A	N
ATOM	1300	CA	THR	A	340	105.958	134.471	-93.047	1.00	117.99	A	C
ATOM	1301	CB	THR	A	340	105.281	135.558	-92.187	1.00	117.99	A	C
ATOM	1302	OG1	THR	A	340	105.902	135.608	-90.897	1.00	117.99	A	O
ATOM	1303	CG2	THR	A	340	103.799	135.258	-92.019	1.00	117.99	A	C
ATOM	1304	C	THR	A	340	107.384	134.903	-93.380	1.00	117.99	A	C
ATOM	1305	O	THR	A	340	107.699	135.184	-94.536	1.00	117.99	A	O
ATOM	1306	N	VAL	A	341	108.242	134.951	-92.366	1.00	49.53	A	N
ATOM	1307	CA	VAL	A	341	109.622	135.392	-92.551	1.00	49.53	A	C
ATOM	1308	CB	VAL	A	341	110.415	135.348	-91.229	1.00	49.53	A	C
ATOM	1309	CG1	VAL	A	341	109.806	136.302	-90.213	1.00	49.53	A	C
ATOM	1310	CG2	VAL	A	341	110.459	133.931	-90.680	1.00	49.53	A	C
ATOM	1311	C	VAL	A	341	110.353	134.563	-93.606	1.00	49.53	A	C
ATOM	1312	O	VAL	A	341	111.257	135.058	-94.278	1.00	49.53	A	O
ATOM	1313	N	MET	A	342	109.956	133.302	-93.746	1.00	112.56	A	N
ATOM	1314	CA	MET	A	342	110.565	132.415	-94.730	1.00	112.56	A	C
ATOM	1315	CB	MET	A	342	110.430	130.953	-94.296	1.00	112.56	A	C
ATOM	1316	CG	MET	A	342	111.143	130.621	-92.996	1.00	112.56	A	C
ATOM	1317	SD	MET	A	342	111.048	128.870	-92.576	1.00	112.56	A	S
ATOM	1318	CE	MET	A	342	109.275	128.637	-92.481	1.00	112.56	A	C
ATOM	1319	C	MET	A	342	109.941	132.611	-96.107	1.00	112.56	A	C
ATOM	1320	O	MET	A	342	110.560	132.312	-97.128	1.00	112.56	A	O
ATOM	1321	N	PHE	A	343	108.711	133.114	-96.128	1.00	78.09	A	N
ATOM	1322	CA	PHE	A	343	108.002	133.348	-97.380	1.00	78.09	A	C
ATOM	1323	CB	PHE	A	343	106.493	133.416	-97.143	1.00	78.09	A	C
ATOM	1324	CG	PHE	A	343	105.697	133.692	-98.386	1.00	78.09	A	C
ATOM	1325	CD1	PHE	A	343	105.380	132.668	-99.262	1.00	78.09	A	C
ATOM	1326	CD2	PHE	A	343	105.266	134.975	-98.679	1.00	78.09	A	C
ATOM	1327	CE1	PHE	A	343	104.650	132.918	-100.408	1.00	78.09	A	C
ATOM	1328	CE2	PHE	A	343	104.535	135.231	-99.823	1.00	78.09	A	C
ATOM	1329	CZ	PHE	A	343	104.226	134.201	-100.688	1.00	78.09	A	C
ATOM	1330	C	PHE	A	343	108.482	134.622	-98.066	1.00	78.09	A	C
ATOM	1331	O	PHE	A	343	108.794	134.616	-99.256	1.00	78.09	A	O
ATOM	1332	N	TYR	A	344	108.537	135.714	-97.310	1.00	66.10	A	N

ATOM	1333	CA	TYR	A	344	108.977	136.996	-97.851	1.00	66.10	A	C
ATOM	1334	CB	TYR	A	344	108.696	138.127	-96.859	1.00	66.10	A	C
ATOM	1335	CG	TYR	A	344	107.232	138.300	-96.521	1.00	66.10	A	C
ATOM	1336	CD1	TYR	A	344	106.383	139.005	-97.364	1.00	66.10	A	C
ATOM	1337	CD2	TYR	A	344	106.700	137.764	-95.356	1.00	66.10	A	C
ATOM	1338	CE1	TYR	A	344	105.044	139.166	-97.058	1.00	66.10	A	C
ATOM	1339	CE2	TYR	A	344	105.364	137.921	-95.042	1.00	66.10	A	C
ATOM	1340	CZ	TYR	A	344	104.541	138.622	-95.895	1.00	66.10	A	C
ATOM	1341	OH	TYR	A	344	103.210	138.780	-95.584	1.00	66.10	A	O
ATOM	1342	C	TYR	A	344	110.459	136.966	-98.210	1.00	66.10	A	C
ATOM	1343	O	TYR	A	344	110.962	137.865	-98.885	1.00	66.10	A	O
ATOM	1344	N	ALA	A	345	111.153	135.928	-97.755	1.00	55.12	A	N
ATOM	1345	CA	ALA	A	345	112.572	135.765	-98.045	1.00	55.12	A	C
ATOM	1346	CB	ALA	A	345	113.274	135.076	-96.885	1.00	55.12	A	C
ATOM	1347	C	ALA	A	345	112.779	134.981	-99.337	1.00	55.12	A	C
ATOM	1348	O	ALA	A	345	113.843	135.049	-99.952	1.00	55.12	A	O
ATOM	1349	N	GLU	A	346	111.753	134.239	-99.741	1.00	125.73	A	N
ATOM	1350	CA	GLU	A	346	111.817	133.442	-100.960	1.00	125.73	A	C
ATOM	1351	CB	GLU	A	346	111.402	131.996	-100.676	1.00	125.73	A	C
ATOM	1352	CG	GLU	A	346	112.264	131.291	-99.640	1.00	125.73	A	C
ATOM	1353	CD	GLU	A	346	113.684	131.057	-100.119	1.00	125.73	A	C
ATOM	1354	OE1	GLU	A	346	113.945	131.236	-101.328	1.00	125.73	A	O
ATOM	1355	OE2	GLU	A	346	114.540	130.694	-99.286	1.00	125.73	A	O
ATOM	1356	C	GLU	A	346	110.933	134.033	-102.053	1.00	125.73	A	C
ATOM	1357	O	GLU	A	346	110.943	133.567	-103.193	1.00	125.73	A	O
ATOM	1358	N	LYS	A	347	110.169	135.061	-101.699	1.00	138.31	A	N
ATOM	1359	CA	LYS	A	347	109.264	135.707	-102.643	1.00	138.31	A	C
ATOM	1360	CB	LYS	A	347	108.360	136.708	-101.918	1.00	138.31	A	C
ATOM	1361	CG	LYS	A	347	107.341	137.391	-102.817	1.00	138.31	A	C
ATOM	1362	CD	LYS	A	347	106.482	138.370	-102.034	1.00	138.31	A	C
ATOM	1363	CE	LYS	A	347	105.462	139.051	-102.933	1.00	138.31	A	C
ATOM	1364	NZ	LYS	A	347	106.114	139.815	-104.032	1.00	138.31	A	N
ATOM	1365	C	LYS	A	347	110.033	136.406	-103.759	1.00	138.31	A	C
ATOM	1366	O	LYS	A	347	109.523	136.573	-104.867	1.00	138.31	A	O
ATOM	1367	N	GLY	A	348	111.264	136.809	-103.461	1.00	56.79	A	N
ATOM	1368	CA	GLY	A	348	112.101	137.488	-104.434	1.00	56.79	A	C
ATOM	1369	C	GLY	A	348	112.815	136.525	-105.362	1.00	56.79	A	C
ATOM	1370	O	GLY	A	348	113.793	136.888	-106.015	1.00	56.79	A	O
ATOM	1371	N	SER	A	349	112.324	135.291	-105.419	1.00	123.99	A	N
ATOM	1372	CA	SER	A	349	112.919	134.268	-106.271	1.00	123.99	A	C
ATOM	1373	CB	SER	A	349	113.561	133.171	-105.422	1.00	123.99	A	C
ATOM	1374	OG	SER	A	349	114.570	133.702	-104.581	1.00	123.99	A	O
ATOM	1375	C	SER	A	349	111.880	133.664	-107.211	1.00	123.99	A	C
ATOM	1376	O	SER	A	349	110.720	133.487	-106.838	1.00	123.99	A	O
ATOM	1377	N	SER	A	350	112.305	133.350	-108.430	1.00	183.36	A	N
ATOM	1378	CA	SER	A	350	111.413	132.770	-109.427	1.00	183.36	A	C
ATOM	1379	CB	SER	A	350	112.024	132.886	-110.825	1.00	183.36	A	C
ATOM	1380	OG	SER	A	350	111.172	132.314	-111.803	1.00	183.36	A	O
ATOM	1381	C	SER	A	350	111.101	131.312	-109.110	1.00	183.36	A	C
ATOM	1382	O	SER	A	350	109.965	130.863	-109.264	1.00	183.36	A	O
ATOM	1383	N	ALA	A	351	112.115	130.576	-108.668	1.00	238.58	A	N
ATOM	1384	CA	ALA	A	351	111.949	129.167	-108.331	1.00	238.58	A	C
ATOM	1385	CB	ALA	A	351	113.205	128.385	-108.687	1.00	238.58	A	C
ATOM	1386	C	ALA	A	351	111.610	128.990	-106.855	1.00	238.58	A	C
ATOM	1387	O	ALA	A	351	112.204	128.160	-106.167	1.00	238.58	A	O
ATOM	1388	N	SER	A	352	110.652	129.775	-106.374	1.00	139.03	A	N
ATOM	1389	CA	SER	A	352	110.235	129.710	-104.979	1.00	139.03	A	C
ATOM	1390	CB	SER	A	352	109.568	131.021	-104.557	1.00	139.03	A	C
ATOM	1391	OG	SER	A	352	108.421	131.286	-105.346	1.00	139.03	A	O
ATOM	1392	C	SER	A	352	109.285	128.541	-104.739	1.00	139.03	A	C
ATOM	1393	O	SER	A	352	108.341	128.331	-105.500	1.00	139.03	A	O
ATOM	1394	N	LYS	A	353	109.540	127.785	-103.677	1.00	160.96	A	N
ATOM	1395	CA	LYS	A	353	108.707	126.638	-103.336	1.00	160.96	A	C
ATOM	1396	CB	LYS	A	353	109.537	125.565	-102.628	1.00	160.96	A	C
ATOM	1397	CG	LYS	A	353	110.704	125.040	-103.450	1.00	160.96	A	C
ATOM	1398	CD	LYS	A	353	110.227	124.424	-104.756	1.00	160.96	A	C
ATOM	1399	CE	LYS	A	353	111.395	123.909	-105.583	1.00	160.96	A	C
ATOM	1400	NZ	LYS	A	353	110.945	123.307	-106.868	1.00	160.96	A	N

ATOM	1401	C	LYS	A	353	107.529	127.052-102.461	1.00160.96	A	C
ATOM	1402	O	LYS	A	353	106.701	126.223-102.085	1.00160.96	A	O
ATOM	1403	N	PHE	A	354	107.461	128.340-102.141	1.00217.25	A	N
ATOM	1404	CA	PHE	A	354	106.384	128.868-101.313	1.00217.25	A	C
ATOM	1405	CB	PHE	A	354	106.955	129.659-100.135	1.00217.25	A	C
ATOM	1406	CG	PHE	A	354	107.848	128.851 -99.238	1.00217.25	A	C
ATOM	1407	CD1	PHE	A	354	107.322	128.148 -98.166	1.00217.25	A	C
ATOM	1408	CD2	PHE	A	354	109.213	128.793 -99.465	1.00217.25	A	C
ATOM	1409	CE1	PHE	A	354	108.141	127.404 -97.339	1.00217.25	A	C
ATOM	1410	CE2	PHE	A	354	110.037	128.050 -98.641	1.00217.25	A	C
ATOM	1411	CZ	PHE	A	354	109.500	127.355 -97.576	1.00217.25	A	C
ATOM	1412	C	PHE	A	354	105.444	129.749-102.130	1.00217.25	A	C
ATOM	1413	O	PHE	A	354	105.812	130.850-102.543	1.00217.25	A	O
ATOM	1414	N	THR	A	355	104.231	129.258-102.361	1.00186.86	A	N
ATOM	1415	CA	THR	A	355	103.242	129.997-103.135	1.00186.86	A	C
ATOM	1416	CB	THR	A	355	102.179	129.059-103.737	1.00186.86	A	C
ATOM	1417	OG1	THR	A	355	101.500	128.363-102.684	1.00186.86	A	O
ATOM	1418	CG2	THR	A	355	102.829	128.048-104.671	1.00186.86	A	C
ATOM	1419	C	THR	A	355	102.549	131.054-102.282	1.00186.86	A	C
ATOM	1420	O	THR	A	355	102.373	132.194-102.710	1.00186.86	A	O
ATOM	1421	N	SER	A	356	102.158	130.667-101.072	1.00 47.70	A	N
ATOM	1422	CA	SER	A	356	101.484	131.580-100.157	1.00 47.70	A	C
ATOM	1423	CB	SER	A	356	99.972	131.549-100.386	1.00 47.70	A	C
ATOM	1424	OG	SER	A	356	99.450	130.249-100.175	1.00 47.70	A	O
ATOM	1425	C	SER	A	356	101.802	131.239 -98.706	1.00 47.70	A	C
ATOM	1426	O	SER	A	356	102.298	130.152 -98.408	1.00 47.70	A	O
ATOM	1427	N	ILE	A	357	101.514	132.174 -97.806	1.00 65.52	A	N
ATOM	1428	CA	ILE	A	357	101.754	131.969 -96.381	1.00 65.52	A	C
ATOM	1429	CB	ILE	A	357	101.441	133.238 -95.558	1.00 65.52	A	C
ATOM	1430	CG2	ILE	A	357	101.665	132.982 -94.076	1.00 65.52	A	C
ATOM	1431	CG1	ILE	A	357	102.299	134.410 -96.039	1.00 65.52	A	C
ATOM	1432	CD1	ILE	A	357	102.071	135.692 -95.269	1.00 65.52	A	C
ATOM	1433	C	ILE	A	357	100.967	130.781 -95.824	1.00 65.52	A	C
ATOM	1434	O	ILE	A	357	101.527	129.950 -95.110	1.00 65.52	A	O
ATOM	1435	N	PRO	A	358	99.664	130.697 -96.145	1.00 79.94	A	N
ATOM	1436	CA	PRO	A	358	98.869	129.553 -95.685	1.00 79.94	A	C
ATOM	1437	CD	PRO	A	358	98.842	131.678 -96.876	1.00 79.94	A	C
ATOM	1438	CB	PRO	A	358	97.505	129.793 -96.338	1.00 79.94	A	C
ATOM	1439	CG	PRO	A	358	97.442	131.264 -96.540	1.00 79.94	A	C
ATOM	1440	C	PRO	A	358	99.451	128.228 -96.166	1.00 79.94	A	C
ATOM	1441	O	PRO	A	358	99.353	127.221 -95.465	1.00 79.94	A	O
ATOM	1442	N	ALA	A	359	100.051	128.236 -97.352	1.00 43.14	A	N
ATOM	1443	CA	ALA	A	359	100.651	127.033 -97.916	1.00 43.14	A	C
ATOM	1444	CB	ALA	A	359	100.733	127.142 -99.430	1.00 43.14	A	C
ATOM	1445	C	ALA	A	359	102.034	126.779 -97.323	1.00 43.14	A	C
ATOM	1446	O	ALA	A	359	102.598	125.696 -97.481	1.00 43.14	A	O
ATOM	1447	N	ALA	A	360	102.573	127.785 -96.643	1.00 50.03	A	N
ATOM	1448	CA	ALA	A	360	103.888	127.674 -96.022	1.00 50.03	A	C
ATOM	1449	CB	ALA	A	360	104.562	129.037 -95.964	1.00 50.03	A	C
ATOM	1450	C	ALA	A	360	103.790	127.066 -94.627	1.00 50.03	A	C
ATOM	1451	O	ALA	A	360	104.804	126.831 -93.970	1.00 50.03	A	O
ATOM	1452	N	PHE	A	361	102.563	126.814 -94.180	1.00 66.36	A	N
ATOM	1453	CA	PHE	A	361	102.331	126.225 -92.866	1.00 66.36	A	C
ATOM	1454	CB	PHE	A	361	100.844	126.268 -92.509	1.00 66.36	A	C
ATOM	1455	CG	PHE	A	361	100.301	127.658 -92.336	1.00 66.36	A	C
ATOM	1456	CD1	PHE	A	361	101.155	128.729 -92.135	1.00 66.36	A	C
ATOM	1457	CD2	PHE	A	361	98.937	127.893 -92.371	1.00 66.36	A	C
ATOM	1458	CE1	PHE	A	361	100.660	130.009 -91.975	1.00 66.36	A	C
ATOM	1459	CE2	PHE	A	361	98.435	129.170 -92.211	1.00 66.36	A	C
ATOM	1460	CZ	PHE	A	361	99.298	130.230 -92.013	1.00 66.36	A	C
ATOM	1461	C	PHE	A	361	102.839	124.789 -92.813	1.00 66.36	A	C
ATOM	1462	O	PHE	A	361	103.306	124.323 -91.773	1.00 66.36	A	O
ATOM	1463	N	TRP	A	362	102.743	124.092 -93.940	1.00 75.06	A	N
ATOM	1464	CA	TRP	A	362	103.202	122.711 -94.032	1.00 75.06	A	C
ATOM	1465	CB	TRP	A	362	102.917	122.143 -95.423	1.00 75.06	A	C
ATOM	1466	CG	TRP	A	362	103.547	120.805 -95.666	1.00 75.06	A	C
ATOM	1467	CD2	TRP	A	362	103.033	119.528 -95.267	1.00 75.06	A	C
ATOM	1468	CD1	TRP	A	362	104.725	120.559 -96.308	1.00 75.06	A	C

ATOM	1469	NE1	TRP	A	362	104.976	119.208	-96.337	1.00	75.06	A	N
ATOM	1470	CE2	TRP	A	362	103.952	118.554	-95.704	1.00	75.06	A	C
ATOM	1471	CE3	TRP	A	362	101.885	119.115	-94.585	1.00	75.06	A	C
ATOM	1472	CZ2	TRP	A	362	103.759	117.192	-95.480	1.00	75.06	A	C
ATOM	1473	CZ3	TRP	A	362	101.695	117.763	-94.363	1.00	75.06	A	C
ATOM	1474	CH2	TRP	A	362	102.627	116.818	-94.809	1.00	75.06	A	C
ATOM	1475	C	TRP	A	362	104.689	122.599	-93.715	1.00	75.06	A	C
ATOM	1476	O	TRP	A	362	105.088	121.846	-92.828	1.00	75.06	A	O
ATOM	1477	N	TYR	A	363	105.503	123.354	-94.447	1.00	49.06	A	N
ATOM	1478	CA	TYR	A	363	106.949	123.334	-94.255	1.00	49.06	A	C
ATOM	1479	CB	TYR	A	363	107.628	124.336	-95.191	1.00	49.06	A	C
ATOM	1480	CG	TYR	A	363	109.115	124.476	-94.956	1.00	49.06	A	C
ATOM	1481	CD1	TYR	A	363	110.013	123.573	-95.509	1.00	49.06	A	C
ATOM	1482	CD2	TYR	A	363	109.620	125.511	-94.181	1.00	49.06	A	C
ATOM	1483	CE1	TYR	A	363	111.373	123.697	-95.296	1.00	49.06	A	C
ATOM	1484	CE2	TYR	A	363	110.978	125.643	-93.962	1.00	49.06	A	C
ATOM	1485	CZ	TYR	A	363	111.850	124.734	-94.522	1.00	49.06	A	C
ATOM	1486	OH	TYR	A	363	113.203	124.863	-94.306	1.00	49.06	A	O
ATOM	1487	C	TYR	A	363	107.333	123.630	-92.809	1.00	49.06	A	C
ATOM	1488	O	TYR	A	363	108.275	123.044	-92.277	1.00	49.06	A	O
ATOM	1489	N	THR	A	364	106.599	124.542	-92.180	1.00	38.67	A	N
ATOM	1490	CA	THR	A	364	106.878	124.927	-90.802	1.00	38.67	A	C
ATOM	1491	CB	THR	A	364	106.024	126.131	-90.367	1.00	38.67	A	C
ATOM	1492	OG1	THR	A	364	106.271	127.236	-91.246	1.00	38.67	A	O
ATOM	1493	CG2	THR	A	364	106.366	126.535	-88.942	1.00	38.67	A	C
ATOM	1494	C	THR	A	364	106.637	123.768	-89.839	1.00	38.67	A	C
ATOM	1495	O	THR	A	364	107.527	123.389	-89.079	1.00	38.67	A	O
ATOM	1496	N	ILE	A	365	105.431	123.212	-89.877	1.00	87.97	A	N
ATOM	1497	CA	ILE	A	365	105.080	122.085	-89.020	1.00	87.97	A	C
ATOM	1498	CB	ILE	A	365	103.640	121.603	-89.282	1.00	87.97	A	C
ATOM	1499	CG2	ILE	A	365	103.293	120.435	-88.372	1.00	87.97	A	C
ATOM	1500	CG1	ILE	A	365	102.648	122.751	-89.087	1.00	87.97	A	C
ATOM	1501	CD1	ILE	A	365	101.207	122.363	-89.340	1.00	87.97	A	C
ATOM	1502	C	ILE	A	365	106.040	120.921	-89.236	1.00	87.97	A	C
ATOM	1503	O	ILE	A	365	106.469	120.271	-88.283	1.00	87.97	A	O
ATOM	1504	N	VAL	A	366	106.372	120.667	-90.497	1.00	48.90	A	N
ATOM	1505	CA	VAL	A	366	107.290	119.592	-90.854	1.00	48.90	A	C
ATOM	1506	CB	VAL	A	366	107.428	119.458	-92.383	1.00	48.90	A	C
ATOM	1507	CG1	VAL	A	366	108.600	118.560	-92.737	1.00	48.90	A	C
ATOM	1508	CG2	VAL	A	366	106.136	118.929	-92.989	1.00	48.90	A	C
ATOM	1509	C	VAL	A	366	108.671	119.806	-90.242	1.00	48.90	A	C
ATOM	1510	O	VAL	A	366	109.256	118.886	-89.670	1.00	48.90	A	O
ATOM	1511	N	THR	A	367	109.185	121.025	-90.362	1.00	54.03	A	N
ATOM	1512	CA	THR	A	367	110.511	121.353	-89.850	1.00	54.03	A	C
ATOM	1513	CB	THR	A	367	110.972	122.742	-90.330	1.00	54.03	A	C
ATOM	1514	OG1	THR	A	367	110.984	122.778	-91.762	1.00	54.03	A	O
ATOM	1515	CG2	THR	A	367	112.367	123.050	-89.808	1.00	54.03	A	C
ATOM	1516	C	THR	A	367	110.558	121.310	-88.325	1.00	54.03	A	C
ATOM	1517	O	THR	A	367	111.506	120.786	-87.740	1.00	54.03	A	O
ATOM	1518	N	MET	A	368	109.531	121.861	-87.688	1.00	56.02	A	N
ATOM	1519	CA	MET	A	368	109.477	121.921	-86.231	1.00	56.02	A	C
ATOM	1520	CB	MET	A	368	108.300	122.785	-85.772	1.00	56.02	A	C
ATOM	1521	CG	MET	A	368	108.395	124.240	-86.202	1.00	56.02	A	C
ATOM	1522	SD	MET	A	368	107.034	125.243	-85.576	1.00	56.02	A	S
ATOM	1523	CE	MET	A	368	107.274	125.072	-83.810	1.00	56.02	A	C
ATOM	1524	C	MET	A	368	109.387	120.533	-85.601	1.00	56.02	A	C
ATOM	1525	O	MET	A	368	110.026	120.262	-84.584	1.00	56.02	A	O
ATOM	1526	N	THR	A	369	108.593	119.658	-86.210	1.00	66.05	A	N
ATOM	1527	CA	THR	A	369	108.411	118.305	-85.696	1.00	66.05	A	C
ATOM	1528	CB	THR	A	369	107.038	117.731	-86.088	1.00	66.05	A	C
ATOM	1529	OG1	THR	A	369	106.928	117.680	-87.516	1.00	66.05	A	O
ATOM	1530	CG2	THR	A	369	105.920	118.596	-85.529	1.00	66.05	A	C
ATOM	1531	C	THR	A	369	109.507	117.367	-86.191	1.00	66.05	A	C
ATOM	1532	O	THR	A	369	109.327	116.149	-86.220	1.00	66.05	A	O
ATOM	1533	N	THR	A	370	110.639	117.945	-86.581	1.00	71.04	A	N
ATOM	1534	CA	THR	A	370	111.794	117.177	-87.040	1.00	71.04	A	C
ATOM	1535	CB	THR	A	370	112.559	116.539	-85.860	1.00	71.04	A	C
ATOM	1536	OG1	THR	A	370	111.700	115.629	-85.162	1.00	71.04	A	O

ATOM	1537	CG2	THR	A	370	113.043	117.613	-84.897	1.00	71.04	A	C
ATOM	1538	C	THR	A	370	111.422	116.092	-88.049	1.00	71.04	A	C
ATOM	1539	O	THR	A	370	111.664	114.907	-87.818	1.00	71.04	A	O
ATOM	1540	N	LEU	A	371	110.837	116.504	-89.168	1.00	149.24	A	N
ATOM	1541	CA	LEU	A	371	110.467	115.571	-90.226	1.00	149.24	A	C
ATOM	1542	CB	LEU	A	371	108.999	115.753	-90.616	1.00	149.24	A	C
ATOM	1543	CG	LEU	A	371	107.958	115.455	-89.536	1.00	149.24	A	C
ATOM	1544	CD1	LEU	A	371	106.559	115.775	-90.040	1.00	149.24	A	C
ATOM	1545	CD2	LEU	A	371	108.051	114.007	-89.091	1.00	149.24	A	C
ATOM	1546	C	LEU	A	371	111.358	115.747	-91.451	1.00	149.24	A	C
ATOM	1547	O	LEU	A	371	112.195	114.897	-91.748	1.00	149.24	A	O
ATOM	1548	N	GLY	A	372	111.168	116.857	-92.158	1.00	45.54	A	N
ATOM	1549	CA	GLY	A	372	111.956	117.156	-93.339	1.00	45.54	A	C
ATOM	1550	C	GLY	A	372	111.757	116.147	-94.453	1.00	45.54	A	C
ATOM	1551	O	GLY	A	372	112.539	115.207	-94.595	1.00	45.54	A	O
ATOM	1552	N	TYR	A	373	110.709	116.342	-95.246	1.00	55.21	A	N
ATOM	1553	CA	TYR	A	373	110.414	115.445	-96.358	1.00	55.21	A	C
ATOM	1554	CB	TYR	A	373	108.936	115.532	-96.745	1.00	55.21	A	C
ATOM	1555	CG	TYR	A	373	107.991	115.031	-95.677	1.00	55.21	A	C
ATOM	1556	CD1	TYR	A	373	107.466	115.895	-94.725	1.00	55.21	A	C
ATOM	1557	CD2	TYR	A	373	107.621	113.694	-95.620	1.00	55.21	A	C
ATOM	1558	CE1	TYR	A	373	106.601	115.442	-93.747	1.00	55.21	A	C
ATOM	1559	CE2	TYR	A	373	106.757	113.232	-94.646	1.00	55.21	A	C
ATOM	1560	CZ	TYR	A	373	106.250	114.109	-93.712	1.00	55.21	A	C
ATOM	1561	OH	TYR	A	373	105.389	113.651	-92.741	1.00	55.21	A	O
ATOM	1562	C	TYR	A	373	111.293	115.752	-97.567	1.00	55.21	A	C
ATOM	1563	O	TYR	A	373	111.930	114.859	-98.126	1.00	55.21	A	O
ATOM	1564	N	GLY	A	374	111.321	117.020	-97.965	1.00	26.05	A	N
ATOM	1565	CA	GLY	A	374	112.124	117.444	-99.097	1.00	26.05	A	C
ATOM	1566	C	GLY	A	374	111.292	118.041	-100.215	1.00	26.05	A	C
ATOM	1567	O	GLY	A	374	111.829	118.524	-101.212	1.00	26.05	A	O
ATOM	1568	N	ASP	A	375	109.973	118.008	-100.049	1.00	57.71	A	N
ATOM	1569	CA	ASP	A	375	109.062	118.547	-101.052	1.00	57.71	A	C
ATOM	1570	CB	ASP	A	375	107.624	118.104	-100.770	1.00	57.71	A	C
ATOM	1571	CG	ASP	A	375	107.091	118.649	-99.458	1.00	57.71	A	C
ATOM	1572	OD1	ASP	A	375	107.884	118.805	-98.506	1.00	57.71	A	O
ATOM	1573	OD2	ASP	A	375	105.874	118.921	-99.378	1.00	57.71	A	O
ATOM	1574	C	ASP	A	375	109.142	120.069	-101.113	1.00	57.71	A	C
ATOM	1575	O	ASP	A	375	108.852	120.675	-102.145	1.00	57.71	A	O
ATOM	1576	N	MET	A	376	109.537	120.681	-100.001	1.00	56.92	A	N
ATOM	1577	CA	MET	A	376	109.664	122.132	-99.927	1.00	56.92	A	C
ATOM	1578	CB	MET	A	376	108.438	122.744	-99.246	1.00	56.92	A	C
ATOM	1579	CG	MET	A	376	107.127	122.479	-99.967	1.00	56.92	A	C
ATOM	1580	SD	MET	A	376	105.705	123.176	-99.105	1.00	56.92	A	S
ATOM	1581	CE	MET	A	376	106.127	124.917	-99.109	1.00	56.92	A	C
ATOM	1582	C	MET	A	376	110.931	122.529	-99.176	1.00	56.92	A	C
ATOM	1583	O	MET	A	376	111.083	122.223	-97.994	1.00	56.92	A	O
ATOM	1584	N	VAL	A	377	111.838	123.208	-99.870	1.00	110.24	A	N
ATOM	1585	CA	VAL	A	377	113.092	123.646	-99.265	1.00	110.24	A	C
ATOM	1586	CB	VAL	A	377	114.248	122.677	-99.590	1.00	110.24	A	C
ATOM	1587	CG1	VAL	A	377	114.036	121.341	-98.895	1.00	110.24	A	C
ATOM	1588	CG2	VAL	A	377	114.381	122.490	-101.094	1.00	110.24	A	C
ATOM	1589	C	VAL	A	377	113.473	125.053	-99.718	1.00	110.24	A	C
ATOM	1590	O	VAL	A	377	113.329	125.393	-100.892	1.00	110.24	A	O
ATOM	1591	N	PRO	A	378	113.958	125.877	-98.777	1.00	157.59	A	N
ATOM	1592	CA	PRO	A	378	114.401	127.246	-99.063	1.00	157.59	A	C
ATOM	1593	CD	PRO	A	378	114.055	125.554	-97.344	1.00	157.59	A	C
ATOM	1594	CB	PRO	A	378	114.923	127.732	-97.708	1.00	157.59	A	C
ATOM	1595	CG	PRO	A	378	114.201	126.901	-96.705	1.00	157.59	A	C
ATOM	1596	C	PRO	A	378	115.525	127.270	-100.093	1.00	157.59	A	C
ATOM	1597	O	PRO	A	378	116.175	126.249	-100.317	1.00	157.59	A	O
ATOM	1598	N	LYS	A	379	115.750	128.427	-100.708	1.00	201.84	A	N
ATOM	1599	CA	LYS	A	379	116.792	128.564	-101.719	1.00	201.84	A	C
ATOM	1600	CB	LYS	A	379	116.171	128.722	-103.109	1.00	201.84	A	C
ATOM	1601	CG	LYS	A	379	115.270	127.569	-103.522	1.00	201.84	A	C
ATOM	1602	CD	LYS	A	379	116.031	126.253	-103.554	1.00	201.84	A	C
ATOM	1603	CE	LYS	A	379	117.164	126.293	-104.566	1.00	201.84	A	C
ATOM	1604	NZ	LYS	A	379	117.908	125.004	-104.616	1.00	201.84	A	N

ATOM	1605	C	LYS	A	379	117.710	129.745	-101.420	1.00201.84	A	C
ATOM	1606	O	LYS	A	379	118.911	129.691	-101.685	1.00201.84	A	O
ATOM	1607	N	THR	A	380	117.140	130.810	-100.866	1.00144.37	A	N
ATOM	1608	CA	THR	A	380	117.905	132.011	-100.552	1.00144.37	A	C
ATOM	1609	CB	THR	A	380	117.007	133.262	-100.526	1.00144.37	A	C
ATOM	1610	OG1	THR	A	380	115.993	133.106	-99.526	1.00144.37	A	O
ATOM	1611	CG2	THR	A	380	116.349	133.475	-101.881	1.00144.37	A	C
ATOM	1612	C	THR	A	380	118.622	131.885	-99.212	1.00144.37	A	C
ATOM	1613	O	THR	A	380	118.446	130.903	-98.491	1.00144.37	A	O
ATOM	1614	N	ILE	A	381	119.431	132.888	-98.887	1.00 82.77	A	N
ATOM	1615	CA	ILE	A	381	120.174	132.899	-97.632	1.00 82.77	A	C
ATOM	1616	CB	ILE	A	381	121.405	133.828	-97.702	1.00 82.77	A	C
ATOM	1617	CG2	ILE	A	381	122.015	134.011	-96.322	1.00 82.77	A	C
ATOM	1618	CG1	ILE	A	381	122.452	133.269	-98.669	1.00 82.77	A	C
ATOM	1619	CD1	ILE	A	381	122.078	133.388	-100.132	1.00 82.77	A	C
ATOM	1620	C	ILE	A	381	119.279	133.337	-96.476	1.00 82.77	A	C
ATOM	1621	O	ILE	A	381	119.333	132.767	-95.386	1.00 82.77	A	O
ATOM	1622	N	ALA	A	382	118.456	134.351	-96.723	1.00 53.32	A	N
ATOM	1623	CA	ALA	A	382	117.537	134.855	-95.709	1.00 53.32	A	C
ATOM	1624	CB	ALA	A	382	116.760	136.048	-96.243	1.00 53.32	A	C
ATOM	1625	C	ALA	A	382	116.583	133.760	-95.243	1.00 53.32	A	C
ATOM	1626	O	ALA	A	382	116.256	133.671	-94.060	1.00 53.32	A	O
ATOM	1627	N	GLY	A	383	116.142	132.928	-96.182	1.00 35.60	A	N
ATOM	1628	CA	GLY	A	383	115.249	131.829	-95.868	1.00 35.60	A	C
ATOM	1629	C	GLY	A	383	115.982	130.664	-95.232	1.00 35.60	A	C
ATOM	1630	O	GLY	A	383	115.373	129.810	-94.588	1.00 35.60	A	O
ATOM	1631	N	LYS	A	384	117.298	130.631	-95.416	1.00 53.39	A	N
ATOM	1632	CA	LYS	A	384	118.125	129.571	-94.853	1.00 53.39	A	C
ATOM	1633	CB	LYS	A	384	119.486	129.526	-95.551	1.00 53.39	A	C
ATOM	1634	CG	LYS	A	384	120.437	128.482	-94.991	1.00 53.39	A	C
ATOM	1635	CD	LYS	A	384	121.755	128.474	-95.748	1.00 53.39	A	C
ATOM	1636	CE	LYS	A	384	121.543	128.161	-97.220	1.00 53.39	A	C
ATOM	1637	NZ	LYS	A	384	120.899	126.834	-97.418	1.00 53.39	A	N
ATOM	1638	C	LYS	A	384	118.312	129.761	-93.352	1.00 53.39	A	C
ATOM	1639	O	LYS	A	384	118.278	128.799	-92.586	1.00 53.39	A	O
ATOM	1640	N	ILE	A	385	118.509	131.009	-92.940	1.00 33.52	A	N
ATOM	1641	CA	ILE	A	385	118.691	131.331	-91.530	1.00 33.52	A	C
ATOM	1642	CB	ILE	A	385	119.152	132.788	-91.340	1.00 33.52	A	C
ATOM	1643	CG2	ILE	A	385	119.342	133.099	-89.863	1.00 33.52	A	C
ATOM	1644	CG1	ILE	A	385	120.445	133.044	-92.117	1.00 33.52	A	C
ATOM	1645	CD1	ILE	A	385	120.963	134.461	-91.991	1.00 33.52	A	C
ATOM	1646	C	ILE	A	385	117.400	131.111	-90.749	1.00 33.52	A	C
ATOM	1647	O	ILE	A	385	117.411	130.532	-89.662	1.00 33.52	A	O
ATOM	1648	N	PHE	A	386	116.289	131.574	-91.311	1.00111.88	A	N
ATOM	1649	CA	PHE	A	386	114.986	131.423	-90.674	1.00111.88	A	C
ATOM	1650	CB	PHE	A	386	113.926	132.230	-91.426	1.00111.88	A	C
ATOM	1651	CG	PHE	A	386	114.202	133.706	-91.466	1.00111.88	A	C
ATOM	1652	CD1	PHE	A	386	114.979	134.307	-90.488	1.00111.88	A	C
ATOM	1653	CD2	PHE	A	386	113.688	134.493	-92.483	1.00111.88	A	C
ATOM	1654	CE1	PHE	A	386	115.236	135.664	-90.523	1.00111.88	A	C
ATOM	1655	CE2	PHE	A	386	113.942	135.852	-92.523	1.00111.88	A	C
ATOM	1656	CZ	PHE	A	386	114.716	136.438	-91.542	1.00111.88	A	C
ATOM	1657	C	PHE	A	386	114.579	129.955	-90.602	1.00111.88	A	C
ATOM	1658	O	PHE	A	386	113.901	129.534	-89.664	1.00111.88	A	O
ATOM	1659	N	GLY	A	387	114.998	129.181	-91.598	1.00 27.68	A	N
ATOM	1660	CA	GLY	A	387	114.699	127.761	-91.636	1.00 27.68	A	C
ATOM	1661	C	GLY	A	387	115.416	126.999	-90.540	1.00 27.68	A	C
ATOM	1662	O	GLY	A	387	114.949	125.953	-90.088	1.00 27.68	A	O
ATOM	1663	N	SER	A	388	116.558	127.526	-90.111	1.00 31.06	A	N
ATOM	1664	CA	SER	A	388	117.338	126.905	-89.048	1.00 31.06	A	C
ATOM	1665	CB	SER	A	388	118.788	127.389	-89.094	1.00 31.06	A	C
ATOM	1666	OG	SER	A	388	119.394	127.069	-90.334	1.00 31.06	A	O
ATOM	1667	C	SER	A	388	116.729	127.202	-87.682	1.00 31.06	A	C
ATOM	1668	O	SER	A	388	116.644	126.322	-86.825	1.00 31.06	A	O
ATOM	1669	N	ILE	A	389	116.308	128.447	-87.486	1.00 33.86	A	N
ATOM	1670	CA	ILE	A	389	115.691	128.860	-86.231	1.00 33.86	A	C
ATOM	1671	CB	ILE	A	389	115.468	130.384	-86.188	1.00 33.86	A	C
ATOM	1672	CG2	ILE	A	389	114.862	130.798	-84.854	1.00 33.86	A	C

ATOM	1673	CG1	ILE	A	389	116.784	131.123	-86.438	1.00	33.86	A	C
ATOM	1674	CD1	ILE	A	389	116.654	132.631	-86.415	1.00	33.86	A	C
ATOM	1675	C	ILE	A	389	114.357	128.152	-86.026	1.00	33.86	A	C
ATOM	1676	O	ILE	A	389	113.988	127.812	-84.902	1.00	33.86	A	O
ATOM	1677	N	CYS	A	390	113.638	127.931	-87.122	1.00	36.22	A	N
ATOM	1678	CA	CYS	A	390	112.348	127.253	-87.072	1.00	36.22	A	C
ATOM	1679	CB	CYS	A	390	111.686	127.261	-88.451	1.00	36.22	A	C
ATOM	1680	SG	CYS	A	390	110.077	126.439	-88.513	1.00	36.22	A	S
ATOM	1681	C	CYS	A	390	112.500	125.820	-86.573	1.00	36.22	A	C
ATOM	1682	O	CYS	A	390	111.605	125.280	-85.923	1.00	36.22	A	O
ATOM	1683	N	SER	A	391	113.639	125.210	-86.883	1.00	67.70	A	N
ATOM	1684	CA	SER	A	391	113.915	123.842	-86.461	1.00	67.70	A	C
ATOM	1685	CB	SER	A	391	114.992	123.215	-87.348	1.00	67.70	A	C
ATOM	1686	OG	SER	A	391	115.258	121.879	-86.956	1.00	67.70	A	O
ATOM	1687	C	SER	A	391	114.346	123.796	-84.999	1.00	67.70	A	C
ATOM	1688	O	SER	A	391	113.977	122.882	-84.261	1.00	67.70	A	O
ATOM	1689	N	LEU	A	392	115.128	124.788	-84.586	1.00	41.51	A	N
ATOM	1690	CA	LEU	A	392	115.595	124.871	-83.208	1.00	41.51	A	C
ATOM	1691	CB	LEU	A	392	116.655	125.965	-83.065	1.00	41.51	A	C
ATOM	1692	CG	LEU	A	392	117.925	125.787	-83.897	1.00	41.51	A	C
ATOM	1693	CD1	LEU	A	392	118.869	126.963	-83.699	1.00	41.51	A	C
ATOM	1694	CD2	LEU	A	392	118.614	124.477	-83.547	1.00	41.51	A	C
ATOM	1695	C	LEU	A	392	114.433	125.138	-82.257	1.00	41.51	A	C
ATOM	1696	O	LEU	A	392	114.282	124.461	-81.240	1.00	41.51	A	O
ATOM	1697	N	SER	A	393	113.616	126.129	-82.597	1.00	31.53	A	N
ATOM	1698	CA	SER	A	393	112.448	126.467	-81.794	1.00	31.53	A	C
ATOM	1699	CB	SER	A	393	111.796	127.751	-82.310	1.00	31.53	A	C
ATOM	1700	OG	SER	A	393	112.698	128.842	-82.249	1.00	31.53	A	O
ATOM	1701	C	SER	A	393	111.438	125.325	-81.806	1.00	31.53	A	C
ATOM	1702	O	SER	A	393	110.700	125.126	-80.842	1.00	31.53	A	O
ATOM	1703	N	GLY	A	394	111.414	124.577	-82.904	1.00	30.12	A	N
ATOM	1704	CA	GLY	A	394	110.513	123.448	-83.039	1.00	30.12	A	C
ATOM	1705	C	GLY	A	394	110.764	122.384	-81.990	1.00	30.12	A	C
ATOM	1706	O	GLY	A	394	109.826	121.826	-81.420	1.00	30.12	A	O
ATOM	1707	N	VAL	A	395	112.038	122.102	-81.734	1.00	95.83	A	N
ATOM	1708	CA	VAL	A	395	112.416	121.111	-80.734	1.00	95.83	A	C
ATOM	1709	CB	VAL	A	395	113.920	120.782	-80.806	1.00	95.83	A	C
ATOM	1710	CG1	VAL	A	395	114.294	119.770	-79.734	1.00	95.83	A	C
ATOM	1711	CG2	VAL	A	395	114.282	120.261	-82.189	1.00	95.83	A	C
ATOM	1712	C	VAL	A	395	112.074	121.599	-79.331	1.00	95.83	A	C
ATOM	1713	O	VAL	A	395	111.607	120.829	-78.492	1.00	95.83	A	O
ATOM	1714	N	LEU	A	396	112.304	122.884	-79.084	1.00	88.54	A	N
ATOM	1715	CA	LEU	A	396	112.026	123.480	-77.783	1.00	88.54	A	C
ATOM	1716	CB	LEU	A	396	112.570	124.909	-77.722	1.00	88.54	A	C
ATOM	1717	CG	LEU	A	396	114.078	125.082	-77.912	1.00	88.54	A	C
ATOM	1718	CD1	LEU	A	396	114.442	126.556	-78.010	1.00	88.54	A	C
ATOM	1719	CD2	LEU	A	396	114.843	124.412	-76.782	1.00	88.54	A	C
ATOM	1720	C	LEU	A	396	110.532	123.481	-77.476	1.00	88.54	A	C
ATOM	1721	O	LEU	A	396	110.094	122.920	-76.472	1.00	88.54	A	O
ATOM	1722	N	VAL	A	397	109.757	124.115	-78.351	1.00	41.21	A	N
ATOM	1723	CA	VAL	A	397	108.315	124.245	-78.163	1.00	41.21	A	C
ATOM	1724	CB	VAL	A	397	107.643	124.884	-79.396	1.00	41.21	A	C
ATOM	1725	CG1	VAL	A	397	106.129	124.812	-79.275	1.00	41.21	A	C
ATOM	1726	CG2	VAL	A	397	108.106	126.323	-79.567	1.00	41.21	A	C
ATOM	1727	C	VAL	A	397	107.637	122.911	-77.861	1.00	41.21	A	C
ATOM	1728	O	VAL	A	397	106.803	122.820	-76.960	1.00	41.21	A	O
ATOM	1729	N	ILE	A	398	107.999	121.879	-78.615	1.00	120.02	A	N
ATOM	1730	CA	ILE	A	398	107.383	120.566	-78.458	1.00	120.02	A	C
ATOM	1731	CB	ILE	A	398	107.651	119.665	-79.681	1.00	120.02	A	C
ATOM	1732	CG2	ILE	A	398	107.038	118.289	-79.474	1.00	120.02	A	C
ATOM	1733	CG1	ILE	A	398	107.097	120.312	-80.951	1.00	120.02	A	C
ATOM	1734	CD1	ILE	A	398	107.326	119.494	-82.203	1.00	120.02	A	C
ATOM	1735	C	ILE	A	398	107.856	119.851	-77.194	1.00	120.02	A	C
ATOM	1736	O	ILE	A	398	107.070	119.189	-76.517	1.00	120.02	A	O
ATOM	1737	N	ALA	A	399	109.138	119.992	-76.877	1.00	64.31	A	N
ATOM	1738	CA	ALA	A	399	109.727	119.286	-75.743	1.00	64.31	A	C
ATOM	1739	CB	ALA	A	399	111.237	119.171	-75.916	1.00	64.31	A	C
ATOM	1740	C	ALA	A	399	109.393	119.931	-74.399	1.00	64.31	A	C

ATOM	1741	O	ALA	A	399	110.087	119.704	-73.408	1.00	64.31	A	O
ATOM	1742	N	LEU	A	400	108.331	120.730	-74.365	1.00	75.94	A	N
ATOM	1743	CA	LEU	A	400	107.913	121.382	-73.126	1.00	75.94	A	C
ATOM	1744	CB	LEU	A	400	107.742	122.892	-73.327	1.00	75.94	A	C
ATOM	1745	CG	LEU	A	400	108.996	123.682	-73.705	1.00	75.94	A	C
ATOM	1746	CD1	LEU	A	400	108.654	125.142	-73.961	1.00	75.94	A	C
ATOM	1747	CD2	LEU	A	400	110.059	123.558	-72.625	1.00	75.94	A	C
ATOM	1748	C	LEU	A	400	106.641	120.767	-72.536	1.00	75.94	A	C
ATOM	1749	O	LEU	A	400	106.628	120.372	-71.371	1.00	75.94	A	O
ATOM	1750	N	PRO	A	401	105.564	120.688	-73.337	1.00	77.22	A	N
ATOM	1751	CA	PRO	A	401	104.320	120.092	-72.837	1.00	77.22	A	C
ATOM	1752	CD	PRO	A	401	105.395	121.242	-74.690	1.00	77.22	A	C
ATOM	1753	CB	PRO	A	401	103.302	120.429	-73.936	1.00	77.22	A	C
ATOM	1754	CG	PRO	A	401	103.933	121.524	-74.740	1.00	77.22	A	C
ATOM	1755	C	PRO	A	401	104.436	118.579	-72.688	1.00	77.22	A	C
ATOM	1756	O	PRO	A	401	103.769	117.992	-71.836	1.00	77.22	A	O
ATOM	1757	N	VAL	A	402	105.276	117.961	-73.512	1.00	140.00	A	N
ATOM	1758	CA	VAL	A	402	105.438	116.510	-73.499	1.00	140.00	A	C
ATOM	1759	CB	VAL	A	402	106.412	116.030	-74.598	1.00	140.00	A	C
ATOM	1760	CG1	VAL	A	402	106.646	114.532	-74.482	1.00	140.00	A	C
ATOM	1761	CG2	VAL	A	402	105.876	116.388	-75.974	1.00	140.00	A	C
ATOM	1762	C	VAL	A	402	105.885	115.967	-72.138	1.00	140.00	A	C
ATOM	1763	O	VAL	A	402	105.234	115.081	-71.585	1.00	140.00	A	O
ATOM	1764	N	PRO	A	403	106.995	116.495	-71.594	1.00	65.75	A	N
ATOM	1765	CA	PRO	A	403	107.503	115.998	-70.310	1.00	65.75	A	C
ATOM	1766	CD	PRO	A	403	107.844	117.570	-72.138	1.00	65.75	A	C
ATOM	1767	CB	PRO	A	403	108.591	117.012	-69.954	1.00	65.75	A	C
ATOM	1768	CG	PRO	A	403	109.066	117.514	-71.267	1.00	65.75	A	C
ATOM	1769	C	PRO	A	403	106.430	115.977	-69.226	1.00	65.75	A	C
ATOM	1770	O	PRO	A	403	106.399	115.055	-68.411	1.00	65.75	A	O
ATOM	1771	N	VAL	A	404	105.562	116.984	-69.220	1.00	38.19	A	N
ATOM	1772	CA	VAL	A	404	104.489	117.061	-68.236	1.00	38.19	A	C
ATOM	1773	CB	VAL	A	404	103.749	118.410	-68.312	1.00	38.19	A	C
ATOM	1774	CG1	VAL	A	404	102.627	118.458	-67.287	1.00	38.19	A	C
ATOM	1775	CG2	VAL	A	404	104.722	119.559	-68.100	1.00	38.19	A	C
ATOM	1776	C	VAL	A	404	103.488	115.928	-68.433	1.00	38.19	A	C
ATOM	1777	O	VAL	A	404	103.054	115.294	-67.471	1.00	38.19	A	O
ATOM	1778	N	ILE	A	405	103.127	115.677	-69.687	1.00	45.11	A	N
ATOM	1779	CA	ILE	A	405	102.197	114.605	-70.019	1.00	45.11	A	C
ATOM	1780	CB	ILE	A	405	101.797	114.651	-71.506	1.00	45.11	A	C
ATOM	1781	CG2	ILE	A	405	100.802	113.548	-71.828	1.00	45.11	A	C
ATOM	1782	CG1	ILE	A	405	101.216	116.021	-71.860	1.00	45.11	A	C
ATOM	1783	CD1	ILE	A	405	100.793	116.152	-73.308	1.00	45.11	A	C
ATOM	1784	C	ILE	A	405	102.806	113.243	-69.702	1.00	45.11	A	C
ATOM	1785	O	ILE	A	405	102.099	112.306	-69.329	1.00	45.11	A	O
ATOM	1786	N	VAL	A	406	104.123	113.143	-69.850	1.00	96.58	A	N
ATOM	1787	CA	VAL	A	406	104.835	111.900	-69.578	1.00	96.58	A	C
ATOM	1788	CB	VAL	A	406	106.315	111.995	-69.994	1.00	96.58	A	C
ATOM	1789	CG1	VAL	A	406	107.058	110.727	-69.605	1.00	96.58	A	C
ATOM	1790	CG2	VAL	A	406	106.431	112.252	-71.488	1.00	96.58	A	C
ATOM	1791	C	VAL	A	406	104.756	111.527	-68.101	1.00	96.58	A	C
ATOM	1792	O	VAL	A	406	104.487	110.377	-67.755	1.00	96.58	A	O
ATOM	1793	N	SER	A	407	104.993	112.507	-67.235	1.00	31.59	A	N
ATOM	1794	CA	SER	A	407	104.954	112.287	-65.794	1.00	31.59	A	C
ATOM	1795	CB	SER	A	407	105.278	113.581	-65.046	1.00	31.59	A	C
ATOM	1796	OG	SER	A	407	105.264	113.378	-63.644	1.00	31.59	A	O
ATOM	1797	C	SER	A	407	103.595	111.753	-65.354	1.00	31.59	A	C
ATOM	1798	O	SER	A	407	103.507	110.924	-64.447	1.00	31.59	A	O
ATOM	1799	N	ASN	A	408	102.538	112.233	-66.000	1.00	49.82	A	N
ATOM	1800	CA	ASN	A	408	101.183	111.794	-65.688	1.00	49.82	A	C
ATOM	1801	CB	ASN	A	408	100.161	112.833	-66.154	1.00	49.82	A	C
ATOM	1802	CG	ASN	A	408	100.349	114.177	-65.479	1.00	49.82	A	C
ATOM	1803	OD1	ASN	A	408	100.794	114.252	-64.333	1.00	49.82	A	O
ATOM	1804	ND2	ASN	A	408	100.012	115.248	-66.187	1.00	49.82	A	N
ATOM	1805	C	ASN	A	408	100.869	110.434	-66.300	1.00	49.82	A	C
ATOM	1806	O	ASN	A	408	100.082	109.662	-65.753	1.00	49.82	A	O
ATOM	1807	N	PHE	A	409	101.492	110.146	-67.439	1.00	43.30	A	N
ATOM	1808	CA	PHE	A	409	101.297	108.870	-68.118	1.00	43.30	A	C

ATOM	1809	CB	PHE	A	409	101.911	108.910	-69.519	1.00	43.30	A	C
ATOM	1810	CG	PHE	A	409	101.763	107.625	-70.283	1.00	43.30	A	C
ATOM	1811	CD1	PHE	A	409	100.619	107.370	-71.021	1.00	43.30	A	C
ATOM	1812	CD2	PHE	A	409	102.769	106.673	-70.267	1.00	43.30	A	C
ATOM	1813	CE1	PHE	A	409	100.480	106.190	-71.727	1.00	43.30	A	C
ATOM	1814	CE2	PHE	A	409	102.636	105.490	-70.969	1.00	43.30	A	C
ATOM	1815	CZ	PHE	A	409	101.490	105.249	-71.700	1.00	43.30	A	C
ATOM	1816	C	PHE	A	409	101.899	107.725	-67.311	1.00	43.30	A	C
ATOM	1817	O	PHE	A	409	101.284	106.669	-67.161	1.00	43.30	A	O
ATOM	1818	N	SER	A	410	103.104	107.941	-66.793	1.00	71.88	A	N
ATOM	1819	CA	SER	A	410	103.779	106.935	-65.983	1.00	71.88	A	C
ATOM	1820	CB	SER	A	410	105.254	107.297	-65.795	1.00	71.88	A	C
ATOM	1821	OG	SER	A	410	105.923	107.374	-67.042	1.00	71.88	A	O
ATOM	1822	C	SER	A	410	103.099	106.786	-64.626	1.00	71.88	A	C
ATOM	1823	O	SER	A	410	103.179	105.734	-63.992	1.00	71.88	A	O
ATOM	1824	N	ARG	A	411	102.430	107.847	-64.188	1.00	148.46	A	N
ATOM	1825	CA	ARG	A	411	101.719	107.835	-62.915	1.00	148.46	A	C
ATOM	1826	CB	ARG	A	411	101.294	109.252	-62.527	1.00	148.46	A	C
ATOM	1827	CG	ARG	A	411	100.520	109.334	-61.222	1.00	148.46	A	C
ATOM	1828	CD	ARG	A	411	100.116	110.766	-60.909	1.00	148.46	A	C
ATOM	1829	NE	ARG	A	411	99.356	110.862	-59.666	1.00	148.46	A	N
ATOM	1830	CZ	ARG	A	411	98.032	110.770	-59.591	1.00	148.46	A	C
ATOM	1831	NH1	ARG	A	411	97.316	110.578	-60.690	1.00	148.46	A	N
ATOM	1832	NH2	ARG	A	411	97.424	110.869	-58.417	1.00	148.46	A	N
ATOM	1833	C	ARG	A	411	100.500	106.922	-62.980	1.00	148.46	A	C
ATOM	1834	O	ARG	A	411	100.287	106.089	-62.099	1.00	148.46	A	O
ATOM	1835	N	ILE	A	412	99.702	107.085	-64.031	1.00	95.71	A	N
ATOM	1836	CA	ILE	A	412	98.509	106.269	-64.224	1.00	95.71	A	C
ATOM	1837	CB	ILE	A	412	97.635	106.812	-65.371	1.00	95.71	A	C
ATOM	1838	CG2	ILE	A	412	96.381	105.967	-65.534	1.00	95.71	A	C
ATOM	1839	CG1	ILE	A	412	97.270	108.276	-65.117	1.00	95.71	A	C
ATOM	1840	CD1	ILE	A	412	96.490	108.499	-63.840	1.00	95.71	A	C
ATOM	1841	C	ILE	A	412	98.881	104.820	-64.521	1.00	95.71	A	C
ATOM	1842	O	ILE	A	412	98.198	103.892	-64.088	1.00	95.71	A	O
ATOM	1843	N	TYR	A	413	99.970	104.635	-65.260	1.00	110.37	A	N
ATOM	1844	CA	TYR	A	413	100.435	103.301	-65.618	1.00	110.37	A	C
ATOM	1845	CB	TYR	A	413	101.614	103.388	-66.589	1.00	110.37	A	C
ATOM	1846	CG	TYR	A	413	102.116	102.045	-67.070	1.00	110.37	A	C
ATOM	1847	CD1	TYR	A	413	101.607	101.466	-68.225	1.00	110.37	A	C
ATOM	1848	CD2	TYR	A	413	103.098	101.357	-66.370	1.00	110.37	A	C
ATOM	1849	CE1	TYR	A	413	102.062	100.239	-68.669	1.00	110.37	A	C
ATOM	1850	CE2	TYR	A	413	103.559	100.129	-66.806	1.00	110.37	A	C
ATOM	1851	CZ	TYR	A	413	103.038	99.575	-67.956	1.00	110.37	A	C
ATOM	1852	OH	TYR	A	413	103.495	98.353	-68.393	1.00	110.37	A	O
ATOM	1853	C	TYR	A	413	100.833	102.505	-64.379	1.00	110.37	A	C
ATOM	1854	O	TYR	A	413	100.413	101.361	-64.204	1.00	110.37	A	O
ATOM	1855	N	HIS	A	414	101.643	103.119	-63.523	1.00	72.45	A	N
ATOM	1856	CA	HIS	A	414	102.100	102.469	-62.299	1.00	72.45	A	C
ATOM	1857	ND1	HIS	A	414	104.729	102.879	-63.750	1.00	72.45	A	N
ATOM	1858	CG	HIS	A	414	104.458	103.377	-62.520	1.00	72.45	A	C
ATOM	1859	CB	HIS	A	414	103.238	103.267	-61.659	1.00	72.45	A	C
ATOM	1860	NE2	HIS	A	414	106.495	103.997	-63.085	1.00	72.45	A	N
ATOM	1861	CD2	HIS	A	414	105.583	104.071	-62.131	1.00	72.45	A	C
ATOM	1862	CE1	HIS	A	414	106.002	103.279	-64.078	1.00	72.45	A	C
ATOM	1863	C	HIS	A	414	100.956	102.294	-61.306	1.00	72.45	A	C
ATOM	1864	O	HIS	A	414	101.003	101.423	-60.437	1.00	72.45	A	O
ATOM	1865	N	GLN	A	415	99.930	103.128	-61.440	1.00	74.19	A	N
ATOM	1866	CA	GLN	A	415	98.768	103.060	-60.563	1.00	74.19	A	C
ATOM	1867	CB	GLN	A	415	97.916	104.323	-60.702	1.00	74.19	A	C
ATOM	1868	CG	GLN	A	415	96.682	104.342	-59.816	1.00	74.19	A	C
ATOM	1869	CD	GLN	A	415	95.882	105.620	-59.961	1.00	74.19	A	C
ATOM	1870	OE1	GLN	A	415	96.232	106.499	-60.750	1.00	74.19	A	O
ATOM	1871	NE2	GLN	A	415	94.801	105.733	-59.199	1.00	74.19	A	N
ATOM	1872	C	GLN	A	415	97.928	101.824	-60.867	1.00	74.19	A	C
ATOM	1873	O	GLN	A	415	97.391	101.187	-59.961	1.00	74.19	A	O
ATOM	1874	N	ASN	A	416	97.822	101.490	-62.149	1.00	34.42	A	N
ATOM	1875	CA	ASN	A	416	97.056	100.327	-62.579	1.00	34.42	A	C
ATOM	1876	CB	ASN	A	416	96.618	100.487	-64.038	1.00	34.42	A	C

ATOM	1877	CG	ASN	A	416	95.619	99.428	-64.470	1.00	34.42	A	C
ATOM	1878	OD1	ASN	A	416	95.618	98.310	-63.957	1.00	34.42	A	O
ATOM	1879	ND2	ASN	A	416	94.761	99.780	-65.421	1.00	34.42	A	N
ATOM	1880	C	ASN	A	416	97.850	99.036	-62.403	1.00	34.42	A	C
ATOM	1881	O	ASN	A	416	97.339	98.046	-61.878	1.00	34.42	A	O
ATOM	1882	N	GLN	A	417	99.103	99.056	-62.843	1.00	41.97	A	N
ATOM	1883	CA	GLN	A	417	99.970	97.888	-62.746	1.00	41.97	A	C
ATOM	1884	CB	GLN	A	417	101.282	98.133	-63.495	1.00	41.97	A	C
ATOM	1885	CG	GLN	A	417	102.244	96.956	-63.472	1.00	41.97	A	C
ATOM	1886	CD	GLN	A	417	101.723	95.758	-64.243	1.00	41.97	A	C
ATOM	1887	OE1	GLN	A	417	100.765	95.996	-65.131	1.00	41.97	A	O
ATOM	1888	NE2	GLN	A	417	102.181	94.632	-64.047	1.00	41.97	A	N
ATOM	1889	C	GLN	A	417	100.255	97.534	-61.290	1.00	41.97	A	C
ATOM	1890	O	GLN	A	417	100.289	98.405	-60.421	1.00	41.97	A	O
ATOM	1891	OXT	GLN	A	417	100.460	96.370	-60.946	1.00	41.97	A	O
TER												
ATOM	1892	N	PHE	B	175	136.869	79.300	-69.218	1.00	80.84	B	N
ATOM	1893	CA	PHE	B	175	135.886	79.450	-70.285	1.00	80.84	B	C
ATOM	1894	CB	PHE	B	175	135.341	78.084	-70.707	1.00	80.84	B	C
ATOM	1895	CG	PHE	B	175	136.397	77.136	-71.197	1.00	80.84	B	C
ATOM	1896	CD1	PHE	B	175	136.780	77.133	-72.527	1.00	80.84	B	C
ATOM	1897	CD2	PHE	B	175	137.007	76.248	-70.327	1.00	80.84	B	C
ATOM	1898	CE1	PHE	B	175	137.752	76.262	-72.981	1.00	80.84	B	C
ATOM	1899	CE2	PHE	B	175	137.980	75.375	-70.775	1.00	80.84	B	C
ATOM	1900	CZ	PHE	B	175	138.353	75.382	-72.104	1.00	80.84	B	C
ATOM	1901	C	PHE	B	175	134.742	80.361	-69.855	1.00	80.84	B	C
ATOM	1902	O	PHE	B	175	133.966	80.834	-70.685	1.00	80.84	B	O
ATOM	1903	N	GLU	B	176	134.643	80.603	-68.552	1.00	133.93	B	N
ATOM	1904	CA	GLU	B	176	133.594	81.457	-68.009	1.00	133.93	B	C
ATOM	1905	CB	GLU	B	176	132.703	80.667	-67.049	1.00	133.93	B	C
ATOM	1906	CG	GLU	B	176	132.003	79.477	-67.687	1.00	133.93	B	C
ATOM	1907	CD	GLU	B	176	131.120	78.726	-66.710	1.00	133.93	B	C
ATOM	1908	OE1	GLU	B	176	131.058	79.131	-65.530	1.00	133.93	B	O
ATOM	1909	OE2	GLU	B	176	130.487	77.730	-67.121	1.00	133.93	B	O
ATOM	1910	C	GLU	B	176	134.187	82.668	-67.296	1.00	133.93	B	C
ATOM	1911	O	GLU	B	176	133.516	83.684	-67.113	1.00	133.93	B	O
ATOM	1912	N	ASN	B	177	135.450	82.553	-66.898	1.00	62.69	B	N
ATOM	1913	CA	ASN	B	177	136.135	83.636	-66.201	1.00	62.69	B	C
ATOM	1914	CB	ASN	B	177	136.285	83.304	-64.715	1.00	62.69	B	C
ATOM	1915	CG	ASN	B	177	134.950	83.079	-64.031	1.00	62.69	B	C
ATOM	1916	OD1	ASN	B	177	134.343	84.013	-63.505	1.00	62.69	B	O
ATOM	1917	ND2	ASN	B	177	134.485	81.835	-64.035	1.00	62.69	B	N
ATOM	1918	C	ASN	B	177	137.500	83.941	-66.810	1.00	62.69	B	C
ATOM	1919	O	ASN	B	177	138.520	83.430	-66.347	1.00	62.69	B	O
ATOM	1920	N	PRO	B	178	137.520	84.780	-67.857	1.00	73.65	B	N
ATOM	1921	CA	PRO	B	178	138.754	85.176	-68.544	1.00	73.65	B	C
ATOM	1922	CD	PRO	B	178	136.325	85.358	-68.492	1.00	73.65	B	C
ATOM	1923	CB	PRO	B	178	138.255	86.136	-69.629	1.00	73.65	B	C
ATOM	1924	CG	PRO	B	178	136.828	85.765	-69.840	1.00	73.65	B	C
ATOM	1925	C	PRO	B	178	139.722	85.902	-67.615	1.00	73.65	B	C
ATOM	1926	O	PRO	B	178	140.899	86.049	-67.946	1.00	73.65	B	O
ATOM	1927	N	HIS	B	179	139.227	86.351	-66.466	1.00	64.97	B	N
ATOM	1928	CA	HIS	B	179	140.052	87.081	-65.509	1.00	64.97	B	C
ATOM	1929	ND1	HIS	B	179	137.618	88.810	-66.535	1.00	64.97	B	N
ATOM	1930	CG	HIS	B	179	138.539	89.116	-65.556	1.00	64.97	B	C
ATOM	1931	CB	HIS	B	179	139.201	88.072	-64.712	1.00	64.97	B	C
ATOM	1932	NE2	HIS	B	179	137.825	90.943	-66.543	1.00	64.97	B	N
ATOM	1933	CD2	HIS	B	179	138.665	90.465	-65.567	1.00	64.97	B	C
ATOM	1934	CE1	HIS	B	179	137.205	89.924	-67.112	1.00	64.97	B	C
ATOM	1935	C	HIS	B	179	140.783	86.138	-64.558	1.00	64.97	B	C
ATOM	1936	O	HIS	B	179	141.437	86.582	-63.614	1.00	64.97	B	O
ATOM	1937	N	THR	B	180	140.669	84.838	-64.810	1.00	98.23	B	N
ATOM	1938	CA	THR	B	180	141.325	83.839	-63.974	1.00	98.23	B	C
ATOM	1939	CB	THR	B	180	140.821	82.417	-64.288	1.00	98.23	B	C
ATOM	1940	OG1	THR	B	180	139.426	82.321	-63.976	1.00	98.23	B	O
ATOM	1941	CG2	THR	B	180	141.589	81.389	-63.471	1.00	98.23	B	C
ATOM	1942	C	THR	B	180	142.840	83.880	-64.141	1.00	98.23	B	C
ATOM	1943	O	THR	B	180	143.579	83.986	-63.162	1.00	98.23	B	O

ATOM	1944	N	SER	B	181	143.296	83.798	-65.386	1.00	37.88	B	N
ATOM	1945	CA	SER	B	181	144.724	83.822	-65.681	1.00	37.88	B	C
ATOM	1946	CB	SER	B	181	145.313	82.413	-65.587	1.00	37.88	B	C
ATOM	1947	OG	SER	B	181	144.677	81.533	-66.497	1.00	37.88	B	O
ATOM	1948	C	SER	B	181	144.993	84.411	-67.061	1.00	37.88	B	C
ATOM	1949	O	SER	B	181	144.073	84.864	-67.744	1.00	37.88	B	O
ATOM	1950	N	THR	B	182	146.259	84.403	-67.466	1.00	92.23	B	N
ATOM	1951	CA	THR	B	182	146.651	84.928	-68.768	1.00	92.23	B	C
ATOM	1952	CB	THR	B	182	148.183	85.006	-68.907	1.00	92.23	B	C
ATOM	1953	OG1	THR	B	182	148.716	85.859	-67.887	1.00	92.23	B	O
ATOM	1954	CG2	THR	B	182	148.567	85.555	-70.273	1.00	92.23	B	C
ATOM	1955	C	THR	B	182	146.089	84.071	-69.896	1.00	92.23	B	C
ATOM	1956	O	THR	B	182	145.561	84.592	-70.879	1.00	92.23	B	O
ATOM	1957	N	MET	B	183	146.205	82.755	-69.749	1.00	58.27	B	N
ATOM	1958	CA	MET	B	183	145.696	81.824	-70.748	1.00	58.27	B	C
ATOM	1959	CB	MET	B	183	146.067	80.386	-70.381	1.00	58.27	B	C
ATOM	1960	CG	MET	B	183	147.564	80.133	-70.295	1.00	58.27	B	C
ATOM	1961	SD	MET	B	183	147.962	78.422	-69.890	1.00	58.27	B	S
ATOM	1962	CE	MET	B	183	147.220	77.563	-71.276	1.00	58.27	B	C
ATOM	1963	C	MET	B	183	144.184	81.957	-70.895	1.00	58.27	B	C
ATOM	1964	O	MET	B	183	143.637	81.767	-71.981	1.00	58.27	B	O
ATOM	1965	N	ALA	B	184	143.515	82.285	-69.795	1.00	28.36	B	N
ATOM	1966	CA	ALA	B	184	142.070	82.477	-69.806	1.00	28.36	B	C
ATOM	1967	CB	ALA	B	184	141.539	82.590	-68.387	1.00	28.36	B	C
ATOM	1968	C	ALA	B	184	141.698	83.713	-70.617	1.00	28.36	B	C
ATOM	1969	O	ALA	B	184	140.622	83.777	-71.212	1.00	28.36	B	O
ATOM	1970	N	LEU	B	185	142.596	84.692	-70.636	1.00	114.45	B	N
ATOM	1971	CA	LEU	B	185	142.377	85.918	-71.393	1.00	114.45	B	C
ATOM	1972	CB	LEU	B	185	143.259	87.046	-70.855	1.00	114.45	B	C
ATOM	1973	CG	LEU	B	185	143.060	88.429	-71.478	1.00	114.45	B	C
ATOM	1974	CD1	LEU	B	185	141.623	88.895	-71.305	1.00	114.45	B	C
ATOM	1975	CD2	LEU	B	185	144.029	89.433	-70.874	1.00	114.45	B	C
ATOM	1976	C	LEU	B	185	142.658	85.691	-72.875	1.00	114.45	B	C
ATOM	1977	O	LEU	B	185	142.104	86.376	-73.734	1.00	114.45	B	O
ATOM	1978	N	VAL	B	186	143.523	84.725	-73.166	1.00	33.25	B	N
ATOM	1979	CA	VAL	B	186	143.855	84.384	-74.544	1.00	33.25	B	C
ATOM	1980	CB	VAL	B	186	144.998	83.354	-74.613	1.00	33.25	B	C
ATOM	1981	CG1	VAL	B	186	145.248	82.935	-76.054	1.00	33.25	B	C
ATOM	1982	CG2	VAL	B	186	146.262	83.924	-73.989	1.00	33.25	B	C
ATOM	1983	C	VAL	B	186	142.634	83.828	-75.267	1.00	33.25	B	C
ATOM	1984	O	VAL	B	186	142.322	84.236	-76.386	1.00	33.25	B	O
ATOM	1985	N	PHE	B	187	141.943	82.899	-74.615	1.00	90.63	B	N
ATOM	1986	CA	PHE	B	187	140.740	82.298	-75.176	1.00	90.63	B	C
ATOM	1987	CB	PHE	B	187	140.237	81.171	-74.271	1.00	90.63	B	C
ATOM	1988	CG	PHE	B	187	139.038	80.446	-74.811	1.00	90.63	B	C
ATOM	1989	CD1	PHE	B	187	139.190	79.406	-75.712	1.00	90.63	B	C
ATOM	1990	CD2	PHE	B	187	137.759	80.801	-74.415	1.00	90.63	B	C
ATOM	1991	CE1	PHE	B	187	138.089	78.735	-76.211	1.00	90.63	B	C
ATOM	1992	CE2	PHE	B	187	136.654	80.134	-74.910	1.00	90.63	B	C
ATOM	1993	CZ	PHE	B	187	136.820	79.099	-75.809	1.00	90.63	B	C
ATOM	1994	C	PHE	B	187	139.649	83.347	-75.370	1.00	90.63	B	C
ATOM	1995	O	PHE	B	187	138.729	83.161	-76.166	1.00	90.63	B	O
ATOM	1996	N	TYR	B	188	139.761	84.450	-74.637	1.00	111.20	B	N
ATOM	1997	CA	TYR	B	188	138.795	85.538	-74.730	1.00	111.20	B	C
ATOM	1998	CB	TYR	B	188	138.980	86.517	-73.569	1.00	111.20	B	C
ATOM	1999	CG	TYR	B	188	138.032	87.696	-73.594	1.00	111.20	B	C
ATOM	2000	CD1	TYR	B	188	136.769	87.609	-73.024	1.00	111.20	B	C
ATOM	2001	CD2	TYR	B	188	138.403	88.898	-74.182	1.00	111.20	B	C
ATOM	2002	CE1	TYR	B	188	135.901	88.685	-73.043	1.00	111.20	B	C
ATOM	2003	CE2	TYR	B	188	137.542	89.978	-74.206	1.00	111.20	B	C
ATOM	2004	CZ	TYR	B	188	136.293	89.866	-73.636	1.00	111.20	B	C
ATOM	2005	OH	TYR	B	188	135.433	90.940	-73.657	1.00	111.20	B	O
ATOM	2006	C	TYR	B	188	138.917	86.269	-76.064	1.00	111.20	B	C
ATOM	2007	O	TYR	B	188	137.915	86.551	-76.721	1.00	111.20	B	O
ATOM	2008	N	TYR	B	189	140.149	86.575	-76.458	1.00	99.31	B	N
ATOM	2009	CA	TYR	B	189	140.399	87.263	-77.720	1.00	99.31	B	C
ATOM	2010	CB	TYR	B	189	141.788	87.906	-77.721	1.00	99.31	B	C
ATOM	2011	CG	TYR	B	189	141.915	89.095	-76.795	1.00	99.31	B	C

ATOM	2012	CD1	TYR	B	189	142.353	88.938	-75.487	1.00	99.31	B	C
ATOM	2013	CD2	TYR	B	189	141.596	90.374	-77.229	1.00	99.31	B	C
ATOM	2014	CE1	TYR	B	189	142.470	90.023	-74.638	1.00	99.31	B	C
ATOM	2015	CE2	TYR	B	189	141.710	91.464	-76.388	1.00	99.31	B	C
ATOM	2016	CZ	TYR	B	189	142.147	91.283	-75.094	1.00	99.31	B	C
ATOM	2017	OH	TYR	B	189	142.262	92.366	-74.253	1.00	99.31	B	O
ATOM	2018	C	TYR	B	189	140.254	86.319	-78.910	1.00	99.31	B	C
ATOM	2019	O	TYR	B	189	139.728	86.703	-79.955	1.00	99.31	B	O
ATOM	2020	N	VAL	B	190	140.724	85.087	-78.747	1.00	25.67	B	N
ATOM	2021	CA	VAL	B	190	140.623	84.084	-79.802	1.00	25.67	B	C
ATOM	2022	CB	VAL	B	190	141.222	82.734	-79.362	1.00	25.67	B	C
ATOM	2023	CG1	VAL	B	190	140.915	81.657	-80.391	1.00	25.67	B	C
ATOM	2024	CG2	VAL	B	190	142.722	82.864	-79.146	1.00	25.67	B	C
ATOM	2025	C	VAL	B	190	139.173	83.877	-80.223	1.00	25.67	B	C
ATOM	2026	O	VAL	B	190	138.855	83.878	-81.412	1.00	25.67	B	O
ATOM	2027	N	THR	B	191	138.296	83.703	-79.240	1.00	113.27	B	N
ATOM	2028	CA	THR	B	191	136.875	83.517	-79.505	1.00	113.27	B	C
ATOM	2029	CB	THR	B	191	136.083	83.278	-78.206	1.00	113.27	B	C
ATOM	2030	OG1	THR	B	191	136.563	82.092	-77.561	1.00	113.27	B	O
ATOM	2031	CG2	THR	B	191	134.600	83.121	-78.505	1.00	113.27	B	C
ATOM	2032	C	THR	B	191	136.292	84.726	-80.229	1.00	113.27	B	C
ATOM	2033	O	THR	B	191	135.623	84.584	-81.252	1.00	113.27	B	O
ATOM	2034	N	GLY	B	192	136.556	85.913	-79.693	1.00	21.76	B	N
ATOM	2035	CA	GLY	B	192	136.057	87.146	-80.274	1.00	21.76	B	C
ATOM	2036	C	GLY	B	192	136.442	87.316	-81.731	1.00	21.76	B	C
ATOM	2037	O	GLY	B	192	135.729	87.963	-82.498	1.00	21.76	B	O
ATOM	2038	N	PHE	B	193	137.574	86.733	-82.113	1.00	45.84	B	N
ATOM	2039	CA	PHE	B	193	138.045	86.808	-83.491	1.00	45.84	B	C
ATOM	2040	CB	PHE	B	193	139.513	86.387	-83.584	1.00	45.84	B	C
ATOM	2041	CG	PHE	B	193	140.460	87.332	-82.900	1.00	45.84	B	C
ATOM	2042	CD1	PHE	B	193	140.081	88.634	-82.623	1.00	45.84	B	C
ATOM	2043	CD2	PHE	B	193	141.731	86.918	-82.536	1.00	45.84	B	C
ATOM	2044	CE1	PHE	B	193	140.950	89.506	-81.995	1.00	45.84	B	C
ATOM	2045	CE2	PHE	B	193	142.604	87.784	-81.907	1.00	45.84	B	C
ATOM	2046	CZ	PHE	B	193	142.213	89.080	-81.636	1.00	45.84	B	C
ATOM	2047	C	PHE	B	193	137.188	85.950	-84.417	1.00	45.84	B	C
ATOM	2048	O	PHE	B	193	136.773	86.399	-85.484	1.00	45.84	B	O
ATOM	2049	N	PHE	B	194	136.926	84.714	-84.001	1.00	127.60	B	N
ATOM	2050	CA	PHE	B	194	136.098	83.804	-84.785	1.00	127.60	B	C
ATOM	2051	CB	PHE	B	194	136.085	82.407	-84.160	1.00	127.60	B	C
ATOM	2052	CG	PHE	B	194	137.360	81.639	-84.365	1.00	127.60	B	C
ATOM	2053	CD1	PHE	B	194	138.391	81.721	-83.445	1.00	127.60	B	C
ATOM	2054	CD2	PHE	B	194	137.525	80.832	-85.479	1.00	127.60	B	C
ATOM	2055	CE1	PHE	B	194	139.565	81.014	-83.633	1.00	127.60	B	C
ATOM	2056	CE2	PHE	B	194	138.696	80.123	-85.672	1.00	127.60	B	C
ATOM	2057	CZ	PHE	B	194	139.717	80.214	-84.747	1.00	127.60	B	C
ATOM	2058	C	PHE	B	194	134.673	84.330	-84.928	1.00	127.60	B	C
ATOM	2059	O	PHE	B	194	134.009	84.081	-85.934	1.00	127.60	B	O
ATOM	2060	N	ILE	B	195	134.209	85.058	-83.917	1.00	36.34	B	N
ATOM	2061	CA	ILE	B	195	132.874	85.642	-83.947	1.00	36.34	B	C
ATOM	2062	CB	ILE	B	195	132.480	86.225	-82.578	1.00	36.34	B	C
ATOM	2063	CG2	ILE	B	195	131.043	86.720	-82.603	1.00	36.34	B	C
ATOM	2064	CG1	ILE	B	195	132.669	85.181	-81.477	1.00	36.34	B	C
ATOM	2065	CD1	ILE	B	195	132.411	85.712	-80.084	1.00	36.34	B	C
ATOM	2066	C	ILE	B	195	132.800	86.747	-84.994	1.00	36.34	B	C
ATOM	2067	O	ILE	B	195	131.776	86.927	-85.652	1.00	36.34	B	O
ATOM	2068	N	ALA	B	196	133.896	87.484	-85.142	1.00	30.78	B	N
ATOM	2069	CA	ALA	B	196	133.966	88.565	-86.117	1.00	30.78	B	C
ATOM	2070	CB	ALA	B	196	135.119	89.501	-85.788	1.00	30.78	B	C
ATOM	2071	C	ALA	B	196	134.113	88.016	-87.532	1.00	30.78	B	C
ATOM	2072	O	ALA	B	196	133.424	88.456	-88.453	1.00	30.78	B	O
ATOM	2073	N	VAL	B	197	135.012	87.051	-87.696	1.00	86.02	B	N
ATOM	2074	CA	VAL	B	197	135.254	86.438	-88.998	1.00	86.02	B	C
ATOM	2075	CB	VAL	B	197	136.395	85.403	-88.931	1.00	86.02	B	C
ATOM	2076	CG1	VAL	B	197	136.562	84.709	-90.274	1.00	86.02	B	C
ATOM	2077	CG2	VAL	B	197	137.693	86.071	-88.505	1.00	86.02	B	C
ATOM	2078	C	VAL	B	197	133.995	85.767	-89.538	1.00	86.02	B	C
ATOM	2079	O	VAL	B	197	133.707	85.838	-90.732	1.00	86.02	B	O

ATOM	2080	N	SER	B	198	133.248	85.118	-88.651	1.00	41.44	B	N
ATOM	2081	CA	SER	B	198	132.019	84.437	-89.040	1.00	41.44	B	C
ATOM	2082	CB	SER	B	198	131.444	83.649	-87.860	1.00	41.44	B	C
ATOM	2083	OG	SER	B	198	131.123	84.508	-86.780	1.00	41.44	B	O
ATOM	2084	C	SER	B	198	130.982	85.423	-89.570	1.00	41.44	B	C
ATOM	2085	O	SER	B	198	130.161	85.076	-90.419	1.00	41.44	B	O
ATOM	2086	N	VAL	B	199	131.027	86.652	-89.066	1.00	108.02	B	N
ATOM	2087	CA	VAL	B	199	130.105	87.695	-89.502	1.00	108.02	B	C
ATOM	2088	CB	VAL	B	199	129.937	88.790	-88.430	1.00	108.02	B	C
ATOM	2089	CG1	VAL	B	199	129.073	89.924	-88.961	1.00	108.02	B	C
ATOM	2090	CG2	VAL	B	199	129.337	88.203	-87.162	1.00	108.02	B	C
ATOM	2091	C	VAL	B	199	130.576	88.336	-90.805	1.00	108.02	B	C
ATOM	2092	O	VAL	B	199	129.785	88.548	-91.724	1.00	108.02	B	O
ATOM	2093	N	ILE	B	200	131.867	88.642	-90.876	1.00	89.21	B	N
ATOM	2094	CA	ILE	B	200	132.447	89.242	-92.072	1.00	89.21	B	C
ATOM	2095	CB	ILE	B	200	133.934	89.588	-91.869	1.00	89.21	B	C
ATOM	2096	CG2	ILE	B	200	134.525	90.168	-93.145	1.00	89.21	B	C
ATOM	2097	CG1	ILE	B	200	134.100	90.570	-90.708	1.00	89.21	B	C
ATOM	2098	CD1	ILE	B	200	133.376	91.882	-90.912	1.00	89.21	B	C
ATOM	2099	C	ILE	B	200	132.307	88.313	-93.273	1.00	89.21	B	C
ATOM	2100	O	ILE	B	200	131.868	88.730	-94.345	1.00	89.21	B	O
ATOM	2101	N	ALA	B	201	132.682	87.052	-93.085	1.00	33.80	B	N
ATOM	2102	CA	ALA	B	201	132.575	86.056	-94.145	1.00	33.80	B	C
ATOM	2103	CB	ALA	B	201	133.166	84.731	-93.691	1.00	33.80	B	C
ATOM	2104	C	ALA	B	201	131.124	85.875	-94.574	1.00	33.80	B	C
ATOM	2105	O	ALA	B	201	130.838	85.662	-95.752	1.00	33.80	B	O
ATOM	2106	N	ASN	B	202	130.212	85.963	-93.611	1.00	47.57	B	N
ATOM	2107	CA	ASN	B	202	128.787	85.847	-93.890	1.00	47.57	B	C
ATOM	2108	CB	ASN	B	202	127.976	86.009	-92.602	1.00	47.57	B	C
ATOM	2109	CG	ASN	B	202	126.510	85.658	-92.783	1.00	47.57	B	C
ATOM	2110	OD1	ASN	B	202	125.944	85.830	-93.862	1.00	47.57	B	O
ATOM	2111	ND2	ASN	B	202	125.887	85.163	-91.720	1.00	47.57	B	N
ATOM	2112	C	ASN	B	202	128.348	86.876	-94.926	1.00	47.57	B	C
ATOM	2113	O	ASN	B	202	127.578	86.569	-95.836	1.00	47.57	B	O
ATOM	2114	N	VAL	B	203	128.848	88.099	-94.781	1.00	47.39	B	N
ATOM	2115	CA	VAL	B	203	128.533	89.173	-95.714	1.00	47.39	B	C
ATOM	2116	CB	VAL	B	203	129.042	90.533	-95.198	1.00	47.39	B	C
ATOM	2117	CG1	VAL	B	203	128.703	91.638	-96.187	1.00	47.39	B	C
ATOM	2118	CG2	VAL	B	203	128.452	90.835	-93.829	1.00	47.39	B	C
ATOM	2119	C	VAL	B	203	129.140	88.896	-97.086	1.00	47.39	B	C
ATOM	2120	O	VAL	B	203	128.534	89.195	-98.116	1.00	47.39	B	O
ATOM	2121	N	VAL	B	204	130.338	88.320	-97.093	1.00	117.92	B	N
ATOM	2122	CA	VAL	B	204	131.030	88.004	-98.336	1.00	117.92	B	C
ATOM	2123	CB	VAL	B	204	132.485	87.567	-98.077	1.00	117.92	B	C
ATOM	2124	CG1	VAL	B	204	133.216	87.342	-99.392	1.00	117.92	B	C
ATOM	2125	CG2	VAL	B	204	133.208	88.607	-97.237	1.00	117.92	B	C
ATOM	2126	C	VAL	B	204	130.301	86.905	-99.105	1.00	117.92	B	C
ATOM	2127	O	VAL	B	204	130.374	86.839	-100.332	1.00	117.92	B	O
ATOM	2128	N	GLU	B	205	129.597	86.045	-98.377	1.00	86.49	B	N
ATOM	2129	CA	GLU	B	205	128.835	84.967	-98.996	1.00	86.49	B	C
ATOM	2130	CB	GLU	B	205	128.311	83.999	-97.934	1.00	86.49	B	C
ATOM	2131	CG	GLU	B	205	129.397	83.289	-97.143	1.00	86.49	B	C
ATOM	2132	CD	GLU	B	205	128.831	82.349	-96.097	1.00	86.49	B	C
ATOM	2133	OE1	GLU	B	205	127.590	82.255	-95.992	1.00	86.49	B	O
ATOM	2134	OE2	GLU	B	205	129.625	81.706	-95.380	1.00	86.49	B	O
ATOM	2135	C	GLU	B	205	127.674	85.520	-99.815	1.00	86.49	B	C
ATOM	2136	O	GLU	B	205	127.164	84.854	-100.716	1.00	86.49	B	O
ATOM	2137	N	THR	B	206	127.262	86.743	-99.497	1.00	119.91	B	N
ATOM	2138	CA	THR	B	206	126.144	87.380	-100.182	1.00	119.91	B	C
ATOM	2139	CB	THR	B	206	125.454	88.422	-99.281	1.00	119.91	B	C
ATOM	2140	OG1	THR	B	206	125.154	87.834	-98.009	1.00	119.91	B	O
ATOM	2141	CG2	THR	B	206	124.166	88.918	-99.922	1.00	119.91	B	C
ATOM	2142	C	THR	B	206	126.597	88.050	-101.476	1.00	119.91	B	C
ATOM	2143	O	THR	B	206	125.785	88.329	-102.358	1.00	119.91	B	O
ATOM	2144	N	VAL	B	207	127.898	88.306	-101.581	1.00	81.16	B	N
ATOM	2145	CA	VAL	B	207	128.471	88.916	-102.777	1.00	81.16	B	C
ATOM	2146	CB	VAL	B	207	130.012	88.834	-102.767	1.00	81.16	B	C
ATOM	2147	CG1	VAL	B	207	130.582	89.274	-104.107	1.00	81.16	B	C

ATOM	2148	CG2	VAL	B	207	130.581	89.677-101.635	1.00	81.16	B	C
ATOM	2149	C	VAL	B	207	127.936	88.249-104.040	1.00	81.16	B	C
ATOM	2150	O	VAL	B	207	127.928	87.022-104.141	1.00	81.16	B	O
ATOM	2151	N	PRO	B	208	127.480	89.062-105.006	1.00	163.31	B	N
ATOM	2152	CA	PRO	B	208	126.901	88.590-106.269	1.00	163.31	B	C
ATOM	2153	CD	PRO	B	208	127.495	90.533-104.927	1.00	163.31	B	C
ATOM	2154	CB	PRO	B	208	126.913	89.847-107.139	1.00	163.31	B	C
ATOM	2155	CG	PRO	B	208	126.750	90.956-106.166	1.00	163.31	B	C
ATOM	2156	C	PRO	B	208	127.726	87.487-106.926	1.00	163.31	B	C
ATOM	2157	O	PRO	B	208	128.679	87.775-107.650	1.00	163.31	B	O
ATOM	2158	N	CYS	B	209	127.350	86.237-106.671	1.00	122.13	B	N
ATOM	2159	CA	CYS	B	209	128.023	85.085-107.262	1.00	122.13	B	C
ATOM	2160	CB	CYS	B	209	129.465	84.982-106.761	1.00	122.13	B	C
ATOM	2161	SG	CYS	B	209	129.622	84.662-104.989	1.00	122.13	B	S
ATOM	2162	C	CYS	B	209	127.266	83.801-106.941	1.00	122.13	B	C
ATOM	2163	O	CYS	B	209	126.092	83.838-106.576	1.00	122.13	B	O
ATOM	2164	N	GLY	B	210	127.945	82.666-107.078	1.00	296.88	B	N
ATOM	2165	CA	GLY	B	210	127.345	81.378-106.784	1.00	296.88	B	C
ATOM	2166	C	GLY	B	210	126.536	80.821-107.939	1.00	296.88	B	C
ATOM	2167	O	GLY	B	210	126.547	81.370-109.041	1.00	296.88	B	O
ATOM	2168	N	SER	B	211	125.831	79.724-107.684	1.00	230.38	B	N
ATOM	2169	CA	SER	B	211	125.009	79.084-108.704	1.00	230.38	B	C
ATOM	2170	CB	SER	B	211	125.453	77.635-108.915	1.00	230.38	B	C
ATOM	2171	OG	SER	B	211	126.801	77.572-109.347	1.00	230.38	B	O
ATOM	2172	C	SER	B	211	123.530	79.129-108.332	1.00	230.38	B	C
ATOM	2173	O	SER	B	211	122.948	80.205-108.192	1.00	230.38	B	O
ATOM	2174	N	SER	B	212	122.929	77.954-108.174	1.00	146.29	B	N
ATOM	2175	CA	SER	B	212	121.517	77.856-107.817	1.00	146.29	B	C
ATOM	2176	CB	SER	B	212	120.710	77.217-108.953	1.00	146.29	B	C
ATOM	2177	OG	SER	B	212	120.783	77.998-110.134	1.00	146.29	B	O
ATOM	2178	C	SER	B	212	121.293	77.098-106.505	1.00	146.29	B	C
ATOM	2179	O	SER	B	212	120.624	77.606-105.604	1.00	146.29	B	O
ATOM	2180	N	PRO	B	213	121.852	75.881-106.389	1.00	129.39	B	N
ATOM	2181	CA	PRO	B	213	121.652	75.091-105.171	1.00	129.39	B	C
ATOM	2182	CD	PRO	B	213	122.680	75.158-107.365	1.00	129.39	B	C
ATOM	2183	CB	PRO	B	213	122.064	73.672-105.594	1.00	129.39	B	C
ATOM	2184	CG	PRO	B	213	122.332	73.739-107.081	1.00	129.39	B	C
ATOM	2185	C	PRO	B	213	122.561	75.566-104.046	1.00	129.39	B	C
ATOM	2186	O	PRO	B	213	122.329	75.236-102.884	1.00	129.39	B	O
ATOM	2187	N	GLY	B	214	123.592	76.325-104.401	1.00	105.51	B	N
ATOM	2188	CA	GLY	B	214	124.538	76.831-103.427	1.00	105.51	B	C
ATOM	2189	C	GLY	B	214	124.355	78.312-103.164	1.00	105.51	B	C
ATOM	2190	O	GLY	B	214	125.090	78.910-102.379	1.00	105.51	B	O
ATOM	2191	N	HIS	B	215	123.367	78.905-103.826	1.00	142.23	B	N
ATOM	2192	CA	HIS	B	215	123.083	80.326-103.668	1.00	142.23	B	C
ATOM	2193	ND1	HIS	B	215	123.087	83.318-104.619	1.00	142.23	B	N
ATOM	2194	CG	HIS	B	215	122.136	82.351-104.862	1.00	142.23	B	C
ATOM	2195	CB	HIS	B	215	122.468	80.894-104.948	1.00	142.23	B	C
ATOM	2196	NE2	HIS	B	215	121.217	84.344-104.817	1.00	142.23	B	N
ATOM	2197	CD2	HIS	B	215	120.957	83.006-104.986	1.00	142.23	B	C
ATOM	2198	CE1	HIS	B	215	122.509	84.506-104.597	1.00	142.23	B	C
ATOM	2199	C	HIS	B	215	122.155	80.578-102.484	1.00	142.23	B	C
ATOM	2200	O	HIS	B	215	122.276	81.590-101.793	1.00	142.23	B	O
ATOM	2201	N	ILE	B	216	121.228	79.653-102.257	1.00	67.89	B	N
ATOM	2202	CA	ILE	B	216	120.279	79.773-101.157	1.00	67.89	B	C
ATOM	2203	CB	ILE	B	216	119.148	78.734-101.268	1.00	67.89	B	C
ATOM	2204	CG2	ILE	B	216	118.137	78.927-100.149	1.00	67.89	B	C
ATOM	2205	CG1	ILE	B	216	118.468	78.829-102.635	1.00	67.89	B	C
ATOM	2206	CD1	ILE	B	216	117.334	77.846-102.822	1.00	67.89	B	C
ATOM	2207	C	ILE	B	216	120.980	79.605-99.813	1.00	67.89	B	C
ATOM	2208	O	ILE	B	216	120.820	80.427-98.911	1.00	67.89	B	O
ATOM	2209	N	LYS	B	217	121.757	78.534-99.688	1.00	172.29	B	N
ATOM	2210	CA	LYS	B	217	122.502	78.269-98.463	1.00	172.29	B	C
ATOM	2211	CB	LYS	B	217	122.854	76.783-98.362	1.00	172.29	B	C
ATOM	2212	CG	LYS	B	217	123.444	76.367-97.023	1.00	172.29	B	C
ATOM	2213	CD	LYS	B	217	122.474	76.641-95.884	1.00	172.29	B	C
ATOM	2214	CE	LYS	B	217	123.066	76.233-94.543	1.00	172.29	B	C
ATOM	2215	NZ	LYS	B	217	122.130	76.498-93.416	1.00	172.29	B	N

ATOM	2216	C	LYS	B	217	123.767	79.120	-98.419	1.00172.29	B	C
ATOM	2217	O	LYS	B	217	124.511	79.096	-97.438	1.00172.29	B	O
ATOM	2218	N	GLU	B	218	124.000	79.870	-99.492	1.00302.48	B	N
ATOM	2219	CA	GLU	B	218	125.154	80.760	-99.590	1.00302.48	B	C
ATOM	2220	CB	GLU	B	218	125.183	81.740	-98.414	1.00302.48	B	C
ATOM	2221	CG	GLU	B	218	123.931	82.596	-98.286	1.00302.48	B	C
ATOM	2222	CD	GLU	B	218	123.736	83.531	-99.465	1.00302.48	B	C
ATOM	2223	OE1	GLU	B	218	124.679	83.683	-100.270	1.00302.48	B	O
ATOM	2224	OE2	GLU	B	218	122.639	84.115	-99.585	1.00302.48	B	O
ATOM	2225	C	GLU	B	218	126.471	79.992	-99.672	1.00302.48	B	C
ATOM	2226	O	GLU	B	218	127.542	80.591	-99.765	1.00302.48	B	O
ATOM	2227	N	LEU	B	219	126.384	78.667	-99.640	1.00167.09	B	N
ATOM	2228	CA	LEU	B	219	127.568	77.819	-99.734	1.00167.09	B	C
ATOM	2229	CB	LEU	B	219	128.417	77.925	-98.461	1.00167.09	B	C
ATOM	2230	CG	LEU	B	219	127.711	77.929	-97.101	1.00167.09	B	C
ATOM	2231	CD1	LEU	B	219	127.284	76.529	-96.689	1.00167.09	B	C
ATOM	2232	CD2	LEU	B	219	128.620	78.532	-96.042	1.00167.09	B	C
ATOM	2233	C	LEU	B	219	127.208	76.365	-100.036	1.00167.09	B	C
ATOM	2234	O	LEU	B	219	126.424	75.749	-99.316	1.00167.09	B	O
ATOM	2235	N	PRO	B	220	127.775	75.820	-101.122	1.00155.58	B	N
ATOM	2236	CA	PRO	B	220	127.549	74.429	-101.529	1.00155.58	B	C
ATOM	2237	CD	PRO	B	220	128.597	76.553	-102.099	1.00155.58	B	C
ATOM	2238	CB	PRO	B	220	128.342	74.314	-102.835	1.00155.58	B	C
ATOM	2239	CG	PRO	B	220	128.470	75.716	-103.331	1.00155.58	B	C
ATOM	2240	C	PRO	B	220	128.096	73.445	-100.500	1.00155.58	B	C
ATOM	2241	O	PRO	B	220	129.309	73.255	-100.414	1.00155.58	B	O
ATOM	2242	N	CYS	B	221	127.206	72.827	-99.730	1.00 60.66	B	N
ATOM	2243	CA	CYS	B	221	127.613	71.868	-98.710	1.00 60.66	B	C
ATOM	2244	CB	CYS	B	221	126.446	71.556	-97.772	1.00 60.66	B	C
ATOM	2245	SG	CYS	B	221	125.790	72.995	-96.896	1.00 60.66	B	S
ATOM	2246	C	CYS	B	221	128.139	70.583	-99.342	1.00 60.66	B	C
ATOM	2247	O	CYS	B	221	127.455	69.951	-100.147	1.00 60.66	B	O
ATOM	2248	N	GLY	B	222	129.358	70.204	-98.974	1.00 31.84	B	N
ATOM	2249	CA	GLY	B	222	129.977	69.005	-99.507	1.00 31.84	B	C
ATOM	2250	C	GLY	B	222	131.211	68.588	-98.730	1.00 31.84	B	C
ATOM	2251	O	GLY	B	222	131.755	69.364	-97.944	1.00 31.84	B	O
ATOM	2252	N	GLU	B	223	131.651	67.355	-98.953	1.00109.66	B	N
ATOM	2253	CA	GLU	B	223	132.832	66.826	-98.281	1.00109.66	B	C
ATOM	2254	CB	GLU	B	223	132.754	65.298	-98.192	1.00109.66	B	C
ATOM	2255	CG	GLU	B	223	133.897	64.644	-97.426	1.00109.66	B	C
ATOM	2256	CD	GLU	B	223	135.137	64.441	-98.275	1.00109.66	B	C
ATOM	2257	OE1	GLU	B	223	135.039	64.560	-99.515	1.00109.66	B	O
ATOM	2258	OE2	GLU	B	223	136.212	64.162	-97.703	1.00109.66	B	O
ATOM	2259	C	GLU	B	223	134.103	67.258	-99.006	1.00109.66	B	C
ATOM	2260	O	GLU	B	223	135.180	67.316	-98.412	1.00109.66	B	O
ATOM	2261	N	ARG	B	224	133.967	67.568	-100.291	1.00102.89	B	N
ATOM	2262	CA	ARG	B	224	135.101	67.983	-101.110	1.00102.89	B	C
ATOM	2263	CB	ARG	B	224	134.643	68.300	-102.536	1.00102.89	B	C
ATOM	2264	CG	ARG	B	224	134.005	67.127	-103.261	1.00102.89	B	C
ATOM	2265	CD	ARG	B	224	133.554	67.521	-104.658	1.00102.89	B	C
ATOM	2266	NE	ARG	B	224	132.908	66.414	-105.356	1.00102.89	B	N
ATOM	2267	CZ	ARG	B	224	132.417	66.492	-106.589	1.00102.89	B	C
ATOM	2268	NH1	ARG	B	224	132.499	67.630	-107.266	1.00102.89	B	N
ATOM	2269	NH2	ARG	B	224	131.845	65.434	-107.146	1.00102.89	B	N
ATOM	2270	C	ARG	B	224	135.822	69.190	-100.516	1.00102.89	B	C
ATOM	2271	O	ARG	B	224	137.024	69.365	-100.717	1.00102.89	B	O
ATOM	2272	N	TYR	B	225	135.080	70.019	-99.787	1.00235.34	B	N
ATOM	2273	CA	TYR	B	225	135.642	71.215	-99.167	1.00235.34	B	C
ATOM	2274	CB	TYR	B	225	136.645	70.835	-98.076	1.00235.34	B	C
ATOM	2275	CG	TYR	B	225	136.049	70.029	-96.944	1.00235.34	B	C
ATOM	2276	CD1	TYR	B	225	134.693	70.097	-96.656	1.00235.34	B	C
ATOM	2277	CD2	TYR	B	225	136.844	69.198	-96.166	1.00235.34	B	C
ATOM	2278	CE1	TYR	B	225	134.145	69.361	-95.623	1.00235.34	B	C
ATOM	2279	CE2	TYR	B	225	136.305	68.458	-95.131	1.00235.34	B	C
ATOM	2280	CZ	TYR	B	225	134.955	68.543	-94.864	1.00235.34	B	C
ATOM	2281	OH	TYR	B	225	134.414	67.808	-93.835	1.00235.34	B	O
ATOM	2282	C	TYR	B	225	136.309	72.119	-100.199	1.00235.34	B	C
ATOM	2283	O	TYR	B	225	137.375	72.680	-99.948	1.00235.34	B	O

ATOM	2284	N	ALA	B	226	135.675	72.255-101.359	1.00	79.48	B	N
ATOM	2285	CA	ALA	B	226	136.208	73.092-102.428	1.00	79.48	B	C
ATOM	2286	CB	ALA	B	226	135.621	72.678-103.769	1.00	79.48	B	C
ATOM	2287	C	ALA	B	226	135.938	74.569-102.160	1.00	79.48	B	C
ATOM	2288	O	ALA	B	226	136.843	75.399-102.240	1.00	79.48	B	O
ATOM	2289	N	VAL	B	227	134.688	74.889-101.841	1.00	226.17	B	N
ATOM	2290	CA	VAL	B	227	134.302	76.265-101.555	1.00	226.17	B	C
ATOM	2291	CB	VAL	B	227	132.773	76.408-101.430	1.00	226.17	B	C
ATOM	2292	CG1	VAL	B	227	132.400	77.841-101.083	1.00	226.17	B	C
ATOM	2293	CG2	VAL	B	227	132.095	75.973-102.720	1.00	226.17	B	C
ATOM	2294	C	VAL	B	227	134.961	76.763-100.272	1.00	226.17	B	C
ATOM	2295	O	VAL	B	227	134.807	76.159-99.210	1.00	226.17	B	O
ATOM	2296	N	ALA	B	228	135.696	77.865-100.378	1.00	52.15	B	N
ATOM	2297	CA	ALA	B	228	136.386	78.441-99.230	1.00	52.15	B	C
ATOM	2298	CB	ALA	B	228	137.314	79.559-99.676	1.00	52.15	B	C
ATOM	2299	C	ALA	B	228	135.397	78.953-98.189	1.00	52.15	B	C
ATOM	2300	O	ALA	B	228	135.681	78.943-96.991	1.00	52.15	B	O
ATOM	2301	N	PHE	B	229	134.235	79.400-98.654	1.00	68.64	B	N
ATOM	2302	CA	PHE	B	229	133.198	79.909-97.766	1.00	68.64	B	C
ATOM	2303	CB	PHE	B	229	132.032	80.479-98.576	1.00	68.64	B	C
ATOM	2304	CG	PHE	B	229	132.420	81.614-99.480	1.00	68.64	B	C
ATOM	2305	CD1	PHE	B	229	132.377	82.922-99.029	1.00	68.64	B	C
ATOM	2306	CD2	PHE	B	229	132.828	81.372-100.781	1.00	68.64	B	C
ATOM	2307	CE1	PHE	B	229	132.733	83.968-99.858	1.00	68.64	B	C
ATOM	2308	CE2	PHE	B	229	133.186	82.414-101.615	1.00	68.64	B	C
ATOM	2309	CZ	PHE	B	229	133.138	83.713-101.153	1.00	68.64	B	C
ATOM	2310	C	PHE	B	229	132.697	78.817-96.828	1.00	68.64	B	C
ATOM	2311	O	PHE	B	229	132.391	79.077-95.664	1.00	68.64	B	O
ATOM	2312	N	PHE	B	230	132.615	77.595-97.342	1.00	73.77	B	N
ATOM	2313	CA	PHE	B	230	132.159	76.460-96.549	1.00	73.77	B	C
ATOM	2314	CB	PHE	B	230	131.810	75.278-97.455	1.00	73.77	B	C
ATOM	2315	CG	PHE	B	230	131.278	74.083-96.716	1.00	73.77	B	C
ATOM	2316	CD1	PHE	B	230	129.931	73.983-96.414	1.00	73.77	B	C
ATOM	2317	CD2	PHE	B	230	132.125	73.059-96.326	1.00	73.77	B	C
ATOM	2318	CE1	PHE	B	230	129.438	72.885-95.735	1.00	73.77	B	C
ATOM	2319	CE2	PHE	B	230	131.639	71.959-95.647	1.00	73.77	B	C
ATOM	2320	CZ	PHE	B	230	130.293	71.872-95.351	1.00	73.77	B	C
ATOM	2321	C	PHE	B	230	133.215	76.047-95.531	1.00	73.77	B	C
ATOM	2322	O	PHE	B	230	132.890	75.611-94.427	1.00	73.77	B	O
ATOM	2323	N	CYS	B	231	134.481	76.186-95.911	1.00	36.96	B	N
ATOM	2324	CA	CYS	B	231	135.589	75.841-95.029	1.00	36.96	B	C
ATOM	2325	CB	CYS	B	231	136.909	75.843-95.801	1.00	36.96	B	C
ATOM	2326	SG	CYS	B	231	136.981	74.653-97.160	1.00	36.96	B	S
ATOM	2327	C	CYS	B	231	135.668	76.805-93.850	1.00	36.96	B	C
ATOM	2328	O	CYS	B	231	135.917	76.395-92.717	1.00	36.96	B	O
ATOM	2329	N	LEU	B	232	135.455	78.087-94.127	1.00	104.38	B	N
ATOM	2330	CA	LEU	B	232	135.484	79.109-93.087	1.00	104.38	B	C
ATOM	2331	CB	LEU	B	232	135.514	80.507-93.708	1.00	104.38	B	C
ATOM	2332	CG	LEU	B	232	136.721	80.835-94.590	1.00	104.38	B	C
ATOM	2333	CD1	LEU	B	232	136.584	82.224-95.194	1.00	104.38	B	C
ATOM	2334	CD2	LEU	B	232	138.013	80.715-93.797	1.00	104.38	B	C
ATOM	2335	C	LEU	B	232	134.282	78.973-92.160	1.00	104.38	B	C
ATOM	2336	O	LEU	B	232	134.402	79.129-90.945	1.00	104.38	B	O
ATOM	2337	N	ASP	B	233	133.123	78.683-92.742	1.00	58.49	B	N
ATOM	2338	CA	ASP	B	233	131.899	78.511-91.969	1.00	58.49	B	C
ATOM	2339	CB	ASP	B	233	130.699	78.320-92.900	1.00	58.49	B	C
ATOM	2340	CG	ASP	B	233	129.397	78.146-92.143	1.00	58.49	B	C
ATOM	2341	OD1	ASP	B	233	129.269	78.715-91.039	1.00	58.49	B	O
ATOM	2342	OD2	ASP	B	233	128.501	77.441-92.653	1.00	58.49	B	O
ATOM	2343	C	ASP	B	233	132.017	77.325-91.017	1.00	58.49	B	C
ATOM	2344	O	ASP	B	233	131.664	77.423-89.842	1.00	58.49	B	O
ATOM	2345	N	THR	B	234	132.518	76.207-91.532	1.00	127.80	B	N
ATOM	2346	CA	THR	B	234	132.701	75.005-90.727	1.00	127.80	B	C
ATOM	2347	CB	THR	B	234	133.165	73.814-91.588	1.00	127.80	B	C
ATOM	2348	OG1	THR	B	234	132.199	73.557-92.614	1.00	127.80	B	O
ATOM	2349	CG2	THR	B	234	133.332	72.568-90.731	1.00	127.80	B	C
ATOM	2350	C	THR	B	234	133.714	75.244-89.613	1.00	127.80	B	C
ATOM	2351	O	THR	B	234	133.571	74.720-88.508	1.00	127.80	B	O

ATOM	2352	N	ALA	B	235	134.735	76.041	-89.910	1.00	35.61	B	N
ATOM	2353	CA	ALA	B	235	135.769	76.360	-88.933	1.00	35.61	B	C
ATOM	2354	CB	ALA	B	235	136.910	77.117	-89.595	1.00	35.61	B	C
ATOM	2355	C	ALA	B	235	135.197	77.166	-87.771	1.00	35.61	B	C
ATOM	2356	O	ALA	B	235	135.532	76.923	-86.611	1.00	35.61	B	O
ATOM	2357	N	CYS	B	236	134.333	78.124	-88.089	1.00	41.29	B	N
ATOM	2358	CA	CYS	B	236	133.707	78.960	-87.072	1.00	41.29	B	C
ATOM	2359	CB	CYS	B	236	132.985	80.144	-87.719	1.00	41.29	B	C
ATOM	2360	SG	CYS	B	236	134.063	81.261	-88.647	1.00	41.29	B	S
ATOM	2361	C	CYS	B	236	132.733	78.154	-86.219	1.00	41.29	B	C
ATOM	2362	O	CYS	B	236	132.752	78.239	-84.991	1.00	41.29	B	O
ATOM	2363	N	VAL	B	237	131.882	77.373	-86.878	1.00	109.38	B	N
ATOM	2364	CA	VAL	B	237	130.908	76.542	-86.182	1.00	109.38	B	C
ATOM	2365	CB	VAL	B	237	129.969	75.823	-87.170	1.00	109.38	B	C
ATOM	2366	CG1	VAL	B	237	129.024	74.892	-86.425	1.00	109.38	B	C
ATOM	2367	CG2	VAL	B	237	129.188	76.837	-87.991	1.00	109.38	B	C
ATOM	2368	C	VAL	B	237	131.603	75.507	-85.303	1.00	109.38	B	C
ATOM	2369	O	VAL	B	237	131.126	75.180	-84.217	1.00	109.38	B	O
ATOM	2370	N	MET	B	238	132.735	74.998	-85.780	1.00	141.41	B	N
ATOM	2371	CA	MET	B	238	133.511	74.015	-85.032	1.00	141.41	B	C
ATOM	2372	CB	MET	B	238	134.753	73.600	-85.826	1.00	141.41	B	C
ATOM	2373	CG	MET	B	238	135.553	72.460	-85.207	1.00	141.41	B	C
ATOM	2374	SD	MET	B	238	136.546	72.955	-83.785	1.00	141.41	B	S
ATOM	2375	CE	MET	B	238	137.333	71.402	-83.365	1.00	141.41	B	C
ATOM	2376	C	MET	B	238	133.911	74.573	-83.672	1.00	141.41	B	C
ATOM	2377	O	MET	B	238	133.698	73.935	-82.641	1.00	141.41	B	O
ATOM	2378	N	ILE	B	239	134.491	75.769	-83.677	1.00	163.25	B	N
ATOM	2379	CA	ILE	B	239	134.912	76.423	-82.444	1.00	163.25	B	C
ATOM	2380	CB	ILE	B	239	135.646	77.746	-82.731	1.00	163.25	B	C
ATOM	2381	CG2	ILE	B	239	136.083	78.407	-81.432	1.00	163.25	B	C
ATOM	2382	CG1	ILE	B	239	136.850	77.503	-83.643	1.00	163.25	B	C
ATOM	2383	CD1	ILE	B	239	137.873	76.551	-83.062	1.00	163.25	B	C
ATOM	2384	C	ILE	B	239	133.718	76.701	-81.538	1.00	163.25	B	C
ATOM	2385	O	ILE	B	239	133.786	76.498	-80.326	1.00	163.25	B	O
ATOM	2386	N	PHE	B	240	132.625	77.163	-82.135	1.00	70.90	B	N
ATOM	2387	CA	PHE	B	240	131.413	77.472	-81.385	1.00	70.90	B	C
ATOM	2388	CB	PHE	B	240	130.375	78.136	-82.292	1.00	70.90	B	C
ATOM	2389	CG	PHE	B	240	130.835	79.435	-82.892	1.00	70.90	B	C
ATOM	2390	CD1	PHE	B	240	131.845	80.171	-82.294	1.00	70.90	B	C
ATOM	2391	CD2	PHE	B	240	130.259	79.920	-84.054	1.00	70.90	B	C
ATOM	2392	CE1	PHE	B	240	132.270	81.366	-82.843	1.00	70.90	B	C
ATOM	2393	CE2	PHE	B	240	130.680	81.114	-84.609	1.00	70.90	B	C
ATOM	2394	CZ	PHE	B	240	131.687	81.838	-84.002	1.00	70.90	B	C
ATOM	2395	C	PHE	B	240	130.826	76.219	-80.743	1.00	70.90	B	C
ATOM	2396	O	PHE	B	240	130.285	76.272	-79.638	1.00	70.90	B	O
ATOM	2397	N	THR	B	241	130.937	75.094	-81.442	1.00	101.68	B	N
ATOM	2398	CA	THR	B	241	130.418	73.827	-80.942	1.00	101.68	B	C
ATOM	2399	CB	THR	B	241	130.399	72.750	-82.043	1.00	101.68	B	C
ATOM	2400	OG1	THR	B	241	129.544	73.171	-83.112	1.00	101.68	B	O
ATOM	2401	CG2	THR	B	241	129.893	71.427	-81.486	1.00	101.68	B	C
ATOM	2402	C	THR	B	241	131.240	73.323	-79.761	1.00	101.68	B	C
ATOM	2403	O	THR	B	241	130.689	72.873	-78.756	1.00	101.68	B	O
ATOM	2404	N	VAL	B	242	132.561	73.401	-79.889	1.00	32.84	B	N
ATOM	2405	CA	VAL	B	242	133.461	72.965	-78.827	1.00	32.84	B	C
ATOM	2406	CB	VAL	B	242	134.938	73.147	-79.225	1.00	32.84	B	C
ATOM	2407	CG1	VAL	B	242	135.849	72.795	-78.060	1.00	32.84	B	C
ATOM	2408	CG2	VAL	B	242	135.267	72.296	-80.441	1.00	32.84	B	C
ATOM	2409	C	VAL	B	242	133.189	73.725	-77.533	1.00	32.84	B	C
ATOM	2410	O	VAL	B	242	133.169	73.140	-76.451	1.00	32.84	B	O
ATOM	2411	N	GLU	B	243	132.977	75.032	-77.653	1.00	57.64	B	N
ATOM	2412	CA	GLU	B	243	132.681	75.867	-76.496	1.00	57.64	B	C
ATOM	2413	CB	GLU	B	243	132.551	77.333	-76.912	1.00	57.64	B	C
ATOM	2414	CG	GLU	B	243	133.811	77.917	-77.530	1.00	57.64	B	C
ATOM	2415	CD	GLU	B	243	133.638	79.364	-77.947	1.00	57.64	B	C
ATOM	2416	OE1	GLU	B	243	134.561	79.915	-78.583	1.00	57.64	B	O
ATOM	2417	OE2	GLU	B	243	132.579	79.951	-77.638	1.00	57.64	B	O
ATOM	2418	C	GLU	B	243	131.402	75.405	-75.807	1.00	57.64	B	C
ATOM	2419	O	GLU	B	243	131.306	75.416	-74.580	1.00	57.64	B	O

ATOM	2420	N	TYR	B	244	130.421	74.999	-76.607	1.00	53.95	B	N
ATOM	2421	CA	TYR	B	244	129.150	74.518	-76.079	1.00	53.95	B	C
ATOM	2422	CB	TYR	B	244	128.125	74.371	-77.206	1.00	53.95	B	C
ATOM	2423	CG	TYR	B	244	126.832	73.714	-76.776	1.00	53.95	B	C
ATOM	2424	CD1	TYR	B	244	125.826	74.450	-76.165	1.00	53.95	B	C
ATOM	2425	CD2	TYR	B	244	126.617	72.358	-76.983	1.00	53.95	B	C
ATOM	2426	CE1	TYR	B	244	124.643	73.853	-75.771	1.00	53.95	B	C
ATOM	2427	CE2	TYR	B	244	125.438	71.753	-76.593	1.00	53.95	B	C
ATOM	2428	CZ	TYR	B	244	124.454	72.505	-75.988	1.00	53.95	B	C
ATOM	2429	OH	TYR	B	244	123.278	71.907	-75.598	1.00	53.95	B	O
ATOM	2430	C	TYR	B	244	129.319	73.190	-75.348	1.00	53.95	B	C
ATOM	2431	O	TYR	B	244	128.707	72.965	-74.304	1.00	53.95	B	O
ATOM	2432	N	LEU	B	245	130.152	72.316	-75.901	1.00	44.50	B	N
ATOM	2433	CA	LEU	B	245	130.383	71.000	-75.316	1.00	44.50	B	C
ATOM	2434	CB	LEU	B	245	131.095	70.087	-76.317	1.00	44.50	B	C
ATOM	2435	CG	LEU	B	245	130.355	69.812	-77.627	1.00	44.50	B	C
ATOM	2436	CD1	LEU	B	245	131.207	68.962	-78.557	1.00	44.50	B	C
ATOM	2437	CD2	LEU	B	245	129.016	69.141	-77.358	1.00	44.50	B	C
ATOM	2438	C	LEU	B	245	131.188	71.090	-74.024	1.00	44.50	B	C
ATOM	2439	O	LEU	B	245	130.922	70.367	-73.063	1.00	44.50	B	O
ATOM	2440	N	LEU	B	246	132.174	71.982	-74.006	1.00	93.07	B	N
ATOM	2441	CA	LEU	B	246	133.030	72.153	-72.838	1.00	93.07	B	C
ATOM	2442	CB	LEU	B	246	134.251	73.008	-73.184	1.00	93.07	B	C
ATOM	2443	CG	LEU	B	246	135.227	72.413	-74.201	1.00	93.07	B	C
ATOM	2444	CD1	LEU	B	246	136.356	73.387	-74.498	1.00	93.07	B	C
ATOM	2445	CD2	LEU	B	246	135.776	71.084	-73.704	1.00	93.07	B	C
ATOM	2446	C	LEU	B	246	132.272	72.767	-71.665	1.00	93.07	B	C
ATOM	2447	O	LEU	B	246	132.313	72.246	-70.551	1.00	93.07	B	O
ATOM	2448	N	ARG	B	247	131.582	73.874	-71.921	1.00	110.03	B	N
ATOM	2449	CA	ARG	B	247	130.823	74.557	-70.878	1.00	110.03	B	C
ATOM	2450	CB	ARG	B	247	130.288	75.899	-71.384	1.00	110.03	B	C
ATOM	2451	CG	ARG	B	247	131.365	76.922	-71.707	1.00	110.03	B	C
ATOM	2452	CD	ARG	B	247	130.759	78.296	-71.949	1.00	110.03	B	C
ATOM	2453	NE	ARG	B	247	131.773	79.303	-72.249	1.00	110.03	B	N
ATOM	2454	CZ	ARG	B	247	132.096	79.695	-73.477	1.00	110.03	B	C
ATOM	2455	NH1	ARG	B	247	131.482	79.167	-74.526	1.00	110.03	B	N
ATOM	2456	NH2	ARG	B	247	133.032	80.617	-73.656	1.00	110.03	B	N
ATOM	2457	C	ARG	B	247	129.675	73.694	-70.361	1.00	110.03	B	C
ATOM	2458	O	ARG	B	247	129.223	73.863	-69.229	1.00	110.03	B	O
ATOM	2459	N	LEU	B	248	129.208	72.772	-71.196	1.00	148.40	B	N
ATOM	2460	CA	LEU	B	248	128.116	71.883	-70.819	1.00	148.40	B	C
ATOM	2461	CB	LEU	B	248	127.533	71.196	-72.056	1.00	148.40	B	C
ATOM	2462	CG	LEU	B	248	126.328	70.282	-71.825	1.00	148.40	B	C
ATOM	2463	CD1	LEU	B	248	125.188	71.051	-71.176	1.00	148.40	B	C
ATOM	2464	CD2	LEU	B	248	125.876	69.648	-73.131	1.00	148.40	B	C
ATOM	2465	C	LEU	B	248	128.581	70.838	-69.810	1.00	148.40	B	C
ATOM	2466	O	LEU	B	248	127.794	70.350	-68.999	1.00	148.40	B	O
ATOM	2467	N	ALA	B	249	129.865	70.502	-69.864	1.00	46.03	B	N
ATOM	2468	CA	ALA	B	249	130.437	69.511	-68.960	1.00	46.03	B	C
ATOM	2469	CB	ALA	B	249	131.329	68.546	-69.726	1.00	46.03	B	C
ATOM	2470	C	ALA	B	249	131.215	70.174	-67.829	1.00	46.03	B	C
ATOM	2471	O	ALA	B	249	131.586	69.523	-66.852	1.00	46.03	B	O
ATOM	2472	N	ALA	B	250	131.461	71.473	-67.968	1.00	55.13	B	N
ATOM	2473	CA	ALA	B	250	132.191	72.227	-66.956	1.00	55.13	B	C
ATOM	2474	CB	ALA	B	250	133.131	73.226	-67.613	1.00	55.13	B	C
ATOM	2475	C	ALA	B	250	131.234	72.940	-66.007	1.00	55.13	B	C
ATOM	2476	O	ALA	B	250	131.629	73.379	-64.926	1.00	55.13	B	O
ATOM	2477	N	ALA	B	251	129.975	73.051	-66.417	1.00	67.05	B	N
ATOM	2478	CA	ALA	B	251	128.959	73.705	-65.601	1.00	67.05	B	C
ATOM	2479	CB	ALA	B	251	127.728	74.018	-66.437	1.00	67.05	B	C
ATOM	2480	C	ALA	B	251	128.584	72.847	-64.398	1.00	67.05	B	C
ATOM	2481	O	ALA	B	251	128.161	71.702	-64.554	1.00	67.05	B	O
ATOM	2482	N	PRO	B	252	128.742	73.405	-63.188	1.00	163.88	B	N
ATOM	2483	CA	PRO	B	252	128.414	72.712	-61.938	1.00	163.88	B	C
ATOM	2484	CD	PRO	B	252	129.288	74.751	-62.946	1.00	163.88	B	C
ATOM	2485	CB	PRO	B	252	128.604	73.801	-60.879	1.00	163.88	B	C
ATOM	2486	CG	PRO	B	252	129.597	74.733	-61.479	1.00	163.88	B	C
ATOM	2487	C	PRO	B	252	126.971	72.217	-61.925	1.00	163.88	B	C

ATOM	2488	O	PRO	B	252	126.663	71.233	-61.253	1.00163.88	B	O
ATOM	2489	N	SER	B	253	126.101	72.898	-62.664	1.00124.25	B	N
ATOM	2490	CA	SER	B	253	124.694	72.521	-62.734	1.00124.25	B	C
ATOM	2491	CB	SER	B	253	123.812	73.634	-62.164	1.00124.25	B	C
ATOM	2492	OG	SER	B	253	122.441	73.281	-62.225	1.00124.25	B	O
ATOM	2493	C	SER	B	253	124.278	72.204	-64.166	1.00124.25	B	C
ATOM	2494	O	SER	B	253	124.661	72.905	-65.104	1.00124.25	B	O
ATOM	2495	N	ARG	B	254	123.491	71.145	-64.329	1.00172.72	B	N
ATOM	2496	CA	ARG	B	254	123.017	70.737	-65.646	1.00172.72	B	C
ATOM	2497	CB	ARG	B	254	123.212	69.233	-65.843	1.00172.72	B	C
ATOM	2498	CG	ARG	B	254	124.664	68.787	-65.824	1.00172.72	B	C
ATOM	2499	CD	ARG	B	254	125.454	69.438	-66.947	1.00172.72	B	C
ATOM	2500	NE	ARG	B	254	124.910	69.106	-68.261	1.00172.72	B	N
ATOM	2501	CZ	ARG	B	254	125.285	68.054	-68.981	1.00172.72	B	C
ATOM	2502	NH1	ARG	B	254	126.211	67.226	-68.516	1.00172.72	B	N
ATOM	2503	NH2	ARG	B	254	124.736	67.829	-70.166	1.00172.72	B	N
ATOM	2504	C	ARG	B	254	121.551	71.106	-65.845	1.00172.72	B	C
ATOM	2505	O	ARG	B	254	120.989	70.893	-66.919	1.00172.72	B	O
ATOM	2506	N	TYR	B	255	120.936	71.658	-64.804	1.00 99.39	B	N
ATOM	2507	CA	TYR	B	255	119.536	72.060	-64.869	1.00 99.39	B	C
ATOM	2508	CB	TYR	B	255	118.792	71.620	-63.606	1.00 99.39	B	C
ATOM	2509	CG	TYR	B	255	117.299	71.858	-63.658	1.00 99.39	B	C
ATOM	2510	CD1	TYR	B	255	116.446	70.917	-64.220	1.00 99.39	B	C
ATOM	2511	CD2	TYR	B	255	116.743	73.021	-63.144	1.00 99.39	B	C
ATOM	2512	CE1	TYR	B	255	115.082	71.129	-64.270	1.00 99.39	B	C
ATOM	2513	CE2	TYR	B	255	115.380	73.242	-63.190	1.00 99.39	B	C
ATOM	2514	CZ	TYR	B	255	114.554	72.293	-63.753	1.00 99.39	B	C
ATOM	2515	OH	TYR	B	255	113.196	72.508	-63.800	1.00 99.39	B	O
ATOM	2516	C	TYR	B	255	119.411	73.568	-65.057	1.00 99.39	B	C
ATOM	2517	O	TYR	B	255	118.414	74.057	-65.589	1.00 99.39	B	O
ATOM	2518	N	ARG	B	256	120.430	74.301	-64.620	1.00167.77	B	N
ATOM	2519	CA	ARG	B	256	120.445	75.753	-64.753	1.00167.77	B	C
ATOM	2520	CB	ARG	B	256	121.116	76.395	-63.538	1.00167.77	B	C
ATOM	2521	CG	ARG	B	256	120.399	76.139	-62.223	1.00167.77	B	C
ATOM	2522	CD	ARG	B	256	121.142	76.777	-61.059	1.00167.77	B	C
ATOM	2523	NE	ARG	B	256	121.335	78.211	-61.254	1.00167.77	B	N
ATOM	2524	CZ	ARG	B	256	120.478	79.142	-60.848	1.00167.77	B	C
ATOM	2525	NH1	ARG	B	256	119.362	78.793	-60.222	1.00167.77	B	N
ATOM	2526	NH2	ARG	B	256	120.735	80.424	-61.069	1.00167.77	B	N
ATOM	2527	C	ARG	B	256	121.159	76.181	-66.031	1.00167.77	B	C
ATOM	2528	O	ARG	B	256	121.351	77.372	-66.277	1.00167.77	B	O
ATOM	2529	N	PHE	B	257	121.551	75.202	-66.839	1.00 86.55	B	N
ATOM	2530	CA	PHE	B	257	122.254	75.473	-68.088	1.00 86.55	B	C
ATOM	2531	CB	PHE	B	257	122.944	74.206	-68.600	1.00 86.55	B	C
ATOM	2532	CG	PHE	B	257	123.666	74.395	-69.904	1.00 86.55	B	C
ATOM	2533	CD1	PHE	B	257	124.966	74.871	-69.928	1.00 86.55	B	C
ATOM	2534	CD2	PHE	B	257	123.045	74.093	-71.105	1.00 86.55	B	C
ATOM	2535	CE1	PHE	B	257	125.634	75.044	-71.127	1.00 86.55	B	C
ATOM	2536	CE2	PHE	B	257	123.707	74.264	-72.306	1.00 86.55	B	C
ATOM	2537	CZ	PHE	B	257	125.003	74.740	-72.317	1.00 86.55	B	C
ATOM	2538	C	PHE	B	257	121.308	76.021	-69.151	1.00 86.55	B	C
ATOM	2539	O	PHE	B	257	121.603	77.024	-69.799	1.00 86.55	B	O
ATOM	2540	N	VAL	B	258	120.171	75.356	-69.323	1.00126.69	B	N
ATOM	2541	CA	VAL	B	258	119.191	75.762	-70.324	1.00126.69	B	C
ATOM	2542	CB	VAL	B	258	118.208	74.621	-70.645	1.00126.69	B	C
ATOM	2543	CG1	VAL	B	258	118.949	73.439	-71.252	1.00126.69	B	C
ATOM	2544	CG2	VAL	B	258	117.454	74.203	-69.392	1.00126.69	B	C
ATOM	2545	C	VAL	B	258	118.401	76.987	-69.873	1.00126.69	B	C
ATOM	2546	O	VAL	B	258	117.552	77.493	-70.607	1.00126.69	B	O
ATOM	2547	N	ARG	B	259	118.685	77.459	-68.664	1.00166.93	B	N
ATOM	2548	CA	ARG	B	259	117.998	78.624	-68.118	1.00166.93	B	C
ATOM	2549	CB	ARG	B	259	117.856	78.501	-66.599	1.00166.93	B	C
ATOM	2550	CG	ARG	B	259	117.090	79.644	-65.953	1.00166.93	B	C
ATOM	2551	CD	ARG	B	259	117.000	79.469	-64.447	1.00166.93	B	C
ATOM	2552	NE	ARG	B	259	116.219	80.531	-63.819	1.00166.93	B	N
ATOM	2553	CZ	ARG	B	259	116.731	81.679	-63.386	1.00166.93	B	C
ATOM	2554	NH1	ARG	B	259	118.030	81.917	-63.511	1.00166.93	B	N
ATOM	2555	NH2	ARG	B	259	115.945	82.589	-62.827	1.00166.93	B	N

ATOM	2556	C	ARG	B	259	118.727	79.916	-68.472	1.00	166.93	B	C
ATOM	2557	O	ARG	B	259	118.102	80.956	-68.677	1.00	166.93	B	O
ATOM	2558	N	SER	B	260	120.053	79.842	-68.543	1.00	90.97	B	N
ATOM	2559	CA	SER	B	260	120.868	81.008	-68.865	1.00	90.97	B	C
ATOM	2560	CB	SER	B	260	122.356	80.676	-68.726	1.00	90.97	B	C
ATOM	2561	OG	SER	B	260	122.667	80.273	-67.404	1.00	90.97	B	O
ATOM	2562	C	SER	B	260	120.573	81.518	-70.271	1.00	90.97	B	C
ATOM	2563	O	SER	B	260	120.255	80.740	-71.170	1.00	90.97	B	O
ATOM	2564	N	VAL	B	261	120.679	82.831	-70.454	1.00	94.76	B	N
ATOM	2565	CA	VAL	B	261	120.415	83.447	-71.749	1.00	94.76	B	C
ATOM	2566	CB	VAL	B	261	119.941	84.906	-71.595	1.00	94.76	B	C
ATOM	2567	CG1	VAL	B	261	118.601	84.957	-70.878	1.00	94.76	B	C
ATOM	2568	CG2	VAL	B	261	120.984	85.729	-70.852	1.00	94.76	B	C
ATOM	2569	C	VAL	B	261	121.648	83.412	-72.647	1.00	94.76	B	C
ATOM	2570	O	VAL	B	261	121.536	83.458	-73.871	1.00	94.76	B	O
ATOM	2571	N	MET	B	262	122.823	83.331	-72.030	1.00	60.02	B	N
ATOM	2572	CA	MET	B	262	124.075	83.286	-72.775	1.00	60.02	B	C
ATOM	2573	CB	MET	B	262	125.261	83.577	-71.852	1.00	60.02	B	C
ATOM	2574	CG	MET	B	262	125.232	84.961	-71.224	1.00	60.02	B	C
ATOM	2575	SD	MET	B	262	125.232	86.279	-72.455	1.00	60.02	B	S
ATOM	2576	CE	MET	B	262	125.215	87.727	-71.402	1.00	60.02	B	C
ATOM	2577	C	MET	B	262	124.260	81.934	-73.457	1.00	60.02	B	C
ATOM	2578	O	MET	B	262	124.819	81.851	-74.551	1.00	60.02	B	O
ATOM	2579	N	SER	B	263	123.785	80.879	-72.804	1.00	83.90	B	N
ATOM	2580	CA	SER	B	263	123.891	79.530	-73.345	1.00	83.90	B	C
ATOM	2581	CB	SER	B	263	123.516	78.497	-72.282	1.00	83.90	B	C
ATOM	2582	OG	SER	B	263	122.179	78.676	-71.850	1.00	83.90	B	O
ATOM	2583	C	SER	B	263	123.003	79.359	-74.573	1.00	83.90	B	C
ATOM	2584	O	SER	B	263	123.391	78.714	-75.546	1.00	83.90	B	O
ATOM	2585	N	ILE	B	264	121.809	79.941	-74.518	1.00	88.68	B	N
ATOM	2586	CA	ILE	B	264	120.863	79.861	-75.624	1.00	88.68	B	C
ATOM	2587	CB	ILE	B	264	119.548	80.592	-75.295	1.00	88.68	B	C
ATOM	2588	CG2	ILE	B	264	118.572	80.486	-76.457	1.00	88.68	B	C
ATOM	2589	CG1	ILE	B	264	118.929	80.026	-74.016	1.00	88.68	B	C
ATOM	2590	CD1	ILE	B	264	118.587	78.554	-74.102	1.00	88.68	B	C
ATOM	2591	C	ILE	B	264	121.457	80.452	-76.899	1.00	88.68	B	C
ATOM	2592	O	ILE	B	264	121.303	79.893	-77.985	1.00	88.68	B	O
ATOM	2593	N	ILE	B	265	122.137	81.585	-76.757	1.00	113.98	B	N
ATOM	2594	CA	ILE	B	265	122.769	82.249	-77.891	1.00	113.98	B	C
ATOM	2595	CB	ILE	B	265	123.414	83.584	-77.475	1.00	113.98	B	C
ATOM	2596	CG2	ILE	B	265	124.050	84.268	-78.675	1.00	113.98	B	C
ATOM	2597	CG1	ILE	B	265	122.374	84.498	-76.822	1.00	113.98	B	C
ATOM	2598	CD1	ILE	B	265	122.927	85.836	-76.382	1.00	113.98	B	C
ATOM	2599	C	ILE	B	265	123.829	81.354	-78.524	1.00	113.98	B	C
ATOM	2600	O	ILE	B	265	123.984	81.325	-79.744	1.00	113.98	B	O
ATOM	2601	N	ASP	B	266	124.556	80.623	-77.685	1.00	68.21	B	N
ATOM	2602	CA	ASP	B	266	125.592	79.714	-78.160	1.00	68.21	B	C
ATOM	2603	CB	ASP	B	266	126.433	79.202	-76.990	1.00	68.21	B	C
ATOM	2604	CG	ASP	B	266	127.111	80.322	-76.225	1.00	68.21	B	C
ATOM	2605	OD1	ASP	B	266	127.430	81.358	-76.845	1.00	68.21	B	O
ATOM	2606	OD2	ASP	B	266	127.325	80.166	-75.005	1.00	68.21	B	O
ATOM	2607	C	ASP	B	266	124.983	78.542	-78.922	1.00	68.21	B	C
ATOM	2608	O	ASP	B	266	125.623	77.956	-79.795	1.00	68.21	B	O
ATOM	2609	N	VAL	B	267	123.741	78.205	-78.586	1.00	104.56	B	N
ATOM	2610	CA	VAL	B	267	123.041	77.106	-79.240	1.00	104.56	B	C
ATOM	2611	CB	VAL	B	267	121.854	76.609	-78.393	1.00	104.56	B	C
ATOM	2612	CG1	VAL	B	267	121.100	75.511	-79.127	1.00	104.56	B	C
ATOM	2613	CG2	VAL	B	267	122.338	76.118	-77.038	1.00	104.56	B	C
ATOM	2614	C	VAL	B	267	122.531	77.518	-80.617	1.00	104.56	B	C
ATOM	2615	O	VAL	B	267	122.791	76.844	-81.613	1.00	104.56	B	O
ATOM	2616	N	VAL	B	268	121.809	78.633	-80.665	1.00	100.82	B	N
ATOM	2617	CA	VAL	B	268	121.243	79.133	-81.913	1.00	100.82	B	C
ATOM	2618	CB	VAL	B	268	120.349	80.365	-81.667	1.00	100.82	B	C
ATOM	2619	CG1	VAL	B	268	119.666	80.798	-82.955	1.00	100.82	B	C
ATOM	2620	CG2	VAL	B	268	119.316	80.063	-80.592	1.00	100.82	B	C
ATOM	2621	C	VAL	B	268	122.339	79.492	-82.914	1.00	100.82	B	C
ATOM	2622	O	VAL	B	268	122.087	79.604	-84.114	1.00	100.82	B	O
ATOM	2623	N	ALA	B	269	123.558	79.664	-82.414	1.00	69.40	B	N

ATOM	2624	CA	ALA	B	269	124.686	80.040	-83.258	1.00	69.40	B	C
ATOM	2625	CB	ALA	B	269	125.784	80.680	-82.421	1.00	69.40	B	C
ATOM	2626	C	ALA	B	269	125.237	78.853	-84.044	1.00	69.40	B	C
ATOM	2627	O	ALA	B	269	126.136	79.011	-84.870	1.00	69.40	B	O
ATOM	2628	N	ILE	B	270	124.697	77.665	-83.786	1.00	105.76	B	N
ATOM	2629	CA	ILE	B	270	125.159	76.456	-84.461	1.00	105.76	B	C
ATOM	2630	CB	ILE	B	270	126.045	75.594	-83.538	1.00	105.76	B	C
ATOM	2631	CG2	ILE	B	270	127.265	76.378	-83.080	1.00	105.76	B	C
ATOM	2632	CG1	ILE	B	270	125.239	75.093	-82.338	1.00	105.76	B	C
ATOM	2633	CD1	ILE	B	270	126.042	74.251	-81.371	1.00	105.76	B	C
ATOM	2634	C	ILE	B	270	124.005	75.602	-84.979	1.00	105.76	B	C
ATOM	2635	O	ILE	B	270	124.218	74.644	-85.722	1.00	105.76	B	O
ATOM	2636	N	LEU	B	271	122.784	75.951	-84.586	1.00	71.73	B	N
ATOM	2637	CA	LEU	B	271	121.602	75.201	-85.004	1.00	71.73	B	C
ATOM	2638	CB	LEU	B	271	120.347	75.709	-84.287	1.00	71.73	B	C
ATOM	2639	CG	LEU	B	271	120.274	75.472	-82.778	1.00	71.73	B	C
ATOM	2640	CD1	LEU	B	271	119.005	76.080	-82.200	1.00	71.73	B	C
ATOM	2641	CD2	LEU	B	271	120.352	73.985	-82.466	1.00	71.73	B	C
ATOM	2642	C	LEU	B	271	121.392	75.207	-86.521	1.00	71.73	B	C
ATOM	2643	O	LEU	B	271	121.235	74.148	-87.127	1.00	71.73	B	O
ATOM	2644	N	PRO	B	272	121.386	76.401	-87.139	1.00	85.42	B	N
ATOM	2645	CA	PRO	B	272	121.162	76.489	-88.587	1.00	85.42	B	C
ATOM	2646	CD	PRO	B	272	121.543	77.732	-86.528	1.00	85.42	B	C
ATOM	2647	CB	PRO	B	272	121.360	77.980	-88.877	1.00	85.42	B	C
ATOM	2648	CG	PRO	B	272	121.039	78.656	-87.594	1.00	85.42	B	C
ATOM	2649	C	PRO	B	272	122.167	75.665	-89.387	1.00	85.42	B	C
ATOM	2650	O	PRO	B	272	121.884	75.290	-90.525	1.00	85.42	B	O
ATOM	2651	N	TYR	B	273	123.325	75.390	-88.796	1.00	80.36	B	N
ATOM	2652	CA	TYR	B	273	124.367	74.629	-89.475	1.00	80.36	B	C
ATOM	2653	CB	TYR	B	273	125.701	74.771	-88.740	1.00	80.36	B	C
ATOM	2654	CG	TYR	B	273	126.848	74.044	-89.406	1.00	80.36	B	C
ATOM	2655	CD1	TYR	B	273	127.587	74.649	-90.413	1.00	80.36	B	C
ATOM	2656	CD2	TYR	B	273	127.192	72.753	-89.027	1.00	80.36	B	C
ATOM	2657	CE1	TYR	B	273	128.636	73.989	-91.026	1.00	80.36	B	C
ATOM	2658	CE2	TYR	B	273	128.239	72.085	-89.633	1.00	80.36	B	C
ATOM	2659	CZ	TYR	B	273	128.957	72.708	-90.631	1.00	80.36	B	C
ATOM	2660	OH	TYR	B	273	130.001	72.047	-91.238	1.00	80.36	B	O
ATOM	2661	C	TYR	B	273	123.993	73.155	-89.603	1.00	80.36	B	C
ATOM	2662	O	TYR	B	273	123.974	72.603	-90.703	1.00	80.36	B	O
ATOM	2663	N	TYR	B	274	123.697	72.524	-88.472	1.00	58.29	B	N
ATOM	2664	CA	TYR	B	274	123.348	71.108	-88.454	1.00	58.29	B	C
ATOM	2665	CB	TYR	B	274	123.353	70.572	-87.021	1.00	58.29	B	C
ATOM	2666	CG	TYR	B	274	124.713	70.607	-86.362	1.00	58.29	B	C
ATOM	2667	CD1	TYR	B	274	125.116	71.704	-85.613	1.00	58.29	B	C
ATOM	2668	CD2	TYR	B	274	125.596	69.543	-86.493	1.00	58.29	B	C
ATOM	2669	CE1	TYR	B	274	126.360	71.741	-85.011	1.00	58.29	B	C
ATOM	2670	CE2	TYR	B	274	126.841	69.571	-85.895	1.00	58.29	B	C
ATOM	2671	CZ	TYR	B	274	127.218	70.671	-85.155	1.00	58.29	B	C
ATOM	2672	OH	TYR	B	274	128.457	70.702	-84.558	1.00	58.29	B	O
ATOM	2673	C	TYR	B	274	121.994	70.849	-89.107	1.00	58.29	B	C
ATOM	2674	O	TYR	B	274	121.838	69.902	-89.877	1.00	58.29	B	O
ATOM	2675	N	ILE	B	275	121.019	71.697	-88.795	1.00	98.26	B	N
ATOM	2676	CA	ILE	B	275	119.675	71.555	-89.345	1.00	98.26	B	C
ATOM	2677	CB	ILE	B	275	118.714	72.611	-88.767	1.00	98.26	B	C
ATOM	2678	CG2	ILE	B	275	117.337	72.482	-89.399	1.00	98.26	B	C
ATOM	2679	CG1	ILE	B	275	118.619	72.471	-87.246	1.00	98.26	B	C
ATOM	2680	CD1	ILE	B	275	117.704	73.485	-86.595	1.00	98.26	B	C
ATOM	2681	C	ILE	B	275	119.682	71.659	-90.867	1.00	98.26	B	C
ATOM	2682	O	ILE	B	275	118.997	70.900	-91.553	1.00	98.26	B	O
ATOM	2683	N	GLY	B	276	120.461	72.601	-91.389	1.00	33.27	B	N
ATOM	2684	CA	GLY	B	276	120.550	72.808	-92.822	1.00	33.27	B	C
ATOM	2685	C	GLY	B	276	121.167	71.631	-93.552	1.00	33.27	B	C
ATOM	2686	O	GLY	B	276	120.709	71.248	-94.629	1.00	33.27	B	O
ATOM	2687	N	LEU	B	277	122.209	71.054	-92.963	1.00	135.89	B	N
ATOM	2688	CA	LEU	B	277	122.906	69.926	-93.572	1.00	135.89	B	C
ATOM	2689	CB	LEU	B	277	124.169	69.585	-92.778	1.00	135.89	B	C
ATOM	2690	CG	LEU	B	277	124.999	68.411	-93.301	1.00	135.89	B	C
ATOM	2691	CD1	LEU	B	277	125.405	68.642	-94.749	1.00	135.89	B	C

ATOM	2692	CD2	LEU	B	277	126.223	68.188	-92.427	1.00135.89	B	C	
ATOM	2693	C	LEU	B	277	122.006	68.700	-93.676	1.00135.89	B	C	
ATOM	2694	O	LEU	B	277	122.047	67.970	-94.666	1.00135.89	B	O	
ATOM	2695	N	VAL	B	278	121.193	68.478	-92.648	1.00	91.77	B	N
ATOM	2696	CA	VAL	B	278	120.295	67.330	-92.616	1.00	91.77	B	C
ATOM	2697	CB	VAL	B	278	119.747	67.082	-91.198	1.00	91.77	B	C
ATOM	2698	CG1	VAL	B	278	118.773	65.914	-91.202	1.00	91.77	B	C
ATOM	2699	CG2	VAL	B	278	120.888	66.830	-90.225	1.00	91.77	B	C
ATOM	2700	C	VAL	B	278	119.126	67.508	-93.580	1.00	91.77	B	C
ATOM	2701	O	VAL	B	278	118.755	66.580	-94.298	1.00	91.77	B	O
ATOM	2702	N	MET	B	279	118.552	68.707	-93.591	1.00131.98	B	N	
ATOM	2703	CA	MET	B	279	117.404	68.998	-94.441	1.00131.98	B	C	
ATOM	2704	CB	MET	B	279	116.849	70.392	-94.139	1.00131.98	B	C	
ATOM	2705	CG	MET	B	279	115.621	70.760	-94.956	1.00131.98	B	C	
ATOM	2706	SD	MET	B	279	114.960	72.383	-94.533	1.00131.98	B	S	
ATOM	2707	CE	MET	B	279	114.535	72.141	-92.810	1.00131.98	B	C	
ATOM	2708	C	MET	B	279	117.751	68.879	-95.923	1.00131.98	B	C	
ATOM	2709	O	MET	B	279	117.029	68.241	-96.688	1.00131.98	B	O	
ATOM	2710	N	THR	B	280	118.859	69.496	-96.321	1.00	57.64	B	N
ATOM	2711	CA	THR	B	280	119.293	69.466	-97.714	1.00	57.64	B	C
ATOM	2712	CB	THR	B	280	120.490	70.405	-97.955	1.00	57.64	B	C
ATOM	2713	OG1	THR	B	280	121.579	70.026	-97.105	1.00	57.64	B	O
ATOM	2714	CG2	THR	B	280	120.104	71.847	-97.665	1.00	57.64	B	C
ATOM	2715	C	THR	B	280	119.669	68.055	-98.154	1.00	57.64	B	C
ATOM	2716	O	THR	B	280	119.678	67.749	-99.346	1.00	57.64	B	O
ATOM	2717	N	ASP	B	281	119.978	67.199	-97.186	1.00	89.40	B	N
ATOM	2718	CA	ASP	B	281	120.345	65.818	-97.474	1.00	89.40	B	C
ATOM	2719	CB	ASP	B	281	121.138	65.222	-96.308	1.00	89.40	B	C
ATOM	2720	CG	ASP	B	281	121.782	63.893	-96.655	1.00	89.40	B	C
ATOM	2721	OD1	ASP	B	281	121.222	63.153	-97.491	1.00	89.40	B	O
ATOM	2722	OD2	ASP	B	281	122.853	63.587	-96.090	1.00	89.40	B	O
ATOM	2723	C	ASP	B	281	119.101	64.980	-97.747	1.00	89.40	B	C
ATOM	2724	O	ASP	B	281	119.046	64.232	-98.723	1.00	89.40	B	O
ATOM	2725	N	ASN	B	282	118.104	65.113	-96.879	1.00	77.30	B	N
ATOM	2726	CA	ASN	B	282	116.862	64.362	-97.016	1.00	77.30	B	C
ATOM	2727	CB	ASN	B	282	115.966	64.584	-95.796	1.00	77.30	B	C
ATOM	2728	CG	ASN	B	282	116.615	64.126	-94.505	1.00	77.30	B	C
ATOM	2729	OD1	ASN	B	282	117.420	63.195	-94.497	1.00	77.30	B	O
ATOM	2730	ND2	ASN	B	282	116.267	64.781	-93.403	1.00	77.30	B	N
ATOM	2731	C	ASN	B	282	116.104	64.714	-98.293	1.00	77.30	B	C
ATOM	2732	O	ASN	B	282	115.878	63.857	-99.148	1.00	77.30	B	O
ATOM	2733	N	GLU	B	283	115.715	65.979	-98.416	1.00247.84	B	N	
ATOM	2734	CA	GLU	B	283	114.971	66.440	-99.583	1.00247.84	B	C	
ATOM	2735	CB	GLU	B	283	113.480	66.556	-99.255	1.00247.84	B	C	
ATOM	2736	CG	GLU	B	283	112.607	66.994	-100.423	1.00247.84	B	C	
ATOM	2737	CD	GLU	B	283	112.511	65.948	-101.519	1.00247.84	B	C	
ATOM	2738	OE1	GLU	B	283	113.553	65.376	-101.901	1.00247.84	B	O	
ATOM	2739	OE2	GLU	B	283	111.386	65.696	-102.000	1.00247.84	B	O	
ATOM	2740	C	GLU	B	283	115.506	67.775	-100.092	1.00247.84	B	C	
ATOM	2741	O	GLU	B	283	115.931	68.625	-99.310	1.00247.84	B	O	
ATOM	2742	N	ASP	B	284	115.480	67.952	-101.410	1.00243.54	B	N	
ATOM	2743	CA	ASP	B	284	115.987	69.170	-102.032	1.00243.54	B	C	
ATOM	2744	CB	ASP	B	284	116.778	68.836	-103.302	1.00243.54	B	C	
ATOM	2745	CG	ASP	B	284	115.947	68.094	-104.334	1.00243.54	B	C	
ATOM	2746	OD1	ASP	B	284	115.031	67.341	-103.941	1.00243.54	B	O	
ATOM	2747	OD2	ASP	B	284	116.212	68.264	-105.542	1.00243.54	B	O	
ATOM	2748	C	ASP	B	284	114.870	70.163	-102.346	1.00243.54	B	C	
ATOM	2749	O	ASP	B	284	114.521	70.376	-103.507	1.00243.54	B	O	
ATOM	2750	N	VAL	B	285	114.315	70.771	-101.303	1.00154.00	B	N	
ATOM	2751	CA	VAL	B	285	113.265	71.770	-101.467	1.00154.00	B	C	
ATOM	2752	CB	VAL	B	285	112.025	71.439	-100.616	1.00154.00	B	C	
ATOM	2753	CG1	VAL	B	285	111.343	70.184	-101.138	1.00154.00	B	C	
ATOM	2754	CG2	VAL	B	285	112.413	71.279	-99.153	1.00154.00	B	C	
ATOM	2755	C	VAL	B	285	113.770	73.161	-101.095	1.00154.00	B	C	
ATOM	2756	O	VAL	B	285	114.961	73.354	-100.852	1.00154.00	B	O	
ATOM	2757	N	SER	B	286	112.857	74.125	-101.053	1.00204.33	B	N	
ATOM	2758	CA	SER	B	286	113.210	75.500	-100.718	1.00204.33	B	C	
ATOM	2759	CB	SER	B	286	113.512	76.300	-101.987	1.00204.33	B	C	

ATOM	2760	OG	SER	B	286	114.579	75.719	-102.716	1.00204.33	B	O	
ATOM	2761	C	SER	B	286	112.101	76.179	-99.922	1.00204.33	B	C	
ATOM	2762	O	SER	B	286	110.918	75.997	-100.209	1.00204.33	B	O	
ATOM	2763	N	GLY	B	287	112.491	76.961	-98.921	1.00	74.32	B	N
ATOM	2764	CA	GLY	B	287	111.534	77.677	-98.097	1.00	74.32	B	C
ATOM	2765	C	GLY	B	287	111.745	77.452	-96.613	1.00	74.32	B	C
ATOM	2766	O	GLY	B	287	111.617	78.378	-95.812	1.00	74.32	B	O
ATOM	2767	N	ALA	B	288	112.068	76.217	-96.245	1.00	54.17	B	N
ATOM	2768	CA	ALA	B	288	112.270	75.864	-94.844	1.00	54.17	B	C
ATOM	2769	CB	ALA	B	288	112.042	74.375	-94.634	1.00	54.17	B	C
ATOM	2770	C	ALA	B	288	113.659	76.267	-94.355	1.00	54.17	B	C
ATOM	2771	O	ALA	B	288	113.792	77.012	-93.384	1.00	54.17	B	O
ATOM	2772	N	PHE	B	289	114.689	75.772	-95.034	1.00205.64	B	N	
ATOM	2773	CA	PHE	B	289	116.069	76.064	-94.656	1.00205.64	B	C	
ATOM	2774	CB	PHE	B	289	117.040	75.096	-95.342	1.00205.64	B	C	
ATOM	2775	CG	PHE	B	289	117.114	75.258	-96.838	1.00205.64	B	C	
ATOM	2776	CD1	PHE	B	289	116.045	75.773	-97.553	1.00205.64	B	C	
ATOM	2777	CD2	PHE	B	289	118.257	74.889	-97.527	1.00205.64	B	C	
ATOM	2778	CE1	PHE	B	289	116.116	75.919	-98.925	1.00205.64	B	C	
ATOM	2779	CE2	PHE	B	289	118.334	75.033	-98.899	1.00205.64	B	C	
ATOM	2780	CZ	PHE	B	289	117.262	75.548	-99.599	1.00205.64	B	C	
ATOM	2781	C	PHE	B	289	116.455	77.509	-94.962	1.00205.64	B	C	
ATOM	2782	O	PHE	B	289	117.552	77.952	-94.624	1.00205.64	B	O	
ATOM	2783	N	VAL	B	290	115.547	78.236	-95.604	1.00	43.82	B	N
ATOM	2784	CA	VAL	B	290	115.782	79.637	-95.932	1.00	43.82	B	C
ATOM	2785	CB	VAL	B	290	114.779	80.145	-96.986	1.00	43.82	B	C
ATOM	2786	CG1	VAL	B	290	115.011	81.620	-97.275	1.00	43.82	B	C
ATOM	2787	CG2	VAL	B	290	114.891	79.323	-98.262	1.00	43.82	B	C
ATOM	2788	C	VAL	B	290	115.685	80.507	-94.682	1.00	43.82	B	C
ATOM	2789	O	VAL	B	290	116.431	81.474	-94.526	1.00	43.82	B	O
ATOM	2790	N	THR	B	291	114.763	80.152	-93.793	1.00	50.43	B	N
ATOM	2791	CA	THR	B	291	114.568	80.893	-92.553	1.00	50.43	B	C
ATOM	2792	CB	THR	B	291	113.283	80.449	-91.826	1.00	50.43	B	C
ATOM	2793	OG1	THR	B	291	112.157	80.609	-92.698	1.00	50.43	B	O
ATOM	2794	CG2	THR	B	291	113.067	81.278	-90.569	1.00	50.43	B	C
ATOM	2795	C	THR	B	291	115.760	80.722	-91.616	1.00	50.43	B	C
ATOM	2796	O	THR	B	291	116.170	81.665	-90.940	1.00	50.43	B	O
ATOM	2797	N	LEU	B	292	116.314	79.513	-91.582	1.00	89.67	B	N
ATOM	2798	CA	LEU	B	292	117.465	79.218	-90.735	1.00	89.67	B	C
ATOM	2799	CB	LEU	B	292	117.812	77.727	-90.788	1.00	89.67	B	C
ATOM	2800	CG	LEU	B	292	116.884	76.750	-90.059	1.00	89.67	B	C
ATOM	2801	CD1	LEU	B	292	116.797	77.098	-88.580	1.00	89.67	B	C
ATOM	2802	CD2	LEU	B	292	115.499	76.720	-90.689	1.00	89.67	B	C
ATOM	2803	C	LEU	B	292	118.678	80.051	-91.138	1.00	89.67	B	C
ATOM	2804	O	LEU	B	292	119.551	80.332	-90.317	1.00	89.67	B	O
ATOM	2805	N	ARG	B	293	118.725	80.440	-92.408	1.00153.52	B	N	
ATOM	2806	CA	ARG	B	293	119.815	81.262	-92.918	1.00153.52	B	C	
ATOM	2807	CB	ARG	B	293	119.666	81.462	-94.429	1.00153.52	B	C	
ATOM	2808	CG	ARG	B	293	120.939	81.891	-95.149	1.00153.52	B	C	
ATOM	2809	CD	ARG	B	293	121.312	83.331	-94.838	1.00153.52	B	C	
ATOM	2810	NE	ARG	B	293	122.513	83.752	-95.553	1.00153.52	B	C	
ATOM	2811	CZ	ARG	B	293	123.082	84.945	-95.418	1.00153.52	B	N	
ATOM	2812	NH1	ARG	B	293	122.561	85.840	-94.591	1.00153.52	B	N	
ATOM	2813	NH2	ARG	B	293	124.174	85.244	-96.109	1.00153.52	B	N	
ATOM	2814	C	ARG	B	293	119.827	82.607	-92.199	1.00153.52	B	C	
ATOM	2815	O	ARG	B	293	120.885	83.113	-91.823	1.00153.52	B	O	
ATOM	2816	N	VAL	B	294	118.642	83.177	-92.006	1.00148.57	B	N	
ATOM	2817	CA	VAL	B	294	118.506	84.453	-91.314	1.00148.57	B	C	
ATOM	2818	CB	VAL	B	294	117.054	84.965	-91.361	1.00148.57	B	C	
ATOM	2819	CG1	VAL	B	294	116.938	86.307	-90.655	1.00148.57	B	C	
ATOM	2820	CG2	VAL	B	294	116.577	85.073	-92.801	1.00148.57	B	C	
ATOM	2821	C	VAL	B	294	118.951	84.335	-89.859	1.00148.57	B	C	
ATOM	2822	O	VAL	B	294	119.481	85.285	-89.281	1.00148.57	B	O	
ATOM	2823	N	PHE	B	295	118.736	83.161	-89.273	1.00171.25	B	N	
ATOM	2824	CA	PHE	B	295	119.111	82.916	-87.885	1.00171.25	B	C	
ATOM	2825	CB	PHE	B	295	118.486	81.613	-87.381	1.00171.25	B	C	
ATOM	2826	CG	PHE	B	295	116.985	81.640	-87.332	1.00171.25	B	C	
ATOM	2827	CD1	PHE	B	295	116.301	82.844	-87.300	1.00171.25	B	C	

ATOM	2828	CD2	PHE	B	295	116.258	80.462	-87.315	1.00171.25	B	C
ATOM	2829	CE1	PHE	B	295	114.920	82.871	-87.253	1.00171.25	B	C
ATOM	2830	CE2	PHE	B	295	114.877	80.483	-87.269	1.00171.25	B	C
ATOM	2831	CZ	PHE	B	295	114.208	81.689	-87.238	1.00171.25	B	C
ATOM	2832	C	PHE	B	295	120.626	82.872	-87.711	1.00171.25	B	C
ATOM	2833	O	PHE	B	295	121.132	82.924	-86.590	1.00171.25	B	O
ATOM	2834	N	ARG	B	296	121.344	82.777	-88.824	1.00159.61	B	N
ATOM	2835	CA	ARG	B	296	122.802	82.743	-88.793	1.00159.61	B	C
ATOM	2836	CB	ARG	B	296	123.355	82.223	-90.121	1.00159.61	B	C
ATOM	2837	CG	ARG	B	296	122.908	80.813	-90.471	1.00159.61	B	C
ATOM	2838	CD	ARG	B	296	123.466	80.366	-91.814	1.00159.61	B	C
ATOM	2839	NE	ARG	B	296	124.926	80.338	-91.824	1.00159.61	B	N
ATOM	2840	CZ	ARG	B	296	125.690	81.327	-92.275	1.00159.61	B	C
ATOM	2841	NH1	ARG	B	296	125.135	82.430	-92.759	1.00159.61	B	N
ATOM	2842	NH2	ARG	B	296	127.011	81.213	-92.244	1.00159.61	B	N
ATOM	2843	C	ARG	B	296	123.375	84.123	-88.489	1.00159.61	B	C
ATOM	2844	O	ARG	B	296	124.582	84.277	-88.299	1.00159.61	B	O
ATOM	2845	N	VAL	B	297	122.503	85.124	-88.444	1.00167.62	B	N
ATOM	2846	CA	VAL	B	297	122.915	86.490	-88.145	1.00167.62	B	C
ATOM	2847	CB	VAL	B	297	121.971	87.517	-88.801	1.00167.62	B	C
ATOM	2848	CG1	VAL	B	297	122.468	88.935	-88.556	1.00167.62	B	C
ATOM	2849	CG2	VAL	B	297	121.848	87.245	-90.292	1.00167.62	B	C
ATOM	2850	C	VAL	B	297	122.947	86.718	-86.637	1.00167.62	B	C
ATOM	2851	O	VAL	B	297	123.592	87.647	-86.150	1.00167.62	B	O
ATOM	2852	N	PHE	B	298	122.254	85.855	-85.900	1.00121.45	B	N
ATOM	2853	CA	PHE	B	298	122.179	85.971	-84.448	1.00121.45	B	C
ATOM	2854	CB	PHE	B	298	121.042	85.107	-83.899	1.00121.45	B	C
ATOM	2855	CG	PHE	B	298	119.677	85.541	-84.351	1.00121.45	B	C
ATOM	2856	CD1	PHE	B	298	119.464	86.827	-84.821	1.00121.45	B	C
ATOM	2857	CD2	PHE	B	298	118.606	84.665	-84.306	1.00121.45	B	C
ATOM	2858	CE1	PHE	B	298	118.210	87.230	-85.238	1.00121.45	B	C
ATOM	2859	CE2	PHE	B	298	117.349	85.062	-84.721	1.00121.45	B	C
ATOM	2860	CZ	PHE	B	298	117.151	86.346	-85.187	1.00121.45	B	C
ATOM	2861	C	PHE	B	298	123.496	85.600	-83.772	1.00121.45	B	C
ATOM	2862	O	PHE	B	298	123.592	85.600	-82.545	1.00121.45	B	O
ATOM	2863	N	ARG	B	299	124.506	85.285	-84.575	1.00168.10	B	N
ATOM	2864	CA	ARG	B	299	125.822	84.945	-84.046	1.00168.10	B	C
ATOM	2865	CB	ARG	B	299	126.672	84.258	-85.116	1.00168.10	B	C
ATOM	2866	CG	ARG	B	299	126.937	85.112	-86.345	1.00168.10	B	C
ATOM	2867	CD	ARG	B	299	127.761	84.357	-87.374	1.00168.10	B	C
ATOM	2868	NE	ARG	B	299	127.105	83.123	-87.798	1.00168.10	B	N
ATOM	2869	CZ	ARG	B	299	127.589	82.297	-88.719	1.00168.10	B	C
ATOM	2870	NH1	ARG	B	299	128.739	82.570	-89.320	1.00168.10	B	N
ATOM	2871	NH2	ARG	B	299	126.923	81.196	-89.041	1.00168.10	B	N
ATOM	2872	C	ARG	B	299	126.535	86.189	-83.527	1.00168.10	B	C
ATOM	2873	O	ARG	B	299	127.582	86.096	-82.887	1.00168.10	B	O
ATOM	2874	N	ILE	B	300	125.958	87.353	-83.809	1.00203.46	B	N
ATOM	2875	CA	ILE	B	300	126.518	88.620	-83.356	1.00203.46	B	C
ATOM	2876	CB	ILE	B	300	125.997	89.797	-84.201	1.00203.46	B	C
ATOM	2877	CG2	ILE	B	300	126.689	91.091	-83.802	1.00203.46	B	C
ATOM	2878	CG1	ILE	B	300	126.199	89.512	-85.690	1.00203.46	B	C
ATOM	2879	CD1	ILE	B	300	125.674	90.600	-86.597	1.00203.46	B	C
ATOM	2880	C	ILE	B	300	126.177	88.862	-81.889	1.00203.46	B	C
ATOM	2881	O	ILE	B	300	126.870	89.604	-81.193	1.00203.46	B	O
ATOM	2882	N	PHE	B	301	125.108	88.224	-81.424	1.00106.14	B	N
ATOM	2883	CA	PHE	B	301	124.686	88.348	-80.034	1.00106.14	B	C
ATOM	2884	CB	PHE	B	301	123.253	87.841	-79.860	1.00106.14	B	C
ATOM	2885	CG	PHE	B	301	122.226	88.663	-80.585	1.00106.14	B	C
ATOM	2886	CD1	PHE	B	301	122.483	89.982	-80.914	1.00106.14	B	C
ATOM	2887	CD2	PHE	B	301	121.003	88.115	-80.936	1.00106.14	B	C
ATOM	2888	CE1	PHE	B	301	121.540	90.741	-81.580	1.00106.14	B	C
ATOM	2889	CE2	PHE	B	301	120.056	88.869	-81.603	1.00106.14	B	C
ATOM	2890	CZ	PHE	B	301	120.325	90.184	-81.925	1.00106.14	B	C
ATOM	2891	C	PHE	B	301	125.624	87.591	-79.100	1.00106.14	B	C
ATOM	2892	O	PHE	B	301	125.383	87.507	-77.897	1.00106.14	B	O
ATOM	2893	N	LYS	B	302	126.695	87.039	-79.662	1.00168.00	B	N
ATOM	2894	CA	LYS	B	302	127.663	86.280	-78.881	1.00168.00	B	C
ATOM	2895	CB	LYS	B	302	128.412	85.288	-79.775	1.00168.00	B	C

ATOM	2896	CG	LYS	B	302	129.251	84.273	-79.016	1.00168.00	B	C
ATOM	2897	CD	LYS	B	302	129.891	83.267	-79.960	1.00168.00	B	C
ATOM	2898	CE	LYS	B	302	128.842	82.506	-80.754	1.00168.00	B	C
ATOM	2899	NZ	LYS	B	302	127.929	81.731	-79.870	1.00168.00	B	N
ATOM	2900	C	LYS	B	302	128.645	87.212	-78.177	1.00168.00	B	C
ATOM	2901	O	LYS	B	302	129.359	86.802	-77.262	1.00168.00	B	O
ATOM	2902	N	PHE	B	303	128.673	88.470	-78.607	1.00 83.96	B	N
ATOM	2903	CA	PHE	B	303	129.533	89.471	-77.986	1.00 83.96	B	C
ATOM	2904	CB	PHE	B	303	129.642	90.718	-78.867	1.00 83.96	B	C
ATOM	2905	CG	PHE	B	303	130.425	90.504	-80.131	1.00 83.96	B	C
ATOM	2906	CD1	PHE	B	303	131.809	90.522	-80.114	1.00 83.96	B	C
ATOM	2907	CD2	PHE	B	303	129.778	90.296	-81.337	1.00 83.96	B	C
ATOM	2908	CE1	PHE	B	303	132.534	90.330	-81.274	1.00 83.96	B	C
ATOM	2909	CE2	PHE	B	303	130.496	90.104	-82.501	1.00 83.96	B	C
ATOM	2910	CZ	PHE	B	303	131.876	90.120	-82.470	1.00 83.96	B	C
ATOM	2911	C	PHE	B	303	129.017	89.857	-76.604	1.00 83.96	B	C
ATOM	2912	O	PHE	B	303	129.708	90.530	-75.840	1.00 83.96	B	O
ATOM	2913	N	SER	B	304	127.798	89.429	-76.291	1.00 64.30	B	N
ATOM	2914	CA	SER	B	304	127.186	89.729	-75.001	1.00 64.30	B	C
ATOM	2915	CB	SER	B	304	125.728	89.267	-74.978	1.00 64.30	B	C
ATOM	2916	OG	SER	B	304	125.635	87.866	-75.167	1.00 64.30	B	O
ATOM	2917	C	SER	B	304	127.961	89.080	-73.860	1.00 64.30	B	C
ATOM	2918	O	SER	B	304	127.936	89.559	-72.727	1.00 64.30	B	O
ATOM	2919	N	ARG	B	305	128.649	87.985	-74.168	1.00148.97	B	N
ATOM	2920	CA	ARG	B	305	129.443	87.275	-73.174	1.00148.97	B	C
ATOM	2921	CB	ARG	B	305	129.627	85.812	-73.585	1.00148.97	B	C
ATOM	2922	CG	ARG	B	305	130.253	84.935	-72.514	1.00148.97	B	C
ATOM	2923	CD	ARG	B	305	130.356	83.491	-72.977	1.00148.97	B	C
ATOM	2924	NE	ARG	B	305	130.892	82.620	-71.936	1.00148.97	B	N
ATOM	2925	CZ	ARG	B	305	130.148	81.985	-71.037	1.00148.97	B	C
ATOM	2926	NH1	ARG	B	305	128.829	82.123	-71.049	1.00148.97	B	N
ATOM	2927	NH2	ARG	B	305	130.721	81.211	-70.126	1.00148.97	B	N
ATOM	2928	C	ARG	B	305	130.799	87.949	-72.990	1.00148.97	B	C
ATOM	2929	O	ARG	B	305	131.529	87.655	-72.044	1.00148.97	B	O
ATOM	2930	N	HIS	B	306	131.126	88.859	-73.902	1.00 99.22	B	N
ATOM	2931	CA	HIS	B	306	132.392	89.580	-73.846	1.00 99.22	B	C
ATOM	2932	ND1	HIS	B	306	132.349	87.384	-76.117	1.00 99.22	B	N
ATOM	2933	CG	HIS	B	306	133.331	88.307	-75.826	1.00 99.22	B	C
ATOM	2934	CB	HIS	B	306	133.030	89.648	-75.235	1.00 99.22	B	C
ATOM	2935	NE2	HIS	B	306	134.211	86.483	-76.675	1.00 99.22	B	N
ATOM	2936	CD2	HIS	B	306	134.504	87.731	-76.181	1.00 99.22	B	C
ATOM	2937	CE1	HIS	B	306	132.904	86.299	-76.625	1.00 99.22	B	C
ATOM	2938	C	HIS	B	306	132.200	90.987	-73.289	1.00 99.22	B	C
ATOM	2939	O	HIS	B	306	132.806	91.355	-72.283	1.00 99.22	B	O
ATOM	2940	N	SER	B	307	131.354	91.770	-73.952	1.00102.77	B	N
ATOM	2941	CA	SER	B	307	131.080	93.136	-73.524	1.00102.77	B	C
ATOM	2942	CB	SER	B	307	130.745	94.017	-74.729	1.00102.77	B	C
ATOM	2943	OG	SER	B	307	131.819	94.048	-75.652	1.00102.77	B	O
ATOM	2944	C	SER	B	307	129.941	93.177	-72.510	1.00102.77	B	C
ATOM	2945	O	SER	B	307	129.093	92.286	-72.478	1.00102.77	B	O
ATOM	2946	N	GLN	B	308	129.929	94.218	-71.684	1.00121.93	B	N
ATOM	2947	CA	GLN	B	308	128.908	94.370	-70.655	1.00121.93	B	C
ATOM	2948	CB	GLN	B	308	129.523	94.941	-69.376	1.00121.93	B	C
ATOM	2949	CG	GLN	B	308	130.685	94.127	-68.829	1.00121.93	B	C
ATOM	2950	CD	GLN	B	308	130.275	92.727	-68.416	1.00121.93	B	C
ATOM	2951	OE1	GLN	B	308	129.305	92.544	-67.681	1.00121.93	B	O
ATOM	2952	NE2	GLN	B	308	131.009	91.729	-68.893	1.00121.93	B	N
ATOM	2953	C	GLN	B	308	127.772	95.269	-71.134	1.00121.93	B	C
ATOM	2954	O	GLN	B	308	126.811	95.513	-70.405	1.00121.93	B	O
ATOM	2955	N	GLY	B	309	127.892	95.759	-72.363	1.00 30.52	B	N
ATOM	2956	CA	GLY	B	309	126.882	96.627	-72.941	1.00 30.52	B	C
ATOM	2957	C	GLY	B	309	125.614	95.883	-73.312	1.00 30.52	B	C
ATOM	2958	O	GLY	B	309	124.508	96.364	-73.068	1.00 30.52	B	O
ATOM	2959	N	LEU	B	310	125.776	94.706	-73.906	1.00101.35	B	N
ATOM	2960	CA	LEU	B	310	124.638	93.889	-74.311	1.00101.35	B	C
ATOM	2961	CB	LEU	B	310	125.073	92.813	-75.307	1.00101.35	B	C
ATOM	2962	CG	LEU	B	310	125.663	93.312	-76.627	1.00101.35	B	C
ATOM	2963	CD1	LEU	B	310	126.104	92.143	-77.492	1.00101.35	B	C

ATOM	2964	CD2	LEU	B	310	124.660	94.184	-77.367	1.00101.35	B	C
ATOM	2965	C	LEU	B	310	123.963	93.245	-73.105	1.00101.35	B	C
ATOM	2966	O	LEU	B	310	122.785	92.894	-73.155	1.00101.35	B	O
ATOM	2967	N	ARG	B	311	124.719	93.090	-72.022	1.00108.34	B	N
ATOM	2968	CA	ARG	B	311	124.181	92.518	-70.795	1.00108.34	B	C
ATOM	2969	CB	ARG	B	311	125.308	92.187	-69.814	1.00108.34	B	C
ATOM	2970	CG	ARG	B	311	126.252	91.097	-70.294	1.00108.34	B	C
ATOM	2971	CD	ARG	B	311	127.306	90.786	-69.245	1.00108.34	B	C
ATOM	2972	NE	ARG	B	311	126.707	90.404	-67.969	1.00108.34	B	N
ATOM	2973	CZ	ARG	B	311	126.441	89.152	-67.614	1.00108.34	B	C
ATOM	2974	NH1	ARG	B	311	126.723	88.152	-68.438	1.00108.34	B	N
ATOM	2975	NH2	ARG	B	311	125.895	88.897	-66.433	1.00108.34	B	N
ATOM	2976	C	ARG	B	311	123.180	93.466	-70.144	1.00108.34	B	C
ATOM	2977	O	ARG	B	311	122.097	93.052	-69.732	1.00108.34	B	O
ATOM	2978	N	ILE	B	312	123.550	94.740	-70.056	1.00 41.79	B	N
ATOM	2979	CA	ILE	B	312	122.679	95.750	-69.467	1.00 41.79	B	C
ATOM	2980	CB	ILE	B	312	123.425	97.078	-69.241	1.00 41.79	B	C
ATOM	2981	CG2	ILE	B	312	122.498	98.109	-68.615	1.00 41.79	B	C
ATOM	2982	CG1	ILE	B	312	124.656	96.857	-68.361	1.00 41.79	B	C
ATOM	2983	CD1	ILE	B	312	125.453	98.115	-68.097	1.00 41.79	B	C
ATOM	2984	C	ILE	B	312	121.463	96.001	-70.350	1.00 41.79	B	C
ATOM	2985	O	ILE	B	312	120.335	96.073	-69.863	1.00 41.79	B	O
ATOM	2986	N	LEU	B	313	121.701	96.134	-71.651	1.00 49.07	B	N
ATOM	2987	CA	LEU	B	313	120.626	96.360	-72.610	1.00 49.07	B	C
ATOM	2988	CB	LEU	B	313	121.200	96.611	-74.006	1.00 49.07	B	C
ATOM	2989	CG	LEU	B	313	120.186	96.874	-75.122	1.00 49.07	B	C
ATOM	2990	CD1	LEU	B	313	119.309	98.067	-74.779	1.00 49.07	B	C
ATOM	2991	CD2	LEU	B	313	120.893	97.089	-76.451	1.00 49.07	B	C
ATOM	2992	C	LEU	B	313	119.664	95.178	-72.643	1.00 49.07	B	C
ATOM	2993	O	LEU	B	313	118.460	95.350	-72.829	1.00 49.07	B	O
ATOM	2994	N	GLY	B	314	120.204	93.977	-72.461	1.00 27.86	B	N
ATOM	2995	CA	GLY	B	314	119.398	92.770	-72.460	1.00 27.86	B	C
ATOM	2996	C	GLY	B	314	118.471	92.698	-71.263	1.00 27.86	B	C
ATOM	2997	O	GLY	B	314	117.304	92.326	-71.392	1.00 27.86	B	O
ATOM	2998	N	TYR	B	315	118.992	93.056	-70.095	1.00 99.30	B	N
ATOM	2999	CA	TYR	B	315	118.205	93.042	-68.867	1.00 99.30	B	C
ATOM	3000	CB	TYR	B	315	119.117	93.142	-67.643	1.00 99.30	B	C
ATOM	3001	CG	TYR	B	315	120.081	91.987	-67.504	1.00 99.30	B	C
ATOM	3002	CD1	TYR	B	315	121.248	92.115	-66.762	1.00 99.30	B	C
ATOM	3003	CD2	TYR	B	315	119.824	90.766	-68.114	1.00 99.30	B	C
ATOM	3004	CE1	TYR	B	315	122.132	91.061	-66.633	1.00 99.30	B	C
ATOM	3005	CE2	TYR	B	315	120.702	89.707	-67.991	1.00 99.30	B	C
ATOM	3006	CZ	TYR	B	315	121.854	89.860	-67.249	1.00 99.30	B	C
ATOM	3007	OH	TYR	B	315	122.731	88.807	-67.124	1.00 99.30	B	O
ATOM	3008	C	TYR	B	315	117.185	94.175	-68.856	1.00 99.30	B	C
ATOM	3009	O	TYR	B	315	116.131	94.068	-68.229	1.00 99.30	B	O
ATOM	3010	N	THR	B	316	117.505	95.260	-69.554	1.00115.27	B	N
ATOM	3011	CA	THR	B	316	116.609	96.407	-69.638	1.00115.27	B	C
ATOM	3012	CB	THR	B	316	117.315	97.635	-70.242	1.00115.27	B	C
ATOM	3013	OG1	THR	B	316	118.419	98.013	-69.410	1.00115.27	B	O
ATOM	3014	CG2	THR	B	316	116.349	98.804	-70.353	1.00115.27	B	C
ATOM	3015	C	THR	B	316	115.377	96.075	-70.472	1.00115.27	B	C
ATOM	3016	O	THR	B	316	114.249	96.349	-70.065	1.00115.27	B	O
ATOM	3017	N	LEU	B	317	115.601	95.483	-71.641	1.00 53.09	B	N
ATOM	3018	CA	LEU	B	317	114.508	95.100	-72.527	1.00 53.09	B	C
ATOM	3019	CB	LEU	B	317	115.045	94.706	-73.905	1.00 53.09	B	C
ATOM	3020	CG	LEU	B	317	115.798	95.790	-74.679	1.00 53.09	B	C
ATOM	3021	CD1	LEU	B	317	116.330	95.243	-75.994	1.00 53.09	B	C
ATOM	3022	CD2	LEU	B	317	114.904	96.997	-74.920	1.00 53.09	B	C
ATOM	3023	C	LEU	B	317	113.695	93.956	-71.931	1.00 53.09	B	C
ATOM	3024	O	LEU	B	317	112.511	93.801	-72.229	1.00 53.09	B	O
ATOM	3025	N	LYS	B	318	114.339	93.156	-71.087	1.00 75.11	B	N
ATOM	3026	CA	LYS	B	318	113.670	92.041	-70.428	1.00 75.11	B	C
ATOM	3027	CB	LYS	B	318	114.695	91.076	-69.830	1.00 75.11	B	C
ATOM	3028	CG	LYS	B	318	114.079	89.882	-69.121	1.00 75.11	B	C
ATOM	3029	CD	LYS	B	318	115.149	88.974	-68.537	1.00 75.11	B	C
ATOM	3030	CE	LYS	B	318	116.070	88.441	-69.621	1.00 75.11	B	C
ATOM	3031	NZ	LYS	B	318	117.128	87.556	-69.060	1.00 75.11	B	N

ATOM	3032	C	LYS	B	318	112.726	92.541	-69.340	1.00	75.11	B	C
ATOM	3033	O	LYS	B	318	111.568	92.128	-69.271	1.00	75.11	B	O
ATOM	3034	N	SER	B	319	113.228	93.432	-68.491	1.00	82.79	B	N
ATOM	3035	CA	SER	B	319	112.423	94.008	-67.420	1.00	82.79	B	C
ATOM	3036	CB	SER	B	319	113.309	94.781	-66.441	1.00	82.79	B	C
ATOM	3037	OG	SER	B	319	112.535	95.368	-65.409	1.00	82.79	B	O
ATOM	3038	C	SER	B	319	111.343	94.925	-67.983	1.00	82.79	B	C
ATOM	3039	O	SER	B	319	110.302	95.130	-67.359	1.00	82.79	B	O
ATOM	3040	N	CYS	B	320	111.599	95.473	-69.166	1.00	91.34	B	N
ATOM	3041	CA	CYS	B	320	110.647	96.361	-69.823	1.00	91.34	B	C
ATOM	3042	CB	CYS	B	320	111.357	97.602	-70.367	1.00	91.34	B	C
ATOM	3043	SG	CYS	B	320	112.186	98.601	-69.109	1.00	91.34	B	S
ATOM	3044	C	CYS	B	320	109.916	95.641	-70.950	1.00	91.34	B	C
ATOM	3045	O	CYS	B	320	109.536	96.254	-71.948	1.00	91.34	B	O
ATOM	3046	N	ALA	B	321	109.724	94.336	-70.785	1.00	55.04	B	N
ATOM	3047	CA	ALA	B	321	109.020	93.533	-71.777	1.00	55.04	B	C
ATOM	3048	CB	ALA	B	321	109.038	92.065	-71.381	1.00	55.04	B	C
ATOM	3049	C	ALA	B	321	107.587	94.022	-71.950	1.00	55.04	B	C
ATOM	3050	O	ALA	B	321	107.023	93.950	-73.042	1.00	55.04	B	O
ATOM	3051	N	SER	B	322	107.005	94.522	-70.865	1.00	39.37	B	N
ATOM	3052	CA	SER	B	322	105.651	95.058	-70.899	1.00	39.37	B	C
ATOM	3053	CB	SER	B	322	104.998	94.952	-69.519	1.00	39.37	B	C
ATOM	3054	OG	SER	B	322	104.927	93.604	-69.090	1.00	39.37	B	O
ATOM	3055	C	SER	B	322	105.656	96.508	-71.368	1.00	39.37	B	C
ATOM	3056	O	SER	B	322	104.779	96.930	-72.121	1.00	39.37	B	O
ATOM	3057	N	GLU	B	323	106.650	97.267	-70.917	1.00	101.99	B	N
ATOM	3058	CA	GLU	B	323	106.783	98.667	-71.302	1.00	101.99	B	C
ATOM	3059	CB	GLU	B	323	107.988	99.303	-70.607	1.00	101.99	B	C
ATOM	3060	CG	GLU	B	323	107.933	99.251	-69.088	1.00	101.99	B	C
ATOM	3061	CD	GLU	B	323	106.804	100.085	-68.513	1.00	101.99	B	C
ATOM	3062	OE1	GLU	B	323	106.181	100.856	-69.273	1.00	101.99	B	O
ATOM	3063	OE2	GLU	B	323	106.541	99.970	-67.298	1.00	101.99	B	O
ATOM	3064	C	GLU	B	323	106.921	98.804	-72.814	1.00	101.99	B	C
ATOM	3065	O	GLU	B	323	106.298	99.669	-73.429	1.00	101.99	B	O
ATOM	3066	N	LEU	B	324	107.743	97.942	-73.406	1.00	51.45	B	N
ATOM	3067	CA	LEU	B	324	107.944	97.943	-74.849	1.00	51.45	B	C
ATOM	3068	CB	LEU	B	324	109.115	97.033	-75.225	1.00	51.45	B	C
ATOM	3069	CG	LEU	B	324	109.485	96.969	-76.709	1.00	51.45	B	C
ATOM	3070	CD1	LEU	B	324	109.840	98.351	-77.234	1.00	51.45	B	C
ATOM	3071	CD2	LEU	B	324	110.630	95.995	-76.936	1.00	51.45	B	C
ATOM	3072	C	LEU	B	324	106.678	97.493	-75.567	1.00	51.45	B	C
ATOM	3073	O	LEU	B	324	106.436	97.866	-76.715	1.00	51.45	B	O
ATOM	3074	N	GLY	B	325	105.871	96.689	-74.882	1.00	21.45	B	N
ATOM	3075	CA	GLY	B	325	104.627	96.195	-75.442	1.00	21.45	B	C
ATOM	3076	C	GLY	B	325	103.642	97.309	-75.737	1.00	21.45	B	C
ATOM	3077	O	GLY	B	325	103.034	97.344	-76.807	1.00	21.45	B	O
ATOM	3078	N	PHE	B	326	103.484	98.222	-74.784	1.00	93.89	B	N
ATOM	3079	CA	PHE	B	326	102.575	99.351	-74.948	1.00	93.89	B	C
ATOM	3080	CB	PHE	B	326	102.321	100.041	-73.605	1.00	93.89	B	C
ATOM	3081	CG	PHE	B	326	101.535	99.207	-72.632	1.00	93.89	B	C
ATOM	3082	CD1	PHE	B	326	102.181	98.395	-71.715	1.00	93.89	B	C
ATOM	3083	CD2	PHE	B	326	100.151	99.238	-72.635	1.00	93.89	B	C
ATOM	3084	CE1	PHE	B	326	101.460	97.628	-70.819	1.00	93.89	B	C
ATOM	3085	CE2	PHE	B	326	99.425	98.473	-71.741	1.00	93.89	B	C
ATOM	3086	CZ	PHE	B	326	100.080	97.667	-70.833	1.00	93.89	B	C
ATOM	3087	C	PHE	B	326	103.114	100.355	-75.962	1.00	93.89	B	C
ATOM	3088	O	PHE	B	326	102.357	101.142	-76.530	1.00	93.89	B	O
ATOM	3089	N	LEU	B	327	104.424	100.325	-76.182	1.00	47.15	B	N
ATOM	3090	CA	LEU	B	327	105.057	101.218	-77.146	1.00	47.15	B	C
ATOM	3091	CB	LEU	B	327	106.581	101.140	-77.034	1.00	47.15	B	C
ATOM	3092	CG	LEU	B	327	107.380	101.961	-78.048	1.00	47.15	B	C
ATOM	3093	CD1	LEU	B	327	106.957	103.422	-78.023	1.00	47.15	B	C
ATOM	3094	CD2	LEU	B	327	108.872	101.827	-77.789	1.00	47.15	B	C
ATOM	3095	C	LEU	B	327	104.617	100.885	-78.567	1.00	47.15	B	C
ATOM	3096	O	LEU	B	327	104.280	101.775	-79.347	1.00	47.15	B	O
ATOM	3097	N	LEU	B	328	104.623	99.598	-78.897	1.00	87.13	B	N
ATOM	3098	CA	LEU	B	328	104.187	99.144	-80.211	1.00	87.13	B	C
ATOM	3099	CB	LEU	B	328	104.788	97.775	-80.542	1.00	87.13	B	C

ATOM	3100	CG	LEU	B	328	106.269	97.715	-80.931	1.00	87.13	B	C
ATOM	3101	CD1	LEU	B	328	107.164	98.232	-79.815	1.00	87.13	B	C
ATOM	3102	CD2	LEU	B	328	106.658	96.295	-81.313	1.00	87.13	B	C
ATOM	3103	C	LEU	B	328	102.666	99.081	-80.279	1.00	87.13	B	C
ATOM	3104	O	LEU	B	328	102.077	99.175	-81.357	1.00	87.13	B	O
ATOM	3105	N	PHE	B	329	102.034	98.924	-79.121	1.00	48.49	B	N
ATOM	3106	CA	PHE	B	329	100.580	98.870	-79.045	1.00	48.49	B	C
ATOM	3107	CB	PHE	B	329	100.129	98.413	-77.657	1.00	48.49	B	C
ATOM	3108	CG	PHE	B	329	98.637	98.351	-77.495	1.00	48.49	B	C
ATOM	3109	CD1	PHE	B	329	97.934	97.212	-77.853	1.00	48.49	B	C
ATOM	3110	CD2	PHE	B	329	97.939	99.431	-76.985	1.00	48.49	B	C
ATOM	3111	CE1	PHE	B	329	96.560	97.152	-77.706	1.00	48.49	B	C
ATOM	3112	CE2	PHE	B	329	96.567	99.378	-76.836	1.00	48.49	B	C
ATOM	3113	CZ	PHE	B	329	95.876	98.237	-77.196	1.00	48.49	B	C
ATOM	3114	C	PHE	B	329	99.970	100.227	-79.376	1.00	48.49	B	C
ATOM	3115	O	PHE	B	329	99.219	100.361	-80.342	1.00	48.49	B	O
ATOM	3116	N	SER	B	330	100.298	101.231	-78.568	1.00	71.43	B	N
ATOM	3117	CA	SER	B	330	99.804	102.586	-78.785	1.00	71.43	B	C
ATOM	3118	CB	SER	B	330	100.324	103.526	-77.697	1.00	71.43	B	C
ATOM	3119	OG	SER	B	330	101.741	103.542	-77.672	1.00	71.43	B	O
ATOM	3120	C	SER	B	330	100.210	103.101	-80.162	1.00	71.43	B	C
ATOM	3121	O	SER	B	330	99.553	103.977	-80.726	1.00	71.43	B	O
ATOM	3122	N	LEU	B	331	101.296	102.553	-80.697	1.00	53.19	B	N
ATOM	3123	CA	LEU	B	331	101.765	102.920	-82.027	1.00	53.19	B	C
ATOM	3124	CB	LEU	B	331	103.178	102.384	-82.265	1.00	53.19	B	C
ATOM	3125	CG	LEU	B	331	103.772	102.623	-83.655	1.00	53.19	B	C
ATOM	3126	CD1	LEU	B	331	103.886	104.111	-83.946	1.00	53.19	B	C
ATOM	3127	CD2	LEU	B	331	105.126	101.944	-83.785	1.00	53.19	B	C
ATOM	3128	C	LEU	B	331	100.820	102.385	-83.097	1.00	53.19	B	C
ATOM	3129	O	LEU	B	331	100.253	103.151	-83.875	1.00	53.19	B	O
ATOM	3130	N	THR	B	332	100.654	101.066	-83.124	1.00	103.02	B	N
ATOM	3131	CA	THR	B	332	99.790	100.414	-84.102	1.00	103.02	B	C
ATOM	3132	CB	THR	B	332	99.685	98.900	-83.839	1.00	103.02	B	C
ATOM	3133	OG1	THR	B	332	100.993	98.315	-83.868	1.00	103.02	B	O
ATOM	3134	CG2	THR	B	332	98.812	98.233	-84.891	1.00	103.02	B	C
ATOM	3135	C	THR	B	332	98.391	101.022	-84.108	1.00	103.02	B	C
ATOM	3136	O	THR	B	332	97.783	101.193	-85.164	1.00	103.02	B	O
ATOM	3137	N	MET	B	333	97.887	101.348	-82.922	1.00	112.73	B	N
ATOM	3138	CA	MET	B	333	96.572	101.966	-82.794	1.00	112.73	B	C
ATOM	3139	CB	MET	B	333	96.252	102.249	-81.325	1.00	112.73	B	C
ATOM	3140	CG	MET	B	333	96.154	101.004	-80.459	1.00	112.73	B	C
ATOM	3141	SD	MET	B	333	94.877	99.865	-81.027	1.00	112.73	B	S
ATOM	3142	CE	MET	B	333	93.424	100.908	-80.923	1.00	112.73	B	C
ATOM	3143	C	MET	B	333	96.497	103.255	-83.603	1.00	112.73	B	C
ATOM	3144	O	MET	B	333	95.600	103.430	-84.428	1.00	112.73	B	O
ATOM	3145	N	ALA	B	334	97.447	104.153	-83.365	1.00	30.08	B	N
ATOM	3146	CA	ALA	B	334	97.489	105.430	-84.067	1.00	30.08	B	C
ATOM	3147	CB	ALA	B	334	98.562	106.327	-83.469	1.00	30.08	B	C
ATOM	3148	C	ALA	B	334	97.724	105.239	-85.562	1.00	30.08	B	C
ATOM	3149	O	ALA	B	334	97.247	106.027	-86.379	1.00	30.08	B	O
ATOM	3150	N	ILE	B	335	98.459	104.189	-85.914	1.00	41.45	B	N
ATOM	3151	CA	ILE	B	335	98.763	103.900	-87.312	1.00	41.45	B	C
ATOM	3152	CB	ILE	B	335	99.590	102.608	-87.460	1.00	41.45	B	C
ATOM	3153	CG2	ILE	B	335	99.747	102.241	-88.927	1.00	41.45	B	C
ATOM	3154	CG1	ILE	B	335	100.962	102.775	-86.804	1.00	41.45	B	C
ATOM	3155	CD1	ILE	B	335	101.840	101.546	-86.902	1.00	41.45	B	C
ATOM	3156	C	ILE	B	335	97.496	103.781	-88.152	1.00	41.45	B	C
ATOM	3157	O	ILE	B	335	97.318	104.509	-89.128	1.00	41.45	B	O
ATOM	3158	N	ILE	B	336	96.618	102.861	-87.767	1.00	44.55	B	N
ATOM	3159	CA	ILE	B	336	95.381	102.626	-88.501	1.00	44.55	B	C
ATOM	3160	CB	ILE	B	336	94.598	101.434	-87.916	1.00	44.55	B	C
ATOM	3161	CG2	ILE	B	336	93.389	101.112	-88.782	1.00	44.55	B	C
ATOM	3162	CG1	ILE	B	336	95.512	100.213	-87.781	1.00	44.55	B	C
ATOM	3163	CD1	ILE	B	336	94.830	98.999	-87.190	1.00	44.55	B	C
ATOM	3164	C	ILE	B	336	94.487	103.864	-88.506	1.00	44.55	B	C
ATOM	3165	O	ILE	B	336	93.759	104.111	-89.467	1.00	44.55	B	O
ATOM	3166	N	ILE	B	337	94.551	104.641	-87.430	1.00	87.94	B	N
ATOM	3167	CA	ILE	B	337	93.733	105.842	-87.300	1.00	87.94	B	C

ATOM	3168	CB	ILE	B	337	93.892	106.487	-85.910	1.00	87.94	B	C
ATOM	3169	CG2	ILE	B	337	93.105	107.786	-85.832	1.00	87.94	B	C
ATOM	3170	CG1	ILE	B	337	93.437	105.519	-84.818	1.00	87.94	B	C
ATOM	3171	CD1	ILE	B	337	93.624	106.051	-83.415	1.00	87.94	B	C
ATOM	3172	C	ILE	B	337	94.065	106.881	-88.368	1.00	87.94	B	C
ATOM	3173	O	ILE	B	337	93.181	107.354	-89.082	1.00	87.94	B	O
ATOM	3174	N	PHE	B	338	95.343	107.232	-88.472	1.00	61.40	B	N
ATOM	3175	CA	PHE	B	338	95.780	108.252	-89.419	1.00	61.40	B	C
ATOM	3176	CB	PHE	B	338	97.116	108.857	-88.982	1.00	61.40	B	C
ATOM	3177	CG	PHE	B	338	97.048	109.603	-87.680	1.00	61.40	B	C
ATOM	3178	CD1	PHE	B	338	96.618	110.919	-87.642	1.00	61.40	B	C
ATOM	3179	CD2	PHE	B	338	97.417	108.989	-86.495	1.00	61.40	B	C
ATOM	3180	CE1	PHE	B	338	96.555	111.608	-86.445	1.00	61.40	B	C
ATOM	3181	CE2	PHE	B	338	97.356	109.673	-85.295	1.00	61.40	B	C
ATOM	3182	CZ	PHE	B	338	96.925	110.984	-85.270	1.00	61.40	B	C
ATOM	3183	C	PHE	B	338	95.886	107.713	-90.843	1.00	61.40	B	C
ATOM	3184	O	PHE	B	338	95.598	108.425	-91.805	1.00	61.40	B	O
ATOM	3185	N	ALA	B	339	96.299	106.457	-90.973	1.00	38.36	B	N
ATOM	3186	CA	ALA	B	339	96.463	105.838	-92.285	1.00	38.36	B	C
ATOM	3187	CB	ALA	B	339	96.956	104.406	-92.141	1.00	38.36	B	C
ATOM	3188	C	ALA	B	339	95.169	105.878	-93.091	1.00	38.36	B	C
ATOM	3189	O	ALA	B	339	95.194	105.873	-94.322	1.00	38.36	B	O
ATOM	3190	N	THR	B	340	94.040	105.920	-92.391	1.00	117.99	B	N
ATOM	3191	CA	THR	B	340	92.737	105.955	-93.046	1.00	117.99	B	C
ATOM	3192	CB	THR	B	340	91.650	105.278	-92.187	1.00	117.99	B	C
ATOM	3193	OG1	THR	B	340	91.600	105.899	-90.896	1.00	117.99	B	O
ATOM	3194	CG2	THR	B	340	91.951	103.796	-92.019	1.00	117.99	B	C
ATOM	3195	C	THR	B	340	92.305	107.380	-93.380	1.00	117.99	B	C
ATOM	3196	O	THR	B	340	92.024	107.696	-94.536	1.00	117.99	B	O
ATOM	3197	N	VAL	B	341	92.258	108.239	-92.366	1.00	49.53	B	N
ATOM	3198	CA	VAL	B	341	91.817	109.619	-92.551	1.00	49.53	B	C
ATOM	3199	CB	VAL	B	341	91.860	110.412	-91.229	1.00	49.53	B	C
ATOM	3200	CG1	VAL	B	341	90.907	109.803	-90.213	1.00	49.53	B	C
ATOM	3201	CG2	VAL	B	341	93.277	110.456	-90.679	1.00	49.53	B	C
ATOM	3202	C	VAL	B	341	92.645	110.350	-93.605	1.00	49.53	B	C
ATOM	3203	O	VAL	B	341	92.150	111.254	-94.278	1.00	49.53	B	O
ATOM	3204	N	MET	B	342	93.906	109.953	-93.746	1.00	112.56	B	N
ATOM	3205	CA	MET	B	342	94.793	110.562	-94.730	1.00	112.56	B	C
ATOM	3206	CB	MET	B	342	96.255	110.427	-94.296	1.00	112.56	B	C
ATOM	3207	CG	MET	B	342	96.587	111.140	-92.996	1.00	112.56	B	C
ATOM	3208	SD	MET	B	342	98.338	111.045	-92.576	1.00	112.56	B	S
ATOM	3209	CE	MET	B	342	98.571	109.272	-92.481	1.00	112.56	B	C
ATOM	3210	C	MET	B	342	94.597	109.938	-96.107	1.00	112.56	B	C
ATOM	3211	O	MET	B	342	94.896	110.557	-97.128	1.00	112.56	B	O
ATOM	3212	N	PHE	B	343	94.094	108.708	-96.128	1.00	78.09	B	N
ATOM	3213	CA	PHE	B	343	93.860	107.999	-97.380	1.00	78.09	B	C
ATOM	3214	CB	PHE	B	343	93.792	106.490	-97.142	1.00	78.09	B	C
ATOM	3215	CG	PHE	B	343	93.516	105.694	-98.386	1.00	78.09	B	C
ATOM	3216	CD1	PHE	B	343	94.540	105.377	-99.262	1.00	78.09	B	C
ATOM	3217	CD2	PHE	B	343	92.233	105.263	-98.678	1.00	78.09	B	C
ATOM	3218	CE1	PHE	B	343	94.290	104.647	-100.408	1.00	78.09	B	C
ATOM	3219	CE2	PHE	B	343	91.977	104.532	-99.823	1.00	78.09	B	C
ATOM	3220	CZ	PHE	B	343	93.007	104.223	-100.688	1.00	78.09	B	C
ATOM	3221	C	PHE	B	343	92.586	108.479	-98.066	1.00	78.09	B	C
ATOM	3222	O	PHE	B	343	92.592	108.791	-99.256	1.00	78.09	B	O
ATOM	3223	N	TYR	B	344	91.494	108.534	-97.310	1.00	66.10	B	N
ATOM	3224	CA	TYR	B	344	90.212	108.974	-97.851	1.00	66.10	B	C
ATOM	3225	CB	TYR	B	344	89.081	108.693	-96.858	1.00	66.10	B	C
ATOM	3226	CG	TYR	B	344	88.908	107.229	-96.520	1.00	66.10	B	C
ATOM	3227	CD1	TYR	B	344	88.203	106.380	-97.363	1.00	66.10	B	C
ATOM	3228	CD2	TYR	B	344	89.444	106.697	-95.355	1.00	66.10	B	C
ATOM	3229	CE1	TYR	B	344	88.042	105.041	-97.057	1.00	66.10	B	C
ATOM	3230	CE2	TYR	B	344	89.287	105.361	-95.041	1.00	66.10	B	C
ATOM	3231	CZ	TYR	B	344	88.586	104.538	-95.895	1.00	66.10	B	C
ATOM	3232	OH	TYR	B	344	88.428	103.207	-95.583	1.00	66.10	B	O
ATOM	3233	C	TYR	B	344	90.242	110.456	-98.210	1.00	66.10	B	C
ATOM	3234	O	TYR	B	344	89.343	110.959	-98.885	1.00	66.10	B	O
ATOM	3235	N	ALA	B	345	91.281	111.150	-97.755	1.00	55.12	B	N

ATOM	3236	CA	ALA	B	345	91.443	112.569	-98.045	1.00	55.12	B	C
ATOM	3237	CB	ALA	B	345	92.132	113.271	-96.885	1.00	55.12	B	C
ATOM	3238	C	ALA	B	345	92.227	112.776	-99.336	1.00	55.12	B	C
ATOM	3239	O	ALA	B	345	92.159	113.840	-99.952	1.00	55.12	B	O
ATOM	3240	N	GLU	B	346	92.969	111.750	-99.741	1.00	125.73	B	N
ATOM	3241	CA	GLU	B	346	93.766	111.814	-100.960	1.00	125.73	B	C
ATOM	3242	CB	GLU	B	346	95.212	111.399	-100.675	1.00	125.73	B	C
ATOM	3243	CG	GLU	B	346	95.917	112.261	-99.640	1.00	125.73	B	C
ATOM	3244	CD	GLU	B	346	96.151	113.681	-100.119	1.00	125.73	B	C
ATOM	3245	OE1	GLU	B	346	95.972	113.942	-101.327	1.00	125.73	B	O
ATOM	3246	OE2	GLU	B	346	96.514	114.537	-99.286	1.00	125.73	B	O
ATOM	3247	C	GLU	B	346	93.175	110.929	-102.053	1.00	125.73	B	C
ATOM	3248	O	GLU	B	346	93.641	110.940	-103.192	1.00	125.73	B	O
ATOM	3249	N	LYS	B	347	92.147	110.166	-101.698	1.00	138.31	B	N
ATOM	3250	CA	LYS	B	347	91.501	109.261	-102.642	1.00	138.31	B	C
ATOM	3251	CB	LYS	B	347	90.500	108.357	-101.918	1.00	138.31	B	C
ATOM	3252	CG	LYS	B	347	89.817	107.338	-102.817	1.00	138.31	B	C
ATOM	3253	CD	LYS	B	347	88.838	106.478	-102.034	1.00	138.31	B	C
ATOM	3254	CE	LYS	B	347	88.157	105.459	-102.933	1.00	138.31	B	C
ATOM	3255	NZ	LYS	B	347	87.393	106.111	-104.032	1.00	138.31	B	N
ATOM	3256	C	LYS	B	347	90.802	110.030	-103.759	1.00	138.31	B	C
ATOM	3257	O	LYS	B	347	90.634	109.519	-104.867	1.00	138.31	B	O
ATOM	3258	N	GLY	B	348	90.399	111.261	-103.461	1.00	56.79	B	N
ATOM	3259	CA	GLY	B	348	89.720	112.097	-104.434	1.00	56.79	B	C
ATOM	3260	C	GLY	B	348	90.683	112.812	-105.362	1.00	56.79	B	C
ATOM	3261	O	GLY	B	348	90.320	113.790	-106.015	1.00	56.79	B	O
ATOM	3262	N	SER	B	349	91.917	112.321	-105.419	1.00	123.99	B	N
ATOM	3263	CA	SER	B	349	92.940	112.915	-106.271	1.00	123.99	B	C
ATOM	3264	CB	SER	B	349	94.037	113.558	-105.421	1.00	123.99	B	C
ATOM	3265	OG	SER	B	349	93.506	114.567	-104.580	1.00	123.99	B	O
ATOM	3266	C	SER	B	349	93.544	111.877	-107.210	1.00	123.99	B	C
ATOM	3267	O	SER	B	349	93.721	110.717	-106.838	1.00	123.99	B	O
ATOM	3268	N	SER	B	350	93.858	112.302	-108.430	1.00	183.36	B	N
ATOM	3269	CA	SER	B	350	94.437	111.410	-109.427	1.00	183.36	B	C
ATOM	3270	CB	SER	B	350	94.322	112.021	-110.825	1.00	183.36	B	C
ATOM	3271	OG	SER	B	350	94.893	111.170	-111.803	1.00	183.36	B	O
ATOM	3272	C	SER	B	350	95.896	111.098	-109.110	1.00	183.36	B	C
ATOM	3273	O	SER	B	350	96.344	109.962	-109.264	1.00	183.36	B	O
ATOM	3274	N	ALA	B	351	96.632	112.112	-108.667	1.00	238.58	B	N
ATOM	3275	CA	ALA	B	351	98.041	111.946	-108.331	1.00	238.58	B	C
ATOM	3276	CB	ALA	B	351	98.823	113.202	-108.687	1.00	238.58	B	C
ATOM	3277	C	ALA	B	351	98.218	111.607	-106.855	1.00	238.58	B	C
ATOM	3278	O	ALA	B	351	99.048	112.201	-106.167	1.00	238.58	B	O
ATOM	3279	N	SER	B	352	97.433	110.649	-106.374	1.00	139.03	B	N
ATOM	3280	CA	SER	B	352	97.498	110.232	-104.979	1.00	139.03	B	C
ATOM	3281	CB	SER	B	352	96.187	109.565	-104.557	1.00	139.03	B	C
ATOM	3282	OG	SER	B	352	95.921	108.418	-105.346	1.00	139.03	B	O
ATOM	3283	C	SER	B	352	98.667	109.282	-104.739	1.00	139.03	B	C
ATOM	3284	O	SER	B	352	98.877	108.338	-105.501	1.00	139.03	B	O
ATOM	3285	N	LYS	B	353	99.423	109.537	-103.677	1.00	160.96	B	N
ATOM	3286	CA	LYS	B	353	100.570	108.704	-103.336	1.00	160.96	B	C
ATOM	3287	CB	LYS	B	353	101.643	109.534	-102.629	1.00	160.96	B	C
ATOM	3288	CG	LYS	B	353	102.168	110.700	-103.450	1.00	160.96	B	C
ATOM	3289	CD	LYS	B	353	102.784	110.224	-104.756	1.00	160.96	B	C
ATOM	3290	CE	LYS	B	353	103.299	111.392	-105.583	1.00	160.96	B	C
ATOM	3291	NZ	LYS	B	353	103.901	110.942	-106.868	1.00	160.96	B	N
ATOM	3292	C	LYS	B	353	100.156	107.526	-102.461	1.00	160.96	B	C
ATOM	3293	O	LYS	B	353	100.985	106.697	-102.085	1.00	160.96	B	O
ATOM	3294	N	PHE	B	354	98.868	107.458	-102.141	1.00	217.25	B	N
ATOM	3295	CA	PHE	B	354	98.340	106.381	-101.313	1.00	217.25	B	C
ATOM	3296	CB	PHE	B	354	97.549	106.951	-100.135	1.00	217.25	B	C
ATOM	3297	CG	PHE	B	354	98.358	107.845	-99.238	1.00	217.25	B	C
ATOM	3298	CD1	PHE	B	354	99.060	107.319	-98.166	1.00	217.25	B	C
ATOM	3299	CD2	PHE	B	354	98.415	109.210	-99.465	1.00	217.25	B	C
ATOM	3300	CE1	PHE	B	354	99.805	108.138	-97.339	1.00	217.25	B	C
ATOM	3301	CE2	PHE	B	354	99.158	110.034	-98.641	1.00	217.25	B	C
ATOM	3302	CZ	PHE	B	354	99.854	109.497	-97.576	1.00	217.25	B	C
ATOM	3303	C	PHE	B	354	97.459	105.441	-102.130	1.00	217.25	B	C

ATOM	3304	O	PHE	B	354	96.358	105.808-102.542	1.00	217.25	B	O
ATOM	3305	N	THR	B	355	97.950	104.228-102.361	1.00	186.86	B	N
ATOM	3306	CA	THR	B	355	97.211	103.238-103.135	1.00	186.86	B	C
ATOM	3307	CB	THR	B	355	98.149	102.176-103.737	1.00	186.86	B	C
ATOM	3308	OG1	THR	B	355	98.845	101.497-102.684	1.00	186.86	B	O
ATOM	3309	CG2	THR	B	355	99.160	102.825-104.671	1.00	186.86	B	C
ATOM	3310	C	THR	B	355	96.154	102.546-102.282	1.00	186.86	B	C
ATOM	3311	O	THR	B	355	95.014	102.370-102.710	1.00	186.86	B	O
ATOM	3312	N	SER	B	356	96.541	102.154-101.072	1.00	47.70	B	N
ATOM	3313	CA	SER	B	356	95.628	101.481-100.157	1.00	47.70	B	C
ATOM	3314	CB	SER	B	356	95.659	99.969-100.386	1.00	47.70	B	C
ATOM	3315	OG	SER	B	356	96.960	99.447-100.175	1.00	47.70	B	O
ATOM	3316	C	SER	B	356	95.970	101.799-98.705	1.00	47.70	B	C
ATOM	3317	O	SER	B	356	97.056	102.295-98.408	1.00	47.70	B	O
ATOM	3318	N	ILE	B	357	95.034	101.511-97.806	1.00	65.52	B	N
ATOM	3319	CA	ILE	B	357	95.239	101.751-96.381	1.00	65.52	B	C
ATOM	3320	CB	ILE	B	357	93.970	101.438-95.558	1.00	65.52	B	C
ATOM	3321	CG2	ILE	B	357	94.226	101.662-94.076	1.00	65.52	B	C
ATOM	3322	CG1	ILE	B	357	92.798	102.296-96.039	1.00	65.52	B	C
ATOM	3323	CD1	ILE	B	357	91.516	102.068-95.269	1.00	65.52	B	C
ATOM	3324	C	ILE	B	357	96.427	100.964-95.824	1.00	65.52	B	C
ATOM	3325	O	ILE	B	357	97.259	101.524-95.109	1.00	65.52	B	O
ATOM	3326	N	PRO	B	358	96.511	99.661-96.145	1.00	79.94	B	N
ATOM	3327	CA	PRO	B	358	97.655	98.866-95.685	1.00	79.94	B	C
ATOM	3328	CD	PRO	B	358	95.530	98.839-96.875	1.00	79.94	B	C
ATOM	3329	CB	PRO	B	358	97.415	97.502-96.338	1.00	79.94	B	C
ATOM	3330	CG	PRO	B	358	95.944	97.439-96.540	1.00	79.94	B	C
ATOM	3331	C	PRO	B	358	98.980	99.448-96.166	1.00	79.94	B	C
ATOM	3332	O	PRO	B	358	99.987	99.350-95.465	1.00	79.94	B	O
ATOM	3333	N	ALA	B	359	98.972	100.048-97.351	1.00	43.14	B	N
ATOM	3334	CA	ALA	B	359	100.175	100.648-97.915	1.00	43.14	B	C
ATOM	3335	CB	ALA	B	359	100.066	100.730-99.430	1.00	43.14	B	C
ATOM	3336	C	ALA	B	359	100.429	102.031-97.323	1.00	43.14	B	C
ATOM	3337	O	ALA	B	359	101.513	102.594-97.480	1.00	43.14	B	O
ATOM	3338	N	ALA	B	360	99.424	102.570-96.643	1.00	50.03	B	N
ATOM	3339	CA	ALA	B	360	99.534	103.885-96.022	1.00	50.03	B	C
ATOM	3340	CB	ALA	B	360	98.171	104.559-95.964	1.00	50.03	B	C
ATOM	3341	C	ALA	B	360	100.142	103.787-94.627	1.00	50.03	B	C
ATOM	3342	O	ALA	B	360	100.378	104.801-93.970	1.00	50.03	B	O
ATOM	3343	N	PHE	B	361	100.394	102.560-94.180	1.00	66.36	B	N
ATOM	3344	CA	PHE	B	361	100.984	102.328-92.866	1.00	66.36	B	C
ATOM	3345	CB	PHE	B	361	100.940	100.841-92.509	1.00	66.36	B	C
ATOM	3346	CG	PHE	B	361	99.550	100.298-92.336	1.00	66.36	B	C
ATOM	3347	CD1	PHE	B	361	98.479	101.152-92.135	1.00	66.36	B	C
ATOM	3348	CD2	PHE	B	361	99.315	98.934-92.371	1.00	66.36	B	C
ATOM	3349	CE1	PHE	B	361	97.200	100.657-91.975	1.00	66.36	B	C
ATOM	3350	CE2	PHE	B	361	98.038	98.431-92.211	1.00	66.36	B	C
ATOM	3351	CZ	PHE	B	361	96.979	99.294-92.013	1.00	66.36	B	C
ATOM	3352	C	PHE	B	361	102.420	102.836-92.813	1.00	66.36	B	C
ATOM	3353	O	PHE	B	361	102.885	103.303-91.773	1.00	66.36	B	O
ATOM	3354	N	TRP	B	362	103.116	102.740-93.940	1.00	75.06	B	N
ATOM	3355	CA	TRP	B	362	104.497	103.199-94.032	1.00	75.06	B	C
ATOM	3356	CB	TRP	B	362	105.065	102.914-95.423	1.00	75.06	B	C
ATOM	3357	CG	TRP	B	362	106.403	103.544-95.666	1.00	75.06	B	C
ATOM	3358	CD2	TRP	B	362	107.680	103.030-95.267	1.00	75.06	B	C
ATOM	3359	CD1	TRP	B	362	106.649	104.722-96.308	1.00	75.06	B	C
ATOM	3360	NE1	TRP	B	362	108.000	104.973-96.337	1.00	75.06	B	N
ATOM	3361	CE2	TRP	B	362	108.655	103.949-95.704	1.00	75.06	B	C
ATOM	3362	CE3	TRP	B	362	108.093	101.882-94.585	1.00	75.06	B	C
ATOM	3363	CZ2	TRP	B	362	110.016	103.756-95.480	1.00	75.06	B	C
ATOM	3364	CZ3	TRP	B	362	109.445	101.692-94.364	1.00	75.06	B	C
ATOM	3365	CH2	TRP	B	362	110.390	102.624-94.810	1.00	75.06	B	C
ATOM	3366	C	TRP	B	362	104.609	104.686-93.716	1.00	75.06	B	C
ATOM	3367	O	TRP	B	362	105.362	105.085-92.828	1.00	75.06	B	O
ATOM	3368	N	TYR	B	363	103.854	105.500-94.447	1.00	49.06	B	N
ATOM	3369	CA	TYR	B	363	103.874	106.946-94.255	1.00	49.06	B	C
ATOM	3370	CB	TYR	B	363	102.873	107.625-95.191	1.00	49.06	B	C
ATOM	3371	CG	TYR	B	363	102.732	109.112-94.956	1.00	49.06	B	C

ATOM	3372	CD1	TYR	B	363	103.635	110.010	-95.509	1.00	49.06	B	C
ATOM	3373	CD2	TYR	B	363	101.697	109.617	-94.181	1.00	49.06	B	C
ATOM	3374	CE1	TYR	B	363	103.511	111.370	-95.296	1.00	49.06	B	C
ATOM	3375	CE2	TYR	B	363	101.565	110.976	-93.962	1.00	49.06	B	C
ATOM	3376	CZ	TYR	B	363	102.474	111.847	-94.522	1.00	49.06	B	C
ATOM	3377	OH	TYR	B	363	102.345	113.200	-94.306	1.00	49.06	B	O
ATOM	3378	C	TYR	B	363	103.578	107.330	-92.809	1.00	49.06	B	C
ATOM	3379	O	TYR	B	363	104.164	108.272	-92.277	1.00	49.06	B	O
ATOM	3380	N	THR	B	364	102.666	106.596	-92.180	1.00	38.67	B	N
ATOM	3381	CA	THR	B	364	102.281	106.875	-90.802	1.00	38.67	B	C
ATOM	3382	CB	THR	B	364	101.077	106.021	-90.367	1.00	38.67	B	C
ATOM	3383	OG1	THR	B	364	99.972	106.268	-91.246	1.00	38.67	B	O
ATOM	3384	CG2	THR	B	364	100.673	106.363	-88.942	1.00	38.67	B	C
ATOM	3385	C	THR	B	364	103.440	106.634	-89.839	1.00	38.67	B	C
ATOM	3386	O	THR	B	364	103.819	107.524	-89.078	1.00	38.67	B	O
ATOM	3387	N	ILE	B	365	103.997	105.428	-89.877	1.00	87.97	B	N
ATOM	3388	CA	ILE	B	365	105.123	105.077	-89.020	1.00	87.97	B	C
ATOM	3389	CB	ILE	B	365	105.605	103.637	-89.282	1.00	87.97	B	C
ATOM	3390	CG2	ILE	B	365	106.773	103.290	-88.372	1.00	87.97	B	C
ATOM	3391	CG1	ILE	B	365	104.457	102.645	-89.087	1.00	87.97	B	C
ATOM	3392	CD1	ILE	B	365	104.846	101.205	-89.339	1.00	87.97	B	C
ATOM	3393	C	ILE	B	365	106.287	106.037	-89.236	1.00	87.97	B	C
ATOM	3394	O	ILE	B	365	106.937	106.466	-88.283	1.00	87.97	B	O
ATOM	3395	N	VAL	B	366	106.541	106.369	-90.497	1.00	48.90	B	N
ATOM	3396	CA	VAL	B	366	107.617	107.287	-90.854	1.00	48.90	B	C
ATOM	3397	CB	VAL	B	366	107.750	107.425	-92.383	1.00	48.90	B	C
ATOM	3398	CG1	VAL	B	366	108.648	108.597	-92.737	1.00	48.90	B	C
ATOM	3399	CG2	VAL	B	366	108.279	106.133	-92.989	1.00	48.90	B	C
ATOM	3400	C	VAL	B	366	107.402	108.668	-90.242	1.00	48.90	B	C
ATOM	3401	O	VAL	B	366	108.322	109.253	-89.670	1.00	48.90	B	O
ATOM	3402	N	THR	B	367	106.183	109.182	-90.362	1.00	54.03	B	N
ATOM	3403	CA	THR	B	367	105.856	110.508	-89.850	1.00	54.03	B	C
ATOM	3404	CB	THR	B	367	104.466	110.969	-90.330	1.00	54.03	B	C
ATOM	3405	OG1	THR	B	367	104.431	110.981	-91.762	1.00	54.03	B	O
ATOM	3406	CG2	THR	B	367	104.158	112.364	-89.808	1.00	54.03	B	C
ATOM	3407	C	THR	B	367	105.899	110.555	-88.325	1.00	54.03	B	C
ATOM	3408	O	THR	B	367	106.422	111.503	-87.740	1.00	54.03	B	O
ATOM	3409	N	MET	B	368	105.348	109.528	-87.688	1.00	56.02	B	N
ATOM	3410	CA	MET	B	368	105.288	109.474	-86.231	1.00	56.02	B	C
ATOM	3411	CB	MET	B	368	104.423	108.297	-85.772	1.00	56.02	B	C
ATOM	3412	CG	MET	B	368	102.968	108.392	-86.202	1.00	56.02	B	C
ATOM	3413	SD	MET	B	368	101.966	107.031	-85.576	1.00	56.02	B	S
ATOM	3414	CE	MET	B	368	102.136	107.271	-83.810	1.00	56.02	B	C
ATOM	3415	C	MET	B	368	106.675	109.384	-85.601	1.00	56.02	B	C
ATOM	3416	O	MET	B	368	106.946	110.023	-84.585	1.00	56.02	B	O
ATOM	3417	N	THR	B	369	107.550	108.590	-86.210	1.00	66.05	B	N
ATOM	3418	CA	THR	B	369	108.903	108.408	-85.696	1.00	66.05	B	C
ATOM	3419	CB	THR	B	369	109.477	107.035	-86.088	1.00	66.05	B	C
ATOM	3420	OG1	THR	B	369	109.528	106.925	-87.516	1.00	66.05	B	O
ATOM	3421	CG2	THR	B	369	108.612	105.917	-85.529	1.00	66.05	B	C
ATOM	3422	C	THR	B	369	109.842	109.504	-86.191	1.00	66.05	B	C
ATOM	3423	O	THR	B	369	111.059	109.324	-86.220	1.00	66.05	B	O
ATOM	3424	N	THR	B	370	109.264	110.636	-86.581	1.00	71.04	B	N
ATOM	3425	CA	THR	B	370	110.032	111.791	-87.040	1.00	71.04	B	C
ATOM	3426	CB	THR	B	370	110.669	112.556	-85.860	1.00	71.04	B	C
ATOM	3427	OG1	THR	B	370	111.580	111.697	-85.162	1.00	71.04	B	O
ATOM	3428	CG2	THR	B	370	109.595	113.040	-84.897	1.00	71.04	B	C
ATOM	3429	C	THR	B	370	111.117	111.419	-88.049	1.00	71.04	B	C
ATOM	3430	O	THR	B	370	112.301	111.661	-87.818	1.00	71.04	B	O
ATOM	3431	N	LEU	B	371	110.704	110.834	-89.169	1.00	149.24	B	N
ATOM	3432	CA	LEU	B	371	111.637	110.464	-90.226	1.00	149.24	B	C
ATOM	3433	CB	LEU	B	371	111.456	108.996	-90.616	1.00	149.24	B	C
ATOM	3434	CG	LEU	B	371	111.753	107.955	-89.537	1.00	149.24	B	C
ATOM	3435	CD1	LEU	B	371	111.433	106.556	-90.040	1.00	149.24	B	C
ATOM	3436	CD2	LEU	B	371	113.202	108.048	-89.091	1.00	149.24	B	C
ATOM	3437	C	LEU	B	371	111.461	111.355	-91.451	1.00	149.24	B	C
ATOM	3438	O	LEU	B	371	112.311	112.192	-91.748	1.00	149.24	B	O
ATOM	3439	N	GLY	B	372	110.351	111.165	-92.158	1.00	45.54	B	N

ATOM	3440	CA	GLY	B	372	110.052	111.953	-93.339	1.00	45.54	B	C
ATOM	3441	C	GLY	B	372	111.061	111.754	-94.453	1.00	45.54	B	C
ATOM	3442	O	GLY	B	372	112.001	112.536	-94.595	1.00	45.54	B	O
ATOM	3443	N	TYR	B	373	110.866	110.706	-95.246	1.00	55.21	B	N
ATOM	3444	CA	TYR	B	373	111.763	110.411	-96.358	1.00	55.21	B	C
ATOM	3445	CB	TYR	B	373	111.676	108.933	-96.745	1.00	55.21	B	C
ATOM	3446	CG	TYR	B	373	112.177	107.988	-95.677	1.00	55.21	B	C
ATOM	3447	CD1	TYR	B	373	111.313	107.463	-94.725	1.00	55.21	B	C
ATOM	3448	CD2	TYR	B	373	113.514	107.618	-95.620	1.00	55.21	B	C
ATOM	3449	CE1	TYR	B	373	111.767	106.598	-93.747	1.00	55.21	B	C
ATOM	3450	CE2	TYR	B	373	113.976	106.754	-94.646	1.00	55.21	B	C
ATOM	3451	CZ	TYR	B	373	113.099	106.247	-93.712	1.00	55.21	B	C
ATOM	3452	OH	TYR	B	373	113.557	105.386	-92.741	1.00	55.21	B	O
ATOM	3453	C	TYR	B	373	111.456	111.290	-97.567	1.00	55.21	B	C
ATOM	3454	O	TYR	B	373	112.349	111.927	-98.126	1.00	55.21	B	O
ATOM	3455	N	GLY	B	374	110.188	111.318	-97.965	1.00	26.05	B	N
ATOM	3456	CA	GLY	B	374	109.764	112.121	-99.097	1.00	26.05	B	C
ATOM	3457	C	GLY	B	374	109.167	111.289	-100.215	1.00	26.05	B	C
ATOM	3458	O	GLY	B	374	108.685	111.826	-101.212	1.00	26.05	B	O
ATOM	3459	N	ASP	B	375	109.200	109.970	-100.049	1.00	57.71	B	N
ATOM	3460	CA	ASP	B	375	108.661	109.059	-101.052	1.00	57.71	B	C
ATOM	3461	CB	ASP	B	375	109.104	107.621	-100.770	1.00	57.71	B	C
ATOM	3462	CG	ASP	B	375	108.559	107.088	-99.458	1.00	57.71	B	C
ATOM	3463	OD1	ASP	B	375	108.403	107.881	-98.506	1.00	57.71	B	O
ATOM	3464	OD2	ASP	B	375	108.287	105.871	-99.378	1.00	57.71	B	O
ATOM	3465	C	ASP	B	375	107.139	109.139	-101.113	1.00	57.71	B	C
ATOM	3466	O	ASP	B	375	106.534	108.849	-102.145	1.00	57.71	B	O
ATOM	3467	N	MET	B	376	106.527	109.534	-100.001	1.00	56.92	B	N
ATOM	3468	CA	MET	B	376	105.076	109.661	-99.927	1.00	56.92	B	C
ATOM	3469	CB	MET	B	376	104.464	108.435	-99.246	1.00	56.92	B	C
ATOM	3470	CG	MET	B	376	104.730	107.124	-99.968	1.00	56.92	B	C
ATOM	3471	SD	MET	B	376	104.032	105.702	-99.105	1.00	56.92	B	S
ATOM	3472	CE	MET	B	376	102.292	106.123	-99.110	1.00	56.92	B	C
ATOM	3473	C	MET	B	376	104.679	110.928	-99.177	1.00	56.92	B	C
ATOM	3474	O	MET	B	376	104.985	111.080	-97.994	1.00	56.92	B	O
ATOM	3475	N	VAL	B	377	104.000	111.835	-99.870	1.00	110.24	B	N
ATOM	3476	CA	VAL	B	377	103.562	113.089	-99.265	1.00	110.24	B	C
ATOM	3477	CB	VAL	B	377	104.531	114.245	-99.590	1.00	110.24	B	C
ATOM	3478	CG1	VAL	B	377	105.867	114.033	-98.895	1.00	110.24	B	C
ATOM	3479	CG2	VAL	B	377	104.718	114.378	-101.094	1.00	110.24	B	C
ATOM	3480	C	VAL	B	377	102.155	113.470	-99.718	1.00	110.24	B	C
ATOM	3481	O	VAL	B	377	101.815	113.325	-100.892	1.00	110.24	B	O
ATOM	3482	N	PRO	B	378	101.331	113.955	-98.777	1.00	157.59	B	N
ATOM	3483	CA	PRO	B	378	99.962	114.398	-99.063	1.00	157.59	B	C
ATOM	3484	CD	PRO	B	378	101.654	114.052	-97.344	1.00	157.59	B	C
ATOM	3485	CB	PRO	B	378	99.476	114.920	-97.708	1.00	157.59	B	C
ATOM	3486	CG	PRO	B	378	100.308	114.198	-96.705	1.00	157.59	B	C
ATOM	3487	C	PRO	B	378	99.938	115.522	-100.093	1.00	157.59	B	C
ATOM	3488	O	PRO	B	378	100.960	116.172	-100.317	1.00	157.59	B	O
ATOM	3489	N	LYS	B	379	98.781	115.747	-100.708	1.00	201.84	B	N
ATOM	3490	CA	LYS	B	379	98.644	116.789	-101.719	1.00	201.84	B	C
ATOM	3491	CB	LYS	B	379	98.486	116.168	-103.109	1.00	201.84	B	C
ATOM	3492	CG	LYS	B	379	99.639	115.267	-103.522	1.00	201.84	B	C
ATOM	3493	CD	LYS	B	379	100.955	116.028	-103.554	1.00	201.84	B	C
ATOM	3494	CE	LYS	B	379	100.915	117.161	-104.566	1.00	201.84	B	C
ATOM	3495	NZ	LYS	B	379	102.204	117.905	-104.616	1.00	201.84	B	N
ATOM	3496	C	LYS	B	379	97.463	117.707	-101.420	1.00	201.84	B	C
ATOM	3497	O	LYS	B	379	97.517	118.908	-101.685	1.00	201.84	B	O
ATOM	3498	N	THR	B	380	96.398	117.136	-100.866	1.00	144.37	B	N
ATOM	3499	CA	THR	B	380	95.197	117.902	-100.552	1.00	144.37	B	C
ATOM	3500	CB	THR	B	380	93.946	117.004	-100.526	1.00	144.37	B	C
ATOM	3501	OG1	THR	B	380	94.102	115.990	-99.526	1.00	144.37	B	O
ATOM	3502	CG2	THR	B	380	93.733	116.346	-101.881	1.00	144.37	B	C
ATOM	3503	C	THR	B	380	95.323	118.619	-99.212	1.00	144.37	B	C
ATOM	3504	O	THR	B	380	96.305	118.443	-98.491	1.00	144.37	B	O
ATOM	3505	N	ILE	B	381	94.320	119.428	-98.886	1.00	82.77	B	N
ATOM	3506	CA	ILE	B	381	94.309	120.171	-97.631	1.00	82.77	B	C
ATOM	3507	CB	ILE	B	381	93.380	121.402	-97.702	1.00	82.77	B	C

ATOM	3508	CG2	ILE	B	381	93.197	122.012	-96.321	1.00	82.77	B	C
ATOM	3509	CG1	ILE	B	381	93.939	122.449	-98.669	1.00	82.77	B	C
ATOM	3510	CD1	ILE	B	381	93.820	122.075	-100.132	1.00	82.77	B	C
ATOM	3511	C	ILE	B	381	93.871	119.276	-96.476	1.00	82.77	B	C
ATOM	3512	O	ILE	B	381	94.441	119.330	-95.386	1.00	82.77	B	O
ATOM	3513	N	ALA	B	382	92.857	118.453	-96.723	1.00	53.32	B	N
ATOM	3514	CA	ALA	B	382	92.353	117.534	-95.709	1.00	53.32	B	C
ATOM	3515	CB	ALA	B	382	91.160	116.757	-96.243	1.00	53.32	B	C
ATOM	3516	C	ALA	B	382	93.448	116.580	-95.243	1.00	53.32	B	C
ATOM	3517	O	ALA	B	382	93.538	116.252	-94.060	1.00	53.32	B	O
ATOM	3518	N	GLY	B	383	94.280	116.139	-96.181	1.00	35.60	B	N
ATOM	3519	CA	GLY	B	383	95.379	115.246	-95.867	1.00	35.60	B	C
ATOM	3520	C	GLY	B	383	96.544	115.979	-95.232	1.00	35.60	B	C
ATOM	3521	O	GLY	B	383	97.398	115.370	-94.588	1.00	35.60	B	O
ATOM	3522	N	LYS	B	384	96.577	117.295	-95.416	1.00	53.39	B	N
ATOM	3523	CA	LYS	B	384	97.637	118.122	-94.853	1.00	53.39	B	C
ATOM	3524	CB	LYS	B	384	97.682	119.483	-95.551	1.00	53.39	B	C
ATOM	3525	CG	LYS	B	384	98.726	120.434	-94.991	1.00	53.39	B	C
ATOM	3526	CD	LYS	B	384	98.735	121.752	-95.748	1.00	53.39	B	C
ATOM	3527	CE	LYS	B	384	99.047	121.540	-97.220	1.00	53.39	B	C
ATOM	3528	NZ	LYS	B	384	100.374	120.896	-97.418	1.00	53.39	B	N
ATOM	3529	C	LYS	B	384	97.447	118.309	-93.352	1.00	53.39	B	C
ATOM	3530	O	LYS	B	384	98.409	118.275	-92.586	1.00	53.39	B	O
ATOM	3531	N	ILE	B	385	96.199	118.506	-92.940	1.00	33.52	B	N
ATOM	3532	CA	ILE	B	385	95.877	118.688	-91.530	1.00	33.52	B	C
ATOM	3533	CB	ILE	B	385	94.420	119.149	-91.339	1.00	33.52	B	C
ATOM	3534	CG2	ILE	B	385	94.109	119.339	-89.863	1.00	33.52	B	C
ATOM	3535	CG1	ILE	B	385	94.164	120.442	-92.116	1.00	33.52	B	C
ATOM	3536	CD1	ILE	B	385	92.747	120.960	-91.991	1.00	33.52	B	C
ATOM	3537	C	ILE	B	385	96.098	117.397	-90.749	1.00	33.52	B	C
ATOM	3538	O	ILE	B	385	96.676	117.408	-89.662	1.00	33.52	B	O
ATOM	3539	N	PHE	B	386	95.634	116.286	-91.311	1.00	111.88	B	N
ATOM	3540	CA	PHE	B	386	95.785	114.983	-90.674	1.00	111.88	B	C
ATOM	3541	CB	PHE	B	386	94.978	113.923	-91.426	1.00	111.88	B	C
ATOM	3542	CG	PHE	B	386	93.502	114.199	-91.466	1.00	111.88	B	C
ATOM	3543	CD1	PHE	B	386	92.902	114.976	-90.488	1.00	111.88	B	C
ATOM	3544	CD2	PHE	B	386	92.715	113.685	-92.482	1.00	111.88	B	C
ATOM	3545	CE1	PHE	B	386	91.544	115.233	-90.523	1.00	111.88	B	C
ATOM	3546	CE2	PHE	B	386	91.357	113.938	-92.523	1.00	111.88	B	C
ATOM	3547	CZ	PHE	B	386	90.771	114.713	-91.542	1.00	111.88	B	C
ATOM	3548	C	PHE	B	386	97.253	114.576	-90.602	1.00	111.88	B	C
ATOM	3549	O	PHE	B	386	97.675	113.899	-89.664	1.00	111.88	B	O
ATOM	3550	N	GLY	B	387	98.028	114.995	-91.597	1.00	27.68	B	N
ATOM	3551	CA	GLY	B	387	99.447	114.696	-91.636	1.00	27.68	B	C
ATOM	3552	C	GLY	B	387	100.210	115.413	-90.540	1.00	27.68	B	C
ATOM	3553	O	GLY	B	387	101.256	114.946	-90.088	1.00	27.68	B	O
ATOM	3554	N	SER	B	388	99.682	116.555	-90.111	1.00	31.06	B	N
ATOM	3555	CA	SER	B	388	100.304	117.335	-89.048	1.00	31.06	B	C
ATOM	3556	CB	SER	B	388	99.819	118.785	-89.094	1.00	31.06	B	C
ATOM	3557	OG	SER	B	388	100.139	119.391	-90.334	1.00	31.06	B	O
ATOM	3558	C	SER	B	388	100.006	116.726	-87.682	1.00	31.06	B	C
ATOM	3559	O	SER	B	388	100.886	116.641	-86.825	1.00	31.06	B	O
ATOM	3560	N	ILE	B	389	98.761	116.305	-87.486	1.00	33.86	B	N
ATOM	3561	CA	ILE	B	389	98.348	115.688	-86.231	1.00	33.86	B	C
ATOM	3562	CB	ILE	B	389	96.824	115.465	-86.188	1.00	33.86	B	C
ATOM	3563	CG2	ILE	B	389	96.410	114.859	-84.854	1.00	33.86	B	C
ATOM	3564	CG1	ILE	B	389	96.085	116.781	-86.438	1.00	33.86	B	C
ATOM	3565	CD1	ILE	B	389	94.577	116.651	-86.415	1.00	33.86	B	C
ATOM	3566	C	ILE	B	389	99.056	114.354	-86.026	1.00	33.86	B	C
ATOM	3567	O	ILE	B	389	99.396	113.986	-84.902	1.00	33.86	B	O
ATOM	3568	N	CYS	B	390	99.277	113.635	-87.122	1.00	36.22	B	N
ATOM	3569	CA	CYS	B	390	99.956	112.345	-87.072	1.00	36.22	B	C
ATOM	3570	CB	CYS	B	390	99.948	111.683	-88.451	1.00	36.22	B	C
ATOM	3571	SG	CYS	B	390	100.769	110.074	-88.513	1.00	36.22	B	S
ATOM	3572	C	CYS	B	390	101.388	112.497	-86.573	1.00	36.22	B	C
ATOM	3573	O	CYS	B	390	101.929	111.602	-85.923	1.00	36.22	B	O
ATOM	3574	N	SER	B	391	101.999	113.636	-86.883	1.00	67.70	B	N
ATOM	3575	CA	SER	B	391	103.366	113.912	-86.461	1.00	67.70	B	C

ATOM	3576	CB	SER	B	391	103.994	114.989	-87.348	1.00	67.70	B	C
ATOM	3577	OG	SER	B	391	105.329	115.255	-86.956	1.00	67.70	B	O
ATOM	3578	C	SER	B	391	103.412	114.343	-84.999	1.00	67.70	B	C
ATOM	3579	O	SER	B	391	104.327	113.974	-84.261	1.00	67.70	B	O
ATOM	3580	N	LEU	B	392	102.420	115.125	-84.586	1.00	41.51	B	N
ATOM	3581	CA	LEU	B	392	102.337	115.592	-83.208	1.00	41.51	B	C
ATOM	3582	CB	LEU	B	392	101.244	116.652	-83.065	1.00	41.51	B	C
ATOM	3583	CG	LEU	B	392	101.422	117.923	-83.897	1.00	41.51	B	C
ATOM	3584	CD1	LEU	B	392	100.245	118.866	-83.699	1.00	41.51	B	C
ATOM	3585	CD2	LEU	B	392	102.731	118.611	-83.547	1.00	41.51	B	C
ATOM	3586	C	LEU	B	392	102.070	114.430	-82.257	1.00	41.51	B	C
ATOM	3587	O	LEU	B	392	102.747	114.279	-81.240	1.00	41.51	B	O
ATOM	3588	N	SER	B	393	101.079	113.613	-82.597	1.00	31.53	B	N
ATOM	3589	CA	SER	B	393	100.741	112.445	-81.794	1.00	31.53	B	C
ATOM	3590	CB	SER	B	393	99.457	111.793	-82.310	1.00	31.53	B	C
ATOM	3591	OG	SER	B	393	98.366	112.695	-82.249	1.00	31.53	B	O
ATOM	3592	C	SER	B	393	101.883	111.435	-81.806	1.00	31.53	B	C
ATOM	3593	O	SER	B	393	102.082	110.697	-80.842	1.00	31.53	B	O
ATOM	3594	N	GLY	B	394	102.631	111.411	-82.904	1.00	30.12	B	N
ATOM	3595	CA	GLY	B	394	103.760	110.509	-83.039	1.00	30.12	B	C
ATOM	3596	C	GLY	B	394	104.825	110.761	-81.990	1.00	30.12	B	C
ATOM	3597	O	GLY	B	394	105.382	109.823	-81.420	1.00	30.12	B	O
ATOM	3598	N	VAL	B	395	105.107	112.035	-81.734	1.00	95.83	B	N
ATOM	3599	CA	VAL	B	395	106.098	112.413	-80.735	1.00	95.83	B	C
ATOM	3600	CB	VAL	B	395	106.427	113.917	-80.807	1.00	95.83	B	C
ATOM	3601	CG1	VAL	B	395	107.438	114.291	-79.734	1.00	95.83	B	C
ATOM	3602	CG2	VAL	B	395	106.948	114.279	-82.189	1.00	95.83	B	C
ATOM	3603	C	VAL	B	395	105.610	112.071	-79.331	1.00	95.83	B	C
ATOM	3604	O	VAL	B	395	106.380	111.604	-78.492	1.00	95.83	B	O
ATOM	3605	N	LEU	B	396	104.325	112.301	-79.084	1.00	88.54	B	N
ATOM	3606	CA	LEU	B	396	103.729	112.023	-77.783	1.00	88.54	B	C
ATOM	3607	CB	LEU	B	396	102.300	112.567	-77.722	1.00	88.54	B	C
ATOM	3608	CG	LEU	B	396	102.126	114.075	-77.912	1.00	88.54	B	C
ATOM	3609	CD1	LEU	B	396	100.653	114.440	-78.010	1.00	88.54	B	C
ATOM	3610	CD2	LEU	B	396	102.797	114.840	-76.782	1.00	88.54	B	C
ATOM	3611	C	LEU	B	396	103.728	110.529	-77.476	1.00	88.54	B	C
ATOM	3612	O	LEU	B	396	104.289	110.091	-76.472	1.00	88.54	B	O
ATOM	3613	N	VAL	B	397	103.094	109.754	-78.351	1.00	41.21	B	N
ATOM	3614	CA	VAL	B	397	102.963	108.312	-78.163	1.00	41.21	B	C
ATOM	3615	CB	VAL	B	397	102.325	107.640	-79.396	1.00	41.21	B	C
ATOM	3616	CG1	VAL	B	397	102.396	106.126	-79.275	1.00	41.21	B	C
ATOM	3617	CG2	VAL	B	397	100.885	108.103	-79.567	1.00	41.21	B	C
ATOM	3618	C	VAL	B	397	104.298	107.634	-77.861	1.00	41.21	B	C
ATOM	3619	O	VAL	B	397	104.388	106.800	-76.960	1.00	41.21	B	O
ATOM	3620	N	ILE	B	398	105.330	107.996	-78.615	1.00	120.02	B	N
ATOM	3621	CA	ILE	B	398	106.643	107.380	-78.458	1.00	120.02	B	C
ATOM	3622	CB	ILE	B	398	107.543	107.648	-79.681	1.00	120.02	B	C
ATOM	3623	CG2	ILE	B	398	108.920	107.035	-79.474	1.00	120.02	B	C
ATOM	3624	CG1	ILE	B	398	106.896	107.094	-80.951	1.00	120.02	B	C
ATOM	3625	CD1	ILE	B	398	107.715	107.323	-82.203	1.00	120.02	B	C
ATOM	3626	C	ILE	B	398	107.358	107.853	-77.195	1.00	120.02	B	C
ATOM	3627	O	ILE	B	398	108.019	107.067	-76.517	1.00	120.02	B	O
ATOM	3628	N	ALA	B	399	107.217	109.136	-76.878	1.00	64.31	B	N
ATOM	3629	CA	ALA	B	399	107.923	109.725	-75.743	1.00	64.31	B	C
ATOM	3630	CB	ALA	B	399	108.038	111.234	-75.916	1.00	64.31	B	C
ATOM	3631	C	ALA	B	399	107.278	109.390	-74.399	1.00	64.31	B	C
ATOM	3632	O	ALA	B	399	107.505	110.084	-73.409	1.00	64.31	B	O
ATOM	3633	N	LEU	B	400	106.479	108.328	-74.365	1.00	75.94	B	N
ATOM	3634	CA	LEU	B	400	105.827	107.910	-73.126	1.00	75.94	B	C
ATOM	3635	CB	LEU	B	400	104.317	107.740	-73.327	1.00	75.94	B	C
ATOM	3636	CG	LEU	B	400	103.526	108.994	-73.705	1.00	75.94	B	C
ATOM	3637	CD1	LEU	B	400	102.067	108.651	-73.961	1.00	75.94	B	C
ATOM	3638	CD2	LEU	B	400	103.651	110.056	-72.625	1.00	75.94	B	C
ATOM	3639	C	LEU	B	400	106.442	106.638	-72.537	1.00	75.94	B	C
ATOM	3640	O	LEU	B	400	106.837	106.625	-71.371	1.00	75.94	B	O
ATOM	3641	N	PRO	B	401	106.521	105.561	-73.337	1.00	77.22	B	N
ATOM	3642	CA	PRO	B	401	107.116	104.317	-72.837	1.00	77.22	B	C
ATOM	3643	CD	PRO	B	401	105.967	105.392	-74.690	1.00	77.22	B	C

ATOM	3644	CB	PRO	B	401	106.779	103.299	-73.936	1.00	77.22	B	C
ATOM	3645	CG	PRO	B	401	105.684	103.930	-74.741	1.00	77.22	B	C
ATOM	3646	C	PRO	B	401	108.630	104.433	-72.688	1.00	77.22	B	C
ATOM	3647	O	PRO	B	401	109.217	103.766	-71.836	1.00	77.22	B	O
ATOM	3648	N	VAL	B	402	109.248	105.273	-73.513	1.00	140.00	B	N
ATOM	3649	CA	VAL	B	402	110.699	105.435	-73.499	1.00	140.00	B	C
ATOM	3650	CB	VAL	B	402	111.179	106.409	-74.598	1.00	140.00	B	C
ATOM	3651	CG1	VAL	B	402	112.677	106.643	-74.482	1.00	140.00	B	C
ATOM	3652	CG2	VAL	B	402	110.821	105.873	-75.975	1.00	140.00	B	C
ATOM	3653	C	VAL	B	402	111.242	105.882	-72.139	1.00	140.00	B	C
ATOM	3654	O	VAL	B	402	112.128	105.231	-71.586	1.00	140.00	B	O
ATOM	3655	N	PRO	B	403	110.714	106.992	-71.594	1.00	65.75	B	N
ATOM	3656	CA	PRO	B	403	111.211	107.500	-70.310	1.00	65.75	B	C
ATOM	3657	CD	PRO	B	403	109.639	107.841	-72.138	1.00	65.75	B	C
ATOM	3658	CB	PRO	B	403	110.197	108.588	-69.954	1.00	65.75	B	C
ATOM	3659	CG	PRO	B	403	109.694	109.063	-71.267	1.00	65.75	B	C
ATOM	3660	C	PRO	B	403	111.231	106.427	-69.226	1.00	65.75	B	C
ATOM	3661	O	PRO	B	403	112.153	106.396	-68.411	1.00	65.75	B	O
ATOM	3662	N	VAL	B	404	110.225	105.559	-69.220	1.00	38.19	B	N
ATOM	3663	CA	VAL	B	404	110.147	104.486	-68.236	1.00	38.19	B	C
ATOM	3664	CB	VAL	B	404	108.799	103.747	-68.313	1.00	38.19	B	C
ATOM	3665	CG1	VAL	B	404	108.751	102.625	-67.287	1.00	38.19	B	C
ATOM	3666	CG2	VAL	B	404	107.650	104.719	-68.100	1.00	38.19	B	C
ATOM	3667	C	VAL	B	404	111.281	103.485	-68.433	1.00	38.19	B	C
ATOM	3668	O	VAL	B	404	111.914	103.051	-67.471	1.00	38.19	B	O
ATOM	3669	N	ILE	B	405	111.531	103.124	-69.687	1.00	45.11	B	N
ATOM	3670	CA	ILE	B	405	112.603	102.194	-70.019	1.00	45.11	B	C
ATOM	3671	CB	ILE	B	405	112.558	101.794	-71.507	1.00	45.11	B	C
ATOM	3672	CG2	ILE	B	405	113.661	100.799	-71.828	1.00	45.11	B	C
ATOM	3673	CG1	ILE	B	405	111.187	101.213	-71.860	1.00	45.11	B	C
ATOM	3674	CD1	ILE	B	405	111.057	100.790	-73.308	1.00	45.11	B	C
ATOM	3675	C	ILE	B	405	113.966	102.803	-69.702	1.00	45.11	B	C
ATOM	3676	O	ILE	B	405	114.903	102.096	-69.330	1.00	45.11	B	O
ATOM	3677	N	VAL	B	406	114.066	104.120	-69.850	1.00	96.58	B	N
ATOM	3678	CA	VAL	B	406	115.309	104.832	-69.578	1.00	96.58	B	C
ATOM	3679	CB	VAL	B	406	115.214	106.312	-69.994	1.00	96.58	B	C
ATOM	3680	CG1	VAL	B	406	116.481	107.055	-69.605	1.00	96.58	B	C
ATOM	3681	CG2	VAL	B	406	114.957	106.427	-71.489	1.00	96.58	B	C
ATOM	3682	C	VAL	B	406	115.682	104.753	-68.102	1.00	96.58	B	C
ATOM	3683	O	VAL	B	406	116.832	104.484	-67.756	1.00	96.58	B	O
ATOM	3684	N	SER	B	407	114.701	104.990	-67.236	1.00	31.59	B	N
ATOM	3685	CA	SER	B	407	114.922	104.951	-65.795	1.00	31.59	B	C
ATOM	3686	CB	SER	B	407	113.628	105.275	-65.046	1.00	31.59	B	C
ATOM	3687	OG	SER	B	407	113.832	105.261	-63.644	1.00	31.59	B	O
ATOM	3688	C	SER	B	407	115.456	103.592	-65.354	1.00	31.59	B	C
ATOM	3689	O	SER	B	407	116.285	103.505	-64.448	1.00	31.59	B	O
ATOM	3690	N	ASN	B	408	114.976	102.535	-66.001	1.00	49.82	B	N
ATOM	3691	CA	ASN	B	408	115.415	101.180	-65.688	1.00	49.82	B	C
ATOM	3692	CB	ASN	B	408	114.376	100.158	-66.154	1.00	49.82	B	C
ATOM	3693	CG	ASN	B	408	113.032	100.346	-65.479	1.00	49.82	B	C
ATOM	3694	OD1	ASN	B	408	112.957	100.791	-64.334	1.00	49.82	B	O
ATOM	3695	ND2	ASN	B	408	111.961	100.009	-66.187	1.00	49.82	B	N
ATOM	3696	C	ASN	B	408	116.775	100.866	-66.301	1.00	49.82	B	C
ATOM	3697	O	ASN	B	408	117.547	100.079	-65.753	1.00	49.82	B	O
ATOM	3698	N	PHE	B	409	117.063	101.489	-67.439	1.00	43.30	B	N
ATOM	3699	CA	PHE	B	409	118.339	101.294	-68.119	1.00	43.30	B	C
ATOM	3700	CB	PHE	B	409	118.299	101.908	-69.519	1.00	43.30	B	C
ATOM	3701	CG	PHE	B	409	119.584	101.760	-70.284	1.00	43.30	B	C
ATOM	3702	CD1	PHE	B	409	119.839	100.616	-71.022	1.00	43.30	B	C
ATOM	3703	CD2	PHE	B	409	120.536	102.766	-70.267	1.00	43.30	B	C
ATOM	3704	CE1	PHE	B	409	121.019	100.477	-71.727	1.00	43.30	B	C
ATOM	3705	CE2	PHE	B	409	121.718	102.633	-70.970	1.00	43.30	B	C
ATOM	3706	CZ	PHE	B	409	121.960	101.487	-71.701	1.00	43.30	B	C
ATOM	3707	C	PHE	B	409	119.484	101.896	-67.311	1.00	43.30	B	C
ATOM	3708	O	PHE	B	409	120.540	101.281	-67.162	1.00	43.30	B	O
ATOM	3709	N	SER	B	410	119.268	103.101	-66.794	1.00	71.88	B	N
ATOM	3710	CA	SER	B	410	120.274	103.776	-65.983	1.00	71.88	B	C
ATOM	3711	CB	SER	B	410	119.912	105.251	-65.796	1.00	71.88	B	C

ATOM	3712	OG	SER	B	410	119.835	105.920	-67.043	1.00	71.88	B	O
ATOM	3713	C	SER	B	410	120.423	103.096	-64.627	1.00	71.88	B	C
ATOM	3714	O	SER	B	410	121.475	103.176	-63.993	1.00	71.88	B	O
ATOM	3715	N	ARG	B	411	119.362	102.427	-64.188	1.00	148.46	B	N
ATOM	3716	CA	ARG	B	411	119.374	101.716	-62.915	1.00	148.46	B	C
ATOM	3717	CB	ARG	B	411	117.957	101.291	-62.527	1.00	148.46	B	C
ATOM	3718	CG	ARG	B	411	117.875	100.517	-61.222	1.00	148.46	B	C
ATOM	3719	CD	ARG	B	411	116.443	100.113	-60.910	1.00	148.46	B	C
ATOM	3720	NE	ARG	B	411	116.347	99.353	-59.667	1.00	148.46	B	N
ATOM	3721	CZ	ARG	B	411	116.439	98.029	-59.591	1.00	148.46	B	C
ATOM	3722	NH1	ARG	B	411	116.631	97.313	-60.690	1.00	148.46	B	N
ATOM	3723	NH2	ARG	B	411	116.340	97.421	-58.417	1.00	148.46	B	N
ATOM	3724	C	ARG	B	411	120.287	100.497	-62.981	1.00	148.46	B	C
ATOM	3725	O	ARG	B	411	121.120	100.284	-62.099	1.00	148.46	B	O
ATOM	3726	N	ILE	B	412	120.124	99.699	-64.031	1.00	95.71	B	N
ATOM	3727	CA	ILE	B	412	120.940	98.506	-64.224	1.00	95.71	B	C
ATOM	3728	CB	ILE	B	412	120.397	97.632	-65.371	1.00	95.71	B	C
ATOM	3729	CG2	ILE	B	412	121.242	96.378	-65.535	1.00	95.71	B	C
ATOM	3730	CG1	ILE	B	412	118.933	97.267	-65.117	1.00	95.71	B	C
ATOM	3731	CD1	ILE	B	412	118.710	96.488	-63.840	1.00	95.71	B	C
ATOM	3732	C	ILE	B	412	122.389	98.878	-64.521	1.00	95.71	B	C
ATOM	3733	O	ILE	B	412	123.318	98.195	-64.088	1.00	95.71	B	O
ATOM	3734	N	TYR	B	413	122.574	99.967	-65.260	1.00	110.37	B	N
ATOM	3735	CA	TYR	B	413	123.908	100.432	-65.619	1.00	110.37	B	C
ATOM	3736	CB	TYR	B	413	123.821	101.611	-66.590	1.00	110.37	B	C
ATOM	3737	CG	TYR	B	413	125.164	102.113	-67.070	1.00	110.37	B	C
ATOM	3738	CD1	TYR	B	413	125.743	101.604	-68.225	1.00	110.37	B	C
ATOM	3739	CD2	TYR	B	413	125.852	103.095	-66.371	1.00	110.37	B	C
ATOM	3740	CE1	TYR	B	413	126.970	102.059	-68.669	1.00	110.37	B	C
ATOM	3741	CE2	TYR	B	413	127.080	103.556	-66.807	1.00	110.37	B	C
ATOM	3742	CZ	TYR	B	413	127.634	103.035	-67.956	1.00	110.37	B	C
ATOM	3743	OH	TYR	B	413	128.856	103.492	-68.394	1.00	110.37	B	O
ATOM	3744	C	TYR	B	413	124.704	100.830	-64.380	1.00	110.37	B	C
ATOM	3745	O	TYR	B	413	125.848	100.411	-64.204	1.00	110.37	B	O
ATOM	3746	N	HIS	B	414	124.090	101.640	-63.523	1.00	72.45	B	N
ATOM	3747	CA	HIS	B	414	124.740	102.097	-62.300	1.00	72.45	B	C
ATOM	3748	ND1	HIS	B	414	124.330	104.726	-63.750	1.00	72.45	B	N
ATOM	3749	CG	HIS	B	414	123.832	104.455	-62.520	1.00	72.45	B	C
ATOM	3750	CB	HIS	B	414	123.942	103.235	-61.660	1.00	72.45	B	C
ATOM	3751	NE2	HIS	B	414	123.212	106.492	-63.085	1.00	72.45	B	N
ATOM	3752	CD2	HIS	B	414	123.138	105.580	-62.132	1.00	72.45	B	C
ATOM	3753	CE1	HIS	B	414	123.929	105.999	-64.078	1.00	72.45	B	C
ATOM	3754	C	HIS	B	414	124.915	100.953	-61.306	1.00	72.45	B	C
ATOM	3755	O	HIS	B	414	125.786	101.000	-60.437	1.00	72.45	B	O
ATOM	3756	N	GLN	B	415	124.081	99.927	-61.440	1.00	74.19	B	N
ATOM	3757	CA	GLN	B	415	124.149	98.765	-60.563	1.00	74.19	B	C
ATOM	3758	CB	GLN	B	415	122.886	97.913	-60.702	1.00	74.19	B	C
ATOM	3759	CG	GLN	B	415	122.867	96.679	-59.816	1.00	74.19	B	C
ATOM	3760	CD	GLN	B	415	121.589	95.879	-59.962	1.00	74.19	B	C
ATOM	3761	OE1	GLN	B	415	120.711	96.229	-60.750	1.00	74.19	B	O
ATOM	3762	NE2	GLN	B	415	121.477	94.798	-59.199	1.00	74.19	B	N
ATOM	3763	C	GLN	B	415	125.385	97.925	-60.868	1.00	74.19	B	C
ATOM	3764	O	GLN	B	415	126.022	97.388	-59.962	1.00	74.19	B	O
ATOM	3765	N	ASN	B	416	125.719	97.819	-62.150	1.00	34.42	B	N
ATOM	3766	CA	ASN	B	416	126.882	97.053	-62.580	1.00	34.42	B	C
ATOM	3767	CB	ASN	B	416	126.722	96.615	-64.039	1.00	34.42	B	C
ATOM	3768	CG	ASN	B	416	127.781	95.616	-64.471	1.00	34.42	B	C
ATOM	3769	OD1	ASN	B	416	128.899	95.615	-63.958	1.00	34.42	B	O
ATOM	3770	ND2	ASN	B	416	127.429	94.758	-65.422	1.00	34.42	B	N
ATOM	3771	C	ASN	B	416	128.173	97.847	-62.404	1.00	34.42	B	C
ATOM	3772	O	ASN	B	416	129.163	97.336	-61.879	1.00	34.42	B	O
ATOM	3773	N	GLN	B	417	128.153	99.100	-62.844	1.00	41.97	B	N
ATOM	3774	CA	GLN	B	417	129.321	99.967	-62.747	1.00	41.97	B	C
ATOM	3775	CB	GLN	B	417	129.076	101.279	-63.496	1.00	41.97	B	C
ATOM	3776	CG	GLN	B	417	130.254	102.241	-63.473	1.00	41.97	B	C
ATOM	3777	CD	GLN	B	417	131.451	101.720	-64.244	1.00	41.97	B	C
ATOM	3778	OE1	GLN	B	417	131.213	100.762	-65.132	1.00	41.97	B	O
ATOM	3779	NE2	GLN	B	417	132.577	102.178	-64.048	1.00	41.97	B	N

ATOM	3780	C	GLN	B	417	129.675	100.252	-61.291	1.00	41.97	B	C
ATOM	3781	O	GLN	B	417	128.804	100.286	-60.422	1.00	41.97	B	O
ATOM	3782	OXT	GLN	B	417	130.839	100.457	-60.947	1.00	41.97	B	O
TER												
ATOM	3783	N	PHE	C	175	90.343	147.906	-69.219	1.00	80.84	C	N
ATOM	3784	CA	PHE	C	175	91.326	147.756	-70.285	1.00	80.84	C	C
ATOM	3785	CB	PHE	C	175	91.871	149.122	-70.707	1.00	80.84	C	C
ATOM	3786	CG	PHE	C	175	90.815	150.070	-71.197	1.00	80.84	C	C
ATOM	3787	CD1	PHE	C	175	90.432	150.073	-72.528	1.00	80.84	C	C
ATOM	3788	CD2	PHE	C	175	90.204	150.958	-70.327	1.00	80.84	C	C
ATOM	3789	CE1	PHE	C	175	89.459	150.943	-72.982	1.00	80.84	C	C
ATOM	3790	CE2	PHE	C	175	89.232	151.831	-70.775	1.00	80.84	C	C
ATOM	3791	CZ	PHE	C	175	88.859	151.824	-72.104	1.00	80.84	C	C
ATOM	3792	C	PHE	C	175	92.470	146.845	-69.855	1.00	80.84	C	C
ATOM	3793	O	PHE	C	175	93.246	146.372	-70.686	1.00	80.84	C	O
ATOM	3794	N	GLU	C	176	92.569	146.603	-68.552	1.00	133.93	C	N
ATOM	3795	CA	GLU	C	176	93.618	145.749	-68.009	1.00	133.93	C	C
ATOM	3796	CB	GLU	C	176	94.509	146.540	-67.049	1.00	133.93	C	C
ATOM	3797	CG	GLU	C	176	95.209	147.729	-67.687	1.00	133.93	C	C
ATOM	3798	CD	GLU	C	176	96.092	148.480	-66.710	1.00	133.93	C	C
ATOM	3799	OE1	GLU	C	176	96.153	148.076	-65.530	1.00	133.93	C	O
ATOM	3800	OE2	GLU	C	176	96.724	149.476	-67.121	1.00	133.93	C	O
ATOM	3801	C	GLU	C	176	93.024	144.538	-67.296	1.00	133.93	C	C
ATOM	3802	O	GLU	C	176	93.696	143.522	-67.113	1.00	133.93	C	O
ATOM	3803	N	ASN	C	177	91.762	144.653	-66.898	1.00	62.69	C	N
ATOM	3804	CA	ASN	C	177	91.077	143.570	-66.201	1.00	62.69	C	C
ATOM	3805	CB	ASN	C	177	90.927	143.902	-64.715	1.00	62.69	C	C
ATOM	3806	CG	ASN	C	177	92.262	144.127	-64.031	1.00	62.69	C	C
ATOM	3807	OD1	ASN	C	177	92.869	143.193	-63.505	1.00	62.69	C	O
ATOM	3808	ND2	ASN	C	177	92.727	145.371	-64.035	1.00	62.69	C	N
ATOM	3809	C	ASN	C	177	89.711	143.265	-66.810	1.00	62.69	C	C
ATOM	3810	O	ASN	C	177	88.692	143.776	-66.347	1.00	62.69	C	O
ATOM	3811	N	PRO	C	178	89.692	142.426	-67.856	1.00	73.65	C	N
ATOM	3812	CA	PRO	C	178	88.458	142.030	-68.544	1.00	73.65	C	C
ATOM	3813	CD	PRO	C	178	90.887	141.848	-68.492	1.00	73.65	C	C
ATOM	3814	CB	PRO	C	178	88.957	141.070	-69.629	1.00	73.65	C	C
ATOM	3815	CG	PRO	C	178	90.384	141.441	-69.840	1.00	73.65	C	C
ATOM	3816	C	PRO	C	178	87.490	141.303	-67.615	1.00	73.65	C	C
ATOM	3817	O	PRO	C	178	86.313	141.157	-67.946	1.00	73.65	C	O
ATOM	3818	N	HIS	C	179	87.985	140.855	-66.465	1.00	64.97	C	N
ATOM	3819	CA	HIS	C	179	87.160	140.125	-65.509	1.00	64.97	C	C
ATOM	3820	ND1	HIS	C	179	89.594	138.396	-66.534	1.00	64.97	C	N
ATOM	3821	CG	HIS	C	179	88.673	138.090	-65.556	1.00	64.97	C	C
ATOM	3822	CB	HIS	C	179	88.011	139.135	-64.712	1.00	64.97	C	C
ATOM	3823	NE2	HIS	C	179	89.387	136.263	-66.542	1.00	64.97	C	N
ATOM	3824	CD2	HIS	C	179	88.547	136.741	-65.566	1.00	64.97	C	C
ATOM	3825	CE1	HIS	C	179	90.007	137.282	-67.112	1.00	64.97	C	C
ATOM	3826	C	HIS	C	179	86.429	141.068	-64.558	1.00	64.97	C	C
ATOM	3827	O	HIS	C	179	85.775	140.624	-63.614	1.00	64.97	C	O
ATOM	3828	N	THR	C	180	86.543	142.368	-64.810	1.00	98.23	C	N
ATOM	3829	CA	THR	C	180	85.887	143.368	-63.973	1.00	98.23	C	C
ATOM	3830	CB	THR	C	180	86.391	144.789	-64.288	1.00	98.23	C	C
ATOM	3831	OG1	THR	C	180	87.786	144.885	-63.976	1.00	98.23	C	O
ATOM	3832	CG2	THR	C	180	85.623	145.817	-63.471	1.00	98.23	C	C
ATOM	3833	C	THR	C	180	84.372	143.326	-64.140	1.00	98.23	C	C
ATOM	3834	O	THR	C	180	83.633	143.220	-63.162	1.00	98.23	C	O
ATOM	3835	N	SER	C	181	83.916	143.408	-65.386	1.00	37.88	C	N
ATOM	3836	CA	SER	C	181	82.488	143.384	-65.680	1.00	37.88	C	C
ATOM	3837	CB	SER	C	181	81.898	144.793	-65.586	1.00	37.88	C	C
ATOM	3838	OG	SER	C	181	82.534	145.673	-66.496	1.00	37.88	C	O
ATOM	3839	C	SER	C	181	82.219	142.795	-67.061	1.00	37.88	C	C
ATOM	3840	O	SER	C	181	83.139	142.342	-67.743	1.00	37.88	C	O
ATOM	3841	N	THR	C	182	80.953	142.803	-67.465	1.00	92.23	C	N
ATOM	3842	CA	THR	C	182	80.561	142.278	-68.767	1.00	92.23	C	C
ATOM	3843	CB	THR	C	182	79.029	142.200	-68.907	1.00	92.23	C	C
ATOM	3844	OG1	THR	C	182	78.496	141.347	-67.886	1.00	92.23	C	O
ATOM	3845	CG2	THR	C	182	78.645	141.651	-70.273	1.00	92.23	C	C
ATOM	3846	C	THR	C	182	81.123	143.135	-69.896	1.00	92.23	C	C

ATOM	3847	O	THR	C	182	81.651	142.614	-70.879	1.00	92.23	C	O
ATOM	3848	N	MET	C	183	81.007	144.450	-69.748	1.00	58.27	C	N
ATOM	3849	CA	MET	C	183	81.516	145.382	-70.748	1.00	58.27	C	C
ATOM	3850	CB	MET	C	183	81.145	146.820	-70.381	1.00	58.27	C	C
ATOM	3851	CG	MET	C	183	79.648	147.073	-70.295	1.00	58.27	C	C
ATOM	3852	SD	MET	C	183	79.250	148.784	-69.889	1.00	58.27	C	S
ATOM	3853	CE	MET	C	183	79.991	149.643	-71.275	1.00	58.27	C	C
ATOM	3854	C	MET	C	183	83.028	145.249	-70.895	1.00	58.27	C	C
ATOM	3855	O	MET	C	183	83.575	145.439	-71.981	1.00	58.27	C	O
ATOM	3856	N	ALA	C	184	83.697	144.921	-69.794	1.00	28.36	C	N
ATOM	3857	CA	ALA	C	184	85.142	144.729	-69.806	1.00	28.36	C	C
ATOM	3858	CB	ALA	C	184	85.673	144.615	-68.386	1.00	28.36	C	C
ATOM	3859	C	ALA	C	184	85.514	143.493	-70.617	1.00	28.36	C	C
ATOM	3860	O	ALA	C	184	86.589	143.429	-71.212	1.00	28.36	C	O
ATOM	3861	N	LEU	C	185	84.615	142.514	-70.636	1.00	114.45	C	N
ATOM	3862	CA	LEU	C	185	84.835	141.288	-71.393	1.00	114.45	C	C
ATOM	3863	CB	LEU	C	185	83.953	140.160	-70.854	1.00	114.45	C	C
ATOM	3864	CG	LEU	C	185	84.151	138.777	-71.478	1.00	114.45	C	C
ATOM	3865	CD1	LEU	C	185	85.589	138.310	-71.304	1.00	114.45	C	C
ATOM	3866	CD2	LEU	C	185	83.182	137.773	-70.873	1.00	114.45	C	C
ATOM	3867	C	LEU	C	185	84.553	141.515	-72.874	1.00	114.45	C	C
ATOM	3868	O	LEU	C	185	85.108	140.830	-73.734	1.00	114.45	C	O
ATOM	3869	N	VAL	C	186	83.688	142.481	-73.166	1.00	33.25	C	N
ATOM	3870	CA	VAL	C	186	83.357	142.821	-74.544	1.00	33.25	C	C
ATOM	3871	CB	VAL	C	186	82.214	143.851	-74.613	1.00	33.25	C	C
ATOM	3872	CG1	VAL	C	186	81.963	144.270	-76.053	1.00	33.25	C	C
ATOM	3873	CG2	VAL	C	186	80.949	143.282	-73.988	1.00	33.25	C	C
ATOM	3874	C	VAL	C	186	84.578	143.377	-75.266	1.00	33.25	C	C
ATOM	3875	O	VAL	C	186	84.889	142.970	-76.385	1.00	33.25	C	O
ATOM	3876	N	PHE	C	187	85.268	144.307	-74.615	1.00	90.63	C	N
ATOM	3877	CA	PHE	C	187	86.472	144.908	-75.176	1.00	90.63	C	C
ATOM	3878	CB	PHE	C	187	86.974	146.034	-74.270	1.00	90.63	C	C
ATOM	3879	CG	PHE	C	187	88.174	146.759	-74.811	1.00	90.63	C	C
ATOM	3880	CD1	PHE	C	187	88.021	147.800	-75.712	1.00	90.63	C	C
ATOM	3881	CD2	PHE	C	187	89.452	146.405	-74.415	1.00	90.63	C	C
ATOM	3882	CE1	PHE	C	187	89.122	148.471	-76.211	1.00	90.63	C	C
ATOM	3883	CE2	PHE	C	187	90.557	147.072	-74.910	1.00	90.63	C	C
ATOM	3884	CZ	PHE	C	187	90.391	148.106	-75.809	1.00	90.63	C	C
ATOM	3885	C	PHE	C	187	87.562	143.859	-75.370	1.00	90.63	C	C
ATOM	3886	O	PHE	C	187	88.483	144.045	-76.166	1.00	90.63	C	O
ATOM	3887	N	TYR	C	188	87.451	142.756	-74.636	1.00	111.20	C	N
ATOM	3888	CA	TYR	C	188	88.417	141.668	-74.730	1.00	111.20	C	C
ATOM	3889	CB	TYR	C	188	88.232	140.688	-73.569	1.00	111.20	C	C
ATOM	3890	CG	TYR	C	188	89.180	139.510	-73.594	1.00	111.20	C	C
ATOM	3891	CD1	TYR	C	188	90.443	139.597	-73.024	1.00	111.20	C	C
ATOM	3892	CD2	TYR	C	188	88.809	138.308	-74.182	1.00	111.20	C	C
ATOM	3893	CE1	TYR	C	188	91.311	138.521	-73.043	1.00	111.20	C	C
ATOM	3894	CE2	TYR	C	188	89.670	137.228	-74.206	1.00	111.20	C	C
ATOM	3895	CZ	TYR	C	188	90.919	137.339	-73.635	1.00	111.20	C	C
ATOM	3896	OH	TYR	C	188	91.779	136.266	-73.657	1.00	111.20	C	O
ATOM	3897	C	TYR	C	188	88.295	140.936	-76.063	1.00	111.20	C	C
ATOM	3898	O	TYR	C	188	89.297	140.655	-76.720	1.00	111.20	C	O
ATOM	3899	N	TYR	C	189	87.062	140.630	-76.458	1.00	99.31	C	N
ATOM	3900	CA	TYR	C	189	86.813	139.943	-77.720	1.00	99.31	C	C
ATOM	3901	CB	TYR	C	189	85.424	139.300	-77.721	1.00	99.31	C	C
ATOM	3902	CG	TYR	C	189	85.297	138.111	-76.794	1.00	99.31	C	C
ATOM	3903	CD1	TYR	C	189	84.859	138.267	-75.486	1.00	99.31	C	C
ATOM	3904	CD2	TYR	C	189	85.615	136.832	-77.229	1.00	99.31	C	C
ATOM	3905	CE1	TYR	C	189	84.742	137.182	-74.637	1.00	99.31	C	C
ATOM	3906	CE2	TYR	C	189	85.501	135.742	-76.387	1.00	99.31	C	C
ATOM	3907	CZ	TYR	C	189	85.064	135.923	-75.093	1.00	99.31	C	C
ATOM	3908	OH	TYR	C	189	84.949	134.840	-74.252	1.00	99.31	C	O
ATOM	3909	C	TYR	C	189	86.958	140.886	-78.910	1.00	99.31	C	C
ATOM	3910	O	TYR	C	189	87.483	140.503	-79.955	1.00	99.31	C	O
ATOM	3911	N	VAL	C	190	86.488	142.119	-78.746	1.00	25.67	C	N
ATOM	3912	CA	VAL	C	190	86.588	143.121	-79.801	1.00	25.67	C	C
ATOM	3913	CB	VAL	C	190	85.990	144.471	-79.361	1.00	25.67	C	C
ATOM	3914	CG1	VAL	C	190	86.296	145.548	-80.391	1.00	25.67	C	C

ATOM	3915	CG2	VAL	C	190	84.490	144.342	-79.146	1.00	25.67	C	C
ATOM	3916	C	VAL	C	190	88.039	143.328	-80.223	1.00	25.67	C	C
ATOM	3917	O	VAL	C	190	88.356	143.327	-81.412	1.00	25.67	C	O
ATOM	3918	N	THR	C	191	88.916	143.502	-79.239	1.00	113.27	C	N
ATOM	3919	CA	THR	C	191	90.337	143.689	-79.505	1.00	113.27	C	C
ATOM	3920	CB	THR	C	191	91.128	143.927	-78.205	1.00	113.27	C	C
ATOM	3921	OG1	THR	C	191	90.649	145.114	-77.561	1.00	113.27	C	O
ATOM	3922	CG2	THR	C	191	92.611	144.084	-78.505	1.00	113.27	C	C
ATOM	3923	C	THR	C	191	90.919	142.480	-80.229	1.00	113.27	C	C
ATOM	3924	O	THR	C	191	91.588	142.621	-81.252	1.00	113.27	C	O
ATOM	3925	N	GLY	C	192	90.655	141.292	-79.693	1.00	21.76	C	N
ATOM	3926	CA	GLY	C	192	91.154	140.059	-80.274	1.00	21.76	C	C
ATOM	3927	C	GLY	C	192	90.769	139.890	-81.731	1.00	21.76	C	C
ATOM	3928	O	GLY	C	192	91.482	139.243	-82.498	1.00	21.76	C	O
ATOM	3929	N	PHE	C	193	89.637	140.472	-82.113	1.00	45.84	C	N
ATOM	3930	CA	PHE	C	193	89.166	140.397	-83.491	1.00	45.84	C	C
ATOM	3931	CB	PHE	C	193	87.698	140.819	-83.584	1.00	45.84	C	C
ATOM	3932	CG	PHE	C	193	86.751	139.874	-82.900	1.00	45.84	C	C
ATOM	3933	CD1	PHE	C	193	87.130	138.571	-82.623	1.00	45.84	C	C
ATOM	3934	CD2	PHE	C	193	85.481	140.288	-82.536	1.00	45.84	C	C
ATOM	3935	CE1	PHE	C	193	86.261	137.699	-81.994	1.00	45.84	C	C
ATOM	3936	CE2	PHE	C	193	84.607	139.421	-81.907	1.00	45.84	C	C
ATOM	3937	CZ	PHE	C	193	84.998	138.125	-81.636	1.00	45.84	C	C
ATOM	3938	C	PHE	C	193	90.023	141.256	-84.416	1.00	45.84	C	C
ATOM	3939	O	PHE	C	193	90.438	140.806	-85.484	1.00	45.84	C	O
ATOM	3940	N	PHE	C	194	90.285	142.491	-84.001	1.00	127.60	C	N
ATOM	3941	CA	PHE	C	194	91.113	143.401	-84.785	1.00	127.60	C	C
ATOM	3942	CB	PHE	C	194	91.126	144.798	-84.160	1.00	127.60	C	C
ATOM	3943	CG	PHE	C	194	89.851	145.567	-84.365	1.00	127.60	C	C
ATOM	3944	CD1	PHE	C	194	88.820	145.484	-83.445	1.00	127.60	C	C
ATOM	3945	CD2	PHE	C	194	89.686	146.373	-85.479	1.00	127.60	C	C
ATOM	3946	CE1	PHE	C	194	87.647	146.191	-83.632	1.00	127.60	C	C
ATOM	3947	CE2	PHE	C	194	88.515	147.082	-85.671	1.00	127.60	C	C
ATOM	3948	CZ	PHE	C	194	87.494	146.991	-84.747	1.00	127.60	C	C
ATOM	3949	C	PHE	C	194	92.538	142.875	-84.928	1.00	127.60	C	C
ATOM	3950	O	PHE	C	194	93.202	143.124	-85.934	1.00	127.60	C	O
ATOM	3951	N	ILE	C	195	93.002	142.148	-83.917	1.00	36.34	C	N
ATOM	3952	CA	ILE	C	195	94.337	141.563	-83.947	1.00	36.34	C	C
ATOM	3953	CB	ILE	C	195	94.731	140.980	-82.578	1.00	36.34	C	C
ATOM	3954	CG2	ILE	C	195	96.169	140.485	-82.603	1.00	36.34	C	C
ATOM	3955	CG1	ILE	C	195	94.542	142.025	-81.477	1.00	36.34	C	C
ATOM	3956	CD1	ILE	C	195	94.800	141.494	-80.084	1.00	36.34	C	C
ATOM	3957	C	ILE	C	195	94.411	140.458	-84.994	1.00	36.34	C	C
ATOM	3958	O	ILE	C	195	95.435	140.278	-85.652	1.00	36.34	C	O
ATOM	3959	N	ALA	C	196	93.315	139.721	-85.142	1.00	30.78	C	N
ATOM	3960	CA	ALA	C	196	93.245	138.640	-86.117	1.00	30.78	C	C
ATOM	3961	CB	ALA	C	196	92.093	137.704	-85.787	1.00	30.78	C	C
ATOM	3962	C	ALA	C	196	93.098	139.189	-87.532	1.00	30.78	C	C
ATOM	3963	O	ALA	C	196	93.787	138.749	-88.453	1.00	30.78	C	O
ATOM	3964	N	VAL	C	197	92.199	140.154	-87.696	1.00	86.02	C	N
ATOM	3965	CA	VAL	C	197	91.957	140.767	-88.997	1.00	86.02	C	C
ATOM	3966	CB	VAL	C	197	90.816	141.802	-88.931	1.00	86.02	C	C
ATOM	3967	CG1	VAL	C	197	90.649	142.496	-90.274	1.00	86.02	C	C
ATOM	3968	CG2	VAL	C	197	89.518	141.134	-88.505	1.00	86.02	C	C
ATOM	3969	C	VAL	C	197	93.215	141.438	-89.538	1.00	86.02	C	C
ATOM	3970	O	VAL	C	197	93.504	141.367	-90.732	1.00	86.02	C	O
ATOM	3971	N	SER	C	198	93.963	142.087	-88.651	1.00	41.44	C	N
ATOM	3972	CA	SER	C	198	95.192	142.768	-89.040	1.00	41.44	C	C
ATOM	3973	CB	SER	C	198	95.767	143.556	-87.860	1.00	41.44	C	C
ATOM	3974	OG	SER	C	198	96.088	142.697	-86.780	1.00	41.44	C	O
ATOM	3975	C	SER	C	198	96.229	141.782	-89.571	1.00	41.44	C	C
ATOM	3976	O	SER	C	198	97.050	142.129	-90.419	1.00	41.44	C	O
ATOM	3977	N	VAL	C	199	96.184	140.553	-89.066	1.00	108.02	C	N
ATOM	3978	CA	VAL	C	199	97.106	139.510	-89.502	1.00	108.02	C	C
ATOM	3979	CB	VAL	C	199	97.274	138.416	-88.430	1.00	108.02	C	C
ATOM	3980	CG1	VAL	C	199	98.138	137.281	-88.960	1.00	108.02	C	C
ATOM	3981	CG2	VAL	C	199	97.874	139.002	-87.162	1.00	108.02	C	C
ATOM	3982	C	VAL	C	199	96.635	138.869	-90.804	1.00	108.02	C	C

ATOM	3983	O	VAL	C	199	97.426	138.657	-91.724	1.00	108.02	C	O
ATOM	3984	N	ILE	C	200	95.344	138.563	-90.876	1.00	89.21	C	N
ATOM	3985	CA	ILE	C	200	94.764	137.963	-92.072	1.00	89.21	C	C
ATOM	3986	CB	ILE	C	200	93.277	137.617	-91.869	1.00	89.21	C	C
ATOM	3987	CG2	ILE	C	200	92.686	137.037	-93.144	1.00	89.21	C	C
ATOM	3988	CG1	ILE	C	200	93.111	136.635	-90.708	1.00	89.21	C	C
ATOM	3989	CD1	ILE	C	200	93.835	135.323	-90.911	1.00	89.21	C	C
ATOM	3990	C	ILE	C	200	94.904	138.892	-93.273	1.00	89.21	C	C
ATOM	3991	O	ILE	C	200	95.343	138.475	-94.344	1.00	89.21	C	O
ATOM	3992	N	ALA	C	201	94.529	140.153	-93.085	1.00	33.80	C	N
ATOM	3993	CA	ALA	C	201	94.636	141.149	-94.145	1.00	33.80	C	C
ATOM	3994	CB	ALA	C	201	94.045	142.474	-93.691	1.00	33.80	C	C
ATOM	3995	C	ALA	C	201	96.087	141.330	-94.574	1.00	33.80	C	C
ATOM	3996	O	ALA	C	201	96.373	141.543	-95.752	1.00	33.80	C	O
ATOM	3997	N	ASN	C	202	96.999	141.242	-93.611	1.00	47.57	C	N
ATOM	3998	CA	ASN	C	202	98.424	141.358	-93.890	1.00	47.57	C	C
ATOM	3999	CB	ASN	C	202	99.235	141.196	-92.602	1.00	47.57	C	C
ATOM	4000	CG	ASN	C	202	100.701	141.547	-92.783	1.00	47.57	C	C
ATOM	4001	OD1	ASN	C	202	101.267	141.375	-93.863	1.00	47.57	C	O
ATOM	4002	ND2	ASN	C	202	101.324	142.043	-91.720	1.00	47.57	C	N
ATOM	4003	C	ASN	C	202	98.863	140.329	-94.926	1.00	47.57	C	C
ATOM	4004	O	ASN	C	202	99.632	140.636	-95.836	1.00	47.57	C	O
ATOM	4005	N	VAL	C	203	98.363	139.106	-94.781	1.00	47.39	C	N
ATOM	4006	CA	VAL	C	203	98.678	138.032	-95.714	1.00	47.39	C	C
ATOM	4007	CB	VAL	C	203	98.168	136.672	-95.198	1.00	47.39	C	C
ATOM	4008	CG1	VAL	C	203	98.507	135.567	-96.187	1.00	47.39	C	C
ATOM	4009	CG2	VAL	C	203	98.759	136.370	-93.829	1.00	47.39	C	C
ATOM	4010	C	VAL	C	203	98.071	138.308	-97.086	1.00	47.39	C	C
ATOM	4011	O	VAL	C	203	98.677	138.010	-98.116	1.00	47.39	C	O
ATOM	4012	N	VAL	C	204	96.873	138.885	-97.093	1.00	117.92	C	N
ATOM	4013	CA	VAL	C	204	96.180	139.201	-98.336	1.00	117.92	C	C
ATOM	4014	CB	VAL	C	204	94.725	139.638	-98.077	1.00	117.92	C	C
ATOM	4015	CG1	VAL	C	204	93.994	139.862	-99.392	1.00	117.92	C	C
ATOM	4016	CG2	VAL	C	204	94.003	138.598	-97.237	1.00	117.92	C	C
ATOM	4017	C	VAL	C	204	96.909	140.300	-99.105	1.00	117.92	C	C
ATOM	4018	O	VAL	C	204	96.837	140.365	-100.332	1.00	117.92	C	O
ATOM	4019	N	GLU	C	205	97.613	141.160	-98.377	1.00	86.49	C	N
ATOM	4020	CA	GLU	C	205	98.375	142.238	-98.997	1.00	86.49	C	C
ATOM	4021	CB	GLU	C	205	98.900	143.206	-97.934	1.00	86.49	C	C
ATOM	4022	CG	GLU	C	205	97.814	143.916	-97.143	1.00	86.49	C	C
ATOM	4023	CD	GLU	C	205	98.380	144.856	-96.097	1.00	86.49	C	C
ATOM	4024	OE1	GLU	C	205	99.621	144.950	-95.992	1.00	86.49	C	O
ATOM	4025	OE2	GLU	C	205	97.585	145.499	-95.380	1.00	86.49	C	O
ATOM	4026	C	GLU	C	205	99.537	141.684	-99.816	1.00	86.49	C	C
ATOM	4027	O	GLU	C	205	100.046	142.350	-100.716	1.00	86.49	C	O
ATOM	4028	N	THR	C	206	99.948	140.461	-99.497	1.00	119.91	C	N
ATOM	4029	CA	THR	C	206	101.067	139.825	-100.182	1.00	119.91	C	C
ATOM	4030	CB	THR	C	206	101.757	138.783	-99.281	1.00	119.91	C	C
ATOM	4031	OG1	THR	C	206	102.056	139.371	-98.009	1.00	119.91	C	O
ATOM	4032	CG2	THR	C	206	103.045	138.287	-99.922	1.00	119.91	C	C
ATOM	4033	C	THR	C	206	100.613	139.154	-101.476	1.00	119.91	C	C
ATOM	4034	O	THR	C	206	101.425	138.875	-102.358	1.00	119.91	C	O
ATOM	4035	N	VAL	C	207	99.312	138.899	-101.581	1.00	81.16	C	N
ATOM	4036	CA	VAL	C	207	98.739	138.289	-102.777	1.00	81.16	C	C
ATOM	4037	CB	VAL	C	207	97.199	138.370	-102.767	1.00	81.16	C	C
ATOM	4038	CG1	VAL	C	207	96.629	137.931	-104.107	1.00	81.16	C	C
ATOM	4039	CG2	VAL	C	207	96.630	137.528	-101.634	1.00	81.16	C	C
ATOM	4040	C	VAL	C	207	99.274	138.956	-104.040	1.00	81.16	C	C
ATOM	4041	O	VAL	C	207	99.282	140.182	-104.141	1.00	81.16	C	O
ATOM	4042	N	PRO	C	208	99.731	138.143	-105.006	1.00	163.31	C	N
ATOM	4043	CA	PRO	C	208	100.310	138.615	-106.269	1.00	163.31	C	C
ATOM	4044	CD	PRO	C	208	99.716	136.671	-104.927	1.00	163.31	C	C
ATOM	4045	CB	PRO	C	208	100.297	137.358	-107.139	1.00	163.31	C	C
ATOM	4046	CG	PRO	C	208	100.461	136.248	-106.166	1.00	163.31	C	C
ATOM	4047	C	PRO	C	208	99.484	139.718	-106.926	1.00	163.31	C	C
ATOM	4048	O	PRO	C	208	98.531	139.430	-107.650	1.00	163.31	C	O
ATOM	4049	N	CYS	C	209	99.860	140.968	-106.671	1.00	122.13	C	N
ATOM	4050	CA	CYS	C	209	99.187	142.119	-107.262	1.00	122.13	C	C

ATOM	4051	CB	CYS	C	209	97.745	142.222-106.761	1.00122.13	C	C
ATOM	4052	SG	CYS	C	209	97.588	142.543-104.989	1.00122.13	C	S
ATOM	4053	C	CYS	C	209	99.944	143.404-106.941	1.00122.13	C	C
ATOM	4054	O	CYS	C	209	101.119	143.367-106.576	1.00122.13	C	O
ATOM	4055	N	GLY	C	210	99.265	144.538-107.079	1.00296.88	C	N
ATOM	4056	CA	GLY	C	210	99.865	145.827-106.784	1.00296.88	C	C
ATOM	4057	C	GLY	C	210	100.674	146.384-107.939	1.00296.88	C	C
ATOM	4058	O	GLY	C	210	100.663	145.835-109.041	1.00296.88	C	O
ATOM	4059	N	SER	C	211	101.379	147.481-107.684	1.00230.38	C	N
ATOM	4060	CA	SER	C	211	102.201	148.121-108.705	1.00230.38	C	C
ATOM	4061	CB	SER	C	211	101.757	149.570-108.916	1.00230.38	C	C
ATOM	4062	OG	SER	C	211	100.408	149.632-109.348	1.00230.38	C	O
ATOM	4063	C	SER	C	211	103.680	148.075-108.333	1.00230.38	C	C
ATOM	4064	O	SER	C	211	104.262	146.999-108.193	1.00230.38	C	O
ATOM	4065	N	SER	C	212	104.281	149.250-108.175	1.00146.29	C	N
ATOM	4066	CA	SER	C	212	105.693	149.348-107.817	1.00146.29	C	C
ATOM	4067	CB	SER	C	212	106.500	149.987-108.954	1.00146.29	C	C
ATOM	4068	OG	SER	C	212	106.427	149.207-110.135	1.00146.29	C	O
ATOM	4069	C	SER	C	212	105.917	150.106-106.505	1.00146.29	C	C
ATOM	4070	O	SER	C	212	106.586	149.598-105.605	1.00146.29	C	O
ATOM	4071	N	PRO	C	213	105.358	151.323-106.390	1.00129.39	C	N
ATOM	4072	CA	PRO	C	213	105.558	152.113-105.172	1.00129.39	C	C
ATOM	4073	CD	PRO	C	213	104.530	152.046-107.366	1.00129.39	C	C
ATOM	4074	CB	PRO	C	213	105.146	153.532-105.595	1.00129.39	C	C
ATOM	4075	CG	PRO	C	213	104.878	153.465-107.082	1.00129.39	C	C
ATOM	4076	C	PRO	C	213	104.649	151.638-104.047	1.00129.39	C	C
ATOM	4077	O	PRO	C	213	104.881	151.968-102.885	1.00129.39	C	O
ATOM	4078	N	GLY	C	214	103.618	150.880-104.402	1.00105.51	C	N
ATOM	4079	CA	GLY	C	214	102.672	150.374-103.427	1.00105.51	C	C
ATOM	4080	C	GLY	C	214	102.855	148.893-103.165	1.00105.51	C	C
ATOM	4081	O	GLY	C	214	102.120	148.294-102.380	1.00105.51	C	O
ATOM	4082	N	HIS	C	215	103.843	148.299-103.827	1.00142.23	C	N
ATOM	4083	CA	HIS	C	215	104.127	146.879-103.669	1.00142.23	C	C
ATOM	4084	ND1	HIS	C	215	104.123	143.887-104.619	1.00142.23	C	N
ATOM	4085	CG	HIS	C	215	105.074	144.854-104.863	1.00142.23	C	C
ATOM	4086	CB	HIS	C	215	104.742	146.310-104.949	1.00142.23	C	C
ATOM	4087	NE2	HIS	C	215	105.994	142.861-104.817	1.00142.23	C	N
ATOM	4088	CD2	HIS	C	215	106.253	144.199-104.986	1.00142.23	C	C
ATOM	4089	CE1	HIS	C	215	104.701	142.699-104.597	1.00142.23	C	C
ATOM	4090	C	HIS	C	215	105.056	146.627-102.485	1.00142.23	C	C
ATOM	4091	O	HIS	C	215	104.935	145.615-101.794	1.00142.23	C	O
ATOM	4092	N	ILE	C	216	105.982	147.552-102.258	1.00 67.89	C	N
ATOM	4093	CA	ILE	C	216	106.931	147.431-101.158	1.00 67.89	C	C
ATOM	4094	CB	ILE	C	216	108.062	148.471-101.269	1.00 67.89	C	C
ATOM	4095	CG2	ILE	C	216	109.073	148.278-100.150	1.00 67.89	C	C
ATOM	4096	CG1	ILE	C	216	108.743	148.376-102.636	1.00 67.89	C	C
ATOM	4097	CD1	ILE	C	216	109.877	149.359-102.823	1.00 67.89	C	C
ATOM	4098	C	ILE	C	216	106.231	147.600 -99.814	1.00 67.89	C	C
ATOM	4099	O	ILE	C	216	106.391	146.778 -98.912	1.00 67.89	C	O
ATOM	4100	N	LYS	C	217	105.454	148.671 -99.688	1.00172.29	C	N
ATOM	4101	CA	LYS	C	217	104.709	148.936 -98.464	1.00172.29	C	C
ATOM	4102	CB	LYS	C	217	104.356	150.422 -98.363	1.00172.29	C	C
ATOM	4103	CG	LYS	C	217	103.767	150.837 -97.023	1.00172.29	C	C
ATOM	4104	CD	LYS	C	217	104.736	150.564 -95.885	1.00172.29	C	C
ATOM	4105	CE	LYS	C	217	104.145	150.972 -94.544	1.00172.29	C	C
ATOM	4106	NZ	LYS	C	217	105.081	150.707 -93.417	1.00172.29	C	N
ATOM	4107	C	LYS	C	217	103.444	148.085 -98.419	1.00172.29	C	C
ATOM	4108	O	LYS	C	217	102.700	148.109 -97.439	1.00172.29	C	O
ATOM	4109	N	GLU	C	218	103.210	147.335 -99.493	1.00302.48	C	N
ATOM	4110	CA	GLU	C	218	102.057	146.445 -99.590	1.00302.48	C	C
ATOM	4111	CB	GLU	C	218	102.028	145.464 -98.415	1.00302.48	C	C
ATOM	4112	CG	GLU	C	218	103.279	144.609 -98.287	1.00302.48	C	C
ATOM	4113	CD	GLU	C	218	103.474	143.674 -99.465	1.00302.48	C	C
ATOM	4114	OE1	GLU	C	218	102.532	143.522-100.271	1.00302.48	C	O
ATOM	4115	OE2	GLU	C	218	104.571	143.089 -99.586	1.00302.48	C	O
ATOM	4116	C	GLU	C	218	100.740	147.212 -99.673	1.00302.48	C	C
ATOM	4117	O	GLU	C	218	99.668	146.613 -99.765	1.00302.48	C	O
ATOM	4118	N	LEU	C	219	100.826	148.538 -99.641	1.00167.09	C	N

ATOM	4119	CA	LEU	C	219	99.643	149.386	-99.735	1.00167.09	C	C
ATOM	4120	CB	LEU	C	219	98.794	149.280	-98.461	1.00167.09	C	C
ATOM	4121	CG	LEU	C	219	99.500	149.276	-97.101	1.00167.09	C	C
ATOM	4122	CD1	LEU	C	219	99.926	150.676	-96.690	1.00167.09	C	C
ATOM	4123	CD2	LEU	C	219	98.591	148.673	-96.043	1.00167.09	C	C
ATOM	4124	C	LEU	C	219	100.002	150.840	-100.037	1.00167.09	C	C
ATOM	4125	O	LEU	C	219	100.787	151.456	-99.317	1.00167.09	C	O
ATOM	4126	N	PRO	C	220	99.435	151.385	-101.123	1.00155.58	C	N
ATOM	4127	CA	PRO	C	220	99.661	152.776	-101.529	1.00155.58	C	C
ATOM	4128	CD	PRO	C	220	98.613	150.652	-102.100	1.00155.58	C	C
ATOM	4129	CB	PRO	C	220	98.868	152.890	-102.836	1.00155.58	C	C
ATOM	4130	CG	PRO	C	220	98.740	151.489	-103.332	1.00155.58	C	C
ATOM	4131	C	PRO	C	220	99.114	153.760	-100.501	1.00155.58	C	C
ATOM	4132	O	PRO	C	220	97.901	153.950	-100.414	1.00155.58	C	O
ATOM	4133	N	CYS	C	221	100.005	154.378	-99.731	1.00 60.66	C	N
ATOM	4134	CA	CYS	C	221	99.598	155.337	-98.711	1.00 60.66	C	C
ATOM	4135	CB	CYS	C	221	100.765	155.649	-97.773	1.00 60.66	C	C
ATOM	4136	SG	CYS	C	221	101.421	154.210	-96.897	1.00 60.66	C	S
ATOM	4137	C	CYS	C	221	99.071	156.621	-99.343	1.00 60.66	C	C
ATOM	4138	O	CYS	C	221	99.756	157.254	-100.148	1.00 60.66	C	O
ATOM	4139	N	GLY	C	222	97.852	157.000	-98.975	1.00 31.84	C	N
ATOM	4140	CA	GLY	C	222	97.233	158.200	-99.508	1.00 31.84	C	C
ATOM	4141	C	GLY	C	222	96.000	158.616	-98.731	1.00 31.84	C	C
ATOM	4142	O	GLY	C	222	95.456	157.841	-97.945	1.00 31.84	C	O
ATOM	4143	N	GLU	C	223	95.559	159.850	-98.954	1.00109.66	C	N
ATOM	4144	CA	GLU	C	223	94.378	160.379	-98.282	1.00109.66	C	C
ATOM	4145	CB	GLU	C	223	94.456	161.906	-98.193	1.00109.66	C	C
ATOM	4146	CG	GLU	C	223	93.314	162.560	-97.426	1.00109.66	C	C
ATOM	4147	CD	GLU	C	223	92.073	162.764	-98.276	1.00109.66	C	C
ATOM	4148	OE1	GLU	C	223	92.171	162.645	-99.515	1.00109.66	C	O
ATOM	4149	OE2	GLU	C	223	90.998	163.043	-97.704	1.00109.66	C	O
ATOM	4150	C	GLU	C	223	93.107	159.946	-99.006	1.00109.66	C	C
ATOM	4151	O	GLU	C	223	92.030	159.889	-98.412	1.00109.66	C	O
ATOM	4152	N	ARG	C	224	93.243	159.637	-100.292	1.00102.89	C	N
ATOM	4153	CA	ARG	C	224	92.109	159.221	-101.111	1.00102.89	C	C
ATOM	4154	CB	ARG	C	224	92.567	158.904	-102.536	1.00102.89	C	C
ATOM	4155	CG	ARG	C	224	93.205	160.078	-103.262	1.00102.89	C	C
ATOM	4156	CD	ARG	C	224	93.656	159.683	-104.659	1.00102.89	C	C
ATOM	4157	NE	ARG	C	224	94.302	160.791	-105.357	1.00102.89	C	N
ATOM	4158	CZ	ARG	C	224	94.792	160.712	-106.590	1.00102.89	C	C
ATOM	4159	NH1	ARG	C	224	94.711	159.575	-107.267	1.00102.89	C	N
ATOM	4160	NH2	ARG	C	224	95.364	161.771	-107.147	1.00102.89	C	N
ATOM	4161	C	ARG	C	224	91.389	158.014	-100.516	1.00102.89	C	C
ATOM	4162	O	ARG	C	224	90.187	157.839	-100.717	1.00102.89	C	O
ATOM	4163	N	TYR	C	225	92.130	157.185	-99.788	1.00235.34	C	N
ATOM	4164	CA	TYR	C	225	91.568	155.990	-99.168	1.00235.34	C	C
ATOM	4165	CB	TYR	C	225	90.565	156.369	-98.076	1.00235.34	C	C
ATOM	4166	CG	TYR	C	225	91.161	157.176	-96.945	1.00235.34	C	C
ATOM	4167	CD1	TYR	C	225	92.517	157.108	-96.656	1.00235.34	C	C
ATOM	4168	CD2	TYR	C	225	90.367	158.007	-96.166	1.00235.34	C	C
ATOM	4169	CE1	TYR	C	225	93.066	157.844	-95.624	1.00235.34	C	C
ATOM	4170	CE2	TYR	C	225	90.906	158.747	-95.132	1.00235.34	C	C
ATOM	4171	CZ	TYR	C	225	92.255	158.662	-94.865	1.00235.34	C	C
ATOM	4172	OH	TYR	C	225	92.797	159.397	-93.835	1.00235.34	C	O
ATOM	4173	C	TYR	C	225	90.901	155.086	-100.199	1.00235.34	C	C
ATOM	4174	O	TYR	C	225	89.835	154.524	-99.948	1.00235.34	C	O
ATOM	4175	N	ALA	C	226	91.535	154.949	-101.359	1.00 79.48	C	N
ATOM	4176	CA	ALA	C	226	91.002	154.113	-102.429	1.00 79.48	C	C
ATOM	4177	CB	ALA	C	226	91.589	154.527	-103.770	1.00 79.48	C	C
ATOM	4178	C	ALA	C	226	91.272	152.636	-102.160	1.00 79.48	C	C
ATOM	4179	O	ALA	C	226	90.367	151.806	-102.240	1.00 79.48	C	O
ATOM	4180	N	VAL	C	227	92.522	152.315	-101.842	1.00226.17	C	N
ATOM	4181	CA	VAL	C	227	92.908	150.939	-101.555	1.00226.17	C	C
ATOM	4182	CB	VAL	C	227	94.437	150.797	-101.431	1.00226.17	C	C
ATOM	4183	CG1	VAL	C	227	94.810	149.364	-101.083	1.00226.17	C	C
ATOM	4184	CG2	VAL	C	227	95.115	151.232	-102.720	1.00226.17	C	C
ATOM	4185	C	VAL	C	227	92.250	150.442	-100.272	1.00226.17	C	C
ATOM	4186	O	VAL	C	227	92.403	151.045	-99.210	1.00226.17	C	O

ATOM	4187	N	ALA	C	228	91.514	149.340	-100.379	1.00	52.15	C	N
ATOM	4188	CA	ALA	C	228	90.824	148.764	-99.230	1.00	52.15	C	C
ATOM	4189	CB	ALA	C	228	89.896	147.645	-99.676	1.00	52.15	C	C
ATOM	4190	C	ALA	C	228	91.814	148.252	-98.189	1.00	52.15	C	C
ATOM	4191	O	ALA	C	228	91.529	148.261	-96.992	1.00	52.15	C	O
ATOM	4192	N	PHE	C	229	92.975	147.804	-98.655	1.00	68.64	C	N
ATOM	4193	CA	PHE	C	229	94.013	147.296	-97.766	1.00	68.64	C	C
ATOM	4194	CB	PHE	C	229	95.178	146.725	-98.576	1.00	68.64	C	C
ATOM	4195	CG	PHE	C	229	94.790	145.591	-99.480	1.00	68.64	C	C
ATOM	4196	CD1	PHE	C	229	94.834	144.283	-99.029	1.00	68.64	C	C
ATOM	4197	CD2	PHE	C	229	94.382	145.833	-100.782	1.00	68.64	C	C
ATOM	4198	CE1	PHE	C	229	94.478	143.237	-99.858	1.00	68.64	C	C
ATOM	4199	CE2	PHE	C	229	94.025	144.791	-101.616	1.00	68.64	C	C
ATOM	4200	CZ	PHE	C	229	94.073	143.491	-101.153	1.00	68.64	C	C
ATOM	4201	C	PHE	C	229	94.514	148.388	-96.828	1.00	68.64	C	C
ATOM	4202	O	PHE	C	229	94.820	148.128	-95.664	1.00	68.64	C	O
ATOM	4203	N	PHE	C	230	94.595	149.610	-97.342	1.00	73.77	C	N
ATOM	4204	CA	PHE	C	230	95.051	150.745	-96.550	1.00	73.77	C	C
ATOM	4205	CB	PHE	C	230	95.400	151.927	-97.456	1.00	73.77	C	C
ATOM	4206	CG	PHE	C	230	95.932	153.122	-96.716	1.00	73.77	C	C
ATOM	4207	CD1	PHE	C	230	97.280	153.222	-96.415	1.00	73.77	C	C
ATOM	4208	CD2	PHE	C	230	95.085	154.146	-96.326	1.00	73.77	C	C
ATOM	4209	CE1	PHE	C	230	97.773	154.320	-95.736	1.00	73.77	C	C
ATOM	4210	CE2	PHE	C	230	95.572	155.246	-95.647	1.00	73.77	C	C
ATOM	4211	CZ	PHE	C	230	96.917	155.333	-95.352	1.00	73.77	C	C
ATOM	4212	C	PHE	C	230	93.995	151.158	-95.531	1.00	73.77	C	C
ATOM	4213	O	PHE	C	230	94.320	151.594	-94.428	1.00	73.77	C	O
ATOM	4214	N	CYS	C	231	92.729	151.018	-95.911	1.00	36.96	C	N
ATOM	4215	CA	CYS	C	231	91.622	151.364	-95.029	1.00	36.96	C	C
ATOM	4216	CB	CYS	C	231	90.301	151.361	-95.801	1.00	36.96	C	C
ATOM	4217	SG	CYS	C	231	90.229	152.552	-97.160	1.00	36.96	C	S
ATOM	4218	C	CYS	C	231	91.542	150.400	-93.851	1.00	36.96	C	C
ATOM	4219	O	CYS	C	231	91.294	150.810	-92.717	1.00	36.96	C	O
ATOM	4220	N	LEU	C	232	91.755	149.117	-94.127	1.00	104.38	C	N
ATOM	4221	CA	LEU	C	232	91.727	148.096	-93.088	1.00	104.38	C	C
ATOM	4222	CB	LEU	C	232	91.697	146.698	-93.708	1.00	104.38	C	C
ATOM	4223	CG	LEU	C	232	90.490	146.370	-94.590	1.00	104.38	C	C
ATOM	4224	CD1	LEU	C	232	90.627	144.980	-95.194	1.00	104.38	C	C
ATOM	4225	CD2	LEU	C	232	89.197	146.489	-93.797	1.00	104.38	C	C
ATOM	4226	C	LEU	C	232	92.929	148.231	-92.160	1.00	104.38	C	C
ATOM	4227	O	LEU	C	232	92.808	148.076	-90.945	1.00	104.38	C	O
ATOM	4228	N	ASP	C	233	94.088	148.522	-92.742	1.00	58.49	C	N
ATOM	4229	CA	ASP	C	233	95.312	148.694	-91.969	1.00	58.49	C	C
ATOM	4230	CB	ASP	C	233	96.511	148.885	-92.900	1.00	58.49	C	C
ATOM	4231	CG	ASP	C	233	97.814	149.059	-92.144	1.00	58.49	C	C
ATOM	4232	OD1	ASP	C	233	97.942	148.490	-91.039	1.00	58.49	C	O
ATOM	4233	OD2	ASP	C	233	98.710	149.764	-92.654	1.00	58.49	C	O
ATOM	4234	C	ASP	C	233	95.193	149.880	-91.017	1.00	58.49	C	C
ATOM	4235	O	ASP	C	233	95.547	149.782	-89.842	1.00	58.49	C	O
ATOM	4236	N	THR	C	234	94.692	150.998	-91.533	1.00	127.80	C	N
ATOM	4237	CA	THR	C	234	94.510	152.200	-90.728	1.00	127.80	C	C
ATOM	4238	CB	THR	C	234	94.045	153.391	-91.588	1.00	127.80	C	C
ATOM	4239	OG1	THR	C	234	95.012	153.648	-92.615	1.00	127.80	C	O
ATOM	4240	CG2	THR	C	234	93.878	154.637	-90.732	1.00	127.80	C	C
ATOM	4241	C	THR	C	234	93.497	151.961	-89.613	1.00	127.80	C	C
ATOM	4242	O	THR	C	234	93.639	152.485	-88.509	1.00	127.80	C	O
ATOM	4243	N	ALA	C	235	92.475	151.164	-89.911	1.00	35.61	C	N
ATOM	4244	CA	ALA	C	235	91.442	150.845	-88.933	1.00	35.61	C	C
ATOM	4245	CB	ALA	C	235	90.301	150.088	-89.596	1.00	35.61	C	C
ATOM	4246	C	ALA	C	235	92.014	150.039	-87.771	1.00	35.61	C	C
ATOM	4247	O	ALA	C	235	91.679	150.282	-86.611	1.00	35.61	C	O
ATOM	4248	N	CYS	C	236	92.878	149.082	-88.090	1.00	41.29	C	N
ATOM	4249	CA	CYS	C	236	93.504	148.245	-87.072	1.00	41.29	C	C
ATOM	4250	CB	CYS	C	236	94.226	147.061	-87.719	1.00	41.29	C	C
ATOM	4251	SG	CYS	C	236	93.148	145.944	-88.647	1.00	41.29	C	S
ATOM	4252	C	CYS	C	236	94.478	149.051	-86.220	1.00	41.29	C	C
ATOM	4253	O	CYS	C	236	94.459	148.967	-84.992	1.00	41.29	C	O
ATOM	4254	N	VAL	C	237	95.329	149.832	-86.879	1.00	109.38	C	N

ATOM	4255	CA	VAL	C	237	96.303	150.664	-86.182	1.00109.38	C	C
ATOM	4256	CB	VAL	C	237	97.242	151.382	-87.170	1.00109.38	C	C
ATOM	4257	CG1	VAL	C	237	98.187	152.314	-86.426	1.00109.38	C	C
ATOM	4258	CG2	VAL	C	237	98.023	150.368	-87.991	1.00109.38	C	C
ATOM	4259	C	VAL	C	237	95.607	151.698	-85.303	1.00109.38	C	C
ATOM	4260	O	VAL	C	237	96.085	152.025	-84.217	1.00109.38	C	O
ATOM	4261	N	MET	C	238	94.476	152.207	-85.780	1.00141.41	C	N
ATOM	4262	CA	MET	C	238	93.700	153.190	-85.033	1.00141.41	C	C
ATOM	4263	CB	MET	C	238	92.458	153.605	-85.826	1.00141.41	C	C
ATOM	4264	CG	MET	C	238	91.658	154.745	-85.208	1.00141.41	C	C
ATOM	4265	SD	MET	C	238	90.665	154.250	-83.786	1.00141.41	C	S
ATOM	4266	CE	MET	C	238	89.878	155.803	-83.366	1.00141.41	C	C
ATOM	4267	C	MET	C	238	93.300	152.632	-83.672	1.00141.41	C	C
ATOM	4268	O	MET	C	238	93.513	153.270	-82.641	1.00141.41	C	O
ATOM	4269	N	ILE	C	239	92.720	151.436	-83.677	1.00163.25	C	N
ATOM	4270	CA	ILE	C	239	92.299	150.783	-82.445	1.00163.25	C	C
ATOM	4271	CB	ILE	C	239	91.565	149.459	-82.731	1.00163.25	C	C
ATOM	4272	CG2	ILE	C	239	91.128	148.798	-81.432	1.00163.25	C	C
ATOM	4273	CG1	ILE	C	239	90.361	149.703	-83.643	1.00163.25	C	C
ATOM	4274	CD1	ILE	C	239	89.338	150.654	-83.062	1.00163.25	C	C
ATOM	4275	C	ILE	C	239	93.493	150.505	-81.538	1.00163.25	C	C
ATOM	4276	O	ILE	C	239	93.425	150.708	-80.326	1.00163.25	C	O
ATOM	4277	N	PHE	C	240	94.586	150.042	-82.135	1.00 70.90	C	N
ATOM	4278	CA	PHE	C	240	95.798	149.733	-81.385	1.00 70.90	C	C
ATOM	4279	CB	PHE	C	240	96.836	149.069	-82.293	1.00 70.90	C	C
ATOM	4280	CG	PHE	C	240	96.376	147.770	-82.892	1.00 70.90	C	C
ATOM	4281	CD1	PHE	C	240	95.366	147.034	-82.294	1.00 70.90	C	C
ATOM	4282	CD2	PHE	C	240	96.952	147.286	-84.055	1.00 70.90	C	C
ATOM	4283	CE1	PHE	C	240	94.941	145.839	-82.843	1.00 70.90	C	C
ATOM	4284	CE2	PHE	C	240	96.531	146.091	-84.609	1.00 70.90	C	C
ATOM	4285	CZ	PHE	C	240	95.524	145.367	-84.002	1.00 70.90	C	C
ATOM	4286	C	PHE	C	240	96.385	150.986	-80.743	1.00 70.90	C	C
ATOM	4287	O	PHE	C	240	96.926	150.934	-79.639	1.00 70.90	C	O
ATOM	4288	N	THR	C	241	96.275	152.111	-81.443	1.00101.68	C	N
ATOM	4289	CA	THR	C	241	96.793	153.379	-80.943	1.00101.68	C	C
ATOM	4290	CB	THR	C	241	96.812	154.456	-82.043	1.00101.68	C	C
ATOM	4291	OG1	THR	C	241	97.667	154.035	-83.113	1.00101.68	C	O
ATOM	4292	CG2	THR	C	241	97.318	155.778	-81.487	1.00101.68	C	C
ATOM	4293	C	THR	C	241	95.971	153.883	-79.762	1.00101.68	C	C
ATOM	4294	O	THR	C	241	96.523	154.332	-78.757	1.00101.68	C	O
ATOM	4295	N	VAL	C	242	94.650	153.804	-79.889	1.00 32.84	C	N
ATOM	4296	CA	VAL	C	242	93.750	154.241	-78.828	1.00 32.84	C	C
ATOM	4297	CB	VAL	C	242	92.273	154.058	-79.226	1.00 32.84	C	C
ATOM	4298	CG1	VAL	C	242	91.362	154.410	-78.060	1.00 32.84	C	C
ATOM	4299	CG2	VAL	C	242	91.944	154.910	-80.442	1.00 32.84	C	C
ATOM	4300	C	VAL	C	242	94.022	153.481	-77.534	1.00 32.84	C	C
ATOM	4301	O	VAL	C	242	94.043	154.066	-76.451	1.00 32.84	C	O
ATOM	4302	N	GLU	C	243	94.234	152.174	-77.654	1.00 57.64	C	N
ATOM	4303	CA	GLU	C	243	94.531	151.339	-76.496	1.00 57.64	C	C
ATOM	4304	CB	GLU	C	243	94.660	149.872	-76.912	1.00 57.64	C	C
ATOM	4305	CG	GLU	C	243	93.401	149.288	-77.530	1.00 57.64	C	C
ATOM	4306	CD	GLU	C	243	93.574	147.842	-77.948	1.00 57.64	C	C
ATOM	4307	OE1	GLU	C	243	92.651	147.291	-78.584	1.00 57.64	C	O
ATOM	4308	OE2	GLU	C	243	94.632	147.255	-77.639	1.00 57.64	C	O
ATOM	4309	C	GLU	C	243	95.810	151.801	-75.807	1.00 57.64	C	C
ATOM	4310	O	GLU	C	243	95.906	151.789	-74.580	1.00 57.64	C	O
ATOM	4311	N	TYR	C	244	96.790	152.207	-76.607	1.00 53.95	C	N
ATOM	4312	CA	TYR	C	244	98.061	152.688	-76.080	1.00 53.95	C	C
ATOM	4313	CB	TYR	C	244	99.087	152.835	-77.206	1.00 53.95	C	C
ATOM	4314	CG	TYR	C	244	100.379	153.492	-76.776	1.00 53.95	C	C
ATOM	4315	CD1	TYR	C	244	101.386	152.756	-76.166	1.00 53.95	C	C
ATOM	4316	CD2	TYR	C	244	100.594	154.848	-76.984	1.00 53.95	C	C
ATOM	4317	CE1	TYR	C	244	102.568	153.353	-75.772	1.00 53.95	C	C
ATOM	4318	CE2	TYR	C	244	101.773	155.453	-76.593	1.00 53.95	C	C
ATOM	4319	CZ	TYR	C	244	102.757	154.701	-75.989	1.00 53.95	C	C
ATOM	4320	OH	TYR	C	244	103.933	155.299	-75.598	1.00 53.95	C	O
ATOM	4321	C	TYR	C	244	97.893	154.015	-75.348	1.00 53.95	C	C
ATOM	4322	O	TYR	C	244	98.504	154.241	-74.304	1.00 53.95	C	O

ATOM	4323	N	LEU	C	245	97.059	154.890	-75.902	1.00	44.50	C	N
ATOM	4324	CA	LEU	C	245	96.828	156.206	-75.317	1.00	44.50	C	C
ATOM	4325	CB	LEU	C	245	96.116	157.119	-76.318	1.00	44.50	C	C
ATOM	4326	CG	LEU	C	245	96.856	157.394	-77.628	1.00	44.50	C	C
ATOM	4327	CD1	LEU	C	245	96.004	158.243	-78.558	1.00	44.50	C	C
ATOM	4328	CD2	LEU	C	245	98.195	158.065	-77.359	1.00	44.50	C	C
ATOM	4329	C	LEU	C	245	96.023	156.115	-74.024	1.00	44.50	C	C
ATOM	4330	O	LEU	C	245	96.289	156.839	-73.064	1.00	44.50	C	O
ATOM	4331	N	LEU	C	246	95.038	155.224	-74.006	1.00	93.07	C	N
ATOM	4332	CA	LEU	C	246	94.181	155.053	-72.838	1.00	93.07	C	C
ATOM	4333	CB	LEU	C	246	92.960	154.198	-73.184	1.00	93.07	C	C
ATOM	4334	CG	LEU	C	246	91.985	154.793	-74.202	1.00	93.07	C	C
ATOM	4335	CD1	LEU	C	246	90.855	153.819	-74.498	1.00	93.07	C	C
ATOM	4336	CD2	LEU	C	246	91.435	156.122	-73.705	1.00	93.07	C	C
ATOM	4337	C	LEU	C	246	94.939	154.439	-71.666	1.00	93.07	C	C
ATOM	4338	O	LEU	C	246	94.899	154.960	-70.552	1.00	93.07	C	O
ATOM	4339	N	ARG	C	247	95.629	153.332	-71.921	1.00	110.03	C	N
ATOM	4340	CA	ARG	C	247	96.388	152.649	-70.879	1.00	110.03	C	C
ATOM	4341	CB	ARG	C	247	96.924	151.307	-71.385	1.00	110.03	C	C
ATOM	4342	CG	ARG	C	247	95.846	150.284	-71.707	1.00	110.03	C	C
ATOM	4343	CD	ARG	C	247	96.453	148.910	-71.949	1.00	110.03	C	C
ATOM	4344	NE	ARG	C	247	95.439	147.903	-72.249	1.00	110.03	C	N
ATOM	4345	CZ	ARG	C	247	95.115	147.511	-73.477	1.00	110.03	C	C
ATOM	4346	NH1	ARG	C	247	95.730	148.039	-74.527	1.00	110.03	C	N
ATOM	4347	NH2	ARG	C	247	94.180	146.589	-73.656	1.00	110.03	C	N
ATOM	4348	C	ARG	C	247	97.536	153.512	-70.362	1.00	110.03	C	C
ATOM	4349	O	ARG	C	247	97.988	153.343	-69.230	1.00	110.03	C	O
ATOM	4350	N	LEU	C	248	98.003	154.434	-71.196	1.00	148.40	C	N
ATOM	4351	CA	LEU	C	248	99.096	155.323	-70.820	1.00	148.40	C	C
ATOM	4352	CB	LEU	C	248	99.678	156.010	-72.057	1.00	148.40	C	C
ATOM	4353	CG	LEU	C	248	100.883	156.924	-71.826	1.00	148.40	C	C
ATOM	4354	CD1	LEU	C	248	102.023	156.155	-71.177	1.00	148.40	C	C
ATOM	4355	CD2	LEU	C	248	101.336	157.558	-73.132	1.00	148.40	C	C
ATOM	4356	C	LEU	C	248	98.630	156.368	-69.810	1.00	148.40	C	C
ATOM	4357	O	LEU	C	248	99.418	156.856	-69.000	1.00	148.40	C	O
ATOM	4358	N	ALA	C	249	97.346	156.704	-69.865	1.00	46.03	C	N
ATOM	4359	CA	ALA	C	249	96.775	157.695	-68.961	1.00	46.03	C	C
ATOM	4360	CB	ALA	C	249	95.883	158.660	-69.727	1.00	46.03	C	C
ATOM	4361	C	ALA	C	249	95.996	157.032	-67.830	1.00	46.03	C	C
ATOM	4362	O	ALA	C	249	95.626	157.683	-66.853	1.00	46.03	C	O
ATOM	4363	N	ALA	C	250	95.751	155.733	-67.968	1.00	55.13	C	N
ATOM	4364	CA	ALA	C	250	95.021	154.979	-66.957	1.00	55.13	C	C
ATOM	4365	CB	ALA	C	250	94.081	153.980	-67.614	1.00	55.13	C	C
ATOM	4366	C	ALA	C	250	95.977	154.267	-66.007	1.00	55.13	C	C
ATOM	4367	O	ALA	C	250	95.583	153.828	-64.927	1.00	55.13	C	O
ATOM	4368	N	ALA	C	251	97.237	154.155	-66.418	1.00	67.05	C	N
ATOM	4369	CA	ALA	C	251	98.252	153.501	-65.602	1.00	67.05	C	C
ATOM	4370	CB	ALA	C	251	99.484	153.188	-66.437	1.00	67.05	C	C
ATOM	4371	C	ALA	C	251	98.628	154.359	-64.398	1.00	67.05	C	C
ATOM	4372	O	ALA	C	251	99.051	155.504	-64.555	1.00	67.05	C	O
ATOM	4373	N	PRO	C	252	98.470	153.802	-63.189	1.00	163.88	C	N
ATOM	4374	CA	PRO	C	252	98.798	154.495	-61.939	1.00	163.88	C	C
ATOM	4375	CD	PRO	C	252	97.923	152.455	-62.947	1.00	163.88	C	C
ATOM	4376	CB	PRO	C	252	98.607	153.406	-60.880	1.00	163.88	C	C
ATOM	4377	CG	PRO	C	252	97.615	152.473	-61.479	1.00	163.88	C	C
ATOM	4378	C	PRO	C	252	100.241	154.989	-61.926	1.00	163.88	C	C
ATOM	4379	O	PRO	C	252	100.550	155.973	-61.254	1.00	163.88	C	O
ATOM	4380	N	SER	C	253	101.111	154.308	-62.665	1.00	124.25	C	N
ATOM	4381	CA	SER	C	253	102.518	154.686	-62.735	1.00	124.25	C	C
ATOM	4382	CB	SER	C	253	103.400	153.572	-62.165	1.00	124.25	C	C
ATOM	4383	OG	SER	C	253	104.771	153.925	-62.226	1.00	124.25	C	O
ATOM	4384	C	SER	C	253	102.934	155.002	-64.167	1.00	124.25	C	C
ATOM	4385	O	SER	C	253	102.551	154.301	-65.104	1.00	124.25	C	O
ATOM	4386	N	ARG	C	254	103.721	156.061	-64.330	1.00	172.72	C	N
ATOM	4387	CA	ARG	C	254	104.195	156.469	-65.647	1.00	172.72	C	C
ATOM	4388	CB	ARG	C	254	104.000	157.973	-65.845	1.00	172.72	C	C
ATOM	4389	CG	ARG	C	254	102.547	158.419	-65.825	1.00	172.72	C	C
ATOM	4390	CD	ARG	C	254	101.758	157.768	-66.948	1.00	172.72	C	C

ATOM	4391	NE	ARG	C	254	102.302	158.100	-68.262	1.00172.72	C	N
ATOM	4392	CZ	ARG	C	254	101.926	159.152	-68.982	1.00172.72	C	C
ATOM	4393	NH1	ARG	C	254	101.001	159.980	-68.517	1.00172.72	C	N
ATOM	4394	NH2	ARG	C	254	102.476	159.377	-70.168	1.00172.72	C	N
ATOM	4395	C	ARG	C	254	105.661	156.100	-65.846	1.00172.72	C	C
ATOM	4396	O	ARG	C	254	106.223	156.314	-66.920	1.00172.72	C	O
ATOM	4397	N	TYR	C	255	106.275	155.548	-64.805	1.00 99.39	C	N
ATOM	4398	CA	TYR	C	255	107.675	155.146	-64.870	1.00 99.39	C	C
ATOM	4399	CB	TYR	C	255	108.420	155.587	-63.607	1.00 99.39	C	C
ATOM	4400	CG	TYR	C	255	109.913	155.349	-63.660	1.00 99.39	C	C
ATOM	4401	CD1	TYR	C	255	110.766	156.290	-64.221	1.00 99.39	C	C
ATOM	4402	CD2	TYR	C	255	110.469	154.186	-63.146	1.00 99.39	C	C
ATOM	4403	CE1	TYR	C	255	112.130	156.078	-64.271	1.00 99.39	C	C
ATOM	4404	CE2	TYR	C	255	111.832	153.965	-63.191	1.00 99.39	C	C
ATOM	4405	CZ	TYR	C	255	112.658	154.914	-63.754	1.00 99.39	C	C
ATOM	4406	OH	TYR	C	255	114.016	154.699	-63.802	1.00 99.39	C	O
ATOM	4407	C	TYR	C	255	107.801	153.638	-65.058	1.00 99.39	C	C
ATOM	4408	O	TYR	C	255	108.798	153.149	-65.590	1.00 99.39	C	O
ATOM	4409	N	ARG	C	256	106.782	152.906	-64.621	1.00167.77	C	N
ATOM	4410	CA	ARG	C	256	106.767	151.454	-64.754	1.00167.77	C	C
ATOM	4411	CB	ARG	C	256	106.096	150.812	-63.539	1.00167.77	C	C
ATOM	4412	CG	ARG	C	256	106.813	151.067	-62.223	1.00167.77	C	C
ATOM	4413	CD	ARG	C	256	106.070	150.430	-61.060	1.00167.77	C	C
ATOM	4414	NE	ARG	C	256	105.877	148.996	-61.255	1.00167.77	C	N
ATOM	4415	CZ	ARG	C	256	106.734	148.064	-60.849	1.00167.77	C	C
ATOM	4416	NH1	ARG	C	256	107.850	148.414	-60.223	1.00167.77	C	N
ATOM	4417	NH2	ARG	C	256	106.477	146.782	-61.069	1.00167.77	C	N
ATOM	4418	C	ARG	C	256	106.053	151.025	-66.032	1.00167.77	C	C
ATOM	4419	O	ARG	C	256	105.861	149.835	-66.278	1.00167.77	C	O
ATOM	4420	N	PHE	C	257	105.661	152.005	-66.840	1.00 86.55	C	N
ATOM	4421	CA	PHE	C	257	104.958	151.733	-68.089	1.00 86.55	C	C
ATOM	4422	CB	PHE	C	257	104.268	153.000	-68.601	1.00 86.55	C	C
ATOM	4423	CG	PHE	C	257	103.546	152.811	-69.905	1.00 86.55	C	C
ATOM	4424	CD1	PHE	C	257	102.246	152.335	-69.929	1.00 86.55	C	C
ATOM	4425	CD2	PHE	C	257	104.167	153.113	-71.106	1.00 86.55	C	C
ATOM	4426	CE1	PHE	C	257	101.578	152.162	-71.128	1.00 86.55	C	C
ATOM	4427	CE2	PHE	C	257	103.505	152.942	-72.307	1.00 86.55	C	C
ATOM	4428	CZ	PHE	C	257	102.209	152.466	-72.318	1.00 86.55	C	C
ATOM	4429	C	PHE	C	257	105.903	151.185	-69.152	1.00 86.55	C	C
ATOM	4430	O	PHE	C	257	105.609	150.181	-69.799	1.00 86.55	C	O
ATOM	4431	N	VAL	C	258	107.041	151.850	-69.325	1.00126.69	C	N
ATOM	4432	CA	VAL	C	258	108.021	151.444	-70.325	1.00126.69	C	C
ATOM	4433	CB	VAL	C	258	109.003	152.584	-70.647	1.00126.69	C	C
ATOM	4434	CG1	VAL	C	258	108.263	153.767	-71.253	1.00126.69	C	C
ATOM	4435	CG2	VAL	C	258	109.758	153.003	-69.394	1.00126.69	C	C
ATOM	4436	C	VAL	C	258	108.811	150.219	-69.874	1.00126.69	C	C
ATOM	4437	O	VAL	C	258	109.659	149.712	-70.608	1.00126.69	C	O
ATOM	4438	N	ARG	C	259	108.527	149.747	-68.664	1.00166.93	C	N
ATOM	4439	CA	ARG	C	259	109.214	148.583	-68.118	1.00166.93	C	C
ATOM	4440	CB	ARG	C	259	109.356	148.706	-66.600	1.00166.93	C	C
ATOM	4441	CG	ARG	C	259	110.122	147.562	-65.954	1.00166.93	C	C
ATOM	4442	CD	ARG	C	259	110.212	147.738	-64.448	1.00166.93	C	C
ATOM	4443	NE	ARG	C	259	110.993	146.675	-63.820	1.00166.93	C	N
ATOM	4444	CZ	ARG	C	259	110.481	145.528	-63.387	1.00166.93	C	C
ATOM	4445	NH1	ARG	C	259	109.182	145.289	-63.512	1.00166.93	C	N
ATOM	4446	NH2	ARG	C	259	111.267	144.618	-62.828	1.00166.93	C	N
ATOM	4447	C	ARG	C	259	108.484	147.291	-68.473	1.00166.93	C	C
ATOM	4448	O	ARG	C	259	109.110	146.250	-68.677	1.00166.93	C	O
ATOM	4449	N	SER	C	260	107.159	147.364	-68.543	1.00 90.97	C	N
ATOM	4450	CA	SER	C	260	106.344	146.199	-68.866	1.00 90.97	C	C
ATOM	4451	CB	SER	C	260	104.856	146.530	-68.727	1.00 90.97	C	C
ATOM	4452	OG	SER	C	260	104.544	146.933	-67.405	1.00 90.97	C	O
ATOM	4453	C	SER	C	260	106.639	145.688	-70.272	1.00 90.97	C	C
ATOM	4454	O	SER	C	260	106.957	146.466	-71.171	1.00 90.97	C	O
ATOM	4455	N	VAL	C	261	106.533	144.376	-70.455	1.00 94.76	C	N
ATOM	4456	CA	VAL	C	261	106.797	143.759	-71.750	1.00 94.76	C	C
ATOM	4457	CB	VAL	C	261	107.270	142.300	-71.596	1.00 94.76	C	C
ATOM	4458	CG1	VAL	C	261	108.610	142.249	-70.879	1.00 94.76	C	C

ATOM	4459	CG2	VAL	C	261	106.228	141.477	-70.853	1.00	94.76	C	C
ATOM	4460	C	VAL	C	261	105.564	143.794	-72.647	1.00	94.76	C	C
ATOM	4461	O	VAL	C	261	105.675	143.748	-73.872	1.00	94.76	C	O
ATOM	4462	N	MET	C	262	104.389	143.875	-72.031	1.00	60.02	C	N
ATOM	4463	CA	MET	C	262	103.136	143.920	-72.775	1.00	60.02	C	C
ATOM	4464	CB	MET	C	262	101.951	143.629	-71.852	1.00	60.02	C	C
ATOM	4465	CG	MET	C	262	101.979	142.245	-71.225	1.00	60.02	C	C
ATOM	4466	SD	MET	C	262	101.979	140.927	-72.455	1.00	60.02	C	S
ATOM	4467	CE	MET	C	262	101.996	139.479	-71.402	1.00	60.02	C	C
ATOM	4468	C	MET	C	262	102.951	145.272	-73.457	1.00	60.02	C	C
ATOM	4469	O	MET	C	262	102.392	145.355	-74.551	1.00	60.02	C	O
ATOM	4470	N	SER	C	263	103.426	146.327	-72.804	1.00	83.90	C	N
ATOM	4471	CA	SER	C	263	103.320	147.676	-73.346	1.00	83.90	C	C
ATOM	4472	CB	SER	C	263	103.695	148.709	-72.282	1.00	83.90	C	C
ATOM	4473	OG	SER	C	263	105.033	148.530	-71.851	1.00	83.90	C	O
ATOM	4474	C	SER	C	263	104.208	147.847	-74.574	1.00	83.90	C	C
ATOM	4475	O	SER	C	263	103.820	148.492	-75.547	1.00	83.90	C	O
ATOM	4476	N	ILE	C	264	105.402	147.265	-74.518	1.00	88.68	C	N
ATOM	4477	CA	ILE	C	264	106.348	147.345	-75.625	1.00	88.68	C	C
ATOM	4478	CB	ILE	C	264	107.663	146.614	-75.296	1.00	88.68	C	C
ATOM	4479	CG2	ILE	C	264	108.640	146.720	-76.458	1.00	88.68	C	C
ATOM	4480	CG1	ILE	C	264	108.283	147.180	-74.017	1.00	88.68	C	C
ATOM	4481	CD1	ILE	C	264	108.624	148.652	-74.103	1.00	88.68	C	C
ATOM	4482	C	ILE	C	264	105.754	146.754	-76.899	1.00	88.68	C	C
ATOM	4483	O	ILE	C	264	105.908	147.313	-77.985	1.00	88.68	C	O
ATOM	4484	N	ILE	C	265	105.074	145.620	-76.757	1.00	113.98	C	N
ATOM	4485	CA	ILE	C	265	104.443	144.957	-77.892	1.00	113.98	C	C
ATOM	4486	CB	ILE	C	265	103.797	143.621	-77.475	1.00	113.98	C	C
ATOM	4487	CG2	ILE	C	265	103.161	142.938	-78.676	1.00	113.98	C	C
ATOM	4488	CG1	ILE	C	265	104.837	142.708	-76.823	1.00	113.98	C	C
ATOM	4489	CD1	ILE	C	265	104.285	141.370	-76.383	1.00	113.98	C	C
ATOM	4490	C	ILE	C	265	103.382	145.852	-78.524	1.00	113.98	C	C
ATOM	4491	O	ILE	C	265	103.227	145.880	-79.745	1.00	113.98	C	O
ATOM	4492	N	ASP	C	266	102.656	146.583	-77.685	1.00	68.21	C	N
ATOM	4493	CA	ASP	C	266	101.620	147.491	-78.161	1.00	68.21	C	C
ATOM	4494	CB	ASP	C	266	100.778	148.004	-76.991	1.00	68.21	C	C
ATOM	4495	CG	ASP	C	266	100.100	146.884	-76.226	1.00	68.21	C	C
ATOM	4496	OD1	ASP	C	266	99.781	145.848	-76.846	1.00	68.21	C	O
ATOM	4497	OD2	ASP	C	266	99.887	147.039	-75.005	1.00	68.21	C	O
ATOM	4498	C	ASP	C	266	102.229	148.664	-78.923	1.00	68.21	C	C
ATOM	4499	O	ASP	C	266	101.588	149.250	-79.796	1.00	68.21	C	O
ATOM	4500	N	VAL	C	267	103.470	149.001	-78.586	1.00	104.56	C	N
ATOM	4501	CA	VAL	C	267	104.170	150.100	-79.241	1.00	104.56	C	C
ATOM	4502	CB	VAL	C	267	105.358	150.596	-78.394	1.00	104.56	C	C
ATOM	4503	CG1	VAL	C	267	106.111	151.695	-79.128	1.00	104.56	C	C
ATOM	4504	CG2	VAL	C	267	104.873	151.088	-77.039	1.00	104.56	C	C
ATOM	4505	C	VAL	C	267	104.680	149.687	-80.618	1.00	104.56	C	C
ATOM	4506	O	VAL	C	267	104.420	150.362	-81.614	1.00	104.56	C	O
ATOM	4507	N	VAL	C	268	105.402	148.573	-80.666	1.00	100.82	C	N
ATOM	4508	CA	VAL	C	268	105.968	148.073	-81.914	1.00	100.82	C	C
ATOM	4509	CB	VAL	C	268	106.862	146.840	-81.667	1.00	100.82	C	C
ATOM	4510	CG1	VAL	C	268	107.545	146.407	-82.956	1.00	100.82	C	C
ATOM	4511	CG2	VAL	C	268	107.895	147.143	-80.593	1.00	100.82	C	C
ATOM	4512	C	VAL	C	268	104.872	147.713	-82.915	1.00	100.82	C	C
ATOM	4513	O	VAL	C	268	105.124	147.602	-84.114	1.00	100.82	C	O
ATOM	4514	N	ALA	C	269	103.653	147.541	-82.414	1.00	69.40	C	N
ATOM	4515	CA	ALA	C	269	102.526	147.165	-83.259	1.00	69.40	C	C
ATOM	4516	CB	ALA	C	269	101.427	146.525	-82.421	1.00	69.40	C	C
ATOM	4517	C	ALA	C	269	101.974	148.353	-84.045	1.00	69.40	C	C
ATOM	4518	O	ALA	C	269	101.075	148.194	-84.870	1.00	69.40	C	O
ATOM	4519	N	ILE	C	270	102.514	149.540	-83.787	1.00	105.76	C	N
ATOM	4520	CA	ILE	C	270	102.052	150.749	-84.462	1.00	105.76	C	C
ATOM	4521	CB	ILE	C	270	101.166	151.612	-83.539	1.00	105.76	C	C
ATOM	4522	CG2	ILE	C	270	99.946	150.827	-83.081	1.00	105.76	C	C
ATOM	4523	CG1	ILE	C	270	101.972	152.112	-82.339	1.00	105.76	C	C
ATOM	4524	CD1	ILE	C	270	101.169	152.954	-81.372	1.00	105.76	C	C
ATOM	4525	C	ILE	C	270	103.206	151.604	-84.980	1.00	105.76	C	C
ATOM	4526	O	ILE	C	270	102.992	152.562	-85.723	1.00	105.76	C	O

ATOM	4527	N	LEU	C	271	104.427	151.254	-84.587	1.00	71.73	C	N
ATOM	4528	CA	LEU	C	271	105.609	152.005	-85.005	1.00	71.73	C	C
ATOM	4529	CB	LEU	C	271	106.864	151.496	-84.288	1.00	71.73	C	C
ATOM	4530	CG	LEU	C	271	106.937	151.734	-82.779	1.00	71.73	C	C
ATOM	4531	CD1	LEU	C	271	108.206	151.126	-82.201	1.00	71.73	C	C
ATOM	4532	CD2	LEU	C	271	106.859	153.220	-82.467	1.00	71.73	C	C
ATOM	4533	C	LEU	C	271	105.819	151.998	-86.522	1.00	71.73	C	C
ATOM	4534	O	LEU	C	271	105.976	153.058	-87.128	1.00	71.73	C	O
ATOM	4535	N	PRO	C	272	105.825	150.805	-87.140	1.00	85.42	C	N
ATOM	4536	CA	PRO	C	272	106.049	150.716	-88.588	1.00	85.42	C	C
ATOM	4537	CD	PRO	C	272	105.668	149.473	-86.528	1.00	85.42	C	C
ATOM	4538	CB	PRO	C	272	105.851	149.226	-88.878	1.00	85.42	C	C
ATOM	4539	CG	PRO	C	272	106.172	148.549	-87.595	1.00	85.42	C	C
ATOM	4540	C	PRO	C	272	105.044	151.540	-89.388	1.00	85.42	C	C
ATOM	4541	O	PRO	C	272	105.327	151.915	-90.526	1.00	85.42	C	O
ATOM	4542	N	TYR	C	273	103.886	151.815	-88.797	1.00	80.36	C	N
ATOM	4543	CA	TYR	C	273	102.844	152.576	-89.476	1.00	80.36	C	C
ATOM	4544	CB	TYR	C	273	101.509	152.435	-88.740	1.00	80.36	C	C
ATOM	4545	CG	TYR	C	273	100.363	153.161	-89.407	1.00	80.36	C	C
ATOM	4546	CD1	TYR	C	273	99.624	152.556	-90.414	1.00	80.36	C	C
ATOM	4547	CD2	TYR	C	273	100.019	154.452	-89.028	1.00	80.36	C	C
ATOM	4548	CE1	TYR	C	273	98.575	153.216	-91.026	1.00	80.36	C	C
ATOM	4549	CE2	TYR	C	273	98.972	155.120	-89.634	1.00	80.36	C	C
ATOM	4550	CZ	TYR	C	273	98.253	154.498	-90.632	1.00	80.36	C	C
ATOM	4551	OH	TYR	C	273	97.210	155.158	-91.239	1.00	80.36	C	O
ATOM	4552	C	TYR	C	273	103.218	154.050	-89.604	1.00	80.36	C	C
ATOM	4553	O	TYR	C	273	103.237	154.602	-90.704	1.00	80.36	C	O
ATOM	4554	N	TYR	C	274	103.514	154.682	-88.473	1.00	58.29	C	N
ATOM	4555	CA	TYR	C	274	103.863	156.098	-88.455	1.00	58.29	C	C
ATOM	4556	CB	TYR	C	274	103.858	156.633	-87.022	1.00	58.29	C	C
ATOM	4557	CG	TYR	C	274	102.498	156.598	-86.363	1.00	58.29	C	C
ATOM	4558	CD1	TYR	C	274	102.094	155.501	-85.614	1.00	58.29	C	C
ATOM	4559	CD2	TYR	C	274	101.615	157.662	-86.494	1.00	58.29	C	C
ATOM	4560	CE1	TYR	C	274	100.851	155.465	-85.012	1.00	58.29	C	C
ATOM	4561	CE2	TYR	C	274	100.370	157.635	-85.896	1.00	58.29	C	C
ATOM	4562	CZ	TYR	C	274	99.993	156.534	-85.156	1.00	58.29	C	C
ATOM	4563	OH	TYR	C	274	98.754	156.504	-84.559	1.00	58.29	C	O
ATOM	4564	C	TYR	C	274	105.217	156.356	-89.108	1.00	58.29	C	C
ATOM	4565	O	TYR	C	274	105.373	157.303	-89.879	1.00	58.29	C	O
ATOM	4566	N	ILE	C	275	106.192	155.509	-88.796	1.00	98.26	C	N
ATOM	4567	CA	ILE	C	275	107.535	155.651	-89.346	1.00	98.26	C	C
ATOM	4568	CB	ILE	C	275	108.497	154.594	-88.768	1.00	98.26	C	C
ATOM	4569	CG2	ILE	C	275	109.874	154.723	-89.400	1.00	98.26	C	C
ATOM	4570	CG1	ILE	C	275	108.592	154.734	-87.247	1.00	98.26	C	C
ATOM	4571	CD1	ILE	C	275	109.507	153.720	-86.597	1.00	98.26	C	C
ATOM	4572	C	ILE	C	275	107.529	155.546	-90.868	1.00	98.26	C	C
ATOM	4573	O	ILE	C	275	108.214	156.305	-91.555	1.00	98.26	C	O
ATOM	4574	N	GLY	C	276	106.750	154.605	-91.390	1.00	33.27	C	N
ATOM	4575	CA	GLY	C	276	106.661	154.397	-92.823	1.00	33.27	C	C
ATOM	4576	C	GLY	C	276	106.044	155.574	-93.553	1.00	33.27	C	C
ATOM	4577	O	GLY	C	276	106.501	155.957	-94.630	1.00	33.27	C	O
ATOM	4578	N	LEU	C	277	105.002	156.151	-92.964	1.00	135.89	C	N
ATOM	4579	CA	LEU	C	277	104.304	157.279	-93.573	1.00	135.89	C	C
ATOM	4580	CB	LEU	C	277	103.042	157.620	-92.779	1.00	135.89	C	C
ATOM	4581	CG	LEU	C	277	102.211	158.794	-93.302	1.00	135.89	C	C
ATOM	4582	CD1	LEU	C	277	101.805	158.563	-94.750	1.00	135.89	C	C
ATOM	4583	CD2	LEU	C	277	100.988	159.017	-92.427	1.00	135.89	C	C
ATOM	4584	C	LEU	C	277	105.205	158.505	-93.677	1.00	135.89	C	C
ATOM	4585	O	LEU	C	277	105.163	159.235	-94.667	1.00	135.89	C	O
ATOM	4586	N	VAL	C	278	106.018	158.727	-92.649	1.00	91.77	C	N
ATOM	4587	CA	VAL	C	278	106.915	159.875	-92.617	1.00	91.77	C	C
ATOM	4588	CB	VAL	C	278	107.463	160.123	-91.199	1.00	91.77	C	C
ATOM	4589	CG1	VAL	C	278	108.437	161.292	-91.203	1.00	91.77	C	C
ATOM	4590	CG2	VAL	C	278	106.323	160.376	-90.226	1.00	91.77	C	C
ATOM	4591	C	VAL	C	278	108.084	159.697	-93.581	1.00	91.77	C	C
ATOM	4592	O	VAL	C	278	108.455	160.625	-94.300	1.00	91.77	C	O
ATOM	4593	N	MET	C	279	108.658	158.499	-93.592	1.00	131.98	C	N
ATOM	4594	CA	MET	C	279	109.807	158.207	-94.443	1.00	131.98	C	C

ATOM	4595	CB	MET	C	279	110.361	156.813	-94.140	1.00	131.98	C	C
ATOM	4596	CG	MET	C	279	111.589	156.445	-94.957	1.00	131.98	C	C
ATOM	4597	SD	MET	C	279	112.250	154.822	-94.535	1.00	131.98	C	S
ATOM	4598	CE	MET	C	279	112.675	155.064	-92.812	1.00	131.98	C	C
ATOM	4599	C	MET	C	279	109.460	158.326	-95.924	1.00	131.98	C	C
ATOM	4600	O	MET	C	279	110.182	158.964	-96.690	1.00	131.98	C	O
ATOM	4601	N	THR	C	280	108.351	157.709	-96.322	1.00	57.64	C	N
ATOM	4602	CA	THR	C	280	107.917	157.739	-97.715	1.00	57.64	C	C
ATOM	4603	CB	THR	C	280	106.720	156.800	-97.957	1.00	57.64	C	C
ATOM	4604	OG1	THR	C	280	105.632	157.179	-97.106	1.00	57.64	C	O
ATOM	4605	CG2	THR	C	280	107.107	155.358	-97.667	1.00	57.64	C	C
ATOM	4606	C	THR	C	280	107.542	159.150	-98.155	1.00	57.64	C	C
ATOM	4607	O	THR	C	280	107.532	159.455	-99.348	1.00	57.64	C	O
ATOM	4608	N	ASP	C	281	107.232	160.006	-97.187	1.00	89.40	C	N
ATOM	4609	CA	ASP	C	281	106.865	161.387	-97.475	1.00	89.40	C	C
ATOM	4610	CB	ASP	C	281	106.072	161.983	-96.309	1.00	89.40	C	C
ATOM	4611	CG	ASP	C	281	105.428	163.312	-96.657	1.00	89.40	C	C
ATOM	4612	OD1	ASP	C	281	105.988	164.052	-97.493	1.00	89.40	C	O
ATOM	4613	OD2	ASP	C	281	104.357	163.618	-96.092	1.00	89.40	C	O
ATOM	4614	C	ASP	C	281	108.109	162.225	-97.749	1.00	89.40	C	C
ATOM	4615	O	ASP	C	281	108.164	162.973	-98.725	1.00	89.40	C	O
ATOM	4616	N	ASN	C	282	109.106	162.092	-96.881	1.00	77.30	C	N
ATOM	4617	CA	ASN	C	282	110.349	162.843	-97.018	1.00	77.30	C	C
ATOM	4618	CB	ASN	C	282	111.245	162.621	-95.798	1.00	77.30	C	C
ATOM	4619	CG	ASN	C	282	110.595	163.079	-94.506	1.00	77.30	C	C
ATOM	4620	OD1	ASN	C	282	109.790	164.010	-94.499	1.00	77.30	C	O
ATOM	4621	ND2	ASN	C	282	110.943	162.424	-93.405	1.00	77.30	C	N
ATOM	4622	C	ASN	C	282	111.106	162.491	-98.295	1.00	77.30	C	C
ATOM	4623	O	ASN	C	282	111.332	163.348	-99.150	1.00	77.30	C	O
ATOM	4624	N	GLU	C	283	111.496	161.226	-98.418	1.00	247.84	C	N
ATOM	4625	CA	GLU	C	283	112.239	160.765	-99.584	1.00	247.84	C	C
ATOM	4626	CB	GLU	C	283	113.730	160.649	-99.256	1.00	247.84	C	C
ATOM	4627	CG	GLU	C	283	114.603	160.211	-100.424	1.00	247.84	C	C
ATOM	4628	CD	GLU	C	283	114.699	161.257	-101.521	1.00	247.84	C	C
ATOM	4629	OE1	GLU	C	283	113.657	161.829	-101.903	1.00	247.84	C	O
ATOM	4630	OE2	GLU	C	283	115.824	161.509	-102.002	1.00	247.84	C	O
ATOM	4631	C	GLU	C	283	111.705	159.430	-100.094	1.00	247.84	C	C
ATOM	4632	O	GLU	C	283	111.280	158.580	-99.311	1.00	247.84	C	O
ATOM	4633	N	ASP	C	284	111.730	159.253	-101.411	1.00	243.54	C	N
ATOM	4634	CA	ASP	C	284	111.223	158.035	-102.034	1.00	243.54	C	C
ATOM	4635	CB	ASP	C	284	110.432	158.368	-103.303	1.00	243.54	C	C
ATOM	4636	CG	ASP	C	284	111.263	159.111	-104.335	1.00	243.54	C	C
ATOM	4637	OD1	ASP	C	284	112.179	159.864	-103.942	1.00	243.54	C	O
ATOM	4638	OD2	ASP	C	284	110.998	158.941	-105.544	1.00	243.54	C	O
ATOM	4639	C	ASP	C	284	112.340	157.042	-102.347	1.00	243.54	C	C
ATOM	4640	O	ASP	C	284	112.689	156.829	-103.508	1.00	243.54	C	O
ATOM	4641	N	VAL	C	285	112.896	156.434	-101.304	1.00	154.00	C	N
ATOM	4642	CA	VAL	C	285	113.945	155.434	-101.468	1.00	154.00	C	C
ATOM	4643	CB	VAL	C	285	115.185	155.766	-100.617	1.00	154.00	C	C
ATOM	4644	CG1	VAL	C	285	115.868	157.021	-101.139	1.00	154.00	C	C
ATOM	4645	CG2	VAL	C	285	114.798	155.925	-99.154	1.00	154.00	C	C
ATOM	4646	C	VAL	C	285	113.440	154.044	-101.097	1.00	154.00	C	C
ATOM	4647	O	VAL	C	285	112.249	153.851	-100.853	1.00	154.00	C	O
ATOM	4648	N	SER	C	286	114.353	153.079	-101.055	1.00	204.33	C	N
ATOM	4649	CA	SER	C	286	114.000	151.705	-100.719	1.00	204.33	C	C
ATOM	4650	CB	SER	C	286	113.699	150.905	-101.988	1.00	204.33	C	C
ATOM	4651	OG	SER	C	286	112.632	151.486	-102.717	1.00	204.33	C	O
ATOM	4652	C	SER	C	286	115.110	151.026	-99.923	1.00	204.33	C	C
ATOM	4653	O	SER	C	286	116.293	151.208	-100.210	1.00	204.33	C	O
ATOM	4654	N	GLY	C	287	114.719	150.244	-98.922	1.00	74.32	C	N
ATOM	4655	CA	GLY	C	287	115.676	149.528	-98.099	1.00	74.32	C	C
ATOM	4656	C	GLY	C	287	115.466	149.753	-96.614	1.00	74.32	C	C
ATOM	4657	O	GLY	C	287	115.593	148.827	-95.813	1.00	74.32	C	O
ATOM	4658	N	ALA	C	288	115.142	150.988	-96.246	1.00	54.17	C	N
ATOM	4659	CA	ALA	C	288	114.940	151.341	-94.845	1.00	54.17	C	C
ATOM	4660	CB	ALA	C	288	115.169	152.830	-94.636	1.00	54.17	C	C
ATOM	4661	C	ALA	C	288	113.552	150.938	-94.356	1.00	54.17	C	C
ATOM	4662	O	ALA	C	288	113.419	150.194	-93.385	1.00	54.17	C	O

ATOM	4663	N	PHE	C	289	112.521	151.433	-95.035	1.00205.64	C	N
ATOM	4664	CA	PHE	C	289	111.141	151.141	-94.657	1.00205.64	C	C
ATOM	4665	CB	PHE	C	289	110.170	152.109	-95.344	1.00205.64	C	C
ATOM	4666	CG	PHE	C	289	110.097	151.947	-96.839	1.00205.64	C	C
ATOM	4667	CD1	PHE	C	289	111.165	151.431	-97.554	1.00205.64	C	C
ATOM	4668	CD2	PHE	C	289	108.954	152.316	-97.528	1.00205.64	C	C
ATOM	4669	CE1	PHE	C	289	111.094	151.285	-98.926	1.00205.64	C	C
ATOM	4670	CE2	PHE	C	289	108.877	152.172	-98.900	1.00205.64	C	C
ATOM	4671	CZ	PHE	C	289	109.948	151.657	-99.600	1.00205.64	C	C
ATOM	4672	C	PHE	C	289	110.756	149.696	-94.963	1.00205.64	C	C
ATOM	4673	O	PHE	C	289	109.658	149.253	-94.625	1.00205.64	C	O
ATOM	4674	N	VAL	C	290	111.664	148.969	-95.605	1.00 43.82	C	N
ATOM	4675	CA	VAL	C	290	111.429	147.568	-95.933	1.00 43.82	C	C
ATOM	4676	CB	VAL	C	290	112.431	147.060	-96.987	1.00 43.82	C	C
ATOM	4677	CG1	VAL	C	290	112.200	145.585	-97.276	1.00 43.82	C	C
ATOM	4678	CG2	VAL	C	290	112.320	147.882	-98.263	1.00 43.82	C	C
ATOM	4679	C	VAL	C	290	111.526	146.699	-94.683	1.00 43.82	C	C
ATOM	4680	O	VAL	C	290	110.780	145.731	-94.527	1.00 43.82	C	O
ATOM	4681	N	THR	C	291	112.448	147.053	-93.794	1.00 50.43	C	N
ATOM	4682	CA	THR	C	291	112.643	146.313	-92.554	1.00 50.43	C	C
ATOM	4683	CB	THR	C	291	113.928	146.756	-91.827	1.00 50.43	C	C
ATOM	4684	OG1	THR	C	291	115.053	146.596	-92.700	1.00 50.43	C	O
ATOM	4685	CG2	THR	C	291	114.144	145.928	-90.570	1.00 50.43	C	C
ATOM	4686	C	THR	C	291	111.450	146.484	-91.617	1.00 50.43	C	C
ATOM	4687	O	THR	C	291	111.041	145.540	-90.941	1.00 50.43	C	O
ATOM	4688	N	LEU	C	292	110.897	147.692	-91.583	1.00 89.67	C	N
ATOM	4689	CA	LEU	C	292	109.746	147.987	-90.736	1.00 89.67	C	C
ATOM	4690	CB	LEU	C	292	109.399	149.478	-90.788	1.00 89.67	C	C
ATOM	4691	CG	LEU	C	292	110.327	150.455	-90.060	1.00 89.67	C	C
ATOM	4692	CD1	LEU	C	292	110.414	150.107	-88.580	1.00 89.67	C	C
ATOM	4693	CD2	LEU	C	292	111.711	150.485	-90.690	1.00 89.67	C	C
ATOM	4694	C	LEU	C	292	108.533	147.154	-91.139	1.00 89.67	C	C
ATOM	4695	O	LEU	C	292	107.660	146.873	-90.318	1.00 89.67	C	O
ATOM	4696	N	ARG	C	293	108.486	146.765	-92.409	1.00153.52	C	N
ATOM	4697	CA	ARG	C	293	107.396	145.943	-92.919	1.00153.52	C	C
ATOM	4698	CB	ARG	C	293	107.545	145.743	-94.430	1.00153.52	C	C
ATOM	4699	CG	ARG	C	293	106.271	145.314	-95.149	1.00153.52	C	C
ATOM	4700	CD	ARG	C	293	105.898	143.874	-94.839	1.00153.52	C	C
ATOM	4701	NE	ARG	C	293	104.697	143.453	-95.554	1.00153.52	C	N
ATOM	4702	CZ	ARG	C	293	104.128	142.260	-95.419	1.00153.52	C	C
ATOM	4703	NH1	ARG	C	293	104.650	141.366	-94.591	1.00153.52	C	N
ATOM	4704	NH2	ARG	C	293	103.037	141.961	-96.110	1.00153.52	C	N
ATOM	4705	C	ARG	C	293	107.384	144.598	-92.199	1.00153.52	C	C
ATOM	4706	O	ARG	C	293	106.326	144.092	-91.824	1.00153.52	C	O
ATOM	4707	N	VAL	C	294	108.569	144.028	-92.006	1.00148.57	C	N
ATOM	4708	CA	VAL	C	294	108.705	142.752	-91.314	1.00148.57	C	C
ATOM	4709	CB	VAL	C	294	110.157	142.240	-91.362	1.00148.57	C	C
ATOM	4710	CG1	VAL	C	294	110.272	140.899	-90.656	1.00148.57	C	C
ATOM	4711	CG2	VAL	C	294	110.634	142.132	-92.802	1.00148.57	C	C
ATOM	4712	C	VAL	C	294	108.260	142.870	-89.859	1.00148.57	C	C
ATOM	4713	O	VAL	C	294	107.730	141.920	-89.282	1.00148.57	C	O
ATOM	4714	N	PHE	C	295	108.475	144.044	-89.274	1.00171.25	C	N
ATOM	4715	CA	PHE	C	295	108.100	144.289	-87.886	1.00171.25	C	C
ATOM	4716	CB	PHE	C	295	108.725	145.592	-87.382	1.00171.25	C	C
ATOM	4717	CG	PHE	C	295	110.226	145.565	-87.332	1.00171.25	C	C
ATOM	4718	CD1	PHE	C	295	110.910	144.362	-87.300	1.00171.25	C	C
ATOM	4719	CD2	PHE	C	295	110.953	146.744	-87.316	1.00171.25	C	C
ATOM	4720	CE1	PHE	C	295	112.291	144.334	-87.254	1.00171.25	C	C
ATOM	4721	CE2	PHE	C	295	112.334	146.723	-87.270	1.00171.25	C	C
ATOM	4722	CZ	PHE	C	295	113.003	145.516	-87.238	1.00171.25	C	C
ATOM	4723	C	PHE	C	295	106.585	144.333	-87.711	1.00171.25	C	C
ATOM	4724	O	PHE	C	295	106.079	144.281	-86.591	1.00171.25	C	O
ATOM	4725	N	ARG	C	296	105.867	144.429	-88.825	1.00159.61	C	N
ATOM	4726	CA	ARG	C	296	104.409	144.462	-88.794	1.00159.61	C	C
ATOM	4727	CB	ARG	C	296	103.856	144.982	-90.122	1.00159.61	C	C
ATOM	4728	CG	ARG	C	296	104.303	146.392	-90.472	1.00159.61	C	C
ATOM	4729	CD	ARG	C	296	103.745	146.839	-91.814	1.00159.61	C	C
ATOM	4730	NE	ARG	C	296	102.285	146.867	-91.824	1.00159.61	C	N

ATOM	4731	CZ	ARG	C	296	101.520	145.878	-92.275	1.00159.61	C	C
ATOM	4732	NH1	ARG	C	296	102.075	144.775	-92.759	1.00159.61	C	N
ATOM	4733	NH2	ARG	C	296	100.200	145.992	-92.245	1.00159.61	C	N
ATOM	4734	C	ARG	C	296	103.836	143.082	-88.489	1.00159.61	C	C
ATOM	4735	O	ARG	C	296	102.629	142.928	-88.300	1.00159.61	C	O
ATOM	4736	N	VAL	C	297	104.708	142.081	-88.445	1.00167.62	C	N
ATOM	4737	CA	VAL	C	297	104.296	140.716	-88.145	1.00167.62	C	C
ATOM	4738	CB	VAL	C	297	105.240	139.688	-88.801	1.00167.62	C	C
ATOM	4739	CG1	VAL	C	297	104.743	138.271	-88.556	1.00167.62	C	C
ATOM	4740	CG2	VAL	C	297	105.363	139.960	-90.292	1.00167.62	C	C
ATOM	4741	C	VAL	C	297	104.264	140.488	-86.637	1.00167.62	C	C
ATOM	4742	O	VAL	C	297	103.619	139.559	-86.150	1.00167.62	C	O
ATOM	4743	N	PHE	C	298	104.957	141.350	-85.901	1.00121.45	C	N
ATOM	4744	CA	PHE	C	298	105.032	141.234	-84.449	1.00121.45	C	C
ATOM	4745	CB	PHE	C	298	106.169	142.099	-83.899	1.00121.45	C	C
ATOM	4746	CG	PHE	C	298	107.534	141.664	-84.352	1.00121.45	C	C
ATOM	4747	CD1	PHE	C	298	107.747	140.379	-84.821	1.00121.45	C	C
ATOM	4748	CD2	PHE	C	298	108.605	142.541	-84.306	1.00121.45	C	C
ATOM	4749	CE1	PHE	C	298	109.002	139.976	-85.238	1.00121.45	C	C
ATOM	4750	CE2	PHE	C	298	109.862	142.144	-84.721	1.00121.45	C	C
ATOM	4751	CZ	PHE	C	298	110.061	140.860	-85.188	1.00121.45	C	C
ATOM	4752	C	PHE	C	298	103.716	141.605	-83.772	1.00121.45	C	C
ATOM	4753	O	PHE	C	298	103.619	141.606	-82.545	1.00121.45	C	O
ATOM	4754	N	ARG	C	299	102.705	141.920	-84.575	1.00168.10	C	N
ATOM	4755	CA	ARG	C	299	101.389	142.260	-84.047	1.00168.10	C	C
ATOM	4756	CB	ARG	C	299	100.539	142.948	-85.117	1.00168.10	C	C
ATOM	4757	CG	ARG	C	299	100.275	142.093	-86.345	1.00168.10	C	C
ATOM	4758	CD	ARG	C	299	99.450	142.849	-87.375	1.00168.10	C	C
ATOM	4759	NE	ARG	C	299	100.106	144.082	-87.798	1.00168.10	C	N
ATOM	4760	CZ	ARG	C	299	99.622	144.909	-88.719	1.00168.10	C	C
ATOM	4761	NH1	ARG	C	299	98.472	144.635	-89.321	1.00168.10	C	N
ATOM	4762	NH2	ARG	C	299	100.288	146.009	-89.041	1.00168.10	C	N
ATOM	4763	C	ARG	C	299	100.677	141.016	-83.527	1.00168.10	C	C
ATOM	4764	O	ARG	C	299	99.629	141.109	-82.887	1.00168.10	C	O
ATOM	4765	N	ILE	C	300	101.253	139.852	-83.809	1.00203.46	C	N
ATOM	4766	CA	ILE	C	300	100.694	138.585	-83.356	1.00203.46	C	C
ATOM	4767	CB	ILE	C	300	101.215	137.408	-84.201	1.00203.46	C	C
ATOM	4768	CG2	ILE	C	300	100.522	136.114	-83.802	1.00203.46	C	C
ATOM	4769	CG1	ILE	C	300	101.012	137.693	-85.690	1.00203.46	C	C
ATOM	4770	CD1	ILE	C	300	101.537	136.605	-86.597	1.00203.46	C	C
ATOM	4771	C	ILE	C	300	101.034	138.344	-81.889	1.00203.46	C	C
ATOM	4772	O	ILE	C	300	100.342	137.601	-81.193	1.00203.46	C	O
ATOM	4773	N	PHE	C	301	102.103	138.981	-81.424	1.00106.14	C	N
ATOM	4774	CA	PHE	C	301	102.526	138.857	-80.034	1.00106.14	C	C
ATOM	4775	CB	PHE	C	301	103.959	139.365	-79.860	1.00106.14	C	C
ATOM	4776	CG	PHE	C	301	104.986	138.543	-80.585	1.00106.14	C	C
ATOM	4777	CD1	PHE	C	301	104.729	137.223	-80.914	1.00106.14	C	C
ATOM	4778	CD2	PHE	C	301	106.209	139.090	-80.936	1.00106.14	C	C
ATOM	4779	CE1	PHE	C	301	105.671	136.465	-81.580	1.00106.14	C	C
ATOM	4780	CE2	PHE	C	301	107.156	138.336	-81.603	1.00106.14	C	C
ATOM	4781	CZ	PHE	C	301	106.886	137.022	-81.925	1.00106.14	C	C
ATOM	4782	C	PHE	C	301	101.587	139.615	-79.101	1.00106.14	C	C
ATOM	4783	O	PHE	C	301	101.829	139.698	-77.897	1.00106.14	C	O
ATOM	4784	N	LYS	C	302	100.516	140.166	-79.663	1.00168.00	C	N
ATOM	4785	CA	LYS	C	302	99.548	140.926	-78.881	1.00168.00	C	C
ATOM	4786	CB	LYS	C	302	98.800	141.918	-79.775	1.00168.00	C	C
ATOM	4787	CG	LYS	C	302	97.961	142.933	-79.016	1.00168.00	C	C
ATOM	4788	CD	LYS	C	302	97.321	143.938	-79.960	1.00168.00	C	C
ATOM	4789	CE	LYS	C	302	98.369	144.700	-80.754	1.00168.00	C	C
ATOM	4790	NZ	LYS	C	302	99.282	145.475	-79.871	1.00168.00	C	N
ATOM	4791	C	LYS	C	302	98.566	139.993	-78.177	1.00168.00	C	C
ATOM	4792	O	LYS	C	302	97.852	140.404	-77.262	1.00168.00	C	O
ATOM	4793	N	PHE	C	303	98.538	138.736	-78.607	1.00 83.96	C	N
ATOM	4794	CA	PHE	C	303	97.678	137.735	-77.986	1.00 83.96	C	C
ATOM	4795	CB	PHE	C	303	97.570	136.488	-78.867	1.00 83.96	C	C
ATOM	4796	CG	PHE	C	303	96.786	136.701	-80.131	1.00 83.96	C	C
ATOM	4797	CD1	PHE	C	303	95.402	136.683	-80.113	1.00 83.96	C	C
ATOM	4798	CD2	PHE	C	303	97.434	136.909	-81.337	1.00 83.96	C	C

ATOM	4799	CE1	PHE	C	303	94.678	136.876	-81.274	1.00	83.96	C	C
ATOM	4800	CE2	PHE	C	303	96.715	137.101	-82.501	1.00	83.96	C	C
ATOM	4801	CZ	PHE	C	303	95.335	137.085	-82.470	1.00	83.96	C	C
ATOM	4802	C	PHE	C	303	98.195	137.349	-76.604	1.00	83.96	C	C
ATOM	4803	O	PHE	C	303	97.504	136.676	-75.840	1.00	83.96	C	O
ATOM	4804	N	SER	C	304	99.414	137.777	-76.291	1.00	64.30	C	N
ATOM	4805	CA	SER	C	304	100.025	137.476	-75.001	1.00	64.30	C	C
ATOM	4806	CB	SER	C	304	101.483	137.939	-74.978	1.00	64.30	C	C
ATOM	4807	OG	SER	C	304	101.577	139.340	-75.168	1.00	64.30	C	O
ATOM	4808	C	SER	C	304	99.251	138.126	-73.860	1.00	64.30	C	C
ATOM	4809	O	SER	C	304	99.276	137.647	-72.727	1.00	64.30	C	O
ATOM	4810	N	ARG	C	305	98.562	139.220	-74.168	1.00	148.97	C	N
ATOM	4811	CA	ARG	C	305	97.769	139.931	-73.174	1.00	148.97	C	N
ATOM	4812	CB	ARG	C	305	97.585	141.393	-73.585	1.00	148.97	C	C
ATOM	4813	CG	ARG	C	305	96.958	142.271	-72.514	1.00	148.97	C	C
ATOM	4814	CD	ARG	C	305	96.856	143.714	-72.977	1.00	148.97	C	C
ATOM	4815	NE	ARG	C	305	96.319	144.586	-71.936	1.00	148.97	C	N
ATOM	4816	CZ	ARG	C	305	97.064	145.221	-71.037	1.00	148.97	C	N
ATOM	4817	NH1	ARG	C	305	98.383	145.083	-71.049	1.00	148.97	C	N
ATOM	4818	NH2	ARG	C	305	96.491	145.995	-70.126	1.00	148.97	C	N
ATOM	4819	C	ARG	C	305	96.413	139.257	-72.990	1.00	148.97	C	C
ATOM	4820	O	ARG	C	305	95.683	139.551	-72.044	1.00	148.97	C	O
ATOM	4821	N	HIS	C	306	96.085	138.347	-73.902	1.00	99.22	C	N
ATOM	4822	CA	HIS	C	306	94.820	137.625	-73.846	1.00	99.22	C	C
ATOM	4823	ND1	HIS	C	306	94.863	139.822	-76.117	1.00	99.22	C	N
ATOM	4824	CG	HIS	C	306	93.881	138.899	-75.826	1.00	99.22	C	C
ATOM	4825	CB	HIS	C	306	94.182	137.558	-75.234	1.00	99.22	C	C
ATOM	4826	NE2	HIS	C	306	93.000	140.722	-76.675	1.00	99.22	C	N
ATOM	4827	CD2	HIS	C	306	92.707	139.475	-76.181	1.00	99.22	C	C
ATOM	4828	CE1	HIS	C	306	94.307	140.907	-76.625	1.00	99.22	C	C
ATOM	4829	C	HIS	C	306	95.012	136.219	-73.289	1.00	99.22	C	C
ATOM	4830	O	HIS	C	306	94.406	135.851	-72.283	1.00	99.22	C	O
ATOM	4831	N	SER	C	307	95.857	135.436	-73.951	1.00	102.77	C	N
ATOM	4832	CA	SER	C	307	96.132	134.070	-73.524	1.00	102.77	C	C
ATOM	4833	CB	SER	C	307	96.467	133.189	-74.729	1.00	102.77	C	C
ATOM	4834	OG	SER	C	307	95.392	133.158	-75.652	1.00	102.77	C	O
ATOM	4835	C	SER	C	307	97.271	134.029	-72.510	1.00	102.77	C	C
ATOM	4836	O	SER	C	307	98.119	134.920	-72.477	1.00	102.77	C	O
ATOM	4837	N	GLN	C	308	97.283	132.988	-71.684	1.00	121.93	C	N
ATOM	4838	CA	GLN	C	308	98.304	132.836	-70.654	1.00	121.93	C	C
ATOM	4839	CB	GLN	C	308	97.689	132.265	-69.375	1.00	121.93	C	C
ATOM	4840	CG	GLN	C	308	96.527	133.079	-68.829	1.00	121.93	C	C
ATOM	4841	CD	GLN	C	308	96.937	134.479	-68.416	1.00	121.93	C	C
ATOM	4842	OE1	GLN	C	308	97.907	134.663	-67.681	1.00	121.93	C	O
ATOM	4843	NE2	GLN	C	308	96.202	135.477	-68.893	1.00	121.93	C	N
ATOM	4844	C	GLN	C	308	99.439	131.937	-71.134	1.00	121.93	C	C
ATOM	4845	O	GLN	C	308	100.401	131.693	-70.404	1.00	121.93	C	O
ATOM	4846	N	GLY	C	309	99.320	131.446	-72.363	1.00	30.52	C	N
ATOM	4847	CA	GLY	C	309	100.330	130.578	-72.940	1.00	30.52	C	C
ATOM	4848	C	GLY	C	309	101.598	131.322	-73.312	1.00	30.52	C	C
ATOM	4849	O	GLY	C	309	102.704	130.842	-73.067	1.00	30.52	C	O
ATOM	4850	N	LEU	C	310	101.435	132.500	-73.906	1.00	101.35	C	N
ATOM	4851	CA	LEU	C	310	102.574	133.317	-74.311	1.00	101.35	C	C
ATOM	4852	CB	LEU	C	310	102.139	134.393	-75.307	1.00	101.35	C	C
ATOM	4853	CG	LEU	C	310	101.549	133.893	-76.627	1.00	101.35	C	C
ATOM	4854	CD1	LEU	C	310	101.108	135.063	-77.492	1.00	101.35	C	C
ATOM	4855	CD2	LEU	C	310	102.552	133.021	-77.367	1.00	101.35	C	C
ATOM	4856	C	LEU	C	310	103.248	133.961	-73.105	1.00	101.35	C	C
ATOM	4857	O	LEU	C	310	104.427	134.311	-73.155	1.00	101.35	C	O
ATOM	4858	N	ARG	C	311	102.493	134.116	-72.022	1.00	108.34	C	N
ATOM	4859	CA	ARG	C	311	103.031	134.688	-70.795	1.00	108.34	C	C
ATOM	4860	CB	ARG	C	311	101.904	135.019	-69.814	1.00	108.34	C	C
ATOM	4861	CG	ARG	C	311	100.960	136.109	-70.294	1.00	108.34	C	C
ATOM	4862	CD	ARG	C	311	99.906	136.420	-69.245	1.00	108.34	C	C
ATOM	4863	NE	ARG	C	311	100.504	136.802	-67.969	1.00	108.34	C	N
ATOM	4864	CZ	ARG	C	311	100.770	138.054	-67.614	1.00	108.34	C	C
ATOM	4865	NH1	ARG	C	311	100.489	139.054	-68.438	1.00	108.34	C	N
ATOM	4866	NH2	ARG	C	311	101.317	138.309	-66.433	1.00	108.34	C	N

ATOM	4867	C	ARG	C	311	104.032	133.740	-70.144	1.00	108.34	C	C
ATOM	4868	O	ARG	C	311	105.115	134.154	-69.732	1.00	108.34	C	O
ATOM	4869	N	ILE	C	312	103.662	132.466	-70.056	1.00	41.79	C	N
ATOM	4870	CA	ILE	C	312	104.532	131.457	-69.466	1.00	41.79	C	C
ATOM	4871	CB	ILE	C	312	103.787	130.128	-69.241	1.00	41.79	C	C
ATOM	4872	CG2	ILE	C	312	104.714	129.097	-68.615	1.00	41.79	C	C
ATOM	4873	CG1	ILE	C	312	102.556	130.349	-68.360	1.00	41.79	C	C
ATOM	4874	CD1	ILE	C	312	101.759	129.091	-68.097	1.00	41.79	C	C
ATOM	4875	C	ILE	C	312	105.749	131.205	-70.350	1.00	41.79	C	C
ATOM	4876	O	ILE	C	312	106.877	131.133	-69.863	1.00	41.79	C	O
ATOM	4877	N	LEU	C	313	105.511	131.072	-71.651	1.00	49.07	C	N
ATOM	4878	CA	LEU	C	313	106.586	130.846	-72.610	1.00	49.07	C	C
ATOM	4879	CB	LEU	C	313	106.012	130.595	-74.006	1.00	49.07	C	C
ATOM	4880	CG	LEU	C	313	107.025	130.332	-75.122	1.00	49.07	C	C
ATOM	4881	CD1	LEU	C	313	107.903	129.139	-74.779	1.00	49.07	C	C
ATOM	4882	CD2	LEU	C	313	106.318	130.117	-76.451	1.00	49.07	C	C
ATOM	4883	C	LEU	C	313	107.548	132.028	-72.643	1.00	49.07	C	C
ATOM	4884	O	LEU	C	313	108.752	131.856	-72.829	1.00	49.07	C	O
ATOM	4885	N	GLY	C	314	107.008	133.229	-72.461	1.00	27.86	C	N
ATOM	4886	CA	GLY	C	314	107.813	134.436	-72.460	1.00	27.86	C	C
ATOM	4887	C	GLY	C	314	108.741	134.509	-71.264	1.00	27.86	C	C
ATOM	4888	O	GLY	C	314	109.908	134.880	-71.392	1.00	27.86	C	O
ATOM	4889	N	TYR	C	315	108.220	134.150	-70.095	1.00	99.30	C	N
ATOM	4890	CA	TYR	C	315	109.007	134.164	-68.868	1.00	99.30	C	C
ATOM	4891	CB	TYR	C	315	108.095	134.064	-67.643	1.00	99.30	C	C
ATOM	4892	CG	TYR	C	315	107.131	135.220	-67.504	1.00	99.30	C	C
ATOM	4893	CD1	TYR	C	315	105.964	135.091	-66.762	1.00	99.30	C	C
ATOM	4894	CD2	TYR	C	315	107.388	136.440	-68.115	1.00	99.30	C	C
ATOM	4895	CE1	TYR	C	315	105.080	136.145	-66.633	1.00	99.30	C	C
ATOM	4896	CE2	TYR	C	315	106.510	137.499	-67.991	1.00	99.30	C	C
ATOM	4897	CZ	TYR	C	315	105.358	137.346	-67.249	1.00	99.30	C	C
ATOM	4898	OH	TYR	C	315	104.481	138.399	-67.124	1.00	99.30	C	O
ATOM	4899	C	TYR	C	315	110.027	133.031	-68.856	1.00	99.30	C	C
ATOM	4900	O	TYR	C	315	111.081	133.138	-68.229	1.00	99.30	C	O
ATOM	4901	N	THR	C	316	109.706	131.946	-69.554	1.00	115.27	C	N
ATOM	4902	CA	THR	C	316	110.603	130.800	-69.638	1.00	115.27	C	C
ATOM	4903	CB	THR	C	316	109.897	129.571	-70.242	1.00	115.27	C	C
ATOM	4904	OG1	THR	C	316	108.793	129.194	-69.410	1.00	115.27	C	O
ATOM	4905	CG2	THR	C	316	110.863	128.403	-70.353	1.00	115.27	C	C
ATOM	4906	C	THR	C	316	111.835	131.131	-70.473	1.00	115.27	C	C
ATOM	4907	O	THR	C	316	112.963	130.858	-70.065	1.00	115.27	C	O
ATOM	4908	N	LEU	C	317	111.611	131.723	-71.641	1.00	53.09	C	N
ATOM	4909	CA	LEU	C	317	112.704	132.106	-72.528	1.00	53.09	C	C
ATOM	4910	CB	LEU	C	317	112.166	132.500	-73.905	1.00	53.09	C	C
ATOM	4911	CG	LEU	C	317	111.414	131.415	-74.679	1.00	53.09	C	C
ATOM	4912	CD1	LEU	C	317	110.881	131.963	-75.995	1.00	53.09	C	C
ATOM	4913	CD2	LEU	C	317	112.308	130.208	-74.920	1.00	53.09	C	C
ATOM	4914	C	LEU	C	317	113.517	133.250	-71.931	1.00	53.09	C	C
ATOM	4915	O	LEU	C	317	114.701	133.405	-72.230	1.00	53.09	C	O
ATOM	4916	N	LYS	C	318	112.873	134.051	-71.088	1.00	75.11	C	N
ATOM	4917	CA	LYS	C	318	113.542	135.165	-70.428	1.00	75.11	C	C
ATOM	4918	CB	LYS	C	318	112.517	136.130	-69.831	1.00	75.11	C	C
ATOM	4919	CG	LYS	C	318	113.133	137.325	-69.121	1.00	75.11	C	C
ATOM	4920	CD	LYS	C	318	112.063	138.232	-68.538	1.00	75.11	C	C
ATOM	4921	CE	LYS	C	318	111.142	138.766	-69.622	1.00	75.11	C	C
ATOM	4922	NZ	LYS	C	318	110.084	139.651	-69.061	1.00	75.11	C	N
ATOM	4923	C	LYS	C	318	114.486	134.665	-69.340	1.00	75.11	C	C
ATOM	4924	O	LYS	C	318	115.644	135.078	-69.272	1.00	75.11	C	O
ATOM	4925	N	SER	C	319	113.984	133.774	-68.491	1.00	82.79	C	N
ATOM	4926	CA	SER	C	319	114.789	133.198	-67.421	1.00	82.79	C	C
ATOM	4927	CB	SER	C	319	113.903	132.426	-66.441	1.00	82.79	C	C
ATOM	4928	OG	SER	C	319	114.677	131.839	-65.409	1.00	82.79	C	O
ATOM	4929	C	SER	C	319	115.869	132.281	-67.984	1.00	82.79	C	C
ATOM	4930	O	SER	C	319	116.911	132.076	-67.360	1.00	82.79	C	O
ATOM	4931	N	CYS	C	320	115.613	131.733	-69.167	1.00	91.34	C	N
ATOM	4932	CA	CYS	C	320	116.565	130.845	-69.824	1.00	91.34	C	C
ATOM	4933	CB	CYS	C	320	115.855	129.604	-70.367	1.00	91.34	C	C
ATOM	4934	SG	CYS	C	320	115.026	128.605	-69.109	1.00	91.34	C	S

ATOM	4935	C	CYS	C	320	117.296	131.565	-70.951	1.00	91.34	C	C
ATOM	4936	O	CYS	C	320	117.676	130.952	-71.948	1.00	91.34	C	O
ATOM	4937	N	ALA	C	321	117.488	132.870	-70.786	1.00	55.04	C	N
ATOM	4938	CA	ALA	C	321	118.192	133.673	-71.778	1.00	55.04	C	C
ATOM	4939	CB	ALA	C	321	118.174	135.141	-71.382	1.00	55.04	C	C
ATOM	4940	C	ALA	C	321	119.625	133.184	-71.951	1.00	55.04	C	C
ATOM	4941	O	ALA	C	321	120.189	133.256	-73.042	1.00	55.04	C	O
ATOM	4942	N	SER	C	322	120.206	132.685	-70.865	1.00	39.37	C	N
ATOM	4943	CA	SER	C	322	121.561	132.148	-70.899	1.00	39.37	C	C
ATOM	4944	CB	SER	C	322	122.214	132.254	-69.520	1.00	39.37	C	C
ATOM	4945	OG	SER	C	322	122.285	133.602	-69.091	1.00	39.37	C	O
ATOM	4946	C	SER	C	322	121.556	130.698	-71.368	1.00	39.37	C	C
ATOM	4947	O	SER	C	322	122.433	130.276	-72.122	1.00	39.37	C	O
ATOM	4948	N	GLU	C	323	120.561	129.939	-70.917	1.00	101.99	C	N
ATOM	4949	CA	GLU	C	323	120.429	128.539	-71.303	1.00	101.99	C	C
ATOM	4950	CB	GLU	C	323	119.224	127.903	-70.607	1.00	101.99	C	C
ATOM	4951	CG	GLU	C	323	119.279	127.955	-69.089	1.00	101.99	C	C
ATOM	4952	CD	GLU	C	323	120.408	127.121	-68.513	1.00	101.99	C	C
ATOM	4953	OE1	GLU	C	323	121.031	126.350	-69.273	1.00	101.99	C	O
ATOM	4954	OE2	GLU	C	323	120.671	127.236	-67.298	1.00	101.99	C	O
ATOM	4955	C	GLU	C	323	120.291	128.403	-72.814	1.00	101.99	C	C
ATOM	4956	O	GLU	C	323	120.913	127.537	-73.430	1.00	101.99	C	O
ATOM	4957	N	LEU	C	324	119.469	129.264	-73.406	1.00	51.45	C	N
ATOM	4958	CA	LEU	C	324	119.267	129.263	-74.849	1.00	51.45	C	C
ATOM	4959	CB	LEU	C	324	118.096	130.173	-75.226	1.00	51.45	C	C
ATOM	4960	CG	LEU	C	324	117.727	130.237	-76.709	1.00	51.45	C	C
ATOM	4961	CD1	LEU	C	324	117.372	128.855	-77.234	1.00	51.45	C	C
ATOM	4962	CD2	LEU	C	324	116.581	131.211	-76.936	1.00	51.45	C	C
ATOM	4963	C	LEU	C	324	120.534	129.713	-75.568	1.00	51.45	C	C
ATOM	4964	O	LEU	C	324	120.776	129.339	-76.715	1.00	51.45	C	O
ATOM	4965	N	GLY	C	325	121.341	130.517	-74.882	1.00	21.45	C	N
ATOM	4966	CA	GLY	C	325	122.585	131.011	-75.443	1.00	21.45	C	C
ATOM	4967	C	GLY	C	325	123.570	129.897	-75.737	1.00	21.45	C	C
ATOM	4968	O	GLY	C	325	124.178	129.862	-76.807	1.00	21.45	C	O
ATOM	4969	N	PHE	C	326	123.728	128.984	-74.784	1.00	93.89	C	N
ATOM	4970	CA	PHE	C	326	124.637	127.855	-74.949	1.00	93.89	C	C
ATOM	4971	CB	PHE	C	326	124.891	127.165	-73.606	1.00	93.89	C	C
ATOM	4972	CG	PHE	C	326	125.676	127.999	-72.633	1.00	93.89	C	C
ATOM	4973	CD1	PHE	C	326	125.031	128.811	-71.716	1.00	93.89	C	C
ATOM	4974	CD2	PHE	C	326	127.061	127.968	-72.635	1.00	93.89	C	C
ATOM	4975	CE1	PHE	C	326	125.752	129.578	-70.820	1.00	93.89	C	C
ATOM	4976	CE2	PHE	C	326	127.787	128.733	-71.742	1.00	93.89	C	C
ATOM	4977	CZ	PHE	C	326	127.132	129.539	-70.833	1.00	93.89	C	C
ATOM	4978	C	PHE	C	326	124.098	126.851	-75.962	1.00	93.89	C	C
ATOM	4979	O	PHE	C	326	124.855	126.064	-76.531	1.00	93.89	C	O
ATOM	4980	N	LEU	C	327	122.788	126.881	-76.183	1.00	47.15	C	N
ATOM	4981	CA	LEU	C	327	122.154	125.988	-77.147	1.00	47.15	C	C
ATOM	4982	CB	LEU	C	327	120.631	126.066	-77.034	1.00	47.15	C	C
ATOM	4983	CG	LEU	C	327	119.831	125.245	-78.049	1.00	47.15	C	C
ATOM	4984	CD1	LEU	C	327	120.255	123.784	-78.023	1.00	47.15	C	C
ATOM	4985	CD2	LEU	C	327	118.339	125.379	-77.789	1.00	47.15	C	C
ATOM	4986	C	LEU	C	327	122.594	126.321	-78.568	1.00	47.15	C	C
ATOM	4987	O	LEU	C	327	122.931	125.431	-79.348	1.00	47.15	C	O
ATOM	4988	N	LEU	C	328	122.588	127.608	-78.897	1.00	87.13	C	N
ATOM	4989	CA	LEU	C	328	123.025	128.062	-80.212	1.00	87.13	C	C
ATOM	4990	CB	LEU	C	328	122.424	129.431	-80.542	1.00	87.13	C	C
ATOM	4991	CG	LEU	C	328	120.943	129.491	-80.932	1.00	87.13	C	C
ATOM	4992	CD1	LEU	C	328	120.048	128.973	-79.815	1.00	87.13	C	C
ATOM	4993	CD2	LEU	C	328	120.554	130.911	-81.314	1.00	87.13	C	C
ATOM	4994	C	LEU	C	328	124.546	128.125	-80.280	1.00	87.13	C	C
ATOM	4995	O	LEU	C	328	125.134	128.031	-81.357	1.00	87.13	C	O
ATOM	4996	N	PHE	C	329	125.178	128.282	-79.121	1.00	48.49	C	N
ATOM	4997	CA	PHE	C	329	126.632	128.336	-79.046	1.00	48.49	C	C
ATOM	4998	CB	PHE	C	329	127.083	128.793	-77.657	1.00	48.49	C	C
ATOM	4999	CG	PHE	C	329	128.574	128.855	-77.496	1.00	48.49	C	C
ATOM	5000	CD1	PHE	C	329	129.278	129.994	-77.854	1.00	48.49	C	C
ATOM	5001	CD2	PHE	C	329	129.273	127.775	-76.986	1.00	48.49	C	C
ATOM	5002	CE1	PHE	C	329	130.651	130.053	-77.707	1.00	48.49	C	C

ATOM	5003	CE2	PHE	C	329	130.645	127.828	-76.836	1.00	48.49	C	C
ATOM	5004	CZ	PHE	C	329	131.335	128.969	-77.197	1.00	48.49	C	C
ATOM	5005	C	PHE	C	329	127.242	126.979	-79.376	1.00	48.49	C	C
ATOM	5006	O	PHE	C	329	127.992	126.845	-80.342	1.00	48.49	C	O
ATOM	5007	N	SER	C	330	126.914	125.975	-78.568	1.00	71.43	C	N
ATOM	5008	CA	SER	C	330	127.408	124.620	-78.786	1.00	71.43	C	C
ATOM	5009	CB	SER	C	330	126.888	123.680	-77.697	1.00	71.43	C	C
ATOM	5010	OG	SER	C	330	125.471	123.664	-77.672	1.00	71.43	C	O
ATOM	5011	C	SER	C	330	127.002	124.105	-80.163	1.00	71.43	C	C
ATOM	5012	O	SER	C	330	127.658	123.229	-80.727	1.00	71.43	C	O
ATOM	5013	N	LEU	C	331	125.915	124.652	-80.697	1.00	53.19	C	N
ATOM	5014	CA	LEU	C	331	125.446	124.286	-82.028	1.00	53.19	C	C
ATOM	5015	CB	LEU	C	331	124.033	124.821	-82.265	1.00	53.19	C	C
ATOM	5016	CG	LEU	C	331	123.439	124.583	-83.655	1.00	53.19	C	C
ATOM	5017	CD1	LEU	C	331	123.325	123.094	-83.946	1.00	53.19	C	C
ATOM	5018	CD2	LEU	C	331	122.085	125.261	-83.785	1.00	53.19	C	C
ATOM	5019	C	LEU	C	331	126.392	124.820	-83.097	1.00	53.19	C	C
ATOM	5020	O	LEU	C	331	126.959	124.055	-83.876	1.00	53.19	C	O
ATOM	5021	N	THR	C	332	126.557	126.139	-83.124	1.00	103.02	C	N
ATOM	5022	CA	THR	C	332	127.421	126.791	-84.103	1.00	103.02	C	C
ATOM	5023	CB	THR	C	332	127.527	128.306	-83.839	1.00	103.02	C	C
ATOM	5024	OG1	THR	C	332	126.219	128.891	-83.869	1.00	103.02	C	O
ATOM	5025	CG2	THR	C	332	128.399	128.973	-84.892	1.00	103.02	C	C
ATOM	5026	C	THR	C	332	128.820	126.183	-84.108	1.00	103.02	C	C
ATOM	5027	O	THR	C	332	129.429	126.012	-85.165	1.00	103.02	C	O
ATOM	5028	N	MET	C	333	129.325	125.858	-82.922	1.00	112.73	C	N
ATOM	5029	CA	MET	C	333	130.639	125.240	-82.795	1.00	112.73	C	C
ATOM	5030	CB	MET	C	333	130.960	124.957	-81.326	1.00	112.73	C	C
ATOM	5031	CG	MET	C	333	131.058	126.202	-80.460	1.00	112.73	C	C
ATOM	5032	SD	MET	C	333	132.335	127.341	-81.028	1.00	112.73	C	S
ATOM	5033	CE	MET	C	333	133.787	126.298	-80.924	1.00	112.73	C	C
ATOM	5034	C	MET	C	333	130.714	123.951	-83.604	1.00	112.73	C	C
ATOM	5035	O	MET	C	333	131.611	123.776	-84.428	1.00	112.73	C	O
ATOM	5036	N	ALA	C	334	129.764	123.053	-83.365	1.00	30.08	C	N
ATOM	5037	CA	ALA	C	334	129.722	121.775	-84.067	1.00	30.08	C	C
ATOM	5038	CB	ALA	C	334	128.649	120.879	-83.469	1.00	30.08	C	C
ATOM	5039	C	ALA	C	334	129.488	121.967	-85.562	1.00	30.08	C	C
ATOM	5040	O	ALA	C	334	129.964	121.179	-86.379	1.00	30.08	C	O
ATOM	5041	N	ILE	C	335	128.752	123.017	-85.914	1.00	41.45	C	N
ATOM	5042	CA	ILE	C	335	128.448	123.306	-87.312	1.00	41.45	C	C
ATOM	5043	CB	ILE	C	335	127.621	124.598	-87.460	1.00	41.45	C	C
ATOM	5044	CG2	ILE	C	335	127.465	124.964	-88.928	1.00	41.45	C	C
ATOM	5045	CG1	ILE	C	335	126.249	124.431	-86.805	1.00	41.45	C	C
ATOM	5046	CD1	ILE	C	335	125.371	125.660	-86.902	1.00	41.45	C	C
ATOM	5047	C	ILE	C	335	129.715	123.425	-88.153	1.00	41.45	C	C
ATOM	5048	O	ILE	C	335	129.893	122.696	-89.128	1.00	41.45	C	O
ATOM	5049	N	ILE	C	336	130.593	124.345	-87.767	1.00	44.55	C	N
ATOM	5050	CA	ILE	C	336	131.831	124.580	-88.502	1.00	44.55	C	C
ATOM	5051	CB	ILE	C	336	132.613	125.772	-87.917	1.00	44.55	C	C
ATOM	5052	CG2	ILE	C	336	133.822	126.094	-88.782	1.00	44.55	C	C
ATOM	5053	CG1	ILE	C	336	131.699	126.992	-87.782	1.00	44.55	C	C
ATOM	5054	CD1	ILE	C	336	132.382	128.207	-87.191	1.00	44.55	C	C
ATOM	5055	C	ILE	C	336	132.724	123.341	-88.507	1.00	44.55	C	C
ATOM	5056	O	ILE	C	336	133.452	123.094	-89.468	1.00	44.55	C	O
ATOM	5057	N	ILE	C	337	132.660	122.564	-87.430	1.00	87.94	C	N
ATOM	5058	CA	ILE	C	337	133.479	121.363	-87.301	1.00	87.94	C	C
ATOM	5059	CB	ILE	C	337	133.319	120.718	-85.911	1.00	87.94	C	C
ATOM	5060	CG2	ILE	C	337	134.106	119.420	-85.833	1.00	87.94	C	C
ATOM	5061	CG1	ILE	C	337	133.774	121.687	-84.818	1.00	87.94	C	C
ATOM	5062	CD1	ILE	C	337	133.588	121.154	-83.415	1.00	87.94	C	C
ATOM	5063	C	ILE	C	337	133.146	120.325	-88.368	1.00	87.94	C	C
ATOM	5064	O	ILE	C	337	134.031	119.852	-89.082	1.00	87.94	C	O
ATOM	5065	N	PHE	C	338	131.869	119.974	-88.472	1.00	61.40	C	N
ATOM	5066	CA	PHE	C	338	131.431	118.953	-89.419	1.00	61.40	C	C
ATOM	5067	CB	PHE	C	338	130.095	118.348	-88.983	1.00	61.40	C	C
ATOM	5068	CG	PHE	C	338	130.163	117.603	-87.680	1.00	61.40	C	C
ATOM	5069	CD1	PHE	C	338	130.593	116.287	-87.642	1.00	61.40	C	C
ATOM	5070	CD2	PHE	C	338	129.794	118.216	-86.495	1.00	61.40	C	C

ATOM	5071	CE1	PHE	C	338	130.656	115.598	-86.445	1.00	61.40	C	C
ATOM	5072	CE2	PHE	C	338	129.855	117.533	-85.296	1.00	61.40	C	C
ATOM	5073	CZ	PHE	C	338	130.286	116.222	-85.271	1.00	61.40	C	C
ATOM	5074	C	PHE	C	338	131.325	119.492	-90.844	1.00	61.40	C	C
ATOM	5075	O	PHE	C	338	131.613	118.781	-91.805	1.00	61.40	C	O
ATOM	5076	N	ALA	C	339	130.912	120.749	-90.973	1.00	38.36	C	N
ATOM	5077	CA	ALA	C	339	130.748	121.367	-92.285	1.00	38.36	C	C
ATOM	5078	CB	ALA	C	339	130.255	122.799	-92.142	1.00	38.36	C	C
ATOM	5079	C	ALA	C	339	132.042	121.327	-93.092	1.00	38.36	C	C
ATOM	5080	O	ALA	C	339	132.017	121.332	-94.322	1.00	38.36	C	O
ATOM	5081	N	THR	C	340	133.171	121.286	-92.392	1.00	117.99	C	N
ATOM	5082	CA	THR	C	340	134.474	121.251	-93.047	1.00	117.99	C	C
ATOM	5083	CB	THR	C	340	135.561	121.928	-92.187	1.00	117.99	C	C
ATOM	5084	OG1	THR	C	340	135.611	121.306	-90.897	1.00	117.99	C	O
ATOM	5085	CG2	THR	C	340	135.261	123.409	-92.020	1.00	117.99	C	C
ATOM	5086	C	THR	C	340	134.906	119.825	-93.381	1.00	117.99	C	C
ATOM	5087	O	THR	C	340	135.187	119.510	-94.536	1.00	117.99	C	O
ATOM	5088	N	VAL	C	341	134.953	118.967	-92.367	1.00	49.53	C	N
ATOM	5089	CA	VAL	C	341	135.394	117.587	-92.551	1.00	49.53	C	C
ATOM	5090	CB	VAL	C	341	135.351	116.794	-91.229	1.00	49.53	C	C
ATOM	5091	CG1	VAL	C	341	136.305	117.402	-90.213	1.00	49.53	C	C
ATOM	5092	CG2	VAL	C	341	133.934	116.750	-90.680	1.00	49.53	C	C
ATOM	5093	C	VAL	C	341	134.566	116.856	-93.606	1.00	49.53	C	C
ATOM	5094	O	VAL	C	341	135.061	115.951	-94.278	1.00	49.53	C	O
ATOM	5095	N	MET	C	342	133.305	117.252	-93.746	1.00	112.56	C	N
ATOM	5096	CA	MET	C	342	132.418	116.644	-94.730	1.00	112.56	C	C
ATOM	5097	CB	MET	C	342	130.956	116.779	-94.297	1.00	112.56	C	C
ATOM	5098	CG	MET	C	342	130.624	116.066	-92.996	1.00	112.56	C	C
ATOM	5099	SD	MET	C	342	128.873	116.160	-92.576	1.00	112.56	C	S
ATOM	5100	CE	MET	C	342	128.640	117.934	-92.481	1.00	112.56	C	C
ATOM	5101	C	MET	C	342	132.614	117.268	-96.108	1.00	112.56	C	C
ATOM	5102	O	MET	C	342	132.315	116.648	-97.129	1.00	112.56	C	O
ATOM	5103	N	PHE	C	343	133.117	118.497	-96.128	1.00	78.09	C	N
ATOM	5104	CA	PHE	C	343	133.351	119.206	-97.381	1.00	78.09	C	C
ATOM	5105	CB	PHE	C	343	133.419	120.716	-97.143	1.00	78.09	C	C
ATOM	5106	CG	PHE	C	343	133.695	121.511	-98.386	1.00	78.09	C	C
ATOM	5107	CD1	PHE	C	343	132.671	121.828	-99.263	1.00	78.09	C	C
ATOM	5108	CD2	PHE	C	343	134.978	121.942	-98.679	1.00	78.09	C	C
ATOM	5109	CE1	PHE	C	343	132.921	122.558	-100.409	1.00	78.09	C	C
ATOM	5110	CE2	PHE	C	343	135.234	122.674	-99.823	1.00	78.09	C	C
ATOM	5111	CZ	PHE	C	343	134.204	122.982	-100.689	1.00	78.09	C	C
ATOM	5112	C	PHE	C	343	134.625	118.726	-98.067	1.00	78.09	C	C
ATOM	5113	O	PHE	C	343	134.619	118.414	-99.257	1.00	78.09	C	O
ATOM	5114	N	TYR	C	344	135.717	118.671	-97.311	1.00	66.10	C	N
ATOM	5115	CA	TYR	C	344	136.999	118.232	-97.851	1.00	66.10	C	C
ATOM	5116	CB	TYR	C	344	138.130	118.512	-96.859	1.00	66.10	C	C
ATOM	5117	CG	TYR	C	344	138.303	119.976	-96.521	1.00	66.10	C	C
ATOM	5118	CD1	TYR	C	344	139.008	120.826	-97.364	1.00	66.10	C	C
ATOM	5119	CD2	TYR	C	344	137.767	120.508	-95.356	1.00	66.10	C	C
ATOM	5120	CE1	TYR	C	344	139.169	122.164	-97.058	1.00	66.10	C	C
ATOM	5121	CE2	TYR	C	344	137.923	121.845	-95.042	1.00	66.10	C	C
ATOM	5122	CZ	TYR	C	344	138.625	122.668	-95.896	1.00	66.10	C	C
ATOM	5123	OH	TYR	C	344	138.783	123.999	-95.584	1.00	66.10	C	O
ATOM	5124	C	TYR	C	344	136.969	116.749	-98.211	1.00	66.10	C	C
ATOM	5125	O	TYR	C	344	137.868	116.246	-98.885	1.00	66.10	C	O
ATOM	5126	N	ALA	C	345	135.930	116.056	-97.755	1.00	55.12	C	N
ATOM	5127	CA	ALA	C	345	135.768	114.636	-98.045	1.00	55.12	C	C
ATOM	5128	CB	ALA	C	345	135.079	113.935	-96.886	1.00	55.12	C	C
ATOM	5129	C	ALA	C	345	134.984	114.429	-99.337	1.00	55.12	C	C
ATOM	5130	O	ALA	C	345	135.051	113.365	-99.952	1.00	55.12	C	O
ATOM	5131	N	GLU	C	346	134.242	115.455	-99.742	1.00	125.73	C	N
ATOM	5132	CA	GLU	C	346	133.444	115.391	-100.960	1.00	125.73	C	C
ATOM	5133	CB	GLU	C	346	131.999	115.806	-100.676	1.00	125.73	C	C
ATOM	5134	CG	GLU	C	346	131.294	114.944	-99.640	1.00	125.73	C	C
ATOM	5135	CD	GLU	C	346	131.060	113.525	-100.119	1.00	125.73	C	C
ATOM	5136	OE1	GLU	C	346	131.239	113.264	-101.328	1.00	125.73	C	O
ATOM	5137	OE2	GLU	C	346	130.697	112.668	-99.286	1.00	125.73	C	O
ATOM	5138	C	GLU	C	346	134.036	116.276	-102.054	1.00	125.73	C	C

ATOM	5139	O	GLU	C	346	133.570	116.265-103.193	1.00125.73	C	O
ATOM	5140	N	LYS	C	347	135.064	117.039-101.699	1.00138.31	C	N
ATOM	5141	CA	LYS	C	347	135.710	117.944-102.643	1.00138.31	C	C
ATOM	5142	CB	LYS	C	347	136.711	118.848-101.919	1.00138.31	C	C
ATOM	5143	CG	LYS	C	347	137.393	119.867-102.818	1.00138.31	C	C
ATOM	5144	CD	LYS	C	347	138.373	120.727-102.035	1.00138.31	C	C
ATOM	5145	CE	LYS	C	347	139.054	121.746-102.934	1.00138.31	C	C
ATOM	5146	NZ	LYS	C	347	139.818	121.094-104.033	1.00138.31	C	N
ATOM	5147	C	LYS	C	347	136.409	117.175-103.760	1.00138.31	C	C
ATOM	5148	O	LYS	C	347	136.576	117.686-104.867	1.00138.31	C	O
ATOM	5149	N	GLY	C	348	136.812	115.944-103.462	1.00 56.79	C	N
ATOM	5150	CA	GLY	C	348	137.490	115.108-104.434	1.00 56.79	C	C
ATOM	5151	C	GLY	C	348	136.528	114.393-105.362	1.00 56.79	C	C
ATOM	5152	O	GLY	C	348	136.891	113.415-106.016	1.00 56.79	C	O
ATOM	5153	N	SER	C	349	135.294	114.884-105.419	1.00123.99	C	N
ATOM	5154	CA	SER	C	349	134.271	114.289-106.271	1.00123.99	C	C
ATOM	5155	CB	SER	C	349	133.173	113.647-105.421	1.00123.99	C	C
ATOM	5156	OG	SER	C	349	133.705	112.638-104.581	1.00123.99	C	O
ATOM	5157	C	SER	C	349	133.667	115.328-107.211	1.00123.99	C	C
ATOM	5158	O	SER	C	349	133.490	116.488-106.838	1.00123.99	C	O
ATOM	5159	N	SER	C	350	133.353	114.903-108.430	1.00183.36	C	N
ATOM	5160	CA	SER	C	350	132.773	115.795-109.427	1.00183.36	C	C
ATOM	5161	CB	SER	C	350	132.889	115.184-110.825	1.00183.36	C	C
ATOM	5162	OG	SER	C	350	132.317	116.035-111.803	1.00183.36	C	O
ATOM	5163	C	SER	C	350	131.314	116.107-109.110	1.00183.36	C	C
ATOM	5164	O	SER	C	350	130.866	117.243-109.264	1.00183.36	C	O
ATOM	5165	N	ALA	C	351	130.579	115.093-108.668	1.00238.58	C	N
ATOM	5166	CA	ALA	C	351	129.170	115.259-108.331	1.00238.58	C	C
ATOM	5167	CB	ALA	C	351	128.388	114.003-108.687	1.00238.58	C	C
ATOM	5168	C	ALA	C	351	128.992	115.598-106.855	1.00238.58	C	C
ATOM	5169	O	ALA	C	351	128.162	115.003-106.167	1.00238.58	C	O
ATOM	5170	N	SER	C	352	129.778	116.556-106.375	1.00139.03	C	N
ATOM	5171	CA	SER	C	352	129.713	116.973-104.979	1.00139.03	C	C
ATOM	5172	CB	SER	C	352	131.023	117.640-104.557	1.00139.03	C	C
ATOM	5173	OG	SER	C	352	131.289	118.787-105.346	1.00139.03	C	O
ATOM	5174	C	SER	C	352	128.544	117.923-104.740	1.00139.03	C	C
ATOM	5175	O	SER	C	352	128.334	118.867-105.501	1.00139.03	C	O
ATOM	5176	N	LYS	C	353	127.788	117.668-103.677	1.00160.96	C	N
ATOM	5177	CA	LYS	C	353	126.641	118.501-103.337	1.00160.96	C	C
ATOM	5178	CB	LYS	C	353	125.568	117.671-102.629	1.00160.96	C	C
ATOM	5179	CG	LYS	C	353	125.043	116.505-103.450	1.00160.96	C	C
ATOM	5180	CD	LYS	C	353	124.426	116.980-104.756	1.00160.96	C	C
ATOM	5181	CE	LYS	C	353	123.912	115.813-105.583	1.00160.96	C	C
ATOM	5182	NZ	LYS	C	353	123.310	116.263-106.868	1.00160.96	C	N
ATOM	5183	C	LYS	C	353	127.055	119.679-102.462	1.00160.96	C	C
ATOM	5184	O	LYS	C	353	126.225	120.508-102.085	1.00160.96	C	O
ATOM	5185	N	PHE	C	354	128.343	119.747-102.142	1.00217.25	C	N
ATOM	5186	CA	PHE	C	354	128.871	120.824-101.314	1.00217.25	C	C
ATOM	5187	CB	PHE	C	354	129.662	120.254-100.135	1.00217.25	C	C
ATOM	5188	CG	PHE	C	354	128.853	119.360 -99.238	1.00217.25	C	C
ATOM	5189	CD1	PHE	C	354	128.151	119.886 -98.167	1.00217.25	C	C
ATOM	5190	CD2	PHE	C	354	128.796	117.995 -99.465	1.00217.25	C	C
ATOM	5191	CE1	PHE	C	354	127.406	119.067 -97.339	1.00217.25	C	C
ATOM	5192	CE2	PHE	C	354	128.053	117.171 -98.641	1.00217.25	C	C
ATOM	5193	CZ	PHE	C	354	127.357	117.709 -97.576	1.00217.25	C	C
ATOM	5194	C	PHE	C	354	129.752	121.764-102.131	1.00217.25	C	C
ATOM	5195	O	PHE	C	354	130.852	121.397-102.543	1.00217.25	C	O
ATOM	5196	N	THR	C	355	129.261	122.977-102.361	1.00186.86	C	N
ATOM	5197	CA	THR	C	355	130.000	123.967-103.136	1.00186.86	C	C
ATOM	5198	CB	THR	C	355	129.061	125.029-103.738	1.00186.86	C	C
ATOM	5199	OG1	THR	C	355	128.366	125.708-102.685	1.00186.86	C	O
ATOM	5200	CG2	THR	C	355	128.051	124.379-104.671	1.00186.86	C	C
ATOM	5201	C	THR	C	355	131.056	124.659-102.282	1.00186.86	C	C
ATOM	5202	O	THR	C	355	132.197	124.835-102.711	1.00186.86	C	O
ATOM	5203	N	SER	C	356	130.669	125.051-101.073	1.00 47.70	C	N
ATOM	5204	CA	SER	C	356	131.583	125.724-100.158	1.00 47.70	C	C
ATOM	5205	CB	SER	C	356	131.552	127.237-100.387	1.00 47.70	C	C
ATOM	5206	OG	SER	C	356	130.251	127.758-100.176	1.00 47.70	C	O

ATOM	5207	C	SER	C	356	131.241	125.407	-98.706	1.00	47.70	C	C
ATOM	5208	O	SER	C	356	130.155	124.910	-98.409	1.00	47.70	C	O
ATOM	5209	N	ILE	C	357	132.177	125.694	-97.807	1.00	65.52	C	N
ATOM	5210	CA	ILE	C	357	131.972	125.454	-96.382	1.00	65.52	C	C
ATOM	5211	CB	ILE	C	357	133.241	125.767	-95.559	1.00	65.52	C	C
ATOM	5212	CG2	ILE	C	357	132.985	125.543	-94.077	1.00	65.52	C	C
ATOM	5213	CG1	ILE	C	357	134.413	124.909	-96.040	1.00	65.52	C	C
ATOM	5214	CD1	ILE	C	357	135.695	125.137	-95.270	1.00	65.52	C	C
ATOM	5215	C	ILE	C	357	130.784	126.241	-95.825	1.00	65.52	C	C
ATOM	5216	O	ILE	C	357	129.952	125.681	-95.110	1.00	65.52	C	O
ATOM	5217	N	PRO	C	358	130.700	127.544	-96.146	1.00	79.94	C	N
ATOM	5218	CA	PRO	C	358	129.556	128.340	-95.685	1.00	79.94	C	C
ATOM	5219	CD	PRO	C	358	131.681	128.366	-96.876	1.00	79.94	C	C
ATOM	5220	CB	PRO	C	358	129.796	129.703	-96.339	1.00	79.94	C	C
ATOM	5221	CG	PRO	C	358	131.267	129.767	-96.541	1.00	79.94	C	C
ATOM	5222	C	PRO	C	358	128.231	127.757	-96.166	1.00	79.94	C	C
ATOM	5223	O	PRO	C	358	127.224	127.855	-95.465	1.00	79.94	C	O
ATOM	5224	N	ALA	C	359	128.239	127.157	-97.352	1.00	43.14	C	N
ATOM	5225	CA	ALA	C	359	127.036	126.557	-97.916	1.00	43.14	C	C
ATOM	5226	CB	ALA	C	359	127.144	126.475	-99.430	1.00	43.14	C	C
ATOM	5227	C	ALA	C	359	126.781	125.175	-97.324	1.00	43.14	C	C
ATOM	5228	O	ALA	C	359	125.698	124.611	-97.481	1.00	43.14	C	O
ATOM	5229	N	ALA	C	360	127.787	124.635	-96.643	1.00	50.03	C	N
ATOM	5230	CA	ALA	C	360	127.677	123.321	-96.023	1.00	50.03	C	C
ATOM	5231	CB	ALA	C	360	129.040	122.646	-95.964	1.00	50.03	C	C
ATOM	5232	C	ALA	C	360	127.069	123.419	-94.627	1.00	50.03	C	C
ATOM	5233	O	ALA	C	360	126.833	122.404	-93.970	1.00	50.03	C	O
ATOM	5234	N	PHE	C	361	126.817	124.645	-94.180	1.00	66.36	C	N
ATOM	5235	CA	PHE	C	361	126.227	124.877	-92.866	1.00	66.36	C	C
ATOM	5236	CB	PHE	C	361	126.271	126.365	-92.509	1.00	66.36	C	C
ATOM	5237	CG	PHE	C	361	127.661	126.907	-92.337	1.00	66.36	C	C
ATOM	5238	CD1	PHE	C	361	128.732	126.053	-92.136	1.00	66.36	C	C
ATOM	5239	CD2	PHE	C	361	127.895	128.272	-92.372	1.00	66.36	C	C
ATOM	5240	CE1	PHE	C	361	130.011	126.549	-91.976	1.00	66.36	C	C
ATOM	5241	CE2	PHE	C	361	129.173	128.774	-92.212	1.00	66.36	C	C
ATOM	5242	CZ	PHE	C	361	130.232	127.911	-92.014	1.00	66.36	C	C
ATOM	5243	C	PHE	C	361	124.791	124.369	-92.813	1.00	66.36	C	C
ATOM	5244	O	PHE	C	361	124.326	123.902	-91.773	1.00	66.36	C	O
ATOM	5245	N	TRP	C	362	124.095	124.465	-93.940	1.00	75.06	C	N
ATOM	5246	CA	TRP	C	362	122.714	124.006	-94.032	1.00	75.06	C	C
ATOM	5247	CB	TRP	C	362	122.146	124.291	-95.423	1.00	75.06	C	C
ATOM	5248	CG	TRP	C	362	120.808	123.662	-95.666	1.00	75.06	C	C
ATOM	5249	CD2	TRP	C	362	119.531	124.175	-95.268	1.00	75.06	C	C
ATOM	5250	CD1	TRP	C	362	120.562	122.483	-96.308	1.00	75.06	C	C
ATOM	5251	NE1	TRP	C	362	119.211	122.232	-96.337	1.00	75.06	C	N
ATOM	5252	CE2	TRP	C	362	118.556	123.256	-95.704	1.00	75.06	C	C
ATOM	5253	CE3	TRP	C	362	119.118	125.323	-94.585	1.00	75.06	C	C
ATOM	5254	CZ2	TRP	C	362	117.195	123.449	-95.480	1.00	75.06	C	C
ATOM	5255	CZ3	TRP	C	362	117.766	125.513	-94.364	1.00	75.06	C	C
ATOM	5256	CH2	TRP	C	362	116.821	124.581	-94.810	1.00	75.06	C	C
ATOM	5257	C	TRP	C	362	122.602	122.519	-93.716	1.00	75.06	C	C
ATOM	5258	O	TRP	C	362	121.849	122.120	-92.828	1.00	75.06	C	O
ATOM	5259	N	TYR	C	363	123.357	121.705	-94.447	1.00	49.06	C	N
ATOM	5260	CA	TYR	C	363	123.337	120.260	-94.255	1.00	49.06	C	C
ATOM	5261	CB	TYR	C	363	124.338	119.580	-95.192	1.00	49.06	C	C
ATOM	5262	CG	TYR	C	363	124.479	118.093	-94.956	1.00	49.06	C	C
ATOM	5263	CD1	TYR	C	363	123.576	117.195	-95.509	1.00	49.06	C	C
ATOM	5264	CD2	TYR	C	363	125.514	117.588	-94.181	1.00	49.06	C	C
ATOM	5265	CE1	TYR	C	363	123.700	115.835	-95.296	1.00	49.06	C	C
ATOM	5266	CE2	TYR	C	363	125.646	116.230	-93.963	1.00	49.06	C	C
ATOM	5267	CZ	TYR	C	363	124.737	115.358	-94.522	1.00	49.06	C	C
ATOM	5268	OH	TYR	C	363	124.866	114.005	-94.306	1.00	49.06	C	O
ATOM	5269	C	TYR	C	363	123.633	119.875	-92.810	1.00	49.06	C	C
ATOM	5270	O	TYR	C	363	123.047	118.933	-92.277	1.00	49.06	C	O
ATOM	5271	N	THR	C	364	124.545	120.609	-92.180	1.00	38.67	C	N
ATOM	5272	CA	THR	C	364	124.930	120.331	-90.802	1.00	38.67	C	C
ATOM	5273	CB	THR	C	364	126.134	121.184	-90.368	1.00	38.67	C	C
ATOM	5274	OG1	THR	C	364	127.239	120.937	-91.246	1.00	38.67	C	O

ATOM	5275	CG2	THR	C	364	126.538	120.843	-88.943	1.00	38.67	C	C
ATOM	5276	C	THR	C	364	123.771	120.571	-89.839	1.00	38.67	C	C
ATOM	5277	O	THR	C	364	123.392	119.681	-89.079	1.00	38.67	C	O
ATOM	5278	N	ILE	C	365	123.215	121.777	-89.877	1.00	87.97	C	N
ATOM	5279	CA	ILE	C	365	122.088	122.129	-89.020	1.00	87.97	C	C
ATOM	5280	CB	ILE	C	365	121.606	123.568	-89.282	1.00	87.97	C	C
ATOM	5281	CG2	ILE	C	365	120.438	123.916	-88.372	1.00	87.97	C	C
ATOM	5282	CG1	ILE	C	365	122.754	124.560	-89.087	1.00	87.97	C	C
ATOM	5283	CD1	ILE	C	365	122.366	126.001	-89.340	1.00	87.97	C	C
ATOM	5284	C	ILE	C	365	120.924	121.169	-89.236	1.00	87.97	C	C
ATOM	5285	O	ILE	C	365	120.274	120.740	-88.283	1.00	87.97	C	O
ATOM	5286	N	VAL	C	366	120.670	120.836	-90.498	1.00	48.90	C	N
ATOM	5287	CA	VAL	C	366	119.595	119.919	-90.854	1.00	48.90	C	C
ATOM	5288	CB	VAL	C	366	119.461	119.781	-92.383	1.00	48.90	C	C
ATOM	5289	CG1	VAL	C	366	118.563	118.608	-92.737	1.00	48.90	C	C
ATOM	5290	CG2	VAL	C	366	118.932	121.072	-92.989	1.00	48.90	C	C
ATOM	5291	C	VAL	C	366	119.809	118.537	-90.242	1.00	48.90	C	C
ATOM	5292	O	VAL	C	366	118.889	117.952	-89.670	1.00	48.90	C	O
ATOM	5293	N	THR	C	367	121.028	118.024	-90.362	1.00	54.03	C	N
ATOM	5294	CA	THR	C	367	121.355	116.697	-89.850	1.00	54.03	C	C
ATOM	5295	CB	THR	C	367	122.745	116.236	-90.330	1.00	54.03	C	C
ATOM	5296	OG1	THR	C	367	122.780	116.224	-91.762	1.00	54.03	C	O
ATOM	5297	CG2	THR	C	367	123.053	114.842	-89.809	1.00	54.03	C	C
ATOM	5298	C	THR	C	367	121.313	116.650	-88.326	1.00	54.03	C	C
ATOM	5299	O	THR	C	367	120.789	115.702	-87.740	1.00	54.03	C	O
ATOM	5300	N	MET	C	368	121.864	117.678	-87.688	1.00	56.02	C	N
ATOM	5301	CA	MET	C	368	121.924	117.732	-86.231	1.00	56.02	C	C
ATOM	5302	CB	MET	C	368	122.788	118.908	-85.772	1.00	56.02	C	C
ATOM	5303	CG	MET	C	368	124.243	118.813	-86.202	1.00	56.02	C	C
ATOM	5304	SD	MET	C	368	125.246	120.174	-85.576	1.00	56.02	C	S
ATOM	5305	CE	MET	C	368	125.075	119.934	-83.810	1.00	56.02	C	C
ATOM	5306	C	MET	C	368	120.536	117.821	-85.601	1.00	56.02	C	C
ATOM	5307	O	MET	C	368	120.265	117.182	-84.585	1.00	56.02	C	O
ATOM	5308	N	THR	C	369	119.661	118.615	-86.210	1.00	66.05	C	N
ATOM	5309	CA	THR	C	369	118.308	118.797	-85.696	1.00	66.05	C	C
ATOM	5310	CB	THR	C	369	117.734	120.170	-86.088	1.00	66.05	C	C
ATOM	5311	OG1	THR	C	369	117.683	120.280	-87.516	1.00	66.05	C	O
ATOM	5312	CG2	THR	C	369	118.599	121.289	-85.529	1.00	66.05	C	C
ATOM	5313	C	THR	C	369	117.370	117.701	-86.191	1.00	66.05	C	C
ATOM	5314	O	THR	C	369	116.152	117.882	-86.220	1.00	66.05	C	O
ATOM	5315	N	THR	C	370	117.948	116.569	-86.580	1.00	71.04	C	N
ATOM	5316	CA	THR	C	370	117.180	115.414	-87.040	1.00	71.04	C	C
ATOM	5317	CB	THR	C	370	116.542	114.650	-85.860	1.00	71.04	C	C
ATOM	5318	OG1	THR	C	370	115.632	115.508	-85.162	1.00	71.04	C	O
ATOM	5319	CG2	THR	C	370	117.616	114.165	-84.897	1.00	71.04	C	C
ATOM	5320	C	THR	C	370	116.095	115.786	-88.049	1.00	71.04	C	C
ATOM	5321	O	THR	C	370	114.910	115.544	-87.818	1.00	71.04	C	O
ATOM	5322	N	LEU	C	371	116.507	116.371	-89.168	1.00	149.24	C	N
ATOM	5323	CA	LEU	C	371	115.574	116.742	-90.226	1.00	149.24	C	C
ATOM	5324	CB	LEU	C	371	115.756	118.209	-90.616	1.00	149.24	C	C
ATOM	5325	CG	LEU	C	371	115.458	119.251	-89.536	1.00	149.24	C	C
ATOM	5326	CD1	LEU	C	371	115.778	120.649	-90.040	1.00	149.24	C	C
ATOM	5327	CD2	LEU	C	371	114.010	119.158	-89.091	1.00	149.24	C	C
ATOM	5328	C	LEU	C	371	115.750	115.851	-91.450	1.00	149.24	C	C
ATOM	5329	O	LEU	C	371	114.900	115.013	-91.748	1.00	149.24	C	O
ATOM	5330	N	GLY	C	372	116.860	116.040	-92.157	1.00	45.54	C	N
ATOM	5331	CA	GLY	C	372	117.159	115.252	-93.339	1.00	45.54	C	C
ATOM	5332	C	GLY	C	372	116.150	115.451	-94.453	1.00	45.54	C	C
ATOM	5333	O	GLY	C	372	115.210	114.670	-94.595	1.00	45.54	C	O
ATOM	5334	N	TYR	C	373	116.345	116.499	-95.246	1.00	55.21	C	N
ATOM	5335	CA	TYR	C	373	115.448	116.794	-96.358	1.00	55.21	C	C
ATOM	5336	CB	TYR	C	373	115.535	118.272	-96.745	1.00	55.21	C	C
ATOM	5337	CG	TYR	C	373	115.034	119.218	-95.676	1.00	55.21	C	C
ATOM	5338	CD1	TYR	C	373	115.898	119.742	-94.725	1.00	55.21	C	C
ATOM	5339	CD2	TYR	C	373	113.697	119.587	-95.620	1.00	55.21	C	C
ATOM	5340	CE1	TYR	C	373	115.445	120.607	-93.747	1.00	55.21	C	C
ATOM	5341	CE2	TYR	C	373	113.235	120.451	-94.646	1.00	55.21	C	C
ATOM	5342	CZ	TYR	C	373	114.112	120.958	-93.712	1.00	55.21	C	C

ATOM	5343	OH	TYR	C	373	113.654	121.819	-92.741	1.00	55.21	C	O
ATOM	5344	C	TYR	C	373	115.755	115.915	-97.567	1.00	55.21	C	C
ATOM	5345	O	TYR	C	373	114.862	115.279	-98.126	1.00	55.21	C	O
ATOM	5346	N	GLY	C	374	117.023	115.887	-97.965	1.00	26.05	C	N
ATOM	5347	CA	GLY	C	374	117.447	115.084	-99.097	1.00	26.05	C	C
ATOM	5348	C	GLY	C	374	118.044	115.916	-100.215	1.00	26.05	C	C
ATOM	5349	O	GLY	C	374	118.526	115.379	-101.211	1.00	26.05	C	O
ATOM	5350	N	ASP	C	375	118.010	117.235	-100.049	1.00	57.71	C	N
ATOM	5351	CA	ASP	C	375	118.549	118.146	-101.052	1.00	57.71	C	C
ATOM	5352	CB	ASP	C	375	118.107	119.584	-100.770	1.00	57.71	C	C
ATOM	5353	CG	ASP	C	375	118.652	120.117	-99.458	1.00	57.71	C	C
ATOM	5354	OD1	ASP	C	375	118.808	119.324	-98.506	1.00	57.71	C	O
ATOM	5355	OD2	ASP	C	375	118.924	121.334	-99.378	1.00	57.71	C	O
ATOM	5356	C	ASP	C	375	120.072	118.066	-101.113	1.00	57.71	C	C
ATOM	5357	O	ASP	C	375	120.677	118.355	-102.145	1.00	57.71	C	O
ATOM	5358	N	MET	C	376	120.684	117.671	-100.001	1.00	56.92	C	N
ATOM	5359	CA	MET	C	376	122.135	117.544	-99.927	1.00	56.92	C	C
ATOM	5360	CB	MET	C	376	122.747	118.770	-99.246	1.00	56.92	C	C
ATOM	5361	CG	MET	C	376	122.481	120.081	-99.968	1.00	56.92	C	C
ATOM	5362	SD	MET	C	376	123.179	121.503	-99.105	1.00	56.92	C	S
ATOM	5363	CE	MET	C	376	124.919	121.082	-99.110	1.00	56.92	C	C
ATOM	5364	C	MET	C	376	122.531	116.277	-99.177	1.00	56.92	C	C
ATOM	5365	O	MET	C	376	122.226	116.125	-97.994	1.00	56.92	C	O
ATOM	5366	N	VAL	C	377	123.211	115.370	-99.870	1.00	110.24	C	N
ATOM	5367	CA	VAL	C	377	123.649	114.116	-99.265	1.00	110.24	C	C
ATOM	5368	CB	VAL	C	377	122.680	112.960	-99.590	1.00	110.24	C	C
ATOM	5369	CG1	VAL	C	377	121.344	113.172	-98.895	1.00	110.24	C	C
ATOM	5370	CG2	VAL	C	377	122.493	112.827	-101.094	1.00	110.24	C	C
ATOM	5371	C	VAL	C	377	125.056	113.735	-99.718	1.00	110.24	C	C
ATOM	5372	O	VAL	C	377	125.396	113.880	-100.892	1.00	110.24	C	O
ATOM	5373	N	PRO	C	378	125.880	113.250	-98.777	1.00	157.59	C	N
ATOM	5374	CA	PRO	C	378	127.249	112.807	-99.063	1.00	157.59	C	C
ATOM	5375	CD	PRO	C	378	125.557	113.153	-97.344	1.00	157.59	C	C
ATOM	5376	CB	PRO	C	378	127.735	112.285	-97.708	1.00	157.59	C	C
ATOM	5377	CG	PRO	C	378	126.903	113.007	-96.705	1.00	157.59	C	C
ATOM	5378	C	PRO	C	378	127.273	111.683	-100.093	1.00	157.59	C	C
ATOM	5379	O	PRO	C	378	126.251	111.033	-100.317	1.00	157.59	C	O
ATOM	5380	N	LYS	C	379	128.430	111.458	-100.708	1.00	201.84	C	N
ATOM	5381	CA	LYS	C	379	128.567	110.416	-101.719	1.00	201.84	C	C
ATOM	5382	CB	LYS	C	379	128.725	111.037	-103.109	1.00	201.84	C	C
ATOM	5383	CG	LYS	C	379	127.572	111.938	-103.522	1.00	201.84	C	C
ATOM	5384	CD	LYS	C	379	126.256	111.177	-103.554	1.00	201.84	C	C
ATOM	5385	CE	LYS	C	379	126.296	110.044	-104.566	1.00	201.84	C	C
ATOM	5386	NZ	LYS	C	379	125.007	109.300	-104.616	1.00	201.84	C	N
ATOM	5387	C	LYS	C	379	129.748	109.498	-101.420	1.00	201.84	C	C
ATOM	5388	O	LYS	C	379	129.694	108.297	-101.685	1.00	201.84	C	O
ATOM	5389	N	THR	C	380	130.813	110.069	-100.866	1.00	144.37	C	N
ATOM	5390	CA	THR	C	380	132.014	109.304	-100.552	1.00	144.37	C	C
ATOM	5391	CB	THR	C	380	133.265	110.202	-100.526	1.00	144.37	C	C
ATOM	5392	OG1	THR	C	380	133.109	111.215	-99.526	1.00	144.37	C	O
ATOM	5393	CG2	THR	C	380	133.477	110.859	-101.881	1.00	144.37	C	C
ATOM	5394	C	THR	C	380	131.888	108.586	-99.212	1.00	144.37	C	C
ATOM	5395	O	THR	C	380	130.906	108.762	-98.491	1.00	144.37	C	O
ATOM	5396	N	ILE	C	381	132.891	107.777	-98.886	1.00	82.77	C	N
ATOM	5397	CA	ILE	C	381	132.902	107.035	-97.631	1.00	82.77	C	C
ATOM	5398	CB	ILE	C	381	133.831	105.804	-97.702	1.00	82.77	C	C
ATOM	5399	CG2	ILE	C	381	134.014	105.193	-96.321	1.00	82.77	C	C
ATOM	5400	CG1	ILE	C	381	133.272	104.756	-98.669	1.00	82.77	C	C
ATOM	5401	CD1	ILE	C	381	133.391	105.130	-100.132	1.00	82.77	C	C
ATOM	5402	C	ILE	C	381	133.340	107.929	-96.476	1.00	82.77	C	C
ATOM	5403	O	ILE	C	381	132.770	107.875	-95.386	1.00	82.77	C	O
ATOM	5404	N	ALA	C	382	134.354	108.753	-96.723	1.00	53.32	C	N
ATOM	5405	CA	ALA	C	382	134.858	109.671	-95.709	1.00	53.32	C	C
ATOM	5406	CB	ALA	C	382	136.051	110.449	-96.243	1.00	53.32	C	C
ATOM	5407	C	ALA	C	382	133.763	110.625	-95.243	1.00	53.32	C	C
ATOM	5408	O	ALA	C	382	133.674	110.953	-94.060	1.00	53.32	C	O
ATOM	5409	N	GLY	C	383	132.931	111.066	-96.182	1.00	35.60	C	N
ATOM	5410	CA	GLY	C	383	131.832	111.959	-95.868	1.00	35.60	C	C

ATOM	5411	C	GLY	C	383	130.667	111.226	-95.232	1.00	35.60	C	C
ATOM	5412	O	GLY	C	383	129.813	111.836	-94.588	1.00	35.60	C	O
ATOM	5413	N	LYS	C	384	130.634	109.911	-95.416	1.00	53.39	C	N
ATOM	5414	CA	LYS	C	384	129.574	109.083	-94.853	1.00	53.39	C	C
ATOM	5415	CB	LYS	C	384	129.529	107.722	-95.551	1.00	53.39	C	C
ATOM	5416	CG	LYS	C	384	128.485	106.771	-94.991	1.00	53.39	C	C
ATOM	5417	CD	LYS	C	384	128.477	105.453	-95.747	1.00	53.39	C	C
ATOM	5418	CE	LYS	C	384	128.164	105.665	-97.220	1.00	53.39	C	C
ATOM	5419	NZ	LYS	C	384	126.837	106.310	-97.418	1.00	53.39	C	N
ATOM	5420	C	LYS	C	384	129.764	108.897	-93.352	1.00	53.39	C	C
ATOM	5421	O	LYS	C	384	128.802	108.930	-92.586	1.00	53.39	C	O
ATOM	5422	N	ILE	C	385	131.012	108.699	-92.940	1.00	33.52	C	N
ATOM	5423	CA	ILE	C	385	131.334	108.517	-91.529	1.00	33.52	C	C
ATOM	5424	CB	ILE	C	385	132.791	108.056	-91.339	1.00	33.52	C	C
ATOM	5425	CG2	ILE	C	385	133.102	107.866	-89.863	1.00	33.52	C	C
ATOM	5426	CG1	ILE	C	385	133.047	106.763	-92.116	1.00	33.52	C	C
ATOM	5427	CD1	ILE	C	385	134.464	106.246	-91.991	1.00	33.52	C	C
ATOM	5428	C	ILE	C	385	131.113	109.808	-90.749	1.00	33.52	C	C
ATOM	5429	O	ILE	C	385	130.535	109.797	-89.662	1.00	33.52	C	O
ATOM	5430	N	PHE	C	386	131.577	110.919	-91.311	1.00	111.88	C	N
ATOM	5431	CA	PHE	C	386	131.426	112.222	-90.674	1.00	111.88	C	C
ATOM	5432	CB	PHE	C	386	132.233	113.283	-91.426	1.00	111.88	C	C
ATOM	5433	CG	PHE	C	386	133.709	113.006	-91.466	1.00	111.88	C	C
ATOM	5434	CD1	PHE	C	386	134.309	112.230	-90.488	1.00	111.88	C	C
ATOM	5435	CD2	PHE	C	386	134.496	113.520	-92.483	1.00	111.88	C	C
ATOM	5436	CE1	PHE	C	386	135.667	111.973	-90.523	1.00	111.88	C	C
ATOM	5437	CE2	PHE	C	386	135.854	113.267	-92.523	1.00	111.88	C	C
ATOM	5438	CZ	PHE	C	386	136.441	112.492	-91.542	1.00	111.88	C	C
ATOM	5439	C	PHE	C	386	129.958	112.630	-90.602	1.00	111.88	C	C
ATOM	5440	O	PHE	C	386	129.537	113.307	-89.664	1.00	111.88	C	O
ATOM	5441	N	GLY	C	387	129.184	112.211	-91.597	1.00	27.68	C	N
ATOM	5442	CA	GLY	C	387	127.764	112.509	-91.636	1.00	27.68	C	C
ATOM	5443	C	GLY	C	387	127.001	111.792	-90.540	1.00	27.68	C	C
ATOM	5444	O	GLY	C	387	125.956	112.259	-90.088	1.00	27.68	C	O
ATOM	5445	N	SER	C	388	127.529	110.650	-90.111	1.00	31.06	C	N
ATOM	5446	CA	SER	C	388	126.908	109.871	-89.048	1.00	31.06	C	C
ATOM	5447	CB	SER	C	388	127.392	108.420	-89.093	1.00	31.06	C	C
ATOM	5448	OG	SER	C	388	127.072	107.814	-90.334	1.00	31.06	C	O
ATOM	5449	C	SER	C	388	127.205	110.479	-87.682	1.00	31.06	C	C
ATOM	5450	O	SER	C	388	126.325	110.565	-86.825	1.00	31.06	C	O
ATOM	5451	N	ILE	C	389	128.450	110.900	-87.486	1.00	33.86	C	N
ATOM	5452	CA	ILE	C	389	128.863	111.517	-86.231	1.00	33.86	C	C
ATOM	5453	CB	ILE	C	389	130.387	111.741	-86.188	1.00	33.86	C	C
ATOM	5454	CG2	ILE	C	389	130.801	112.346	-84.854	1.00	33.86	C	C
ATOM	5455	CG1	ILE	C	389	131.126	110.425	-86.438	1.00	33.86	C	C
ATOM	5456	CD1	ILE	C	389	132.634	110.555	-86.415	1.00	33.86	C	C
ATOM	5457	C	ILE	C	389	128.155	112.852	-86.026	1.00	33.86	C	C
ATOM	5458	O	ILE	C	389	127.815	113.220	-84.902	1.00	33.86	C	O
ATOM	5459	N	CYS	C	390	127.934	113.571	-87.122	1.00	36.22	C	N
ATOM	5460	CA	CYS	C	390	127.256	114.860	-87.072	1.00	36.22	C	C
ATOM	5461	CB	CYS	C	390	127.263	115.522	-88.451	1.00	36.22	C	C
ATOM	5462	SG	CYS	C	390	126.442	117.132	-88.513	1.00	36.22	C	S
ATOM	5463	C	CYS	C	390	125.823	114.708	-86.573	1.00	36.22	C	C
ATOM	5464	O	CYS	C	390	125.283	115.604	-85.923	1.00	36.22	C	O
ATOM	5465	N	SER	C	391	125.213	113.569	-86.883	1.00	67.70	C	N
ATOM	5466	CA	SER	C	391	123.845	113.294	-86.461	1.00	67.70	C	C
ATOM	5467	CB	SER	C	391	123.218	112.216	-87.348	1.00	67.70	C	C
ATOM	5468	OG	SER	C	391	121.882	111.950	-86.956	1.00	67.70	C	O
ATOM	5469	C	SER	C	391	123.799	112.863	-84.999	1.00	67.70	C	C
ATOM	5470	O	SER	C	391	122.885	113.232	-84.261	1.00	67.70	C	O
ATOM	5471	N	LEU	C	392	124.791	112.081	-84.586	1.00	41.51	C	N
ATOM	5472	CA	LEU	C	392	124.874	111.614	-83.208	1.00	41.51	C	C
ATOM	5473	CB	LEU	C	392	125.968	110.554	-83.065	1.00	41.51	C	C
ATOM	5474	CG	LEU	C	392	125.789	109.283	-83.897	1.00	41.51	C	C
ATOM	5475	CD1	LEU	C	392	126.966	108.340	-83.699	1.00	41.51	C	C
ATOM	5476	CD2	LEU	C	392	124.480	108.594	-83.547	1.00	41.51	C	C
ATOM	5477	C	LEU	C	392	125.141	112.775	-82.257	1.00	41.51	C	C
ATOM	5478	O	LEU	C	392	124.464	112.927	-81.240	1.00	41.51	C	O

ATOM	5479	N	SER	C	393	126.132	113.593	-82.597	1.00	31.53	C	N
ATOM	5480	CA	SER	C	393	126.470	114.761	-81.794	1.00	31.53	C	C
ATOM	5481	CB	SER	C	393	127.754	115.413	-82.310	1.00	31.53	C	C
ATOM	5482	OG	SER	C	393	128.845	114.510	-82.249	1.00	31.53	C	O
ATOM	5483	C	SER	C	393	125.328	115.770	-81.806	1.00	31.53	C	C
ATOM	5484	O	SER	C	393	125.129	116.508	-80.842	1.00	31.53	C	O
ATOM	5485	N	GLY	C	394	124.580	115.795	-82.904	1.00	30.12	C	N
ATOM	5486	CA	GLY	C	394	123.451	116.696	-83.039	1.00	30.12	C	C
ATOM	5487	C	GLY	C	394	122.387	116.444	-81.990	1.00	30.12	C	C
ATOM	5488	O	GLY	C	394	121.830	117.382	-81.420	1.00	30.12	C	O
ATOM	5489	N	VAL	C	395	122.105	115.171	-81.734	1.00	95.83	C	N
ATOM	5490	CA	VAL	C	395	121.114	114.792	-80.734	1.00	95.83	C	C
ATOM	5491	CB	VAL	C	395	120.785	113.289	-80.806	1.00	95.83	C	C
ATOM	5492	CG1	VAL	C	395	119.773	112.915	-79.734	1.00	95.83	C	C
ATOM	5493	CG2	VAL	C	395	120.264	112.926	-82.189	1.00	95.83	C	C
ATOM	5494	C	VAL	C	395	121.602	115.135	-79.331	1.00	95.83	C	C
ATOM	5495	O	VAL	C	395	120.832	115.602	-78.492	1.00	95.83	C	O
ATOM	5496	N	LEU	C	396	122.887	114.905	-79.084	1.00	88.54	C	N
ATOM	5497	CA	LEU	C	396	123.483	115.183	-77.783	1.00	88.54	C	C
ATOM	5498	CB	LEU	C	396	124.912	114.639	-77.722	1.00	88.54	C	C
ATOM	5499	CG	LEU	C	396	125.085	113.131	-77.912	1.00	88.54	C	C
ATOM	5500	CD1	LEU	C	396	126.559	112.766	-78.010	1.00	88.54	C	C
ATOM	5501	CD2	LEU	C	396	124.415	112.366	-76.782	1.00	88.54	C	C
ATOM	5502	C	LEU	C	396	123.484	116.677	-77.476	1.00	88.54	C	C
ATOM	5503	O	LEU	C	396	122.923	117.115	-76.472	1.00	88.54	C	O
ATOM	5504	N	VAL	C	397	124.118	117.452	-78.351	1.00	41.21	C	N
ATOM	5505	CA	VAL	C	397	124.248	118.894	-78.163	1.00	41.21	C	C
ATOM	5506	CB	VAL	C	397	124.887	119.565	-79.397	1.00	41.21	C	C
ATOM	5507	CG1	VAL	C	397	124.815	121.079	-79.276	1.00	41.21	C	C
ATOM	5508	CG2	VAL	C	397	126.326	119.103	-79.568	1.00	41.21	C	C
ATOM	5509	C	VAL	C	397	122.914	119.572	-77.861	1.00	41.21	C	C
ATOM	5510	O	VAL	C	397	122.824	120.406	-76.961	1.00	41.21	C	O
ATOM	5511	N	ILE	C	398	121.882	119.210	-78.615	1.00	120.02	C	N
ATOM	5512	CA	ILE	C	398	120.569	119.826	-78.458	1.00	120.02	C	C
ATOM	5513	CB	ILE	C	398	119.668	119.558	-79.681	1.00	120.02	C	C
ATOM	5514	CG2	ILE	C	398	118.292	120.171	-79.474	1.00	120.02	C	C
ATOM	5515	CG1	ILE	C	398	120.315	120.111	-80.951	1.00	120.02	C	C
ATOM	5516	CD1	ILE	C	398	119.497	119.882	-82.203	1.00	120.02	C	C
ATOM	5517	C	ILE	C	398	119.854	119.353	-77.195	1.00	120.02	C	C
ATOM	5518	O	ILE	C	398	119.192	120.139	-76.517	1.00	120.02	C	O
ATOM	5519	N	ALA	C	399	119.995	118.070	-76.878	1.00	64.31	C	N
ATOM	5520	CA	ALA	C	399	119.289	117.481	-75.743	1.00	64.31	C	C
ATOM	5521	CB	ALA	C	399	119.174	115.972	-75.916	1.00	64.31	C	C
ATOM	5522	C	ALA	C	399	119.934	117.816	-74.399	1.00	64.31	C	C
ATOM	5523	O	ALA	C	399	119.707	117.122	-73.409	1.00	64.31	C	O
ATOM	5524	N	LEU	C	400	120.733	118.878	-74.365	1.00	75.94	C	N
ATOM	5525	CA	LEU	C	400	121.385	119.296	-73.126	1.00	75.94	C	C
ATOM	5526	CB	LEU	C	400	122.895	119.467	-73.328	1.00	75.94	C	C
ATOM	5527	CG	LEU	C	400	123.685	118.213	-73.706	1.00	75.94	C	C
ATOM	5528	CD1	LEU	C	400	125.145	118.555	-73.961	1.00	75.94	C	C
ATOM	5529	CD2	LEU	C	400	123.561	117.150	-72.625	1.00	75.94	C	C
ATOM	5530	C	LEU	C	400	120.770	120.568	-72.537	1.00	75.94	C	C
ATOM	5531	O	LEU	C	400	120.375	120.581	-71.371	1.00	75.94	C	O
ATOM	5532	N	PRO	C	401	120.691	121.645	-73.337	1.00	77.22	C	N
ATOM	5533	CA	PRO	C	401	120.095	122.889	-72.838	1.00	77.22	C	C
ATOM	5534	CD	PRO	C	401	121.245	121.814	-74.690	1.00	77.22	C	C
ATOM	5535	CB	PRO	C	401	120.433	123.907	-73.936	1.00	77.22	C	C
ATOM	5536	CG	PRO	C	401	121.528	123.276	-74.741	1.00	77.22	C	C
ATOM	5537	C	PRO	C	401	118.582	122.773	-72.688	1.00	77.22	C	C
ATOM	5538	O	PRO	C	401	117.995	123.440	-71.836	1.00	77.22	C	O
ATOM	5539	N	VAL	C	402	117.964	121.933	-73.513	1.00	140.00	C	N
ATOM	5540	CA	VAL	C	402	116.513	121.771	-73.499	1.00	140.00	C	C
ATOM	5541	CB	VAL	C	402	116.033	120.797	-74.598	1.00	140.00	C	C
ATOM	5542	CG1	VAL	C	402	114.535	120.563	-74.482	1.00	140.00	C	C
ATOM	5543	CG2	VAL	C	402	116.391	121.332	-75.974	1.00	140.00	C	C
ATOM	5544	C	VAL	C	402	115.970	121.324	-72.139	1.00	140.00	C	C
ATOM	5545	O	VAL	C	402	115.084	121.975	-71.586	1.00	140.00	C	O
ATOM	5546	N	PRO	C	403	116.498	120.214	-71.594	1.00	65.75	C	N

ATOM	5547	CA	PRO	C	403	116.001	119.706	-70.310	1.00	65.75	C	C
ATOM	5548	CD	PRO	C	403	117.573	119.365	-72.138	1.00	65.75	C	C
ATOM	5549	CB	PRO	C	403	117.015	118.618	-69.954	1.00	65.75	C	C
ATOM	5550	CG	PRO	C	403	117.517	118.143	-71.267	1.00	65.75	C	C
ATOM	5551	C	PRO	C	403	115.980	120.780	-69.226	1.00	65.75	C	C
ATOM	5552	O	PRO	C	403	115.058	120.810	-68.411	1.00	65.75	C	O
ATOM	5553	N	VAL	C	404	116.987	121.647	-69.220	1.00	38.19	C	N
ATOM	5554	CA	VAL	C	404	117.064	122.720	-68.236	1.00	38.19	C	C
ATOM	5555	CB	VAL	C	404	118.413	123.460	-68.313	1.00	38.19	C	C
ATOM	5556	CG1	VAL	C	404	118.461	124.582	-67.287	1.00	38.19	C	C
ATOM	5557	CG2	VAL	C	404	119.562	122.488	-68.100	1.00	38.19	C	C
ATOM	5558	C	VAL	C	404	115.931	123.721	-68.433	1.00	38.19	C	C
ATOM	5559	O	VAL	C	404	115.298	124.155	-67.471	1.00	38.19	C	O
ATOM	5560	N	ILE	C	405	115.680	124.082	-69.687	1.00	45.11	C	N
ATOM	5561	CA	ILE	C	405	114.608	125.012	-70.019	1.00	45.11	C	C
ATOM	5562	CB	ILE	C	405	114.654	125.412	-71.507	1.00	45.11	C	C
ATOM	5563	CG2	ILE	C	405	113.551	126.407	-71.828	1.00	45.11	C	C
ATOM	5564	CG1	ILE	C	405	116.024	125.993	-71.860	1.00	45.11	C	C
ATOM	5565	CD1	ILE	C	405	116.155	126.416	-73.308	1.00	45.11	C	C
ATOM	5566	C	ILE	C	405	113.246	124.403	-69.702	1.00	45.11	C	C
ATOM	5567	O	ILE	C	405	112.309	125.110	-69.330	1.00	45.11	C	O
ATOM	5568	N	VAL	C	406	113.146	123.086	-69.850	1.00	96.58	C	N
ATOM	5569	CA	VAL	C	406	111.903	122.374	-69.578	1.00	96.58	C	C
ATOM	5570	CB	VAL	C	406	111.998	120.894	-69.994	1.00	96.58	C	C
ATOM	5571	CG1	VAL	C	406	110.730	120.151	-69.605	1.00	96.58	C	C
ATOM	5572	CG2	VAL	C	406	112.255	120.779	-71.488	1.00	96.58	C	C
ATOM	5573	C	VAL	C	406	111.530	122.453	-68.101	1.00	96.58	C	C
ATOM	5574	O	VAL	C	406	110.380	122.722	-67.756	1.00	96.58	C	O
ATOM	5575	N	SER	C	407	112.511	122.216	-67.236	1.00	31.59	C	N
ATOM	5576	CA	SER	C	407	112.290	122.256	-65.795	1.00	31.59	C	C
ATOM	5577	CB	SER	C	407	113.584	121.931	-65.046	1.00	31.59	C	C
ATOM	5578	OG	SER	C	407	113.381	121.945	-63.644	1.00	31.59	C	O
ATOM	5579	C	SER	C	407	111.756	123.614	-65.354	1.00	31.59	C	C
ATOM	5580	O	SER	C	407	110.927	123.702	-64.448	1.00	31.59	C	O
ATOM	5581	N	ASN	C	408	112.236	124.671	-66.001	1.00	49.82	C	N
ATOM	5582	CA	ASN	C	408	111.797	126.026	-65.688	1.00	49.82	C	C
ATOM	5583	CB	ASN	C	408	112.836	127.048	-66.154	1.00	49.82	C	C
ATOM	5584	CG	ASN	C	408	114.180	126.860	-65.479	1.00	49.82	C	C
ATOM	5585	OD1	ASN	C	408	114.255	126.415	-64.334	1.00	49.82	C	O
ATOM	5586	ND2	ASN	C	408	115.251	127.197	-66.187	1.00	49.82	C	N
ATOM	5587	C	ASN	C	408	110.437	126.340	-66.301	1.00	49.82	C	C
ATOM	5588	O	ASN	C	408	109.665	127.127	-65.753	1.00	49.82	C	O
ATOM	5589	N	PHE	C	409	110.149	125.718	-67.439	1.00	43.30	C	N
ATOM	5590	CA	PHE	C	409	108.873	125.912	-68.118	1.00	43.30	C	C
ATOM	5591	CB	PHE	C	409	108.913	125.298	-69.519	1.00	43.30	C	C
ATOM	5592	CG	PHE	C	409	107.628	125.446	-70.284	1.00	43.30	C	C
ATOM	5593	CD1	PHE	C	409	107.373	126.590	-71.022	1.00	43.30	C	C
ATOM	5594	CD2	PHE	C	409	106.676	124.440	-70.267	1.00	43.30	C	C
ATOM	5595	CE1	PHE	C	409	106.193	126.729	-71.727	1.00	43.30	C	C
ATOM	5596	CE2	PHE	C	409	105.493	124.573	-70.970	1.00	43.30	C	C
ATOM	5597	CZ	PHE	C	409	105.252	125.719	-71.701	1.00	43.30	C	C
ATOM	5598	C	PHE	C	409	107.728	125.311	-67.311	1.00	43.30	C	C
ATOM	5599	O	PHE	C	409	106.672	125.925	-67.161	1.00	43.30	C	O
ATOM	5600	N	SER	C	410	107.944	124.106	-66.793	1.00	71.88	C	N
ATOM	5601	CA	SER	C	410	106.938	123.430	-65.983	1.00	71.88	C	C
ATOM	5602	CB	SER	C	410	107.300	121.955	-65.796	1.00	71.88	C	C
ATOM	5603	OG	SER	C	410	107.377	121.286	-67.042	1.00	71.88	C	O
ATOM	5604	C	SER	C	410	106.789	124.110	-64.626	1.00	71.88	C	C
ATOM	5605	O	SER	C	410	105.737	124.030	-63.993	1.00	71.88	C	O
ATOM	5606	N	ARG	C	411	107.850	124.780	-64.188	1.00	148.46	C	N
ATOM	5607	CA	ARG	C	411	107.838	125.490	-62.915	1.00	148.46	C	C
ATOM	5608	CB	ARG	C	411	109.255	125.915	-62.527	1.00	148.46	C	C
ATOM	5609	CG	ARG	C	411	109.337	126.690	-61.222	1.00	148.46	C	C
ATOM	5610	CD	ARG	C	411	110.769	127.094	-60.910	1.00	148.46	C	C
ATOM	5611	NE	ARG	C	411	110.865	127.854	-59.667	1.00	148.46	C	N
ATOM	5612	CZ	ARG	C	411	110.773	129.177	-59.591	1.00	148.46	C	C
ATOM	5613	NH1	ARG	C	411	110.581	129.894	-60.690	1.00	148.46	C	N
ATOM	5614	NH2	ARG	C	411	110.872	129.786	-58.417	1.00	148.46	C	N

ATOM	5615	C	ARG	C	411	106.925	126.709	-62.980	1.00	148.46	C	C
ATOM	5616	O	ARG	C	411	106.092	126.922	-62.099	1.00	148.46	C	O
ATOM	5617	N	ILE	C	412	107.088	127.507	-64.031	1.00	95.71	C	N
ATOM	5618	CA	ILE	C	412	106.272	128.700	-64.224	1.00	95.71	C	C
ATOM	5619	CB	ILE	C	412	106.815	129.574	-65.371	1.00	95.71	C	C
ATOM	5620	CG2	ILE	C	412	105.970	130.828	-65.535	1.00	95.71	C	C
ATOM	5621	CG1	ILE	C	412	108.279	129.939	-65.118	1.00	95.71	C	C
ATOM	5622	CD1	ILE	C	412	108.502	130.719	-63.840	1.00	95.71	C	C
ATOM	5623	C	ILE	C	412	104.823	128.328	-64.521	1.00	95.71	C	C
ATOM	5624	O	ILE	C	412	103.895	129.012	-64.088	1.00	95.71	C	O
ATOM	5625	N	TYR	C	413	104.638	127.240	-65.260	1.00	110.37	C	N
ATOM	5626	CA	TYR	C	413	103.304	126.774	-65.618	1.00	110.37	C	C
ATOM	5627	CB	TYR	C	413	103.391	125.595	-66.589	1.00	110.37	C	C
ATOM	5628	CG	TYR	C	413	102.048	125.093	-67.070	1.00	110.37	C	C
ATOM	5629	CD1	TYR	C	413	101.469	125.602	-68.225	1.00	110.37	C	C
ATOM	5630	CD2	TYR	C	413	101.360	124.111	-66.370	1.00	110.37	C	C
ATOM	5631	CE1	TYR	C	413	100.242	125.147	-68.669	1.00	110.37	C	C
ATOM	5632	CE2	TYR	C	413	100.132	123.650	-66.806	1.00	110.37	C	C
ATOM	5633	CZ	TYR	C	413	99.578	124.171	-67.956	1.00	110.37	C	C
ATOM	5634	OH	TYR	C	413	98.356	123.714	-68.393	1.00	110.37	C	O
ATOM	5635	C	TYR	C	413	102.508	126.376	-64.379	1.00	110.37	C	C
ATOM	5636	O	TYR	C	413	101.364	126.796	-64.204	1.00	110.37	C	O
ATOM	5637	N	HIS	C	414	103.122	125.566	-63.523	1.00	72.45	C	N
ATOM	5638	CA	HIS	C	414	102.472	125.109	-62.299	1.00	72.45	C	C
ATOM	5639	ND1	HIS	C	414	102.882	122.480	-63.750	1.00	72.45	C	N
ATOM	5640	CG	HIS	C	414	103.380	122.751	-62.520	1.00	72.45	C	C
ATOM	5641	CB	HIS	C	414	103.271	123.971	-61.659	1.00	72.45	C	C
ATOM	5642	NE2	HIS	C	414	104.001	120.714	-63.085	1.00	72.45	C	N
ATOM	5643	CD2	HIS	C	414	104.075	121.626	-62.131	1.00	72.45	C	C
ATOM	5644	CE1	HIS	C	414	103.283	121.207	-64.078	1.00	72.45	C	C
ATOM	5645	C	HIS	C	414	102.297	126.253	-61.306	1.00	72.45	C	C
ATOM	5646	O	HIS	C	414	101.426	126.206	-60.437	1.00	72.45	C	O
ATOM	5647	N	GLN	C	415	103.131	127.279	-61.440	1.00	74.19	C	N
ATOM	5648	CA	GLN	C	415	103.063	128.441	-60.563	1.00	74.19	C	C
ATOM	5649	CB	GLN	C	415	104.326	129.293	-60.702	1.00	74.19	C	C
ATOM	5650	CG	GLN	C	415	104.345	130.528	-59.816	1.00	74.19	C	C
ATOM	5651	CD	GLN	C	415	105.624	131.327	-59.962	1.00	74.19	C	C
ATOM	5652	OE1	GLN	C	415	106.502	130.977	-60.750	1.00	74.19	C	O
ATOM	5653	NE2	GLN	C	415	105.736	132.409	-59.199	1.00	74.19	C	N
ATOM	5654	C	GLN	C	415	101.827	129.281	-60.867	1.00	74.19	C	C
ATOM	5655	O	GLN	C	415	101.190	129.819	-59.961	1.00	74.19	C	O
ATOM	5656	N	ASN	C	416	101.493	129.387	-62.150	1.00	34.42	C	N
ATOM	5657	CA	ASN	C	416	100.330	130.154	-62.580	1.00	34.42	C	C
ATOM	5658	CB	ASN	C	416	100.490	130.591	-64.039	1.00	34.42	C	C
ATOM	5659	CG	ASN	C	416	99.432	131.590	-64.471	1.00	34.42	C	C
ATOM	5660	ND1	ASN	C	416	98.313	131.591	-63.957	1.00	34.42	C	O
ATOM	5661	ND2	ASN	C	416	99.783	132.448	-65.421	1.00	34.42	C	N
ATOM	5662	C	ASN	C	416	99.039	129.360	-62.404	1.00	34.42	C	C
ATOM	5663	O	ASN	C	416	98.049	129.871	-61.878	1.00	34.42	C	O
ATOM	5664	N	GLN	C	417	99.060	128.106	-62.844	1.00	41.97	C	N
ATOM	5665	CA	GLN	C	417	97.891	127.239	-62.746	1.00	41.97	C	C
ATOM	5666	CB	GLN	C	417	98.136	125.927	-63.495	1.00	41.97	C	C
ATOM	5667	CG	GLN	C	417	96.959	124.965	-63.472	1.00	41.97	C	C
ATOM	5668	CD	GLN	C	417	95.761	125.486	-64.243	1.00	41.97	C	C
ATOM	5669	OE1	GLN	C	417	95.999	126.444	-65.131	1.00	41.97	C	O
ATOM	5670	NE2	GLN	C	417	94.635	125.028	-64.047	1.00	41.97	C	N
ATOM	5671	C	GLN	C	417	97.538	126.954	-61.290	1.00	41.97	C	C
ATOM	5672	O	GLN	C	417	98.408	126.920	-60.421	1.00	41.97	C	O
ATOM	5673	OXT	GLN	C	417	96.374	126.750	-60.946	1.00	41.97	C	O
TER												
ATOM	5674	N	PHE	D	175	147.910	136.865	-69.219	1.00	80.84	D	N
ATOM	5675	CA	PHE	D	175	147.759	135.883	-70.286	1.00	80.84	D	C
ATOM	5676	CB	PHE	D	175	149.125	135.337	-70.708	1.00	80.84	D	C
ATOM	5677	CG	PHE	D	175	150.073	136.393	-71.198	1.00	80.84	D	C
ATOM	5678	CD1	PHE	D	175	150.076	136.777	-72.529	1.00	80.84	D	C
ATOM	5679	CD2	PHE	D	175	150.961	137.004	-70.328	1.00	80.84	D	C
ATOM	5680	CE1	PHE	D	175	150.947	137.749	-72.983	1.00	80.84	D	C
ATOM	5681	CE2	PHE	D	175	151.835	137.976	-70.776	1.00	80.84	D	C

ATOM	5682	CZ	PHE	D	175	151.827	138.349	-72.105	1.00	80.84	D	C
ATOM	5683	C	PHE	D	175	146.848	134.738	-69.856	1.00	80.84	D	C
ATOM	5684	O	PHE	D	175	146.375	133.963	-70.686	1.00	80.84	D	O
ATOM	5685	N	GLU	D	176	146.606	134.640	-68.553	1.00	133.93	D	N
ATOM	5686	CA	GLU	D	176	145.752	133.591	-68.010	1.00	133.93	D	C
ATOM	5687	CB	GLU	D	176	146.543	132.699	-67.050	1.00	133.93	D	C
ATOM	5688	CG	GLU	D	176	147.732	131.999	-67.688	1.00	133.93	D	C
ATOM	5689	CD	GLU	D	176	148.484	131.116	-66.711	1.00	133.93	D	C
ATOM	5690	OE1	GLU	D	176	148.079	131.055	-65.531	1.00	133.93	D	O
ATOM	5691	OE2	GLU	D	176	149.479	130.484	-67.122	1.00	133.93	D	O
ATOM	5692	C	GLU	D	176	144.541	134.184	-67.297	1.00	133.93	D	C
ATOM	5693	O	GLU	D	176	143.525	133.513	-67.114	1.00	133.93	D	O
ATOM	5694	N	ASN	D	177	144.656	135.447	-66.899	1.00	62.69	D	N
ATOM	5695	CA	ASN	D	177	143.574	136.132	-66.202	1.00	62.69	D	C
ATOM	5696	CB	ASN	D	177	143.905	136.281	-64.716	1.00	62.69	D	C
ATOM	5697	CG	ASN	D	177	144.130	134.947	-64.032	1.00	62.69	D	C
ATOM	5698	OD1	ASN	D	177	143.197	134.340	-63.506	1.00	62.69	D	O
ATOM	5699	ND2	ASN	D	177	145.374	134.482	-64.036	1.00	62.69	D	N
ATOM	5700	C	ASN	D	177	143.268	137.497	-66.811	1.00	62.69	D	C
ATOM	5701	O	ASN	D	177	143.780	138.516	-66.348	1.00	62.69	D	O
ATOM	5702	N	PRO	D	178	142.430	137.517	-67.857	1.00	73.65	D	N
ATOM	5703	CA	PRO	D	178	142.033	138.751	-68.545	1.00	73.65	D	C
ATOM	5704	CD	PRO	D	178	141.851	136.321	-68.493	1.00	73.65	D	C
ATOM	5705	CB	PRO	D	178	141.073	138.252	-69.630	1.00	73.65	D	C
ATOM	5706	CG	PRO	D	178	141.444	136.824	-69.841	1.00	73.65	D	C
ATOM	5707	C	PRO	D	178	141.307	139.719	-67.616	1.00	73.65	D	C
ATOM	5708	O	PRO	D	178	141.160	140.895	-67.947	1.00	73.65	D	O
ATOM	5709	N	HIS	D	179	140.858	139.224	-66.467	1.00	64.97	D	N
ATOM	5710	CA	HIS	D	179	140.129	140.049	-65.510	1.00	64.97	D	C
ATOM	5711	ND1	HIS	D	179	138.399	137.615	-66.536	1.00	64.97	D	N
ATOM	5712	CG	HIS	D	179	138.093	138.536	-65.557	1.00	64.97	D	C
ATOM	5713	CB	HIS	D	179	139.138	139.197	-64.713	1.00	64.97	D	C
ATOM	5714	NE2	HIS	D	179	136.267	137.821	-66.544	1.00	64.97	D	N
ATOM	5715	CD2	HIS	D	179	136.745	138.661	-65.567	1.00	64.97	D	C
ATOM	5716	CE1	HIS	D	179	137.285	137.202	-67.113	1.00	64.97	D	C
ATOM	5717	C	HIS	D	179	141.071	140.780	-64.559	1.00	64.97	D	C
ATOM	5718	O	HIS	D	179	140.627	141.434	-63.615	1.00	64.97	D	O
ATOM	5719	N	THR	D	180	142.371	140.666	-64.811	1.00	98.23	D	N
ATOM	5720	CA	THR	D	180	143.371	141.321	-63.975	1.00	98.23	D	C
ATOM	5721	CB	THR	D	180	144.792	140.818	-64.289	1.00	98.23	D	C
ATOM	5722	OG1	THR	D	180	144.888	139.423	-63.977	1.00	98.23	D	O
ATOM	5723	CG2	THR	D	180	145.820	141.586	-63.472	1.00	98.23	D	C
ATOM	5724	C	THR	D	180	143.329	142.837	-64.142	1.00	98.23	D	C
ATOM	5725	O	THR	D	180	143.224	143.576	-63.163	1.00	98.23	D	O
ATOM	5726	N	SER	D	181	143.411	143.293	-65.387	1.00	37.88	D	N
ATOM	5727	CA	SER	D	181	143.387	144.720	-65.682	1.00	37.88	D	C
ATOM	5728	CB	SER	D	181	144.796	145.310	-65.588	1.00	37.88	D	C
ATOM	5729	OG	SER	D	181	145.677	144.674	-66.498	1.00	37.88	D	O
ATOM	5730	C	SER	D	181	142.798	144.989	-67.062	1.00	37.88	D	C
ATOM	5731	O	SER	D	181	142.346	144.070	-67.744	1.00	37.88	D	O
ATOM	5732	N	THR	D	182	142.806	146.255	-67.466	1.00	92.23	D	N
ATOM	5733	CA	THR	D	182	142.281	146.648	-68.768	1.00	92.23	D	C
ATOM	5734	CB	THR	D	182	142.204	148.179	-68.908	1.00	92.23	D	C
ATOM	5735	OG1	THR	D	182	141.350	148.713	-67.888	1.00	92.23	D	O
ATOM	5736	CG2	THR	D	182	141.654	148.563	-70.274	1.00	92.23	D	C
ATOM	5737	C	THR	D	182	143.138	146.085	-69.897	1.00	92.23	D	C
ATOM	5738	O	THR	D	182	142.617	145.557	-70.880	1.00	92.23	D	O
ATOM	5739	N	MET	D	183	144.454	146.202	-69.749	1.00	58.27	D	N
ATOM	5740	CA	MET	D	183	145.385	145.693	-70.749	1.00	58.27	D	C
ATOM	5741	CB	MET	D	183	146.823	146.063	-70.382	1.00	58.27	D	C
ATOM	5742	CG	MET	D	183	147.076	147.560	-70.296	1.00	58.27	D	C
ATOM	5743	SD	MET	D	183	148.787	147.959	-69.891	1.00	58.27	D	S
ATOM	5744	CE	MET	D	183	149.646	147.217	-71.277	1.00	58.27	D	C
ATOM	5745	C	MET	D	183	145.252	144.181	-70.896	1.00	58.27	D	C
ATOM	5746	O	MET	D	183	145.442	143.634	-71.982	1.00	58.27	D	O
ATOM	5747	N	ALA	D	184	144.924	143.512	-69.796	1.00	28.36	D	N
ATOM	5748	CA	ALA	D	184	144.733	142.067	-69.807	1.00	28.36	D	C
ATOM	5749	CB	ALA	D	184	144.619	141.535	-68.388	1.00	28.36	D	C

ATOM	5750	C	ALA	D	184	143.497	141.695	-70.618	1.00	28.36	D	C
ATOM	5751	O	ALA	D	184	143.432	140.619	-71.213	1.00	28.36	D	O
ATOM	5752	N	LEU	D	185	142.517	142.593	-70.637	1.00	114.45	D	N
ATOM	5753	CA	LEU	D	185	141.292	142.374	-71.394	1.00	114.45	D	C
ATOM	5754	CB	LEU	D	185	140.163	143.256	-70.855	1.00	114.45	D	C
ATOM	5755	CG	LEU	D	185	138.780	143.057	-71.479	1.00	114.45	D	C
ATOM	5756	CD1	LEU	D	185	138.314	141.620	-71.305	1.00	114.45	D	C
ATOM	5757	CD2	LEU	D	185	137.776	144.026	-70.875	1.00	114.45	D	C
ATOM	5758	C	LEU	D	185	141.518	142.655	-72.876	1.00	114.45	D	C
ATOM	5759	O	LEU	D	185	140.833	142.101	-73.735	1.00	114.45	D	O
ATOM	5760	N	VAL	D	186	142.484	143.520	-73.167	1.00	33.25	D	N
ATOM	5761	CA	VAL	D	186	142.825	143.852	-74.545	1.00	33.25	D	C
ATOM	5762	CB	VAL	D	186	143.855	144.994	-74.614	1.00	33.25	D	C
ATOM	5763	CG1	VAL	D	186	144.273	145.245	-76.054	1.00	33.25	D	C
ATOM	5764	CG2	VAL	D	186	143.285	146.259	-73.990	1.00	33.25	D	C
ATOM	5765	C	VAL	D	186	143.380	142.630	-75.268	1.00	33.25	D	C
ATOM	5766	O	VAL	D	186	142.973	142.319	-76.387	1.00	33.25	D	O
ATOM	5767	N	PHE	D	187	144.310	141.940	-74.616	1.00	90.63	D	N
ATOM	5768	CA	PHE	D	187	144.911	140.737	-75.177	1.00	90.63	D	C
ATOM	5769	CB	PHE	D	187	146.038	140.234	-74.272	1.00	90.63	D	C
ATOM	5770	CG	PHE	D	187	146.763	139.035	-74.813	1.00	90.63	D	C
ATOM	5771	CD1	PHE	D	187	147.803	139.187	-75.714	1.00	90.63	D	C
ATOM	5772	CD2	PHE	D	187	146.408	137.756	-74.416	1.00	90.63	D	C
ATOM	5773	CE1	PHE	D	187	148.474	138.086	-76.212	1.00	90.63	D	C
ATOM	5774	CE2	PHE	D	187	147.075	136.651	-74.911	1.00	90.63	D	C
ATOM	5775	CZ	PHE	D	187	148.110	136.817	-75.811	1.00	90.63	D	C
ATOM	5776	C	PHE	D	187	143.862	139.646	-75.371	1.00	90.63	D	C
ATOM	5777	O	PHE	D	187	144.048	138.726	-76.167	1.00	90.63	D	O
ATOM	5778	N	TYR	D	188	142.759	139.758	-74.638	1.00	111.20	D	N
ATOM	5779	CA	TYR	D	188	141.671	138.792	-74.731	1.00	111.20	D	C
ATOM	5780	CB	TYR	D	188	140.692	138.977	-73.570	1.00	111.20	D	C
ATOM	5781	CG	TYR	D	188	139.513	138.029	-73.595	1.00	111.20	D	C
ATOM	5782	CD1	TYR	D	188	139.600	136.766	-73.025	1.00	111.20	D	C
ATOM	5783	CD2	TYR	D	188	138.311	138.400	-74.183	1.00	111.20	D	C
ATOM	5784	CE1	TYR	D	188	138.524	135.898	-73.044	1.00	111.20	D	C
ATOM	5785	CE2	TYR	D	188	137.231	137.539	-74.207	1.00	111.20	D	C
ATOM	5786	CZ	TYR	D	188	137.343	136.290	-73.636	1.00	111.20	D	C
ATOM	5787	OH	TYR	D	188	136.269	135.430	-73.658	1.00	111.20	D	O
ATOM	5788	C	TYR	D	188	140.940	138.914	-76.064	1.00	111.20	D	C
ATOM	5789	O	TYR	D	188	140.658	137.911	-76.721	1.00	111.20	D	O
ATOM	5790	N	TYR	D	189	140.634	140.146	-76.459	1.00	99.31	D	N
ATOM	5791	CA	TYR	D	189	139.946	140.395	-77.721	1.00	99.31	D	C
ATOM	5792	CB	TYR	D	189	139.303	141.784	-77.722	1.00	99.31	D	C
ATOM	5793	CG	TYR	D	189	138.114	141.911	-76.796	1.00	99.31	D	C
ATOM	5794	CD1	TYR	D	189	138.271	142.349	-75.488	1.00	99.31	D	C
ATOM	5795	CD2	TYR	D	189	136.835	141.593	-77.230	1.00	99.31	D	C
ATOM	5796	CE1	TYR	D	189	137.186	142.467	-74.639	1.00	99.31	D	C
ATOM	5797	CE2	TYR	D	189	135.745	141.707	-76.389	1.00	99.31	D	C
ATOM	5798	CZ	TYR	D	189	135.926	142.144	-75.094	1.00	99.31	D	C
ATOM	5799	OH	TYR	D	189	134.843	142.259	-74.253	1.00	99.31	D	O
ATOM	5800	C	TYR	D	189	140.890	140.250	-78.911	1.00	99.31	D	C
ATOM	5801	O	TYR	D	189	140.506	139.725	-79.956	1.00	99.31	D	O
ATOM	5802	N	VAL	D	190	142.122	140.720	-78.748	1.00	25.67	D	N
ATOM	5803	CA	VAL	D	190	143.125	140.620	-79.803	1.00	25.67	D	C
ATOM	5804	CB	VAL	D	190	144.474	141.218	-79.363	1.00	25.67	D	C
ATOM	5805	CG1	VAL	D	190	145.551	140.912	-80.392	1.00	25.67	D	C
ATOM	5806	CG2	VAL	D	190	144.345	142.719	-79.147	1.00	25.67	D	C
ATOM	5807	C	VAL	D	190	143.331	139.169	-80.224	1.00	25.67	D	C
ATOM	5808	O	VAL	D	190	143.330	138.852	-81.413	1.00	25.67	D	O
ATOM	5809	N	THR	D	191	143.505	138.292	-79.240	1.00	113.27	D	N
ATOM	5810	CA	THR	D	191	143.692	136.871	-79.506	1.00	113.27	D	C
ATOM	5811	CB	THR	D	191	143.931	136.080	-78.206	1.00	113.27	D	C
ATOM	5812	OG1	THR	D	191	145.117	136.560	-77.562	1.00	113.27	D	O
ATOM	5813	CG2	THR	D	191	144.087	134.597	-78.506	1.00	113.27	D	C
ATOM	5814	C	THR	D	191	142.483	136.289	-80.230	1.00	113.27	D	C
ATOM	5815	O	THR	D	191	142.625	135.620	-81.253	1.00	113.27	D	O
ATOM	5816	N	GLY	D	192	141.296	136.553	-79.694	1.00	21.76	D	N
ATOM	5817	CA	GLY	D	192	140.063	136.054	-80.275	1.00	21.76	D	C

ATOM	5818	C	GLY	D	192	139.893	136.439	-81.732	1.00	21.76	D	C
ATOM	5819	O	GLY	D	192	139.246	135.726	-82.499	1.00	21.76	D	O
ATOM	5820	N	PHE	D	193	140.475	137.571	-82.114	1.00	45.84	D	N
ATOM	5821	CA	PHE	D	193	140.401	138.042	-83.492	1.00	45.84	D	C
ATOM	5822	CB	PHE	D	193	140.822	139.510	-83.585	1.00	45.84	D	C
ATOM	5823	CG	PHE	D	193	139.877	140.457	-82.901	1.00	45.84	D	C
ATOM	5824	CD1	PHE	D	193	138.574	140.078	-82.624	1.00	45.84	D	C
ATOM	5825	CD2	PHE	D	193	140.291	141.727	-82.537	1.00	45.84	D	C
ATOM	5826	CE1	PHE	D	193	137.703	140.947	-81.995	1.00	45.84	D	C
ATOM	5827	CE2	PHE	D	193	139.424	142.601	-81.908	1.00	45.84	D	C
ATOM	5828	CZ	PHE	D	193	138.129	142.210	-81.637	1.00	45.84	D	C
ATOM	5829	C	PHE	D	193	141.259	137.185	-84.417	1.00	45.84	D	C
ATOM	5830	O	PHE	D	193	140.810	136.770	-85.485	1.00	45.84	D	O
ATOM	5831	N	PHE	D	194	142.495	136.923	-84.002	1.00	127.60	D	N
ATOM	5832	CA	PHE	D	194	143.404	136.094	-84.786	1.00	127.60	D	C
ATOM	5833	CB	PHE	D	194	144.802	136.082	-84.161	1.00	127.60	D	C
ATOM	5834	CG	PHE	D	194	145.570	137.357	-84.366	1.00	127.60	D	C
ATOM	5835	CD1	PHE	D	194	145.488	138.388	-83.446	1.00	127.60	D	C
ATOM	5836	CD2	PHE	D	194	146.377	137.522	-85.480	1.00	127.60	D	C
ATOM	5837	CE1	PHE	D	194	146.194	139.561	-83.634	1.00	127.60	D	C
ATOM	5838	CE2	PHE	D	194	147.086	138.692	-85.673	1.00	127.60	D	C
ATOM	5839	CZ	PHE	D	194	146.994	139.713	-84.748	1.00	127.60	D	C
ATOM	5840	C	PHE	D	194	142.878	134.670	-84.929	1.00	127.60	D	C
ATOM	5841	O	PHE	D	194	143.128	134.005	-85.935	1.00	127.60	D	O
ATOM	5842	N	ILE	D	195	142.151	134.206	-83.918	1.00	36.34	D	N
ATOM	5843	CA	ILE	D	195	141.566	132.871	-83.948	1.00	36.34	D	C
ATOM	5844	CB	ILE	D	195	140.984	132.477	-82.578	1.00	36.34	D	C
ATOM	5845	CG2	ILE	D	195	140.488	131.039	-82.604	1.00	36.34	D	C
ATOM	5846	CG1	ILE	D	195	142.028	132.666	-81.478	1.00	36.34	D	C
ATOM	5847	CD1	ILE	D	195	141.497	132.408	-80.085	1.00	36.34	D	C
ATOM	5848	C	ILE	D	195	140.461	132.797	-84.995	1.00	36.34	D	C
ATOM	5849	O	ILE	D	195	140.281	131.773	-85.653	1.00	36.34	D	O
ATOM	5850	N	ALA	D	196	139.724	133.893	-85.143	1.00	30.78	D	N
ATOM	5851	CA	ALA	D	196	138.643	133.963	-86.118	1.00	30.78	D	C
ATOM	5852	CB	ALA	D	196	137.707	135.115	-85.788	1.00	30.78	D	C
ATOM	5853	C	ALA	D	196	139.192	134.109	-87.533	1.00	30.78	D	C
ATOM	5854	O	ALA	D	196	138.752	133.421	-88.454	1.00	30.78	D	O
ATOM	5855	N	VAL	D	197	140.158	135.009	-87.697	1.00	86.02	D	N
ATOM	5856	CA	VAL	D	197	140.770	135.251	-88.998	1.00	86.02	D	C
ATOM	5857	CB	VAL	D	197	141.805	136.392	-88.932	1.00	86.02	D	C
ATOM	5858	CG1	VAL	D	197	142.500	136.559	-90.275	1.00	86.02	D	C
ATOM	5859	CG2	VAL	D	197	141.137	137.690	-88.506	1.00	86.02	D	C
ATOM	5860	C	VAL	D	197	141.441	133.992	-89.539	1.00	86.02	D	C
ATOM	5861	O	VAL	D	197	141.370	133.703	-90.733	1.00	86.02	D	O
ATOM	5862	N	SER	D	198	142.090	133.245	-88.652	1.00	41.44	D	N
ATOM	5863	CA	SER	D	198	142.772	132.015	-89.041	1.00	41.44	D	C
ATOM	5864	CB	SER	D	198	143.559	131.440	-87.861	1.00	41.44	D	C
ATOM	5865	OG	SER	D	198	142.701	131.119	-86.781	1.00	41.44	D	O
ATOM	5866	C	SER	D	198	141.785	130.979	-89.571	1.00	41.44	D	C
ATOM	5867	O	SER	D	198	142.132	130.157	-90.420	1.00	41.44	D	O
ATOM	5868	N	VAL	D	199	140.556	131.023	-89.066	1.00	108.02	D	N
ATOM	5869	CA	VAL	D	199	139.513	130.102	-89.503	1.00	108.02	D	C
ATOM	5870	CB	VAL	D	199	138.419	129.934	-88.431	1.00	108.02	D	C
ATOM	5871	CG1	VAL	D	199	137.284	129.069	-88.961	1.00	108.02	D	C
ATOM	5872	CG2	VAL	D	199	139.006	129.334	-87.163	1.00	108.02	D	C
ATOM	5873	C	VAL	D	199	138.872	130.572	-90.805	1.00	108.02	D	C
ATOM	5874	O	VAL	D	199	138.660	129.781	-91.725	1.00	108.02	D	O
ATOM	5875	N	ILE	D	200	138.567	131.864	-90.877	1.00	89.21	D	N
ATOM	5876	CA	ILE	D	200	137.966	132.444	-92.073	1.00	89.21	D	C
ATOM	5877	CB	ILE	D	200	137.620	133.931	-91.870	1.00	89.21	D	C
ATOM	5878	CG2	ILE	D	200	137.040	134.522	-93.145	1.00	89.21	D	C
ATOM	5879	CG1	ILE	D	200	136.639	134.096	-90.708	1.00	89.21	D	C
ATOM	5880	CD1	ILE	D	200	135.326	133.373	-90.912	1.00	89.21	D	C
ATOM	5881	C	ILE	D	200	138.895	132.304	-93.274	1.00	89.21	D	C
ATOM	5882	O	ILE	D	200	138.478	131.864	-94.345	1.00	89.21	D	O
ATOM	5883	N	ALA	D	201	140.156	132.679	-93.086	1.00	33.80	D	N
ATOM	5884	CA	ALA	D	201	141.152	132.572	-94.146	1.00	33.80	D	C
ATOM	5885	CB	ALA	D	201	142.478	133.163	-93.692	1.00	33.80	D	C

ATOM	5886	C	ALA	D	201	141.333	131.121	-94.575	1.00	33.80	D	C
ATOM	5887	O	ALA	D	201	141.546	130.835	-95.753	1.00	33.80	D	O
ATOM	5888	N	ASN	D	202	141.246	130.209	-93.611	1.00	47.57	D	N
ATOM	5889	CA	ASN	D	202	141.361	128.783	-93.891	1.00	47.57	D	C
ATOM	5890	CB	ASN	D	202	141.199	127.972	-92.603	1.00	47.57	D	C
ATOM	5891	CG	ASN	D	202	141.550	126.507	-92.784	1.00	47.57	D	C
ATOM	5892	OD1	ASN	D	202	141.378	125.941	-93.863	1.00	47.57	D	O
ATOM	5893	ND2	ASN	D	202	142.046	125.884	-91.721	1.00	47.57	D	N
ATOM	5894	C	ASN	D	202	140.332	128.344	-94.926	1.00	47.57	D	C
ATOM	5895	O	ASN	D	202	140.639	127.575	-95.837	1.00	47.57	D	O
ATOM	5896	N	VAL	D	203	139.109	128.845	-94.782	1.00	47.39	D	N
ATOM	5897	CA	VAL	D	203	138.035	128.530	-95.715	1.00	47.39	D	C
ATOM	5898	CB	VAL	D	203	136.675	129.039	-95.199	1.00	47.39	D	C
ATOM	5899	CG1	VAL	D	203	135.570	128.701	-96.187	1.00	47.39	D	C
ATOM	5900	CG2	VAL	D	203	136.373	128.449	-93.830	1.00	47.39	D	C
ATOM	5901	C	VAL	D	203	138.312	129.137	-97.087	1.00	47.39	D	C
ATOM	5902	O	VAL	D	203	138.013	128.531	-98.117	1.00	47.39	D	O
ATOM	5903	N	VAL	D	204	138.888	130.334	-97.093	1.00	117.92	D	N
ATOM	5904	CA	VAL	D	204	139.204	131.027	-98.337	1.00	117.92	D	C
ATOM	5905	CB	VAL	D	204	139.641	132.482	-98.078	1.00	117.92	D	C
ATOM	5906	CG1	VAL	D	204	139.866	133.213	-99.393	1.00	117.92	D	C
ATOM	5907	CG2	VAL	D	204	138.601	133.205	-97.238	1.00	117.92	D	C
ATOM	5908	C	VAL	D	204	140.303	130.298	-99.106	1.00	117.92	D	C
ATOM	5909	O	VAL	D	204	140.368	130.371	-100.333	1.00	117.92	D	O
ATOM	5910	N	GLU	D	205	141.163	129.594	-98.378	1.00	86.49	D	N
ATOM	5911	CA	GLU	D	205	142.241	128.832	-98.997	1.00	86.49	D	C
ATOM	5912	CB	GLU	D	205	143.209	128.308	-97.935	1.00	86.49	D	C
ATOM	5913	CG	GLU	D	205	143.919	129.394	-97.144	1.00	86.49	D	C
ATOM	5914	CD	GLU	D	205	144.859	128.828	-96.098	1.00	86.49	D	C
ATOM	5915	OE1	GLU	D	205	144.953	127.587	-95.993	1.00	86.49	D	O
ATOM	5916	OE2	GLU	D	205	145.503	129.622	-95.381	1.00	86.49	D	O
ATOM	5917	C	GLU	D	205	141.687	127.671	-99.816	1.00	86.49	D	C
ATOM	5918	O	GLU	D	205	142.353	127.161	-100.717	1.00	86.49	D	O
ATOM	5919	N	THR	D	206	140.464	127.259	-99.498	1.00	119.91	D	N
ATOM	5920	CA	THR	D	206	139.828	126.141	-100.183	1.00	119.91	D	C
ATOM	5921	CB	THR	D	206	138.785	125.451	-99.281	1.00	119.91	D	C
ATOM	5922	OG1	THR	D	206	139.374	125.152	-98.009	1.00	119.91	D	O
ATOM	5923	CG2	THR	D	206	138.290	124.163	-99.923	1.00	119.91	D	C
ATOM	5924	C	THR	D	206	139.157	126.594	-101.477	1.00	119.91	D	C
ATOM	5925	O	THR	D	206	138.878	125.782	-102.359	1.00	119.91	D	O
ATOM	5926	N	VAL	D	207	138.902	127.895	-101.582	1.00	81.16	D	N
ATOM	5927	CA	VAL	D	207	138.292	128.468	-102.778	1.00	81.16	D	C
ATOM	5928	CB	VAL	D	207	138.374	130.009	-102.767	1.00	81.16	D	C
ATOM	5929	CG1	VAL	D	207	137.934	130.579	-104.108	1.00	81.16	D	C
ATOM	5930	CG2	VAL	D	207	137.531	130.578	-101.635	1.00	81.16	D	C
ATOM	5931	C	VAL	D	207	138.959	127.933	-104.041	1.00	81.16	D	C
ATOM	5932	O	VAL	D	207	140.185	127.925	-104.141	1.00	81.16	D	O
ATOM	5933	N	PRO	D	208	138.146	127.477	-105.007	1.00	163.31	D	N
ATOM	5934	CA	PRO	D	208	138.618	126.897	-106.269	1.00	163.31	D	C
ATOM	5935	CD	PRO	D	208	136.674	127.492	-104.927	1.00	163.31	D	C
ATOM	5936	CB	PRO	D	208	137.361	126.910	-107.139	1.00	163.31	D	C
ATOM	5937	CG	PRO	D	208	136.252	126.747	-106.167	1.00	163.31	D	C
ATOM	5938	C	PRO	D	208	139.721	127.723	-106.927	1.00	163.31	D	C
ATOM	5939	O	PRO	D	208	139.433	128.676	-107.650	1.00	163.31	D	O
ATOM	5940	N	CYS	D	209	140.971	127.347	-106.672	1.00	122.13	D	N
ATOM	5941	CA	CYS	D	209	142.123	128.020	-107.263	1.00	122.13	D	C
ATOM	5942	CB	CYS	D	209	142.226	129.462	-106.762	1.00	122.13	D	C
ATOM	5943	SG	CYS	D	209	142.546	129.619	-104.989	1.00	122.13	D	S
ATOM	5944	C	CYS	D	209	143.407	127.263	-106.942	1.00	122.13	D	C
ATOM	5945	O	CYS	D	209	143.370	126.088	-106.577	1.00	122.13	D	O
ATOM	5946	N	GLY	D	210	144.542	127.942	-107.079	1.00	296.88	D	N
ATOM	5947	CA	GLY	D	210	145.830	127.342	-106.785	1.00	296.88	D	C
ATOM	5948	C	GLY	D	210	146.387	126.533	-107.940	1.00	296.88	D	C
ATOM	5949	O	GLY	D	210	145.838	126.544	-109.041	1.00	296.88	D	O
ATOM	5950	N	SER	D	211	147.484	125.827	-107.685	1.00	230.38	D	N
ATOM	5951	CA	SER	D	211	148.124	125.006	-108.705	1.00	230.38	D	C
ATOM	5952	CB	SER	D	211	149.573	125.450	-108.916	1.00	230.38	D	C
ATOM	5953	OG	SER	D	211	149.635	126.798	-109.349	1.00	230.38	D	O

ATOM	5954	C	SER	D	211	148.078	123.527-108.334	1.00230.38	D	C
ATOM	5955	O	SER	D	211	147.003	122.945-108.193	1.00230.38	D	O
ATOM	5956	N	SER	D	212	149.253	122.926-108.175	1.00146.29	D	N
ATOM	5957	CA	SER	D	212	149.352	121.514-107.818	1.00146.29	D	C
ATOM	5958	CB	SER	D	212	149.990	120.707-108.954	1.00146.29	D	C
ATOM	5959	OG	SER	D	212	149.210	120.780-110.135	1.00146.29	D	O
ATOM	5960	C	SER	D	212	150.109	121.290-106.506	1.00146.29	D	C
ATOM	5961	O	SER	D	212	149.601	120.621-105.606	1.00146.29	D	O
ATOM	5962	N	PRO	D	213	151.327	121.849-106.390	1.00129.39	D	N
ATOM	5963	CA	PRO	D	213	152.116	121.648-105.172	1.00129.39	D	C
ATOM	5964	CD	PRO	D	213	152.050	122.677-107.366	1.00129.39	D	C
ATOM	5965	CB	PRO	D	213	153.535	122.061-105.595	1.00129.39	D	C
ATOM	5966	CG	PRO	D	213	153.468	122.329-107.082	1.00129.39	D	C
ATOM	5967	C	PRO	D	213	151.641	122.558-104.047	1.00129.39	D	C
ATOM	5968	O	PRO	D	213	151.972	122.326-102.885	1.00129.39	D	O
ATOM	5969	N	GLY	D	214	150.883	123.589-104.402	1.00105.51	D	N
ATOM	5970	CA	GLY	D	214	150.377	124.535-103.428	1.00105.51	D	C
ATOM	5971	C	GLY	D	214	148.896	124.352-103.166	1.00105.51	D	C
ATOM	5972	O	GLY	D	214	148.298	125.087-102.380	1.00105.51	D	O
ATOM	5973	N	HIS	D	215	148.302	123.364-103.827	1.00142.23	D	N
ATOM	5974	CA	HIS	D	215	146.882	123.080-103.669	1.00142.23	D	C
ATOM	5975	ND1	HIS	D	215	143.890	123.084-104.620	1.00142.23	D	N
ATOM	5976	CG	HIS	D	215	144.856	122.133-104.863	1.00142.23	D	C
ATOM	5977	CB	HIS	D	215	146.313	122.465-104.949	1.00142.23	D	C
ATOM	5978	NE2	HIS	D	215	142.863	121.214-104.818	1.00142.23	D	N
ATOM	5979	CD2	HIS	D	215	144.202	120.954-104.987	1.00142.23	D	C
ATOM	5980	CE1	HIS	D	215	142.702	122.506-104.598	1.00142.23	D	C
ATOM	5981	C	HIS	D	215	146.630	122.151-102.486	1.00142.23	D	C
ATOM	5982	O	HIS	D	215	145.618	122.273-101.794	1.00142.23	D	O
ATOM	5983	N	ILE	D	216	147.555	121.225-102.258	1.00 67.89	D	N
ATOM	5984	CA	ILE	D	216	147.435	120.276-101.158	1.00 67.89	D	C
ATOM	5985	CB	ILE	D	216	148.474	119.145-101.269	1.00 67.89	D	C
ATOM	5986	CG2	ILE	D	216	148.281	118.134-100.150	1.00 67.89	D	C
ATOM	5987	CG1	ILE	D	216	148.379	118.465-102.636	1.00 67.89	D	C
ATOM	5988	CD1	ILE	D	216	149.362	117.331-102.823	1.00 67.89	D	C
ATOM	5989	C	ILE	D	216	147.603	120.977 -99.814	1.00 67.89	D	C
ATOM	5990	O	ILE	D	216	146.781	120.816 -98.912	1.00 67.89	D	O
ATOM	5991	N	LYS	D	217	148.674	121.754 -99.689	1.00172.29	D	N
ATOM	5992	CA	LYS	D	217	148.939	122.498 -98.464	1.00172.29	D	C
ATOM	5993	CB	LYS	D	217	150.425	122.851 -98.363	1.00172.29	D	C
ATOM	5994	CG	LYS	D	217	150.841	123.441 -97.024	1.00172.29	D	C
ATOM	5995	CD	LYS	D	217	150.567	122.471 -95.885	1.00172.29	D	C
ATOM	5996	CE	LYS	D	217	150.975	123.063 -94.545	1.00172.29	D	C
ATOM	5997	NZ	LYS	D	217	150.710	122.126 -93.417	1.00172.29	D	N
ATOM	5998	C	LYS	D	217	148.088	123.763 -98.420	1.00172.29	D	C
ATOM	5999	O	LYS	D	217	148.113	124.508 -97.440	1.00172.29	D	O
ATOM	6000	N	GLU	D	218	147.338	123.997 -99.493	1.00302.48	D	N
ATOM	6001	CA	GLU	D	218	146.448	125.151 -99.591	1.00302.48	D	C
ATOM	6002	CB	GLU	D	218	145.468	125.179 -98.415	1.00302.48	D	C
ATOM	6003	CG	GLU	D	218	144.612	123.928 -98.287	1.00302.48	D	C
ATOM	6004	CD	GLU	D	218	143.677	123.733 -99.466	1.00302.48	D	C
ATOM	6005	OE1	GLU	D	218	143.525	124.676-100.271	1.00302.48	D	O
ATOM	6006	OE2	GLU	D	218	143.093	122.636 -99.587	1.00302.48	D	O
ATOM	6007	C	GLU	D	218	147.216	126.468 -99.673	1.00302.48	D	C
ATOM	6008	O	GLU	D	218	146.617	127.539 -99.766	1.00302.48	D	O
ATOM	6009	N	LEU	D	219	148.541	126.381 -99.641	1.00167.09	D	N
ATOM	6010	CA	LEU	D	219	149.389	127.564 -99.735	1.00167.09	D	C
ATOM	6011	CB	LEU	D	219	149.283	128.413 -98.462	1.00167.09	D	C
ATOM	6012	CG	LEU	D	219	149.279	127.708 -97.102	1.00167.09	D	C
ATOM	6013	CD1	LEU	D	219	150.679	127.281 -96.691	1.00167.09	D	C
ATOM	6014	CD2	LEU	D	219	148.676	128.617 -96.043	1.00167.09	D	C
ATOM	6015	C	LEU	D	219	150.843	127.205-100.037	1.00167.09	D	C
ATOM	6016	O	LEU	D	219	151.459	126.421 -99.317	1.00167.09	D	O
ATOM	6017	N	PRO	D	220	151.388	127.772-101.123	1.00155.58	D	N
ATOM	6018	CA	PRO	D	220	152.779	127.546-101.530	1.00155.58	D	C
ATOM	6019	CD	PRO	D	220	150.655	128.594-102.100	1.00155.58	D	C
ATOM	6020	CB	PRO	D	220	152.894	128.339-102.837	1.00155.58	D	C
ATOM	6021	CG	PRO	D	220	151.492	128.467-103.333	1.00155.58	D	C

ATOM	6022	C	PRO	D	220	153.763	128.093-100.501	1.00155.58	D	C
ATOM	6023	O	PRO	D	220	153.953	129.306-100.415	1.00155.58	D	O
ATOM	6024	N	CYS	D	221	154.381	127.202 -99.732	1.00 60.66	D	N
ATOM	6025	CA	CYS	D	221	155.340	127.610 -98.712	1.00 60.66	D	C
ATOM	6026	CB	CYS	D	221	155.652	126.443 -97.773	1.00 60.66	D	C
ATOM	6027	SG	CYS	D	221	154.213	125.786 -96.897	1.00 60.66	D	S
ATOM	6028	C	CYS	D	221	156.625	128.136 -99.344	1.00 60.66	D	C
ATOM	6029	O	CYS	D	221	157.257	127.451-100.148	1.00 60.66	D	O
ATOM	6030	N	GLY	D	222	157.003	129.355 -98.976	1.00 31.84	D	N
ATOM	6031	CA	GLY	D	222	158.203	129.974 -99.508	1.00 31.84	D	C
ATOM	6032	C	GLY	D	222	158.620	131.207 -98.732	1.00 31.84	D	C
ATOM	6033	O	GLY	D	222	157.844	131.752 -97.946	1.00 31.84	D	O
ATOM	6034	N	GLU	D	223	159.853	131.648 -98.955	1.00109.66	D	N
ATOM	6035	CA	GLU	D	223	160.382	132.829 -98.283	1.00109.66	D	C
ATOM	6036	CB	GLU	D	223	161.910	132.751 -98.194	1.00109.66	D	C
ATOM	6037	CG	GLU	D	223	162.564	133.893 -97.427	1.00109.66	D	C
ATOM	6038	CD	GLU	D	223	162.767	135.134 -98.277	1.00109.66	D	C
ATOM	6039	OE1	GLU	D	223	162.648	135.036 -99.516	1.00109.66	D	O
ATOM	6040	OE2	GLU	D	223	163.046	136.208 -97.704	1.00109.66	D	O
ATOM	6041	C	GLU	D	223	159.950	134.100 -99.007	1.00109.66	D	C
ATOM	6042	O	GLU	D	223	159.892	135.177 -98.413	1.00109.66	D	O
ATOM	6043	N	ARG	D	224	159.640	133.964-100.293	1.00102.89	D	N
ATOM	6044	CA	ARG	D	224	159.225	135.098-101.112	1.00102.89	D	C
ATOM	6045	CB	ARG	D	224	158.908	134.640-102.537	1.00102.89	D	C
ATOM	6046	CG	ARG	D	224	160.081	134.002-103.262	1.00102.89	D	C
ATOM	6047	CD	ARG	D	224	159.686	133.551-104.660	1.00102.89	D	C
ATOM	6048	NE	ARG	D	224	160.794	132.905-105.358	1.00102.89	D	N
ATOM	6049	CZ	ARG	D	224	160.716	132.414-106.590	1.00102.89	D	C
ATOM	6050	NH1	ARG	D	224	159.578	132.496-107.267	1.00102.89	D	N
ATOM	6051	NH2	ARG	D	224	161.774	131.842-107.148	1.00102.89	D	N
ATOM	6052	C	ARG	D	224	158.018	135.818-100.517	1.00102.89	D	C
ATOM	6053	O	ARG	D	224	157.843	137.020-100.718	1.00102.89	D	O
ATOM	6054	N	TYR	D	225	157.189	135.077 -99.789	1.00235.34	D	N
ATOM	6055	CA	TYR	D	225	155.993	135.639 -99.169	1.00235.34	D	C
ATOM	6056	CB	TYR	D	225	156.373	136.642 -98.077	1.00235.34	D	C
ATOM	6057	CG	TYR	D	225	157.179	136.046 -96.946	1.00235.34	D	C
ATOM	6058	CD1	TYR	D	225	157.111	134.690 -96.657	1.00235.34	D	C
ATOM	6059	CD2	TYR	D	225	158.010	136.840 -96.167	1.00235.34	D	C
ATOM	6060	CE1	TYR	D	225	157.847	134.141 -95.624	1.00235.34	D	C
ATOM	6061	CE2	TYR	D	225	158.750	136.301 -95.132	1.00235.34	D	C
ATOM	6062	CZ	TYR	D	225	158.665	134.952 -94.865	1.00235.34	D	C
ATOM	6063	OH	TYR	D	225	159.400	134.410 -93.836	1.00235.34	D	O
ATOM	6064	C	TYR	D	225	155.089	136.306-100.200	1.00235.34	D	C
ATOM	6065	O	TYR	D	225	154.528	137.372 -99.949	1.00235.34	D	O
ATOM	6066	N	ALA	D	226	154.953	135.672-101.360	1.00 79.48	D	N
ATOM	6067	CA	ALA	D	226	154.116	136.205-102.429	1.00 79.48	D	C
ATOM	6068	CB	ALA	D	226	154.530	135.618-103.771	1.00 79.48	D	C
ATOM	6069	C	ALA	D	226	152.639	135.935-102.161	1.00 79.48	D	C
ATOM	6070	O	ALA	D	226	151.809	136.840-102.241	1.00 79.48	D	O
ATOM	6071	N	VAL	D	227	152.319	134.685-101.843	1.00226.17	D	N
ATOM	6072	CA	VAL	D	227	150.942	134.299-101.556	1.00226.17	D	C
ATOM	6073	CB	VAL	D	227	150.800	132.770-101.432	1.00226.17	D	C
ATOM	6074	CG1	VAL	D	227	149.367	132.397-101.084	1.00226.17	D	C
ATOM	6075	CG2	VAL	D	227	151.235	132.092-102.721	1.00226.17	D	C
ATOM	6076	C	VAL	D	227	150.445	134.958-100.273	1.00226.17	D	C
ATOM	6077	O	VAL	D	227	151.049	134.804 -99.211	1.00226.17	D	O
ATOM	6078	N	ALA	D	228	149.343	135.693-100.380	1.00 52.15	D	N
ATOM	6079	CA	ALA	D	228	148.767	136.383 -99.231	1.00 52.15	D	C
ATOM	6080	CB	ALA	D	228	147.648	137.311 -99.677	1.00 52.15	D	C
ATOM	6081	C	ALA	D	228	148.255	135.394 -98.190	1.00 52.15	D	C
ATOM	6082	O	ALA	D	228	148.265	135.678 -96.992	1.00 52.15	D	O
ATOM	6083	N	PHE	D	229	147.808	134.232 -98.656	1.00 68.64	D	N
ATOM	6084	CA	PHE	D	229	147.299	133.195 -97.767	1.00 68.64	D	C
ATOM	6085	CB	PHE	D	229	146.728	132.029 -98.577	1.00 68.64	D	C
ATOM	6086	CG	PHE	D	229	145.594	132.417 -99.481	1.00 68.64	D	C
ATOM	6087	CD1	PHE	D	229	144.286	132.374 -99.030	1.00 68.64	D	C
ATOM	6088	CD2	PHE	D	229	145.836	132.825-100.782	1.00 68.64	D	C
ATOM	6089	CE1	PHE	D	229	143.240	132.730 -99.859	1.00 68.64	D	C

ATOM	6090	CE2	PHE	D	229	144.794	133.183	-101.617	1.00	68.64	D	C
ATOM	6091	CZ	PHE	D	229	143.494	133.135	-101.154	1.00	68.64	D	C
ATOM	6092	C	PHE	D	229	148.391	132.694	-96.829	1.00	68.64	D	C
ATOM	6093	O	PHE	D	229	148.131	132.388	-95.665	1.00	68.64	D	O
ATOM	6094	N	PHE	D	230	149.613	132.612	-97.343	1.00	73.77	D	N
ATOM	6095	CA	PHE	D	230	150.748	132.156	-96.551	1.00	73.77	D	C
ATOM	6096	CB	PHE	D	230	151.930	131.807	-97.457	1.00	73.77	D	C
ATOM	6097	CG	PHE	D	230	153.125	131.275	-96.717	1.00	73.77	D	C
ATOM	6098	CD1	PHE	D	230	153.225	129.927	-96.415	1.00	73.77	D	C
ATOM	6099	CD2	PHE	D	230	154.149	132.122	-96.327	1.00	73.77	D	C
ATOM	6100	CE1	PHE	D	230	154.323	129.435	-95.736	1.00	73.77	D	C
ATOM	6101	CE2	PHE	D	230	155.249	131.635	-95.648	1.00	73.77	D	C
ATOM	6102	CZ	PHE	D	230	155.336	130.290	-95.352	1.00	73.77	D	C
ATOM	6103	C	PHE	D	230	151.161	133.212	-95.532	1.00	73.77	D	C
ATOM	6104	O	PHE	D	230	151.597	132.887	-94.428	1.00	73.77	D	O
ATOM	6105	N	CYS	D	231	151.022	134.478	-95.912	1.00	36.96	D	N
ATOM	6106	CA	CYS	D	231	151.367	135.586	-95.030	1.00	36.96	D	C
ATOM	6107	CB	CYS	D	231	151.365	136.906	-95.802	1.00	36.96	D	C
ATOM	6108	SG	CYS	D	231	152.555	136.978	-97.161	1.00	36.96	D	S
ATOM	6109	C	CYS	D	231	150.404	135.665	-93.852	1.00	36.96	D	C
ATOM	6110	O	CYS	D	231	150.813	135.913	-92.718	1.00	36.96	D	O
ATOM	6111	N	LEU	D	232	149.121	135.452	-94.128	1.00	104.38	D	N
ATOM	6112	CA	LEU	D	232	148.099	135.481	-93.088	1.00	104.38	D	C
ATOM	6113	CB	LEU	D	232	146.701	135.511	-93.709	1.00	104.38	D	C
ATOM	6114	CG	LEU	D	232	146.373	136.718	-94.591	1.00	104.38	D	C
ATOM	6115	CD1	LEU	D	232	144.984	136.581	-95.195	1.00	104.38	D	C
ATOM	6116	CD2	LEU	D	232	146.493	138.010	-93.798	1.00	104.38	D	C
ATOM	6117	C	LEU	D	232	148.235	134.279	-92.161	1.00	104.38	D	C
ATOM	6118	O	LEU	D	232	148.080	134.399	-90.946	1.00	104.38	D	O
ATOM	6119	N	ASP	D	233	148.525	133.119	-92.743	1.00	58.49	D	N
ATOM	6120	CA	ASP	D	233	148.698	131.895	-91.970	1.00	58.49	D	C
ATOM	6121	CB	ASP	D	233	148.888	130.696	-92.901	1.00	58.49	D	C
ATOM	6122	CG	ASP	D	233	149.062	129.394	-92.145	1.00	58.49	D	C
ATOM	6123	OD1	ASP	D	233	148.494	129.265	-91.040	1.00	58.49	D	O
ATOM	6124	OD2	ASP	D	233	149.767	128.498	-92.655	1.00	58.49	D	O
ATOM	6125	C	ASP	D	233	149.883	132.014	-91.018	1.00	58.49	D	C
ATOM	6126	O	ASP	D	233	149.785	131.661	-89.843	1.00	58.49	D	O
ATOM	6127	N	THR	D	234	151.001	132.515	-91.534	1.00	127.80	D	N
ATOM	6128	CA	THR	D	234	152.203	132.697	-90.729	1.00	127.80	D	C
ATOM	6129	CB	THR	D	234	153.394	133.162	-91.589	1.00	127.80	D	C
ATOM	6130	OG1	THR	D	234	153.652	132.196	-92.616	1.00	127.80	D	O
ATOM	6131	CG2	THR	D	234	154.640	133.329	-90.732	1.00	127.80	D	C
ATOM	6132	C	THR	D	234	151.964	133.711	-89.614	1.00	127.80	D	C
ATOM	6133	O	THR	D	234	152.488	133.568	-88.510	1.00	127.80	D	O
ATOM	6134	N	ALA	D	235	151.167	134.732	-89.912	1.00	35.61	D	N
ATOM	6135	CA	ALA	D	235	150.848	135.765	-88.934	1.00	35.61	D	C
ATOM	6136	CB	ALA	D	235	150.091	136.906	-89.597	1.00	35.61	D	C
ATOM	6137	C	ALA	D	235	150.043	135.194	-87.772	1.00	35.61	D	C
ATOM	6138	O	ALA	D	235	150.285	135.529	-86.612	1.00	35.61	D	O
ATOM	6139	N	CYS	D	236	149.085	134.329	-88.090	1.00	41.29	D	N
ATOM	6140	CA	CYS	D	236	148.248	133.704	-87.073	1.00	41.29	D	C
ATOM	6141	CB	CYS	D	236	147.064	132.982	-87.720	1.00	41.29	D	C
ATOM	6142	SG	CYS	D	236	145.948	134.059	-88.648	1.00	41.29	D	S
ATOM	6143	C	CYS	D	236	149.054	132.729	-86.220	1.00	41.29	D	C
ATOM	6144	O	CYS	D	236	148.970	132.749	-84.992	1.00	41.29	D	O
ATOM	6145	N	VAL	D	237	149.835	131.879	-86.879	1.00	109.38	D	N
ATOM	6146	CA	VAL	D	237	150.667	130.905	-86.183	1.00	109.38	D	C
ATOM	6147	CB	VAL	D	237	151.385	129.965	-87.171	1.00	109.38	D	C
ATOM	6148	CG1	VAL	D	237	152.317	129.021	-86.427	1.00	109.38	D	C
ATOM	6149	CG2	VAL	D	237	150.371	129.185	-87.992	1.00	109.38	D	C
ATOM	6150	C	VAL	D	237	151.701	131.600	-85.304	1.00	109.38	D	C
ATOM	6151	O	VAL	D	237	152.028	131.123	-84.218	1.00	109.38	D	O
ATOM	6152	N	MET	D	238	152.210	132.732	-85.781	1.00	141.41	D	N
ATOM	6153	CA	MET	D	238	153.193	133.507	-85.034	1.00	141.41	D	C
ATOM	6154	CB	MET	D	238	153.609	134.749	-85.827	1.00	141.41	D	C
ATOM	6155	CG	MET	D	238	154.749	135.550	-85.209	1.00	141.41	D	C
ATOM	6156	SD	MET	D	238	154.254	136.542	-83.786	1.00	141.41	D	S
ATOM	6157	CE	MET	D	238	155.807	137.329	-83.367	1.00	141.41	D	C

ATOM	6158	C	MET	D	238	152.635	133.908	-83.673	1.00141.41	D	C
ATOM	6159	O	MET	D	238	153.273	133.695	-82.642	1.00141.41	D	O
ATOM	6160	N	ILE	D	239	151.440	134.488	-83.678	1.00163.25	D	N
ATOM	6161	CA	ILE	D	239	150.786	134.909	-82.445	1.00163.25	D	C
ATOM	6162	CB	ILE	D	239	149.462	135.643	-82.732	1.00163.25	D	C
ATOM	6163	CG2	ILE	D	239	148.802	136.080	-81.433	1.00163.25	D	C
ATOM	6164	CG1	ILE	D	239	149.706	136.847	-83.644	1.00163.25	D	C
ATOM	6165	CD1	ILE	D	239	150.657	137.870	-83.063	1.00163.25	D	C
ATOM	6166	C	ILE	D	239	150.508	133.715	-81.539	1.00163.25	D	C
ATOM	6167	O	ILE	D	239	150.711	133.783	-80.327	1.00163.25	D	O
ATOM	6168	N	PHE	D	240	150.046	132.621	-82.136	1.0070.90	D	N
ATOM	6169	CA	PHE	D	240	149.736	131.410	-81.386	1.0070.90	D	C
ATOM	6170	CB	PHE	D	240	149.072	130.372	-82.293	1.0070.90	D	C
ATOM	6171	CG	PHE	D	240	147.773	130.832	-82.893	1.0070.90	D	C
ATOM	6172	CD1	PHE	D	240	147.037	131.841	-82.295	1.0070.90	D	C
ATOM	6173	CD2	PHE	D	240	147.289	130.256	-84.055	1.0070.90	D	C
ATOM	6174	CE1	PHE	D	240	145.842	132.267	-82.844	1.0070.90	D	C
ATOM	6175	CE2	PHE	D	240	146.094	130.677	-84.610	1.0070.90	D	C
ATOM	6176	CZ	PHE	D	240	145.370	131.684	-84.003	1.0070.90	D	C
ATOM	6177	C	PHE	D	240	150.989	130.822	-80.744	1.0070.90	D	C
ATOM	6178	O	PHE	D	240	150.937	130.281	-79.640	1.0070.90	D	O
ATOM	6179	N	THR	D	241	152.114	130.933	-81.443	1.00101.68	D	N
ATOM	6180	CA	THR	D	241	153.382	130.414	-80.943	1.00101.68	D	C
ATOM	6181	CB	THR	D	241	154.459	130.396	-82.044	1.00101.68	D	C
ATOM	6182	OG1	THR	D	241	154.038	129.541	-83.114	1.00101.68	D	O
ATOM	6183	CG2	THR	D	241	155.781	129.890	-81.488	1.00101.68	D	C
ATOM	6184	C	THR	D	241	153.886	131.237	-79.762	1.00101.68	D	C
ATOM	6185	O	THR	D	241	154.336	130.685	-78.758	1.00101.68	D	O
ATOM	6186	N	VAL	D	242	153.807	132.558	-79.890	1.0032.84	D	N
ATOM	6187	CA	VAL	D	242	154.244	133.457	-78.829	1.0032.84	D	C
ATOM	6188	CB	VAL	D	242	154.062	134.934	-79.227	1.0032.84	D	C
ATOM	6189	CG1	VAL	D	242	154.414	135.846	-78.061	1.0032.84	D	C
ATOM	6190	CG2	VAL	D	242	154.913	135.264	-80.443	1.0032.84	D	C
ATOM	6191	C	VAL	D	242	153.484	133.186	-77.535	1.0032.84	D	C
ATOM	6192	O	VAL	D	242	154.069	133.165	-76.452	1.0032.84	D	O
ATOM	6193	N	GLU	D	243	152.177	132.974	-77.654	1.0057.64	D	N
ATOM	6194	CA	GLU	D	243	151.342	132.677	-76.497	1.0057.64	D	C
ATOM	6195	CB	GLU	D	243	149.876	132.548	-76.913	1.0057.64	D	C
ATOM	6196	CG	GLU	D	243	149.292	133.807	-77.531	1.0057.64	D	C
ATOM	6197	CD	GLU	D	243	147.845	133.635	-77.948	1.0057.64	D	C
ATOM	6198	OE1	GLU	D	243	147.294	134.558	-78.585	1.0057.64	D	O
ATOM	6199	OE2	GLU	D	243	147.258	132.576	-77.640	1.0057.64	D	O
ATOM	6200	C	GLU	D	243	151.804	131.398	-75.808	1.0057.64	D	C
ATOM	6201	O	GLU	D	243	151.793	131.302	-74.581	1.0057.64	D	O
ATOM	6202	N	TYR	D	244	152.210	130.418	-76.608	1.0053.95	D	N
ATOM	6203	CA	TYR	D	244	152.691	129.147	-76.081	1.0053.95	D	C
ATOM	6204	CB	TYR	D	244	152.838	128.121	-77.207	1.0053.95	D	C
ATOM	6205	CG	TYR	D	244	153.495	126.829	-76.777	1.0053.95	D	C
ATOM	6206	CD1	TYR	D	244	152.759	125.822	-76.167	1.0053.95	D	C
ATOM	6207	CD2	TYR	D	244	154.851	126.614	-76.984	1.0053.95	D	C
ATOM	6208	CE1	TYR	D	244	153.356	124.639	-75.773	1.0053.95	D	C
ATOM	6209	CE2	TYR	D	244	155.456	125.435	-76.594	1.0053.95	D	C
ATOM	6210	CZ	TYR	D	244	154.704	124.451	-75.989	1.0053.95	D	C
ATOM	6211	OH	TYR	D	244	155.302	123.275	-75.599	1.0053.95	D	O
ATOM	6212	C	TYR	D	244	154.018	129.315	-75.349	1.0053.95	D	C
ATOM	6213	O	TYR	D	244	154.244	128.704	-74.305	1.0053.95	D	O
ATOM	6214	N	LEU	D	245	154.893	130.149	-75.903	1.0044.50	D	N
ATOM	6215	CA	LEU	D	245	156.209	130.380	-75.318	1.0044.50	D	C
ATOM	6216	CB	LEU	D	245	157.122	131.092	-76.318	1.0044.50	D	C
ATOM	6217	CG	LEU	D	245	157.397	130.351	-77.628	1.0044.50	D	C
ATOM	6218	CD1	LEU	D	245	158.246	131.204	-78.559	1.0044.50	D	C
ATOM	6219	CD2	LEU	D	245	158.068	129.013	-77.359	1.0044.50	D	C
ATOM	6220	C	LEU	D	245	156.119	131.185	-74.025	1.0044.50	D	C
ATOM	6221	O	LEU	D	245	156.842	130.919	-73.065	1.0044.50	D	O
ATOM	6222	N	LEU	D	246	155.227	132.170	-74.007	1.0093.07	D	N
ATOM	6223	CA	LEU	D	246	155.056	133.027	-72.839	1.0093.07	D	C
ATOM	6224	CB	LEU	D	246	154.201	134.248	-73.185	1.0093.07	D	C
ATOM	6225	CG	LEU	D	246	154.796	135.223	-74.203	1.0093.07	D	C

ATOM	6226	CD1	LEU	D	246	153.822	136.353	-74.499	1.00	93.07	D	C
ATOM	6227	CD2	LEU	D	246	156.125	135.773	-73.706	1.00	93.07	D	C
ATOM	6228	C	LEU	D	246	154.442	132.269	-71.667	1.00	93.07	D	C
ATOM	6229	O	LEU	D	246	154.963	132.309	-70.552	1.00	93.07	D	O
ATOM	6230	N	ARG	D	247	153.335	131.579	-71.922	1.00	110.03	D	N
ATOM	6231	CA	ARG	D	247	152.652	130.820	-70.879	1.00	110.03	D	C
ATOM	6232	CB	ARG	D	247	151.311	130.284	-71.386	1.00	110.03	D	C
ATOM	6233	CG	ARG	D	247	150.287	131.362	-71.708	1.00	110.03	D	C
ATOM	6234	CD	ARG	D	247	148.913	130.755	-71.950	1.00	110.03	D	C
ATOM	6235	NE	ARG	D	247	147.906	131.770	-72.250	1.00	110.03	D	N
ATOM	6236	CZ	ARG	D	247	147.514	132.093	-73.478	1.00	110.03	D	C
ATOM	6237	NH1	ARG	D	247	148.042	131.478	-74.528	1.00	110.03	D	N
ATOM	6238	NH2	ARG	D	247	146.592	133.029	-73.657	1.00	110.03	D	N
ATOM	6239	C	ARG	D	247	153.515	129.672	-70.362	1.00	110.03	D	C
ATOM	6240	O	ARG	D	247	153.346	129.220	-69.230	1.00	110.03	D	O
ATOM	6241	N	LEU	D	248	154.437	129.205	-71.197	1.00	148.40	D	N
ATOM	6242	CA	LEU	D	248	155.326	128.112	-70.820	1.00	148.40	D	C
ATOM	6243	CB	LEU	D	248	156.013	127.530	-72.057	1.00	148.40	D	C
ATOM	6244	CG	LEU	D	248	156.927	126.325	-71.827	1.00	148.40	D	C
ATOM	6245	CD1	LEU	D	248	156.158	125.185	-71.178	1.00	148.40	D	C
ATOM	6246	CD2	LEU	D	248	157.561	125.872	-73.133	1.00	148.40	D	C
ATOM	6247	C	LEU	D	248	156.371	128.578	-69.811	1.00	148.40	D	C
ATOM	6248	O	LEU	D	248	156.859	127.790	-69.001	1.00	148.40	D	O
ATOM	6249	N	ALA	D	249	156.707	129.862	-69.865	1.00	46.03	D	N
ATOM	6250	CA	ALA	D	249	157.699	130.433	-68.961	1.00	46.03	D	C
ATOM	6251	CB	ALA	D	249	158.664	131.325	-69.728	1.00	46.03	D	C
ATOM	6252	C	ALA	D	249	157.035	131.212	-67.830	1.00	46.03	D	C
ATOM	6253	O	ALA	D	249	157.686	131.582	-66.853	1.00	46.03	D	O
ATOM	6254	N	ALA	D	250	155.736	131.458	-67.969	1.00	55.13	D	N
ATOM	6255	CA	ALA	D	250	154.982	132.188	-66.957	1.00	55.13	D	C
ATOM	6256	CB	ALA	D	250	153.983	133.128	-67.615	1.00	55.13	D	C
ATOM	6257	C	ALA	D	250	154.270	131.231	-66.008	1.00	55.13	D	C
ATOM	6258	O	ALA	D	250	153.831	131.625	-64.928	1.00	55.13	D	O
ATOM	6259	N	ALA	D	251	154.158	129.972	-66.418	1.00	67.05	D	N
ATOM	6260	CA	ALA	D	251	153.504	128.956	-65.602	1.00	67.05	D	C
ATOM	6261	CB	ALA	D	251	153.191	127.724	-66.438	1.00	67.05	D	C
ATOM	6262	C	ALA	D	251	154.362	128.581	-64.399	1.00	67.05	D	C
ATOM	6263	O	ALA	D	251	155.507	128.157	-64.556	1.00	67.05	D	O
ATOM	6264	N	PRO	D	252	153.805	128.739	-63.189	1.00	163.88	D	N
ATOM	6265	CA	PRO	D	252	154.498	128.410	-61.939	1.00	163.88	D	C
ATOM	6266	CD	PRO	D	252	152.458	129.285	-62.947	1.00	163.88	D	C
ATOM	6267	CB	PRO	D	252	153.409	128.601	-60.880	1.00	163.88	D	C
ATOM	6268	CG	PRO	D	252	152.476	129.593	-61.480	1.00	163.88	D	C
ATOM	6269	C	PRO	D	252	154.992	126.967	-61.926	1.00	163.88	D	C
ATOM	6270	O	PRO	D	252	155.976	126.659	-61.254	1.00	163.88	D	O
ATOM	6271	N	SER	D	253	154.312	126.097	-62.665	1.00	124.25	D	N
ATOM	6272	CA	SER	D	253	154.689	124.691	-62.735	1.00	124.25	D	C
ATOM	6273	CB	SER	D	253	153.575	123.809	-62.165	1.00	124.25	D	C
ATOM	6274	OG	SER	D	253	153.928	122.438	-62.227	1.00	124.25	D	O
ATOM	6275	C	SER	D	253	155.005	124.274	-64.168	1.00	124.25	D	C
ATOM	6276	O	SER	D	253	154.305	124.657	-65.105	1.00	124.25	D	O
ATOM	6277	N	ARG	D	254	156.064	123.488	-64.330	1.00	172.72	D	N
ATOM	6278	CA	ARG	D	254	156.472	123.014	-65.647	1.00	172.72	D	C
ATOM	6279	CB	ARG	D	254	157.976	123.209	-65.845	1.00	172.72	D	C
ATOM	6280	CG	ARG	D	254	158.422	124.661	-65.825	1.00	172.72	D	C
ATOM	6281	CD	ARG	D	254	157.771	125.450	-66.949	1.00	172.72	D	C
ATOM	6282	NE	ARG	D	254	158.103	124.906	-68.262	1.00	172.72	D	N
ATOM	6283	CZ	ARG	D	254	159.155	125.282	-68.982	1.00	172.72	D	C
ATOM	6284	NH1	ARG	D	254	159.983	126.208	-68.518	1.00	172.72	D	N
ATOM	6285	NH2	ARG	D	254	159.380	124.732	-70.168	1.00	172.72	D	N
ATOM	6286	C	ARG	D	254	156.103	121.547	-65.847	1.00	172.72	D	C
ATOM	6287	O	ARG	D	254	156.317	120.985	-66.921	1.00	172.72	D	O
ATOM	6288	N	TYR	D	255	155.551	120.933	-64.806	1.00	99.39	D	N
ATOM	6289	CA	TYR	D	255	155.149	119.533	-64.870	1.00	99.39	D	C
ATOM	6290	CB	TYR	D	255	155.590	118.788	-63.607	1.00	99.39	D	C
ATOM	6291	CG	TYR	D	255	155.352	117.296	-63.660	1.00	99.39	D	C
ATOM	6292	CD1	TYR	D	255	156.293	116.443	-64.221	1.00	99.39	D	C
ATOM	6293	CD2	TYR	D	255	154.188	116.739	-63.146	1.00	99.39	D	C

ATOM	6294	CE1	TYR	D	255	156.080	115.078	-64.271	1.00	99.39	D	C
ATOM	6295	CE2	TYR	D	255	153.967	115.376	-63.191	1.00	99.39	D	C
ATOM	6296	CZ	TYR	D	255	154.917	114.551	-63.755	1.00	99.39	D	C
ATOM	6297	OH	TYR	D	255	154.701	113.193	-63.802	1.00	99.39	D	O
ATOM	6298	C	TYR	D	255	153.641	119.408	-65.058	1.00	99.39	D	C
ATOM	6299	O	TYR	D	255	153.152	118.411	-65.590	1.00	99.39	D	O
ATOM	6300	N	ARG	D	256	152.909	120.427	-64.621	1.00	167.77	D	N
ATOM	6301	CA	ARG	D	256	151.457	120.441	-64.754	1.00	167.77	D	C
ATOM	6302	CB	ARG	D	256	150.815	121.113	-63.539	1.00	167.77	D	C
ATOM	6303	CG	ARG	D	256	151.070	120.395	-62.224	1.00	167.77	D	C
ATOM	6304	CD	ARG	D	256	150.433	121.138	-61.060	1.00	167.77	D	C
ATOM	6305	NE	ARG	D	256	148.999	121.331	-61.255	1.00	167.77	D	N
ATOM	6306	CZ	ARG	D	256	148.067	120.474	-60.850	1.00	167.77	D	C
ATOM	6307	NH1	ARG	D	256	148.417	119.359	-60.224	1.00	167.77	D	N
ATOM	6308	NH2	ARG	D	256	146.785	120.732	-61.070	1.00	167.77	D	N
ATOM	6309	C	ARG	D	256	151.028	121.156	-66.032	1.00	167.77	D	C
ATOM	6310	O	ARG	D	256	149.838	121.348	-66.278	1.00	167.77	D	O
ATOM	6311	N	PHE	D	257	152.008	121.548	-66.841	1.00	86.55	D	N
ATOM	6312	CA	PHE	D	257	151.736	122.250	-68.089	1.00	86.55	D	C
ATOM	6313	CB	PHE	D	257	153.003	122.940	-68.601	1.00	86.55	D	C
ATOM	6314	CG	PHE	D	257	152.814	123.662	-69.905	1.00	86.55	D	C
ATOM	6315	CD1	PHE	D	257	152.338	124.962	-69.930	1.00	86.55	D	C
ATOM	6316	CD2	PHE	D	257	153.116	123.042	-71.106	1.00	86.55	D	C
ATOM	6317	CE1	PHE	D	257	152.165	125.630	-71.128	1.00	86.55	D	C
ATOM	6318	CE2	PHE	D	257	152.945	123.703	-72.307	1.00	86.55	D	C
ATOM	6319	CZ	PHE	D	257	152.469	124.999	-72.318	1.00	86.55	D	C
ATOM	6320	C	PHE	D	257	151.188	121.305	-69.152	1.00	86.55	D	C
ATOM	6321	O	PHE	D	257	150.185	121.600	-69.800	1.00	86.55	D	O
ATOM	6322	N	VAL	D	258	151.853	120.167	-69.325	1.00	126.69	D	N
ATOM	6323	CA	VAL	D	258	151.447	119.187	-70.325	1.00	126.69	D	C
ATOM	6324	CB	VAL	D	258	152.587	118.205	-70.646	1.00	126.69	D	C
ATOM	6325	CG1	VAL	D	258	153.770	118.945	-71.253	1.00	126.69	D	C
ATOM	6326	CG2	VAL	D	258	153.006	117.450	-69.394	1.00	126.69	D	C
ATOM	6327	C	VAL	D	258	150.222	118.397	-69.874	1.00	126.69	D	C
ATOM	6328	O	VAL	D	258	149.716	117.548	-70.608	1.00	126.69	D	O
ATOM	6329	N	ARG	D	259	149.750	118.682	-68.665	1.00	166.93	D	N
ATOM	6330	CA	ARG	D	259	148.585	117.994	-68.119	1.00	166.93	D	C
ATOM	6331	CB	ARG	D	259	148.708	117.852	-66.600	1.00	166.93	D	C
ATOM	6332	CG	ARG	D	259	147.565	117.087	-65.955	1.00	166.93	D	C
ATOM	6333	CD	ARG	D	259	147.740	116.997	-64.448	1.00	166.93	D	C
ATOM	6334	NE	ARG	D	259	146.678	116.216	-63.820	1.00	166.93	D	N
ATOM	6335	CZ	ARG	D	259	145.530	116.728	-63.387	1.00	166.93	D	C
ATOM	6336	NH1	ARG	D	259	145.292	118.026	-63.512	1.00	166.93	D	N
ATOM	6337	NH2	ARG	D	259	144.621	115.942	-62.828	1.00	166.93	D	N
ATOM	6338	C	ARG	D	259	147.293	118.724	-68.473	1.00	166.93	D	C
ATOM	6339	O	ARG	D	259	146.253	118.099	-68.678	1.00	166.93	D	O
ATOM	6340	N	SER	D	260	147.367	120.049	-68.544	1.00	90.97	D	N
ATOM	6341	CA	SER	D	260	146.201	120.865	-68.866	1.00	90.97	D	C
ATOM	6342	CB	SER	D	260	146.533	122.352	-68.727	1.00	90.97	D	C
ATOM	6343	OG	SER	D	260	146.936	122.664	-67.405	1.00	90.97	D	O
ATOM	6344	C	SER	D	260	145.691	120.570	-70.272	1.00	90.97	D	C
ATOM	6345	O	SER	D	260	146.469	120.252	-71.171	1.00	90.97	D	O
ATOM	6346	N	VAL	D	261	144.378	120.676	-70.455	1.00	94.76	D	N
ATOM	6347	CA	VAL	D	261	143.761	120.412	-71.750	1.00	94.76	D	C
ATOM	6348	CB	VAL	D	261	142.303	119.938	-71.596	1.00	94.76	D	C
ATOM	6349	CG1	VAL	D	261	142.252	118.598	-70.879	1.00	94.76	D	C
ATOM	6350	CG2	VAL	D	261	141.480	120.981	-70.853	1.00	94.76	D	C
ATOM	6351	C	VAL	D	261	143.797	121.645	-72.648	1.00	94.76	D	C
ATOM	6352	O	VAL	D	261	143.751	121.533	-73.872	1.00	94.76	D	O
ATOM	6353	N	MET	D	262	143.878	122.819	-72.031	1.00	60.02	D	N
ATOM	6354	CA	MET	D	262	143.923	124.072	-72.776	1.00	60.02	D	C
ATOM	6355	CB	MET	D	262	143.632	125.257	-71.853	1.00	60.02	D	C
ATOM	6356	CG	MET	D	262	142.248	125.229	-71.225	1.00	60.02	D	C
ATOM	6357	SD	MET	D	262	140.930	125.229	-72.456	1.00	60.02	D	S
ATOM	6358	CE	MET	D	262	139.482	125.212	-71.403	1.00	60.02	D	C
ATOM	6359	C	MET	D	262	145.275	124.257	-73.458	1.00	60.02	D	C
ATOM	6360	O	MET	D	262	145.358	124.816	-74.552	1.00	60.02	D	O
ATOM	6361	N	SER	D	263	146.330	123.782	-72.805	1.00	83.90	D	N

ATOM	6362	CA	SER	D	263	147.679	123.888	-73.347	1.00	83.90	D	C
ATOM	6363	CB	SER	D	263	148.712	123.513	-72.283	1.00	83.90	D	C
ATOM	6364	OG	SER	D	263	148.532	122.176	-71.851	1.00	83.90	D	O
ATOM	6365	C	SER	D	263	147.850	123.000	-74.574	1.00	83.90	D	C
ATOM	6366	O	SER	D	263	148.495	123.388	-75.547	1.00	83.90	D	O
ATOM	6367	N	ILE	D	264	147.268	121.806	-74.519	1.00	88.68	D	N
ATOM	6368	CA	ILE	D	264	147.348	120.860	-75.626	1.00	88.68	D	C
ATOM	6369	CB	ILE	D	264	146.617	119.545	-75.296	1.00	88.68	D	C
ATOM	6370	CG2	ILE	D	264	146.723	118.569	-76.458	1.00	88.68	D	C
ATOM	6371	CG1	ILE	D	264	147.183	118.925	-74.017	1.00	88.68	D	C
ATOM	6372	CD1	ILE	D	264	148.655	118.584	-74.103	1.00	88.68	D	C
ATOM	6373	C	ILE	D	264	146.757	121.454	-76.900	1.00	88.68	D	C
ATOM	6374	O	ILE	D	264	147.316	121.300	-77.986	1.00	88.68	D	O
ATOM	6375	N	ILE	D	265	145.623	122.134	-76.758	1.00	113.98	D	N
ATOM	6376	CA	ILE	D	265	144.960	122.765	-77.892	1.00	113.98	D	C
ATOM	6377	CB	ILE	D	265	143.624	123.411	-77.476	1.00	113.98	D	C
ATOM	6378	CG2	ILE	D	265	142.941	124.047	-78.676	1.00	113.98	D	C
ATOM	6379	CG1	ILE	D	265	142.711	122.371	-76.823	1.00	113.98	D	C
ATOM	6380	CD1	ILE	D	265	141.373	122.923	-76.383	1.00	113.98	D	C
ATOM	6381	C	ILE	D	265	145.855	123.826	-78.525	1.00	113.98	D	C
ATOM	6382	O	ILE	D	265	145.883	123.981	-79.745	1.00	113.98	D	O
ATOM	6383	N	ASP	D	266	146.586	124.553	-77.686	1.00	68.21	D	N
ATOM	6384	CA	ASP	D	266	147.494	125.588	-78.161	1.00	68.21	D	C
ATOM	6385	CB	ASP	D	266	148.007	126.430	-76.991	1.00	68.21	D	C
ATOM	6386	CG	ASP	D	266	146.887	127.108	-76.226	1.00	68.21	D	C
ATOM	6387	OD1	ASP	D	266	145.851	127.427	-76.846	1.00	68.21	D	O
ATOM	6388	OD2	ASP	D	266	147.043	127.322	-75.006	1.00	68.21	D	O
ATOM	6389	C	ASP	D	266	148.667	124.979	-78.923	1.00	68.21	D	C
ATOM	6390	O	ASP	D	266	149.253	125.620	-79.796	1.00	68.21	D	O
ATOM	6391	N	VAL	D	267	149.004	123.738	-78.587	1.00	104.56	D	N
ATOM	6392	CA	VAL	D	267	150.103	123.037	-79.241	1.00	104.56	D	C
ATOM	6393	CB	VAL	D	267	150.599	121.850	-78.394	1.00	104.56	D	C
ATOM	6394	CG1	VAL	D	267	151.698	121.097	-79.129	1.00	104.56	D	C
ATOM	6395	CG2	VAL	D	267	151.091	122.334	-77.039	1.00	104.56	D	C
ATOM	6396	C	VAL	D	267	149.690	122.528	-80.618	1.00	104.56	D	C
ATOM	6397	O	VAL	D	267	150.365	122.787	-81.614	1.00	104.56	D	O
ATOM	6398	N	VAL	D	268	148.576	121.806	-80.666	1.00	100.82	D	N
ATOM	6399	CA	VAL	D	268	148.076	121.240	-81.914	1.00	100.82	D	C
ATOM	6400	CB	VAL	D	268	146.843	120.346	-81.668	1.00	100.82	D	C
ATOM	6401	CG1	VAL	D	268	146.410	119.663	-82.957	1.00	100.82	D	C
ATOM	6402	CG2	VAL	D	268	147.146	119.313	-80.593	1.00	100.82	D	C
ATOM	6403	C	VAL	D	268	147.717	122.336	-82.915	1.00	100.82	D	C
ATOM	6404	O	VAL	D	268	147.605	122.084	-84.115	1.00	100.82	D	O
ATOM	6405	N	ALA	D	269	147.544	123.554	-82.415	1.00	69.40	D	N
ATOM	6406	CA	ALA	D	269	147.168	124.682	-83.259	1.00	69.40	D	C
ATOM	6407	CB	ALA	D	269	146.528	125.781	-82.422	1.00	69.40	D	C
ATOM	6408	C	ALA	D	269	148.356	125.234	-84.045	1.00	69.40	D	C
ATOM	6409	O	ALA	D	269	148.197	126.133	-84.871	1.00	69.40	D	O
ATOM	6410	N	ILE	D	270	149.543	124.694	-83.787	1.00	105.76	D	N
ATOM	6411	CA	ILE	D	270	150.752	125.156	-84.462	1.00	105.76	D	C
ATOM	6412	CB	ILE	D	270	151.615	126.042	-83.539	1.00	105.76	D	C
ATOM	6413	CG2	ILE	D	270	150.830	127.262	-83.082	1.00	105.76	D	C
ATOM	6414	CG1	ILE	D	270	152.116	125.236	-82.339	1.00	105.76	D	C
ATOM	6415	CD1	ILE	D	270	152.957	126.039	-81.372	1.00	105.76	D	C
ATOM	6416	C	ILE	D	270	151.607	124.001	-84.981	1.00	105.76	D	C
ATOM	6417	O	ILE	D	270	152.565	124.215	-85.723	1.00	105.76	D	O
ATOM	6418	N	LEU	D	271	151.257	122.781	-84.587	1.00	71.73	D	N
ATOM	6419	CA	LEU	D	271	152.008	121.599	-85.005	1.00	71.73	D	C
ATOM	6420	CB	LEU	D	271	151.499	120.343	-84.289	1.00	71.73	D	C
ATOM	6421	CG	LEU	D	271	151.737	120.271	-82.779	1.00	71.73	D	C
ATOM	6422	CD1	LEU	D	271	151.129	119.002	-82.201	1.00	71.73	D	C
ATOM	6423	CD2	LEU	D	271	153.223	120.349	-82.467	1.00	71.73	D	C
ATOM	6424	C	LEU	D	271	152.001	121.388	-86.522	1.00	71.73	D	C
ATOM	6425	O	LEU	D	271	153.061	121.232	-87.128	1.00	71.73	D	O
ATOM	6426	N	PRO	D	272	150.808	121.382	-87.140	1.00	85.42	D	N
ATOM	6427	CA	PRO	D	272	150.719	121.159	-88.588	1.00	85.42	D	C
ATOM	6428	CD	PRO	D	272	149.476	121.540	-86.529	1.00	85.42	D	C
ATOM	6429	CB	PRO	D	272	149.229	121.357	-88.879	1.00	85.42	D	C

ATOM	6430	CG	PRO	D	272	148.552	121.036	-87.595	1.00	85.42	D	C
ATOM	6431	C	PRO	D	272	151.543	122.164	-89.388	1.00	85.42	D	C
ATOM	6432	O	PRO	D	272	151.918	121.881	-90.526	1.00	85.42	D	O
ATOM	6433	N	TYR	D	273	151.818	123.322	-88.798	1.00	80.36	D	N
ATOM	6434	CA	TYR	D	273	152.580	124.364	-89.477	1.00	80.36	D	C
ATOM	6435	CB	TYR	D	273	152.438	125.698	-88.741	1.00	80.36	D	C
ATOM	6436	CG	TYR	D	273	153.165	126.845	-89.407	1.00	80.36	D	C
ATOM	6437	CD1	TYR	D	273	152.559	127.584	-90.415	1.00	80.36	D	C
ATOM	6438	CD2	TYR	D	273	154.455	127.188	-89.028	1.00	80.36	D	C
ATOM	6439	CE1	TYR	D	273	153.219	128.633	-91.027	1.00	80.36	D	C
ATOM	6440	CE2	TYR	D	273	155.123	128.235	-89.634	1.00	80.36	D	C
ATOM	6441	CZ	TYR	D	273	154.501	128.954	-90.633	1.00	80.36	D	C
ATOM	6442	OH	TYR	D	273	155.162	129.998	-91.239	1.00	80.36	D	O
ATOM	6443	C	TYR	D	273	154.053	123.990	-89.604	1.00	80.36	D	C
ATOM	6444	O	TYR	D	273	154.605	123.970	-90.705	1.00	80.36	D	O
ATOM	6445	N	TYR	D	274	154.685	123.693	-88.473	1.00	58.29	D	N
ATOM	6446	CA	TYR	D	274	156.101	123.345	-88.455	1.00	58.29	D	C
ATOM	6447	CB	TYR	D	274	156.636	123.350	-87.022	1.00	58.29	D	C
ATOM	6448	CG	TYR	D	274	156.601	124.710	-86.364	1.00	58.29	D	C
ATOM	6449	CD1	TYR	D	274	155.504	125.113	-85.615	1.00	58.29	D	C
ATOM	6450	CD2	TYR	D	274	157.665	125.593	-86.495	1.00	58.29	D	C
ATOM	6451	CE1	TYR	D	274	155.468	126.357	-85.013	1.00	58.29	D	C
ATOM	6452	CE2	TYR	D	274	157.638	126.838	-85.896	1.00	58.29	D	C
ATOM	6453	CZ	TYR	D	274	156.537	127.215	-85.157	1.00	58.29	D	C
ATOM	6454	OH	TYR	D	274	156.507	128.454	-84.560	1.00	58.29	D	O
ATOM	6455	C	TYR	D	274	156.359	121.991	-89.109	1.00	58.29	D	C
ATOM	6456	O	TYR	D	274	157.306	121.835	-89.879	1.00	58.29	D	O
ATOM	6457	N	ILE	D	275	155.512	121.016	-88.796	1.00	98.26	D	N
ATOM	6458	CA	ILE	D	275	155.654	119.672	-89.346	1.00	98.26	D	C
ATOM	6459	CB	ILE	D	275	154.597	118.710	-88.768	1.00	98.26	D	C
ATOM	6460	CG2	ILE	D	275	154.726	117.333	-89.400	1.00	98.26	D	C
ATOM	6461	CG1	ILE	D	275	154.737	118.616	-87.248	1.00	98.26	D	C
ATOM	6462	CD1	ILE	D	275	153.723	117.701	-86.597	1.00	98.26	D	C
ATOM	6463	C	ILE	D	275	155.550	119.678	-90.869	1.00	98.26	D	C
ATOM	6464	O	ILE	D	275	156.308	118.994	-91.555	1.00	98.26	D	O
ATOM	6465	N	GLY	D	276	154.608	120.457	-91.390	1.00	33.27	D	N
ATOM	6466	CA	GLY	D	276	154.400	120.547	-92.824	1.00	33.27	D	C
ATOM	6467	C	GLY	D	276	155.578	121.163	-93.554	1.00	33.27	D	C
ATOM	6468	O	GLY	D	276	155.960	120.706	-94.630	1.00	33.27	D	O
ATOM	6469	N	LEU	D	277	156.155	122.206	-92.965	1.00	135.89	D	N
ATOM	6470	CA	LEU	D	277	157.282	122.903	-93.574	1.00	135.89	D	C
ATOM	6471	CB	LEU	D	277	157.624	124.165	-92.780	1.00	135.89	D	C
ATOM	6472	CG	LEU	D	277	158.797	124.996	-93.303	1.00	135.89	D	C
ATOM	6473	CD1	LEU	D	277	158.566	125.402	-94.751	1.00	135.89	D	C
ATOM	6474	CD2	LEU	D	277	159.021	126.220	-92.428	1.00	135.89	D	C
ATOM	6475	C	LEU	D	277	158.509	122.002	-93.677	1.00	135.89	D	C
ATOM	6476	O	LEU	D	277	159.238	122.044	-94.668	1.00	135.89	D	O
ATOM	6477	N	VAL	D	278	158.730	121.189	-92.650	1.00	91.77	D	N
ATOM	6478	CA	VAL	D	278	159.878	120.292	-92.618	1.00	91.77	D	C
ATOM	6479	CB	VAL	D	278	160.126	119.744	-91.199	1.00	91.77	D	C
ATOM	6480	CG1	VAL	D	278	161.295	118.770	-91.203	1.00	91.77	D	C
ATOM	6481	CG2	VAL	D	278	160.379	120.884	-90.227	1.00	91.77	D	C
ATOM	6482	C	VAL	D	278	159.700	119.123	-93.581	1.00	91.77	D	C
ATOM	6483	O	VAL	D	278	160.628	118.752	-94.300	1.00	91.77	D	O
ATOM	6484	N	MET	D	279	158.502	118.549	-93.592	1.00	131.98	D	N
ATOM	6485	CA	MET	D	279	158.210	117.400	-94.443	1.00	131.98	D	C
ATOM	6486	CB	MET	D	279	156.816	116.846	-94.141	1.00	131.98	D	C
ATOM	6487	CG	MET	D	279	156.448	115.618	-94.957	1.00	131.98	D	C
ATOM	6488	SD	MET	D	279	154.825	114.957	-94.535	1.00	131.98	D	S
ATOM	6489	CE	MET	D	279	155.067	114.532	-92.812	1.00	131.98	D	C
ATOM	6490	C	MET	D	279	158.329	117.748	-95.924	1.00	131.98	D	C
ATOM	6491	O	MET	D	279	158.967	117.026	-96.690	1.00	131.98	D	O
ATOM	6492	N	THR	D	280	157.712	118.856	-96.322	1.00	57.64	D	N
ATOM	6493	CA	THR	D	280	157.742	119.290	-97.715	1.00	57.64	D	C
ATOM	6494	CB	THR	D	280	156.803	120.487	-97.957	1.00	57.64	D	C
ATOM	6495	OG1	THR	D	280	157.182	121.575	-97.106	1.00	57.64	D	O
ATOM	6496	CG2	THR	D	280	155.361	120.100	-97.667	1.00	57.64	D	C
ATOM	6497	C	THR	D	280	159.153	119.665	-98.156	1.00	57.64	D	C

ATOM	6498	O	THR	D	280	159.459	119.675	-99.348	1.00	57.64	D	O
ATOM	6499	N	ASP	D	281	160.009	119.975	-97.187	1.00	89.40	D	N
ATOM	6500	CA	ASP	D	281	161.390	120.342	-97.475	1.00	89.40	D	C
ATOM	6501	CB	ASP	D	281	161.986	121.135	-96.310	1.00	89.40	D	C
ATOM	6502	CG	ASP	D	281	163.315	121.779	-96.657	1.00	89.40	D	C
ATOM	6503	OD1	ASP	D	281	164.055	121.219	-97.493	1.00	89.40	D	O
ATOM	6504	OD2	ASP	D	281	163.621	122.850	-96.092	1.00	89.40	D	O
ATOM	6505	C	ASP	D	281	162.228	119.098	-97.749	1.00	89.40	D	C
ATOM	6506	O	ASP	D	281	162.976	119.043	-98.725	1.00	89.40	D	O
ATOM	6507	N	ASN	D	282	162.095	118.101	-96.881	1.00	77.30	D	N
ATOM	6508	CA	ASN	D	282	162.846	116.858	-97.018	1.00	77.30	D	C
ATOM	6509	CB	ASN	D	282	162.624	115.963	-95.798	1.00	77.30	D	C
ATOM	6510	CG	ASN	D	282	163.082	116.612	-94.507	1.00	77.30	D	C
ATOM	6511	OD1	ASN	D	282	164.013	117.417	-94.499	1.00	77.30	D	O
ATOM	6512	ND2	ASN	D	282	162.427	116.264	-93.405	1.00	77.30	D	N
ATOM	6513	C	ASN	D	282	162.494	116.101	-98.295	1.00	77.30	D	C
ATOM	6514	O	ASN	D	282	163.351	115.875	-99.150	1.00	77.30	D	O
ATOM	6515	N	GLU	D	283	161.229	115.712	-98.418	1.00	247.84	D	N
ATOM	6516	CA	GLU	D	283	160.768	114.968	-99.584	1.00	247.84	D	C
ATOM	6517	CB	GLU	D	283	160.652	113.477	-99.256	1.00	247.84	D	C
ATOM	6518	CG	GLU	D	283	160.214	112.604	-100.424	1.00	247.84	D	C
ATOM	6519	CD	GLU	D	283	161.260	112.508	-101.521	1.00	247.84	D	C
ATOM	6520	OE1	GLU	D	283	161.832	113.550	-101.903	1.00	247.84	D	O
ATOM	6521	OE2	GLU	D	283	161.512	111.383	-102.002	1.00	247.84	D	O
ATOM	6522	C	GLU	D	283	159.433	115.502	-100.094	1.00	247.84	D	C
ATOM	6523	O	GLU	D	283	158.583	115.927	-99.311	1.00	247.84	D	O
ATOM	6524	N	ASP	D	284	159.256	115.477	-101.411	1.00	243.54	D	N
ATOM	6525	CA	ASP	D	284	158.038	115.984	-102.034	1.00	243.54	D	C
ATOM	6526	CB	ASP	D	284	158.371	116.775	-103.304	1.00	243.54	D	C
ATOM	6527	CG	ASP	D	284	159.114	115.944	-104.335	1.00	243.54	D	C
ATOM	6528	OD1	ASP	D	284	159.867	115.028	-103.942	1.00	243.54	D	O
ATOM	6529	OD2	ASP	D	284	158.944	116.209	-105.544	1.00	243.54	D	O
ATOM	6530	C	ASP	D	284	157.045	114.867	-102.347	1.00	243.54	D	C
ATOM	6531	O	ASP	D	284	156.832	114.517	-103.509	1.00	243.54	D	O
ATOM	6532	N	VAL	D	285	156.437	114.311	-101.304	1.00	154.00	D	N
ATOM	6533	CA	VAL	D	285	155.437	113.262	-101.469	1.00	154.00	D	C
ATOM	6534	CB	VAL	D	285	155.769	112.022	-100.617	1.00	154.00	D	C
ATOM	6535	CG1	VAL	D	285	157.024	111.339	-101.139	1.00	154.00	D	C
ATOM	6536	CG2	VAL	D	285	155.928	112.410	-99.154	1.00	154.00	D	C
ATOM	6537	C	VAL	D	285	154.047	113.767	-101.097	1.00	154.00	D	C
ATOM	6538	O	VAL	D	285	153.854	114.958	-100.854	1.00	154.00	D	O
ATOM	6539	N	SER	D	286	153.082	112.854	-101.055	1.00	204.33	D	N
ATOM	6540	CA	SER	D	286	151.708	113.207	-100.720	1.00	204.33	D	C
ATOM	6541	CB	SER	D	286	150.908	113.508	-101.988	1.00	204.33	D	C
ATOM	6542	OG	SER	D	286	151.489	114.575	-102.717	1.00	204.33	D	O
ATOM	6543	C	SER	D	286	151.029	112.098	-99.924	1.00	204.33	D	C
ATOM	6544	O	SER	D	286	151.211	110.914	-100.210	1.00	204.33	D	O
ATOM	6545	N	GLY	D	287	150.247	112.488	-98.923	1.00	74.32	D	N
ATOM	6546	CA	GLY	D	287	149.531	111.531	-98.099	1.00	74.32	D	C
ATOM	6547	C	GLY	D	287	149.756	111.742	-96.614	1.00	74.32	D	C
ATOM	6548	O	GLY	D	287	148.830	111.614	-95.813	1.00	74.32	D	O
ATOM	6549	N	ALA	D	288	150.991	112.065	-96.246	1.00	54.17	D	N
ATOM	6550	CA	ALA	D	288	151.344	112.267	-94.845	1.00	54.17	D	C
ATOM	6551	CB	ALA	D	288	152.833	112.039	-94.636	1.00	54.17	D	C
ATOM	6552	C	ALA	D	288	150.941	113.656	-94.357	1.00	54.17	D	C
ATOM	6553	O	ALA	D	288	150.197	113.789	-93.386	1.00	54.17	D	O
ATOM	6554	N	PHE	D	289	151.436	114.686	-95.036	1.00	205.64	D	N
ATOM	6555	CA	PHE	D	289	151.144	116.066	-94.657	1.00	205.64	D	C
ATOM	6556	CB	PHE	D	289	152.112	117.037	-95.344	1.00	205.64	D	C
ATOM	6557	CG	PHE	D	289	151.950	117.110	-96.839	1.00	205.64	D	C
ATOM	6558	CD1	PHE	D	289	151.434	116.042	-97.554	1.00	205.64	D	C
ATOM	6559	CD2	PHE	D	289	152.319	118.253	-97.529	1.00	205.64	D	C
ATOM	6560	CE1	PHE	D	289	151.288	116.113	-98.927	1.00	205.64	D	C
ATOM	6561	CE2	PHE	D	289	152.175	118.330	-98.901	1.00	205.64	D	C
ATOM	6562	CZ	PHE	D	289	151.660	117.259	-99.600	1.00	205.64	D	C
ATOM	6563	C	PHE	D	289	149.699	116.452	-94.963	1.00	205.64	D	C
ATOM	6564	O	PHE	D	289	149.256	117.549	-94.626	1.00	205.64	D	O
ATOM	6565	N	VAL	D	290	148.972	115.544	-95.605	1.00	43.82	D	N

ATOM	6566	CA	VAL	D	290	147.571	115.779	-95.933	1.00	43.82	D	C
ATOM	6567	CB	VAL	D	290	147.063	114.776	-96.988	1.00	43.82	D	C
ATOM	6568	CG1	VAL	D	290	145.588	115.008	-97.276	1.00	43.82	D	C
ATOM	6569	CG2	VAL	D	290	147.885	114.887	-98.263	1.00	43.82	D	C
ATOM	6570	C	VAL	D	290	146.702	115.682	-94.684	1.00	43.82	D	C
ATOM	6571	O	VAL	D	290	145.734	116.428	-94.528	1.00	43.82	D	O
ATOM	6572	N	THR	D	291	147.056	114.760	-93.794	1.00	50.43	D	N
ATOM	6573	CA	THR	D	291	146.316	114.565	-92.554	1.00	50.43	D	C
ATOM	6574	CB	THR	D	291	146.759	113.280	-91.827	1.00	50.43	D	C
ATOM	6575	OG1	THR	D	291	146.599	112.154	-92.700	1.00	50.43	D	O
ATOM	6576	CG2	THR	D	291	145.931	113.064	-90.571	1.00	50.43	D	C
ATOM	6577	C	THR	D	291	146.486	115.757	-91.617	1.00	50.43	D	C
ATOM	6578	O	THR	D	291	145.543	116.167	-90.941	1.00	50.43	D	O
ATOM	6579	N	LEU	D	292	147.695	116.311	-91.583	1.00	89.67	D	N
ATOM	6580	CA	LEU	D	292	147.990	117.462	-90.736	1.00	89.67	D	C
ATOM	6581	CB	LEU	D	292	149.481	117.809	-90.789	1.00	89.67	D	C
ATOM	6582	CG	LEU	D	292	150.458	116.881	-90.060	1.00	89.67	D	C
ATOM	6583	CD1	LEU	D	292	150.110	116.793	-88.581	1.00	89.67	D	C
ATOM	6584	CD2	LEU	D	292	150.488	115.496	-90.690	1.00	89.67	D	C
ATOM	6585	C	LEU	D	292	147.157	118.674	-91.140	1.00	89.67	D	C
ATOM	6586	O	LEU	D	292	146.876	119.548	-90.319	1.00	89.67	D	O
ATOM	6587	N	ARG	D	293	146.768	118.722	-92.409	1.00	153.52	D	N
ATOM	6588	CA	ARG	D	293	145.946	119.811	-92.919	1.00	153.52	D	C
ATOM	6589	CB	ARG	D	293	145.746	119.662	-94.430	1.00	153.52	D	C
ATOM	6590	CG	ARG	D	293	145.317	120.936	-95.150	1.00	153.52	D	C
ATOM	6591	CD	ARG	D	293	143.877	121.309	-94.839	1.00	153.52	D	C
ATOM	6592	NE	ARG	D	293	143.456	122.510	-95.554	1.00	153.52	D	N
ATOM	6593	CZ	ARG	D	293	142.263	123.079	-95.419	1.00	153.52	D	C
ATOM	6594	NH1	ARG	D	293	141.369	122.558	-94.592	1.00	153.52	D	N
ATOM	6595	NH2	ARG	D	293	141.964	124.171	-96.110	1.00	153.52	D	N
ATOM	6596	C	ARG	D	293	144.601	119.824	-92.200	1.00	153.52	D	C
ATOM	6597	O	ARG	D	293	144.095	120.881	-91.824	1.00	153.52	D	O
ATOM	6598	N	VAL	D	294	144.031	118.639	-92.007	1.00	148.57	D	N
ATOM	6599	CA	VAL	D	294	142.755	118.503	-91.315	1.00	148.57	D	C
ATOM	6600	CB	VAL	D	294	142.243	117.050	-91.362	1.00	148.57	D	C
ATOM	6601	CG1	VAL	D	294	140.901	116.935	-90.656	1.00	148.57	D	C
ATOM	6602	CG2	VAL	D	294	142.135	116.574	-92.802	1.00	148.57	D	C
ATOM	6603	C	VAL	D	294	142.873	118.948	-89.860	1.00	148.57	D	C
ATOM	6604	O	VAL	D	294	141.923	119.478	-89.282	1.00	148.57	D	O
ATOM	6605	N	PHE	D	295	144.047	118.733	-89.274	1.00	171.25	D	N
ATOM	6606	CA	PHE	D	295	144.292	119.107	-87.886	1.00	171.25	D	C
ATOM	6607	CB	PHE	D	295	145.595	118.483	-87.383	1.00	171.25	D	C
ATOM	6608	CG	PHE	D	295	145.568	116.982	-87.333	1.00	171.25	D	C
ATOM	6609	CD1	PHE	D	295	144.365	116.298	-87.301	1.00	171.25	D	C
ATOM	6610	CD2	PHE	D	295	146.747	116.255	-87.316	1.00	171.25	D	C
ATOM	6611	CE1	PHE	D	295	144.337	114.917	-87.254	1.00	171.25	D	C
ATOM	6612	CE2	PHE	D	295	146.726	114.874	-87.270	1.00	171.25	D	C
ATOM	6613	CZ	PHE	D	295	145.519	114.204	-87.239	1.00	171.25	D	C
ATOM	6614	C	PHE	D	295	144.336	120.622	-87.712	1.00	171.25	D	C
ATOM	6615	O	PHE	D	295	144.284	121.128	-86.591	1.00	171.25	D	O
ATOM	6616	N	ARG	D	296	144.432	121.341	-88.825	1.00	159.61	D	N
ATOM	6617	CA	ARG	D	296	144.465	122.798	-88.794	1.00	159.61	D	C
ATOM	6618	CB	ARG	D	296	144.985	123.352	-90.122	1.00	159.61	D	C
ATOM	6619	CG	ARG	D	296	146.395	122.904	-90.472	1.00	159.61	D	C
ATOM	6620	CD	ARG	D	296	146.842	123.462	-91.815	1.00	159.61	D	C
ATOM	6621	NE	ARG	D	296	146.870	124.922	-91.825	1.00	159.61	D	N
ATOM	6622	CZ	ARG	D	296	145.881	125.687	-92.276	1.00	159.61	D	C
ATOM	6623	NH1	ARG	D	296	144.778	125.132	-92.760	1.00	159.61	D	N
ATOM	6624	NH2	ARG	D	296	145.995	127.008	-92.245	1.00	159.61	D	N
ATOM	6625	C	ARG	D	296	143.085	123.372	-88.490	1.00	159.61	D	C
ATOM	6626	O	ARG	D	296	142.931	124.578	-88.300	1.00	159.61	D	O
ATOM	6627	N	VAL	D	297	142.084	122.499	-88.445	1.00	167.62	D	N
ATOM	6628	CA	VAL	D	297	140.719	122.912	-88.145	1.00	167.62	D	C
ATOM	6629	CB	VAL	D	297	139.691	121.968	-88.802	1.00	167.62	D	C
ATOM	6630	CG1	VAL	D	297	138.274	122.465	-88.557	1.00	167.62	D	C
ATOM	6631	CG2	VAL	D	297	139.963	121.845	-90.292	1.00	167.62	D	C
ATOM	6632	C	VAL	D	297	140.491	122.944	-86.637	1.00	167.62	D	C
ATOM	6633	O	VAL	D	297	139.562	123.589	-86.151	1.00	167.62	D	O

ATOM	6634	N	PHE	D	298	141.353	122.251	-85.901	1.00	121.45	D	N
ATOM	6635	CA	PHE	D	298	141.237	122.176	-84.449	1.00	121.45	D	C
ATOM	6636	CB	PHE	D	298	142.102	121.039	-83.900	1.00	121.45	D	C
ATOM	6637	CG	PHE	D	298	141.667	119.674	-84.352	1.00	121.45	D	C
ATOM	6638	CD1	PHE	D	298	140.382	119.461	-84.822	1.00	121.45	D	C
ATOM	6639	CD2	PHE	D	298	142.544	118.603	-84.306	1.00	121.45	D	C
ATOM	6640	CE1	PHE	D	298	139.979	118.206	-85.238	1.00	121.45	D	C
ATOM	6641	CE2	PHE	D	298	142.147	117.346	-84.721	1.00	121.45	D	C
ATOM	6642	CZ	PHE	D	298	140.863	117.147	-85.188	1.00	121.45	D	C
ATOM	6643	C	PHE	D	298	141.608	123.492	-83.772	1.00	121.45	D	C
ATOM	6644	O	PHE	D	298	141.609	123.589	-82.545	1.00	121.45	D	O
ATOM	6645	N	ARG	D	299	141.923	124.503	-84.576	1.00	168.10	D	N
ATOM	6646	CA	ARG	D	299	142.263	125.819	-84.047	1.00	168.10	D	C
ATOM	6647	CB	ARG	D	299	142.951	126.669	-85.117	1.00	168.10	D	C
ATOM	6648	CG	ARG	D	299	142.096	126.933	-86.346	1.00	168.10	D	C
ATOM	6649	CD	ARG	D	299	142.852	127.758	-87.375	1.00	168.10	D	C
ATOM	6650	NE	ARG	D	299	144.085	127.102	-87.799	1.00	168.10	D	N
ATOM	6651	CZ	ARG	D	299	144.912	127.586	-88.720	1.00	168.10	D	C
ATOM	6652	NH1	ARG	D	299	144.638	128.736	-89.321	1.00	168.10	D	N
ATOM	6653	NH2	ARG	D	299	146.012	126.920	-89.042	1.00	168.10	D	N
ATOM	6654	C	ARG	D	299	141.019	126.531	-83.528	1.00	168.10	D	C
ATOM	6655	O	ARG	D	299	141.112	127.579	-82.888	1.00	168.10	D	O
ATOM	6656	N	ILE	D	300	139.855	125.955	-83.810	1.00	203.46	D	N
ATOM	6657	CA	ILE	D	300	138.588	126.514	-83.357	1.00	203.46	D	C
ATOM	6658	CB	ILE	D	300	137.411	125.993	-84.202	1.00	203.46	D	C
ATOM	6659	CG2	ILE	D	300	136.117	126.686	-83.803	1.00	203.46	D	C
ATOM	6660	CG1	ILE	D	300	137.696	126.196	-85.691	1.00	203.46	D	C
ATOM	6661	CD1	ILE	D	300	136.608	125.671	-86.598	1.00	203.46	D	C
ATOM	6662	C	ILE	D	300	138.347	126.174	-81.890	1.00	203.46	D	C
ATOM	6663	O	ILE	D	300	137.604	126.866	-81.194	1.00	203.46	D	O
ATOM	6664	N	PHE	D	301	138.985	125.105	-81.425	1.00	106.14	D	N
ATOM	6665	CA	PHE	D	301	138.860	124.682	-80.034	1.00	106.14	D	C
ATOM	6666	CB	PHE	D	301	139.368	123.249	-79.861	1.00	106.14	D	C
ATOM	6667	CG	PHE	D	301	138.546	122.222	-80.585	1.00	106.14	D	C
ATOM	6668	CD1	PHE	D	301	137.226	122.479	-80.915	1.00	106.14	D	C
ATOM	6669	CD2	PHE	D	301	139.093	120.999	-80.937	1.00	106.14	D	C
ATOM	6670	CE1	PHE	D	301	136.468	121.537	-81.581	1.00	106.14	D	C
ATOM	6671	CE2	PHE	D	301	138.339	120.052	-81.603	1.00	106.14	D	C
ATOM	6672	CZ	PHE	D	301	137.025	120.322	-81.926	1.00	106.14	D	C
ATOM	6673	C	PHE	D	301	139.618	125.621	-79.101	1.00	106.14	D	C
ATOM	6674	O	PHE	D	301	139.701	125.379	-77.898	1.00	106.14	D	O
ATOM	6675	N	LYS	D	302	140.169	126.692	-79.663	1.00	168.00	D	N
ATOM	6676	CA	LYS	D	302	140.929	127.660	-78.882	1.00	168.00	D	C
ATOM	6677	CB	LYS	D	302	141.921	128.409	-79.776	1.00	168.00	D	C
ATOM	6678	CG	LYS	D	302	142.936	129.248	-79.017	1.00	168.00	D	C
ATOM	6679	CD	LYS	D	302	143.941	129.887	-79.961	1.00	168.00	D	C
ATOM	6680	CE	LYS	D	302	144.703	128.839	-80.755	1.00	168.00	D	C
ATOM	6681	NZ	LYS	D	302	145.478	127.926	-79.871	1.00	168.00	D	N
ATOM	6682	C	LYS	D	302	139.996	128.642	-78.178	1.00	168.00	D	C
ATOM	6683	O	LYS	D	302	140.407	129.356	-77.263	1.00	168.00	D	O
ATOM	6684	N	PHE	D	303	138.739	128.670	-78.608	1.00	83.96	D	N
ATOM	6685	CA	PHE	D	303	137.738	129.530	-77.987	1.00	83.96	D	C
ATOM	6686	CB	PHE	D	303	136.491	129.639	-78.868	1.00	83.96	D	C
ATOM	6687	CG	PHE	D	303	136.705	130.422	-80.131	1.00	83.96	D	C
ATOM	6688	CD1	PHE	D	303	136.686	131.806	-80.114	1.00	83.96	D	C
ATOM	6689	CD2	PHE	D	303	136.912	129.774	-81.338	1.00	83.96	D	C
ATOM	6690	CE1	PHE	D	303	136.879	132.531	-81.275	1.00	83.96	D	C
ATOM	6691	CE2	PHE	D	303	137.105	130.493	-82.502	1.00	83.96	D	C
ATOM	6692	CZ	PHE	D	303	137.088	131.873	-82.470	1.00	83.96	D	C
ATOM	6693	C	PHE	D	303	137.352	129.013	-76.605	1.00	83.96	D	C
ATOM	6694	O	PHE	D	303	136.679	129.704	-75.841	1.00	83.96	D	O
ATOM	6695	N	SER	D	304	137.780	127.795	-76.292	1.00	64.30	D	N
ATOM	6696	CA	SER	D	304	137.479	127.183	-75.002	1.00	64.30	D	C
ATOM	6697	CB	SER	D	304	137.942	125.725	-74.978	1.00	64.30	D	C
ATOM	6698	OG	SER	D	304	139.343	125.632	-75.168	1.00	64.30	D	O
ATOM	6699	C	SER	D	304	138.129	127.958	-73.861	1.00	64.30	D	C
ATOM	6700	O	SER	D	304	137.650	127.932	-72.728	1.00	64.30	D	O
ATOM	6701	N	ARG	D	305	139.224	128.646	-74.169	1.00	148.97	D	N

ATOM	6702	CA	ARG	D	305	139.934	129.439	-73.174	1.00148.97	D	C
ATOM	6703	CB	ARG	D	305	141.396	129.624	-73.586	1.00148.97	D	C
ATOM	6704	CG	ARG	D	305	142.274	130.250	-72.515	1.00148.97	D	C
ATOM	6705	CD	ARG	D	305	143.717	130.353	-72.978	1.00148.97	D	C
ATOM	6706	NE	ARG	D	305	144.589	130.889	-71.937	1.00148.97	D	N
ATOM	6707	CZ	ARG	D	305	145.224	130.144	-71.038	1.00148.97	D	C
ATOM	6708	NH1	ARG	D	305	145.086	128.826	-71.050	1.00148.97	D	N
ATOM	6709	NH2	ARG	D	305	145.998	130.718	-70.127	1.00148.97	D	N
ATOM	6710	C	ARG	D	305	139.260	130.795	-72.991	1.00148.97	D	C
ATOM	6711	O	ARG	D	305	139.554	131.526	-72.045	1.00148.97	D	O
ATOM	6712	N	HIS	D	306	138.350	131.123	-73.902	1.00 99.22	D	N
ATOM	6713	CA	HIS	D	306	137.629	132.388	-73.847	1.00 99.22	D	C
ATOM	6714	ND1	HIS	D	306	139.825	132.346	-76.118	1.00 99.22	D	N
ATOM	6715	CG	HIS	D	306	138.902	133.328	-75.827	1.00 99.22	D	C
ATOM	6716	CB	HIS	D	306	137.561	133.027	-75.235	1.00 99.22	D	C
ATOM	6717	NE2	HIS	D	306	140.726	134.208	-76.675	1.00 99.22	D	N
ATOM	6718	CD2	HIS	D	306	139.478	134.501	-76.182	1.00 99.22	D	C
ATOM	6719	CE1	HIS	D	306	140.910	132.901	-76.626	1.00 99.22	D	C
ATOM	6720	C	HIS	D	306	136.222	132.197	-73.290	1.00 99.22	D	C
ATOM	6721	O	HIS	D	306	135.854	132.803	-72.284	1.00 99.22	D	O
ATOM	6722	N	SER	D	307	135.439	131.351	-73.952	1.00102.77	D	N
ATOM	6723	CA	SER	D	307	134.073	131.076	-73.525	1.00102.77	D	C
ATOM	6724	CB	SER	D	307	133.192	130.742	-74.730	1.00102.77	D	C
ATOM	6725	OG	SER	D	307	133.161	131.816	-75.653	1.00102.77	D	O
ATOM	6726	C	SER	D	307	134.032	129.938	-72.510	1.00102.77	D	C
ATOM	6727	O	SER	D	307	134.923	129.090	-72.478	1.00102.77	D	O
ATOM	6728	N	GLN	D	308	132.991	129.926	-71.685	1.00121.93	D	N
ATOM	6729	CA	GLN	D	308	132.839	128.905	-70.655	1.00121.93	D	C
ATOM	6730	CB	GLN	D	308	132.268	129.520	-69.376	1.00121.93	D	C
ATOM	6731	CG	GLN	D	308	133.082	130.682	-68.829	1.00121.93	D	C
ATOM	6732	CD	GLN	D	308	134.482	130.271	-68.417	1.00121.93	D	C
ATOM	6733	OE1	GLN	D	308	134.666	129.302	-67.682	1.00121.93	D	O
ATOM	6734	NE2	GLN	D	308	135.480	131.006	-68.894	1.00121.93	D	N
ATOM	6735	C	GLN	D	308	131.940	127.769	-71.134	1.00121.93	D	C
ATOM	6736	O	GLN	D	308	131.696	126.808	-70.405	1.00121.93	D	O
ATOM	6737	N	GLY	D	309	131.449	127.889	-72.364	1.00 30.52	D	N
ATOM	6738	CA	GLY	D	309	130.581	126.879	-72.941	1.00 30.52	D	C
ATOM	6739	C	GLY	D	309	131.325	125.611	-73.312	1.00 30.52	D	C
ATOM	6740	O	GLY	D	309	130.844	124.505	-73.068	1.00 30.52	D	O
ATOM	6741	N	LEU	D	310	132.503	125.773	-73.907	1.00101.35	D	N
ATOM	6742	CA	LEU	D	310	133.319	124.635	-74.311	1.00101.35	D	C
ATOM	6743	CB	LEU	D	310	134.396	125.070	-75.307	1.00101.35	D	C
ATOM	6744	CG	LEU	D	310	133.896	125.660	-76.627	1.00101.35	D	C
ATOM	6745	CD1	LEU	D	310	135.066	126.101	-77.493	1.00101.35	D	C
ATOM	6746	CD2	LEU	D	310	133.024	124.657	-77.367	1.00101.35	D	C
ATOM	6747	C	LEU	D	310	133.963	123.960	-73.105	1.00101.35	D	C
ATOM	6748	O	LEU	D	310	134.314	122.782	-73.156	1.00101.35	D	O
ATOM	6749	N	ARG	D	311	134.119	124.715	-72.023	1.00108.34	D	N
ATOM	6750	CA	ARG	D	311	134.691	124.178	-70.795	1.00108.34	D	C
ATOM	6751	CB	ARG	D	311	135.022	125.305	-69.815	1.00108.34	D	C
ATOM	6752	CG	ARG	D	311	136.112	126.249	-70.295	1.00108.34	D	C
ATOM	6753	CD	ARG	D	311	136.423	127.303	-69.246	1.00108.34	D	C
ATOM	6754	NE	ARG	D	311	136.805	126.704	-67.970	1.00108.34	D	N
ATOM	6755	CZ	ARG	D	311	138.058	126.438	-67.615	1.00108.34	D	C
ATOM	6756	NH1	ARG	D	311	139.057	126.720	-68.439	1.00108.34	D	N
ATOM	6757	NH2	ARG	D	311	138.312	125.891	-66.434	1.00108.34	D	N
ATOM	6758	C	ARG	D	311	133.743	123.177	-70.145	1.00108.34	D	C
ATOM	6759	O	ARG	D	311	134.157	122.093	-69.732	1.00108.34	D	O
ATOM	6760	N	ILE	D	312	132.469	123.547	-70.057	1.00 41.79	D	N
ATOM	6761	CA	ILE	D	312	131.459	122.676	-69.467	1.00 41.79	D	C
ATOM	6762	CB	ILE	D	312	130.131	123.421	-69.241	1.00 41.79	D	C
ATOM	6763	CG2	ILE	D	312	129.100	122.494	-68.615	1.00 41.79	D	C
ATOM	6764	CG1	ILE	D	312	130.352	124.653	-68.361	1.00 41.79	D	C
ATOM	6765	CD1	ILE	D	312	129.094	125.449	-68.098	1.00 41.79	D	C
ATOM	6766	C	ILE	D	312	131.208	121.460	-70.351	1.00 41.79	D	C
ATOM	6767	O	ILE	D	312	131.136	120.332	-69.864	1.00 41.79	D	O
ATOM	6768	N	LEU	D	313	131.075	121.698	-71.651	1.00 49.07	D	N
ATOM	6769	CA	LEU	D	313	130.849	120.623	-72.610	1.00 49.07	D	C

ATOM	6770	CB	LEU	D	313	130.598	121.196	-74.006	1.00	49.07	D	C
ATOM	6771	CG	LEU	D	313	130.335	120.183	-75.122	1.00	49.07	D	C
ATOM	6772	CD1	LEU	D	313	129.142	119.305	-74.780	1.00	49.07	D	C
ATOM	6773	CD2	LEU	D	313	130.120	120.890	-76.452	1.00	49.07	D	C
ATOM	6774	C	LEU	D	313	132.031	119.661	-72.643	1.00	49.07	D	C
ATOM	6775	O	LEU	D	313	131.859	118.456	-72.829	1.00	49.07	D	O
ATOM	6776	N	GLY	D	314	133.232	120.201	-72.462	1.00	27.86	D	N
ATOM	6777	CA	GLY	D	314	134.439	119.395	-72.461	1.00	27.86	D	C
ATOM	6778	C	GLY	D	314	134.512	118.468	-71.264	1.00	27.86	D	C
ATOM	6779	O	GLY	D	314	134.883	117.301	-71.392	1.00	27.86	D	O
ATOM	6780	N	TYR	D	315	134.153	118.989	-70.095	1.00	99.30	D	N
ATOM	6781	CA	TYR	D	315	134.167	118.202	-68.868	1.00	99.30	D	C
ATOM	6782	CB	TYR	D	315	134.067	119.113	-67.644	1.00	99.30	D	C
ATOM	6783	CG	TYR	D	315	135.222	120.078	-67.505	1.00	99.30	D	C
ATOM	6784	CD1	TYR	D	315	135.094	121.244	-66.763	1.00	99.30	D	C
ATOM	6785	CD2	TYR	D	315	136.443	119.821	-68.115	1.00	99.30	D	C
ATOM	6786	CE1	TYR	D	315	136.148	122.129	-66.633	1.00	99.30	D	C
ATOM	6787	CE2	TYR	D	315	137.502	120.699	-67.991	1.00	99.30	D	C
ATOM	6788	CZ	TYR	D	315	137.349	121.851	-67.250	1.00	99.30	D	C
ATOM	6789	OH	TYR	D	315	138.402	122.727	-67.124	1.00	99.30	D	O
ATOM	6790	C	TYR	D	315	133.034	117.182	-68.857	1.00	99.30	D	C
ATOM	6791	O	TYR	D	315	133.141	116.128	-68.230	1.00	99.30	D	O
ATOM	6792	N	THR	D	316	131.949	117.502	-69.554	1.00	115.27	D	N
ATOM	6793	CA	THR	D	316	130.802	116.606	-69.638	1.00	115.27	D	C
ATOM	6794	CB	THR	D	316	129.574	117.312	-70.243	1.00	115.27	D	C
ATOM	6795	OG1	THR	D	316	129.196	118.416	-69.410	1.00	115.27	D	O
ATOM	6796	CG2	THR	D	316	128.405	116.345	-70.354	1.00	115.27	D	C
ATOM	6797	C	THR	D	316	131.134	115.374	-70.473	1.00	115.27	D	C
ATOM	6798	O	THR	D	316	130.860	114.246	-70.066	1.00	115.27	D	O
ATOM	6799	N	LEU	D	317	131.726	115.598	-71.642	1.00	53.09	D	N
ATOM	6800	CA	LEU	D	317	132.109	114.505	-72.528	1.00	53.09	D	C
ATOM	6801	CB	LEU	D	317	132.503	115.042	-73.905	1.00	53.09	D	C
ATOM	6802	CG	LEU	D	317	131.418	115.795	-74.679	1.00	53.09	D	C
ATOM	6803	CD1	LEU	D	317	131.966	116.327	-75.995	1.00	53.09	D	C
ATOM	6804	CD2	LEU	D	317	130.211	114.901	-74.920	1.00	53.09	D	C
ATOM	6805	C	LEU	D	317	133.253	113.692	-71.932	1.00	53.09	D	C
ATOM	6806	O	LEU	D	317	133.408	112.507	-72.230	1.00	53.09	D	O
ATOM	6807	N	LYS	D	318	134.053	114.336	-71.088	1.00	75.11	D	N
ATOM	6808	CA	LYS	D	318	135.168	113.667	-70.428	1.00	75.11	D	C
ATOM	6809	CB	LYS	D	318	136.133	114.691	-69.831	1.00	75.11	D	C
ATOM	6810	CG	LYS	D	318	137.328	114.075	-69.121	1.00	75.11	D	C
ATOM	6811	CD	LYS	D	318	138.235	115.145	-68.538	1.00	75.11	D	C
ATOM	6812	CE	LYS	D	318	138.768	116.067	-69.622	1.00	75.11	D	C
ATOM	6813	NZ	LYS	D	318	139.653	117.125	-69.061	1.00	75.11	D	N
ATOM	6814	C	LYS	D	318	134.668	112.722	-69.340	1.00	75.11	D	C
ATOM	6815	O	LYS	D	318	135.081	111.565	-69.272	1.00	75.11	D	O
ATOM	6816	N	SER	D	319	133.777	113.225	-68.492	1.00	82.79	D	N
ATOM	6817	CA	SER	D	319	133.201	112.420	-67.421	1.00	82.79	D	C
ATOM	6818	CB	SER	D	319	132.429	113.306	-66.441	1.00	82.79	D	C
ATOM	6819	OG	SER	D	319	131.842	112.532	-65.409	1.00	82.79	D	O
ATOM	6820	C	SER	D	319	132.284	111.340	-67.984	1.00	82.79	D	C
ATOM	6821	O	SER	D	319	132.079	110.298	-67.360	1.00	82.79	D	O
ATOM	6822	N	CYS	D	320	131.736	111.596	-69.167	1.00	91.34	D	N
ATOM	6823	CA	CYS	D	320	130.848	110.644	-69.824	1.00	91.34	D	C
ATOM	6824	CB	CYS	D	320	129.607	111.354	-70.368	1.00	91.34	D	C
ATOM	6825	SG	CYS	D	320	128.608	112.183	-69.110	1.00	91.34	D	S
ATOM	6826	C	CYS	D	320	131.568	109.912	-70.951	1.00	91.34	D	C
ATOM	6827	O	CYS	D	320	130.955	109.533	-71.948	1.00	91.34	D	O
ATOM	6828	N	ALA	D	321	132.873	109.721	-70.786	1.00	55.04	D	N
ATOM	6829	CA	ALA	D	321	133.676	109.017	-71.778	1.00	55.04	D	C
ATOM	6830	CB	ALA	D	321	135.144	109.035	-71.382	1.00	55.04	D	C
ATOM	6831	C	ALA	D	321	133.186	107.584	-71.951	1.00	55.04	D	C
ATOM	6832	O	ALA	D	321	133.259	107.019	-73.042	1.00	55.04	D	O
ATOM	6833	N	SER	D	322	132.687	107.002	-70.865	1.00	39.37	D	N
ATOM	6834	CA	SER	D	322	132.151	105.648	-70.899	1.00	39.37	D	C
ATOM	6835	CB	SER	D	322	132.257	104.995	-69.520	1.00	39.37	D	C
ATOM	6836	OG	SER	D	322	133.605	104.924	-69.091	1.00	39.37	D	O
ATOM	6837	C	SER	D	322	130.700	105.653	-71.368	1.00	39.37	D	C

ATOM	6838	O	SER	D	322	130.279	104.776	-72.122	1.00	39.37	D	O
ATOM	6839	N	GLU	D	323	129.942	106.647	-70.917	1.00	101.99	D	N
ATOM	6840	CA	GLU	D	323	128.542	106.780	-71.303	1.00	101.99	D	C
ATOM	6841	CB	GLU	D	323	127.906	107.985	-70.607	1.00	101.99	D	C
ATOM	6842	CG	GLU	D	323	127.958	107.930	-69.089	1.00	101.99	D	C
ATOM	6843	CD	GLU	D	323	127.124	106.801	-68.513	1.00	101.99	D	C
ATOM	6844	OE1	GLU	D	323	126.353	106.178	-69.273	1.00	101.99	D	O
ATOM	6845	OE2	GLU	D	323	127.239	106.538	-67.298	1.00	101.99	D	O
ATOM	6846	C	GLU	D	323	128.405	106.918	-72.814	1.00	101.99	D	C
ATOM	6847	O	GLU	D	323	127.540	106.295	-73.430	1.00	101.99	D	O
ATOM	6848	N	LEU	D	324	129.266	107.739	-73.406	1.00	51.45	D	N
ATOM	6849	CA	LEU	D	324	129.266	107.941	-74.849	1.00	51.45	D	C
ATOM	6850	CB	LEU	D	324	130.176	109.112	-75.226	1.00	51.45	D	C
ATOM	6851	CG	LEU	D	324	130.240	109.481	-76.709	1.00	51.45	D	C
ATOM	6852	CD1	LEU	D	324	128.858	109.837	-77.234	1.00	51.45	D	C
ATOM	6853	CD2	LEU	D	324	131.214	110.627	-76.937	1.00	51.45	D	C
ATOM	6854	C	LEU	D	324	129.716	106.674	-75.568	1.00	51.45	D	C
ATOM	6855	O	LEU	D	324	129.342	106.433	-76.715	1.00	51.45	D	O
ATOM	6856	N	GLY	D	325	130.520	105.868	-74.882	1.00	21.45	D	N
ATOM	6857	CA	GLY	D	325	131.014	104.624	-75.443	1.00	21.45	D	C
ATOM	6858	C	GLY	D	325	129.900	103.639	-75.737	1.00	21.45	D	C
ATOM	6859	O	GLY	D	325	129.865	103.031	-76.807	1.00	21.45	D	O
ATOM	6860	N	PHE	D	326	128.987	103.481	-74.784	1.00	93.89	D	N
ATOM	6861	CA	PHE	D	326	127.858	102.572	-74.949	1.00	93.89	D	C
ATOM	6862	CB	PHE	D	326	127.168	102.318	-73.606	1.00	93.89	D	C
ATOM	6863	CG	PHE	D	326	128.002	101.532	-72.633	1.00	93.89	D	C
ATOM	6864	CD1	PHE	D	326	128.814	102.177	-71.715	1.00	93.89	D	C
ATOM	6865	CD2	PHE	D	326	127.971	100.148	-72.635	1.00	93.89	D	C
ATOM	6866	CE1	PHE	D	326	129.581	101.457	-70.820	1.00	93.89	D	C
ATOM	6867	CE2	PHE	D	326	128.736	99.422	-71.742	1.00	93.89	D	C
ATOM	6868	CZ	PHE	D	326	129.542	100.077	-70.833	1.00	93.89	D	C
ATOM	6869	C	PHE	D	326	126.854	103.111	-75.962	1.00	93.89	D	C
ATOM	6870	O	PHE	D	326	126.067	102.354	-76.531	1.00	93.89	D	O
ATOM	6871	N	LEU	D	327	126.883	104.421	-76.183	1.00	47.15	D	N
ATOM	6872	CA	LEU	D	327	125.991	105.054	-77.147	1.00	47.15	D	C
ATOM	6873	CB	LEU	D	327	126.069	106.578	-77.034	1.00	47.15	D	C
ATOM	6874	CG	LEU	D	327	125.248	107.377	-78.049	1.00	47.15	D	C
ATOM	6875	CD1	LEU	D	327	123.787	106.954	-78.023	1.00	47.15	D	C
ATOM	6876	CD2	LEU	D	327	125.381	108.869	-77.789	1.00	47.15	D	C
ATOM	6877	C	LEU	D	327	126.324	104.614	-78.568	1.00	47.15	D	C
ATOM	6878	O	LEU	D	327	125.433	104.277	-79.348	1.00	47.15	D	O
ATOM	6879	N	LEU	D	328	127.611	104.620	-78.897	1.00	87.13	D	N
ATOM	6880	CA	LEU	D	328	128.065	104.184	-80.212	1.00	87.13	D	C
ATOM	6881	CB	LEU	D	328	129.434	104.785	-80.542	1.00	87.13	D	C
ATOM	6882	CG	LEU	D	328	129.493	106.266	-80.932	1.00	87.13	D	C
ATOM	6883	CD1	LEU	D	328	128.976	107.161	-79.815	1.00	87.13	D	C
ATOM	6884	CD2	LEU	D	328	130.913	106.655	-81.314	1.00	87.13	D	C
ATOM	6885	C	LEU	D	328	128.127	102.663	-80.280	1.00	87.13	D	C
ATOM	6886	O	LEU	D	328	128.034	102.074	-81.357	1.00	87.13	D	O
ATOM	6887	N	PHE	D	329	128.285	102.031	-79.121	1.00	48.49	D	N
ATOM	6888	CA	PHE	D	329	128.338	100.577	-79.045	1.00	48.49	D	C
ATOM	6889	CB	PHE	D	329	128.796	100.126	-77.657	1.00	48.49	D	C
ATOM	6890	CG	PHE	D	329	128.858	98.634	-77.495	1.00	48.49	D	C
ATOM	6891	CD1	PHE	D	329	129.997	97.930	-77.853	1.00	48.49	D	C
ATOM	6892	CD2	PHE	D	329	127.777	97.935	-76.985	1.00	48.49	D	C
ATOM	6893	CE1	PHE	D	329	130.056	96.557	-77.706	1.00	48.49	D	C
ATOM	6894	CE2	PHE	D	329	127.831	96.563	-76.836	1.00	48.49	D	C
ATOM	6895	CZ	PHE	D	329	128.972	95.873	-77.197	1.00	48.49	D	C
ATOM	6896	C	PHE	D	329	126.981	99.967	-79.376	1.00	48.49	D	C
ATOM	6897	O	PHE	D	329	126.848	99.216	-80.342	1.00	48.49	D	O
ATOM	6898	N	SER	D	330	125.978	100.295	-78.568	1.00	71.43	D	N
ATOM	6899	CA	SER	D	330	124.623	99.801	-78.786	1.00	71.43	D	C
ATOM	6900	CB	SER	D	330	123.683	100.321	-77.697	1.00	71.43	D	C
ATOM	6901	OG	SER	D	330	123.667	101.738	-77.672	1.00	71.43	D	O
ATOM	6902	C	SER	D	330	124.107	100.207	-80.163	1.00	71.43	D	C
ATOM	6903	O	SER	D	330	123.232	99.550	-80.726	1.00	71.43	D	O
ATOM	6904	N	LEU	D	331	124.655	101.293	-80.697	1.00	53.19	D	N
ATOM	6905	CA	LEU	D	331	124.289	101.762	-82.028	1.00	53.19	D	C

ATOM	6906	CB	LEU	D	331	124.824	103.175	-82.265	1.00	53.19	D	C
ATOM	6907	CG	LEU	D	331	124.585	103.769	-83.655	1.00	53.19	D	C
ATOM	6908	CD1	LEU	D	331	123.097	103.883	-83.946	1.00	53.19	D	C
ATOM	6909	CD2	LEU	D	331	125.264	105.123	-83.785	1.00	53.19	D	C
ATOM	6910	C	LEU	D	331	124.823	100.817	-83.097	1.00	53.19	D	C
ATOM	6911	O	LEU	D	331	124.057	100.250	-83.876	1.00	53.19	D	O
ATOM	6912	N	THR	D	332	126.142	100.651	-83.124	1.00	103.02	D	N
ATOM	6913	CA	THR	D	332	126.794	99.787	-84.103	1.00	103.02	D	C
ATOM	6914	CB	THR	D	332	128.309	99.682	-83.839	1.00	103.02	D	C
ATOM	6915	OG1	THR	D	332	128.894	100.990	-83.869	1.00	103.02	D	O
ATOM	6916	CG2	THR	D	332	128.976	98.809	-84.892	1.00	103.02	D	C
ATOM	6917	C	THR	D	332	126.186	98.388	-84.108	1.00	103.02	D	C
ATOM	6918	O	THR	D	332	126.015	97.780	-85.165	1.00	103.02	D	O
ATOM	6919	N	MET	D	333	125.861	97.884	-82.922	1.00	112.73	D	N
ATOM	6920	CA	MET	D	333	125.243	96.569	-82.794	1.00	112.73	D	C
ATOM	6921	CB	MET	D	333	124.960	96.249	-81.326	1.00	112.73	D	C
ATOM	6922	CG	MET	D	333	126.205	96.151	-80.460	1.00	112.73	D	C
ATOM	6923	SD	MET	D	333	127.343	94.874	-81.027	1.00	112.73	D	S
ATOM	6924	CE	MET	D	333	126.301	93.421	-80.924	1.00	112.73	D	C
ATOM	6925	C	MET	D	333	123.953	96.494	-83.604	1.00	112.73	D	C
ATOM	6926	O	MET	D	333	123.778	95.598	-84.428	1.00	112.73	D	O
ATOM	6927	N	ALA	D	334	123.055	97.444	-83.365	1.00	30.08	D	N
ATOM	6928	CA	ALA	D	334	121.778	97.486	-84.067	1.00	30.08	D	C
ATOM	6929	CB	ALA	D	334	120.881	98.559	-83.469	1.00	30.08	D	C
ATOM	6930	C	ALA	D	334	121.969	97.721	-85.562	1.00	30.08	D	C
ATOM	6931	O	ALA	D	334	121.182	97.244	-86.379	1.00	30.08	D	O
ATOM	6932	N	ILE	D	335	123.019	98.456	-85.914	1.00	41.45	D	N
ATOM	6933	CA	ILE	D	335	123.308	98.760	-87.312	1.00	41.45	D	C
ATOM	6934	CB	ILE	D	335	124.601	99.587	-87.460	1.00	41.45	D	C
ATOM	6935	CG2	ILE	D	335	124.967	99.744	-88.928	1.00	41.45	D	C
ATOM	6936	CG1	ILE	D	335	124.434	100.959	-86.805	1.00	41.45	D	C
ATOM	6937	CD1	ILE	D	335	125.662	101.837	-86.902	1.00	41.45	D	C
ATOM	6938	C	ILE	D	335	123.427	97.493	-88.153	1.00	41.45	D	C
ATOM	6939	O	ILE	D	335	122.699	97.315	-89.128	1.00	41.45	D	O
ATOM	6940	N	ILE	D	336	124.347	96.615	-87.767	1.00	44.55	D	N
ATOM	6941	CA	ILE	D	336	124.582	95.378	-88.502	1.00	44.55	D	C
ATOM	6942	CB	ILE	D	336	125.774	94.596	-87.917	1.00	44.55	D	C
ATOM	6943	CG2	ILE	D	336	126.096	93.386	-88.782	1.00	44.55	D	C
ATOM	6944	CG1	ILE	D	336	126.995	95.509	-87.782	1.00	44.55	D	C
ATOM	6945	CD1	ILE	D	336	128.209	94.827	-87.191	1.00	44.55	D	C
ATOM	6946	C	ILE	D	336	123.344	94.484	-88.506	1.00	44.55	D	C
ATOM	6947	O	ILE	D	336	123.097	93.756	-89.468	1.00	44.55	D	O
ATOM	6948	N	ILE	D	337	122.567	94.548	-87.430	1.00	87.94	D	N
ATOM	6949	CA	ILE	D	337	121.366	93.730	-87.300	1.00	87.94	D	C
ATOM	6950	CB	ILE	D	337	120.721	93.889	-85.910	1.00	87.94	D	C
ATOM	6951	CG2	ILE	D	337	119.422	93.102	-85.832	1.00	87.94	D	C
ATOM	6952	CG1	ILE	D	337	121.690	93.434	-84.818	1.00	87.94	D	C
ATOM	6953	CD1	ILE	D	337	121.157	93.621	-83.415	1.00	87.94	D	C
ATOM	6954	C	ILE	D	337	120.328	94.062	-88.368	1.00	87.94	D	C
ATOM	6955	O	ILE	D	337	119.855	93.178	-89.082	1.00	87.94	D	O
ATOM	6956	N	PHE	D	338	119.976	95.339	-88.472	1.00	61.40	D	N
ATOM	6957	CA	PHE	D	338	118.956	95.777	-89.419	1.00	61.40	D	C
ATOM	6958	CB	PHE	D	338	118.351	97.113	-88.983	1.00	61.40	D	C
ATOM	6959	CG	PHE	D	338	117.606	97.045	-87.680	1.00	61.40	D	C
ATOM	6960	CD1	PHE	D	338	116.290	96.615	-87.642	1.00	61.40	D	C
ATOM	6961	CD2	PHE	D	338	118.219	97.414	-86.495	1.00	61.40	D	C
ATOM	6962	CE1	PHE	D	338	115.601	96.552	-86.445	1.00	61.40	D	C
ATOM	6963	CE2	PHE	D	338	117.536	97.353	-85.295	1.00	61.40	D	C
ATOM	6964	CZ	PHE	D	338	116.225	96.922	-85.271	1.00	61.40	D	C
ATOM	6965	C	PHE	D	338	119.495	95.883	-90.843	1.00	61.40	D	C
ATOM	6966	O	PHE	D	338	118.783	95.595	-91.805	1.00	61.40	D	O
ATOM	6967	N	ALA	D	339	120.752	96.296	-90.973	1.00	38.36	D	N
ATOM	6968	CA	ALA	D	339	121.370	96.460	-92.285	1.00	38.36	D	C
ATOM	6969	CB	ALA	D	339	122.802	96.953	-92.142	1.00	38.36	D	C
ATOM	6970	C	ALA	D	339	121.330	95.166	-93.091	1.00	38.36	D	C
ATOM	6971	O	ALA	D	339	121.335	95.191	-94.322	1.00	38.36	D	O
ATOM	6972	N	THR	D	340	121.288	94.037	-92.392	1.00	117.99	D	N
ATOM	6973	CA	THR	D	340	121.253	92.734	-93.047	1.00	117.99	D	C

ATOM	6974	CB	THR	D	340	121.930	91.647	-92.187	1.00	117.99	D	C
ATOM	6975	OG1	THR	D	340	121.309	91.597	-90.897	1.00	117.99	D	O
ATOM	6976	CG2	THR	D	340	123.412	91.947	-92.019	1.00	117.99	D	C
ATOM	6977	C	THR	D	340	119.828	92.302	-93.380	1.00	117.99	D	C
ATOM	6978	O	THR	D	340	119.512	92.021	-94.536	1.00	117.99	D	O
ATOM	6979	N	VAL	D	341	118.969	92.255	-92.366	1.00	49.53	D	N
ATOM	6980	CA	VAL	D	341	117.589	91.814	-92.551	1.00	49.53	D	C
ATOM	6981	CB	VAL	D	341	116.796	91.857	-91.229	1.00	49.53	D	C
ATOM	6982	CG1	VAL	D	341	117.405	90.904	-90.213	1.00	49.53	D	C
ATOM	6983	CG2	VAL	D	341	116.752	93.274	-90.679	1.00	49.53	D	C
ATOM	6984	C	VAL	D	341	116.858	92.642	-93.606	1.00	49.53	D	C
ATOM	6985	O	VAL	D	341	115.954	92.147	-94.278	1.00	49.53	D	O
ATOM	6986	N	MET	D	342	117.255	93.903	-93.746	1.00	112.56	D	N
ATOM	6987	CA	MET	D	342	116.646	94.790	-94.730	1.00	112.56	D	C
ATOM	6988	CB	MET	D	342	116.781	96.252	-94.296	1.00	112.56	D	C
ATOM	6989	CG	MET	D	342	116.068	96.584	-92.996	1.00	112.56	D	C
ATOM	6990	SD	MET	D	342	116.163	98.335	-92.576	1.00	112.56	D	S
ATOM	6991	CE	MET	D	342	117.936	98.568	-92.481	1.00	112.56	D	C
ATOM	6992	C	MET	D	342	117.270	94.594	-96.107	1.00	112.56	D	C
ATOM	6993	O	MET	D	342	116.651	94.893	-97.128	1.00	112.56	D	O
ATOM	6994	N	PHE	D	343	118.500	94.091	-96.128	1.00	78.09	D	N
ATOM	6995	CA	PHE	D	343	119.209	93.857	-97.380	1.00	78.09	D	C
ATOM	6996	CB	PHE	D	343	120.718	93.789	-97.143	1.00	78.09	D	C
ATOM	6997	CG	PHE	D	343	121.514	93.513	-98.386	1.00	78.09	D	C
ATOM	6998	CD1	PHE	D	343	121.830	94.537	-99.262	1.00	78.09	D	C
ATOM	6999	CD2	PHE	D	343	121.945	92.230	-98.679	1.00	78.09	D	C
ATOM	7000	CE1	PHE	D	343	122.561	94.287	-100.408	1.00	78.09	D	C
ATOM	7001	CE2	PHE	D	343	122.676	91.974	-99.823	1.00	78.09	D	C
ATOM	7002	CZ	PHE	D	343	122.985	93.004	-100.688	1.00	78.09	D	C
ATOM	7003	C	PHE	D	343	118.729	92.583	-98.066	1.00	78.09	D	C
ATOM	7004	O	PHE	D	343	118.417	92.589	-99.256	1.00	78.09	D	O
ATOM	7005	N	TYR	D	344	118.674	91.491	-97.310	1.00	66.10	D	N
ATOM	7006	CA	TYR	D	344	118.234	90.209	-97.851	1.00	66.10	D	C
ATOM	7007	CB	TYR	D	344	118.515	89.078	-96.858	1.00	66.10	D	C
ATOM	7008	CG	TYR	D	344	119.979	88.905	-96.521	1.00	66.10	D	C
ATOM	7009	CD1	TYR	D	344	120.828	88.200	-97.364	1.00	66.10	D	C
ATOM	7010	CD2	TYR	D	344	120.511	89.441	-95.356	1.00	66.10	D	C
ATOM	7011	CE1	TYR	D	344	122.167	88.039	-97.057	1.00	66.10	D	C
ATOM	7012	CE2	TYR	D	344	121.847	89.285	-95.041	1.00	66.10	D	C
ATOM	7013	CZ	TYR	D	344	122.670	88.583	-95.895	1.00	66.10	D	C
ATOM	7014	OH	TYR	D	344	124.001	88.425	-95.584	1.00	66.10	D	O
ATOM	7015	C	TYR	D	344	116.752	90.239	-98.210	1.00	66.10	D	C
ATOM	7016	O	TYR	D	344	116.248	89.340	-98.885	1.00	66.10	D	O
ATOM	7017	N	ALA	D	345	116.058	91.278	-97.755	1.00	55.12	D	N
ATOM	7018	CA	ALA	D	345	114.639	91.440	-98.045	1.00	55.12	D	C
ATOM	7019	CB	ALA	D	345	113.937	92.129	-96.885	1.00	55.12	D	C
ATOM	7020	C	ALA	D	345	114.432	92.224	-99.336	1.00	55.12	D	C
ATOM	7021	O	ALA	D	345	113.368	92.157	-99.952	1.00	55.12	D	O
ATOM	7022	N	GLU	D	346	115.458	92.966	-99.741	1.00	125.73	D	N
ATOM	7023	CA	GLU	D	346	115.394	93.763	-100.960	1.00	125.73	D	C
ATOM	7024	CB	GLU	D	346	115.809	95.209	-100.675	1.00	125.73	D	C
ATOM	7025	CG	GLU	D	346	114.947	95.914	-99.640	1.00	125.73	D	C
ATOM	7026	CD	GLU	D	346	113.527	96.148	-100.119	1.00	125.73	D	C
ATOM	7027	OE1	GLU	D	346	113.266	95.969	-101.327	1.00	125.73	D	O
ATOM	7028	OE2	GLU	D	346	112.671	96.511	-99.286	1.00	125.73	D	O
ATOM	7029	C	GLU	D	346	116.278	93.172	-102.053	1.00	125.73	D	C
ATOM	7030	O	GLU	D	346	116.268	93.638	-103.192	1.00	125.73	D	O
ATOM	7031	N	LYS	D	347	117.042	92.144	-101.699	1.00	138.31	D	N
ATOM	7032	CA	LYS	D	347	117.947	91.498	-102.642	1.00	138.31	D	C
ATOM	7033	CB	LYS	D	347	118.851	90.497	-101.918	1.00	138.31	D	C
ATOM	7034	CG	LYS	D	347	119.870	89.814	-102.817	1.00	138.31	D	C
ATOM	7035	CD	LYS	D	347	120.729	88.835	-102.034	1.00	138.31	D	C
ATOM	7036	CE	LYS	D	347	121.749	88.154	-102.933	1.00	138.31	D	C
ATOM	7037	NZ	LYS	D	347	121.097	87.390	-104.032	1.00	138.31	D	N
ATOM	7038	C	LYS	D	347	117.178	90.799	-103.759	1.00	138.31	D	C
ATOM	7039	O	LYS	D	347	117.688	90.631	-104.867	1.00	138.31	D	O
ATOM	7040	N	GLY	D	348	115.947	90.396	-103.461	1.00	56.79	D	N
ATOM	7041	CA	GLY	D	348	115.110	89.717	-104.434	1.00	56.79	D	C

ATOM	7042	C	GLY	D	348	114.395	90.680-105.362	1.00	56.79	D	C
ATOM	7043	O	GLY	D	348	113.418	90.317-106.015	1.00	56.79	D	O
ATOM	7044	N	SER	D	349	114.886	91.914-105.419	1.00	123.99	D	N
ATOM	7045	CA	SER	D	349	114.292	92.937-106.271	1.00	123.99	D	C
ATOM	7046	CB	SER	D	349	113.649	94.034-105.421	1.00	123.99	D	C
ATOM	7047	OG	SER	D	349	112.640	93.503-104.581	1.00	123.99	D	O
ATOM	7048	C	SER	D	349	115.330	93.541-107.210	1.00	123.99	D	C
ATOM	7049	O	SER	D	349	116.490	93.718-106.838	1.00	123.99	D	O
ATOM	7050	N	SER	D	350	114.905	93.855-108.430	1.00	183.36	D	N
ATOM	7051	CA	SER	D	350	115.797	94.434-109.427	1.00	183.36	D	C
ATOM	7052	CB	SER	D	350	115.186	94.319-110.825	1.00	183.36	D	C
ATOM	7053	OG	SER	D	350	116.038	94.890-111.803	1.00	183.36	D	O
ATOM	7054	C	SER	D	350	116.110	95.893-109.110	1.00	183.36	D	C
ATOM	7055	O	SER	D	350	117.246	96.342-109.264	1.00	183.36	D	O
ATOM	7056	N	ALA	D	351	115.095	96.629-108.667	1.00	238.58	D	N
ATOM	7057	CA	ALA	D	351	115.261	98.038-108.331	1.00	238.58	D	C
ATOM	7058	CB	ALA	D	351	114.005	98.820-108.687	1.00	238.58	D	C
ATOM	7059	C	ALA	D	351	115.600	98.215-106.855	1.00	238.58	D	C
ATOM	7060	O	ALA	D	351	115.006	99.045-106.167	1.00	238.58	D	O
ATOM	7061	N	SER	D	352	116.559	97.430-106.374	1.00	139.03	D	N
ATOM	7062	CA	SER	D	352	116.976	97.495-104.979	1.00	139.03	D	C
ATOM	7063	CB	SER	D	352	117.643	96.184-104.557	1.00	139.03	D	C
ATOM	7064	OG	SER	D	352	118.790	95.918-105.346	1.00	139.03	D	O
ATOM	7065	C	SER	D	352	117.925	98.663-104.739	1.00	139.03	D	C
ATOM	7066	O	SER	D	352	118.869	98.874-105.501	1.00	139.03	D	O
ATOM	7067	N	LYS	D	353	117.671	99.420-103.677	1.00	160.96	D	N
ATOM	7068	CA	LYS	D	353	118.504	100.567-103.337	1.00	160.96	D	C
ATOM	7069	CB	LYS	D	353	117.674	101.640-102.629	1.00	160.96	D	C
ATOM	7070	CG	LYS	D	353	116.508	102.165-103.450	1.00	160.96	D	C
ATOM	7071	CD	LYS	D	353	116.984	102.781-104.756	1.00	160.96	D	C
ATOM	7072	CE	LYS	D	353	115.816	103.296-105.583	1.00	160.96	D	C
ATOM	7073	NZ	LYS	D	353	116.266	103.898-106.868	1.00	160.96	D	N
ATOM	7074	C	LYS	D	353	119.682	100.153-102.462	1.00	160.96	D	C
ATOM	7075	O	LYS	D	353	120.510	100.982-102.085	1.00	160.96	D	O
ATOM	7076	N	PHE	D	354	119.750	98.865-102.141	1.00	217.25	D	N
ATOM	7077	CA	PHE	D	354	120.827	98.337-101.313	1.00	217.25	D	C
ATOM	7078	CB	PHE	D	354	120.256	97.546-100.135	1.00	217.25	D	C
ATOM	7079	CG	PHE	D	354	119.363	98.354 -99.238	1.00	217.25	D	C
ATOM	7080	CD1	PHE	D	354	119.889	99.057 -98.166	1.00	217.25	D	C
ATOM	7081	CD2	PHE	D	354	117.998	98.412 -99.465	1.00	217.25	D	C
ATOM	7082	CE1	PHE	D	354	119.070	99.802 -97.339	1.00	217.25	D	C
ATOM	7083	CE2	PHE	D	354	117.174	99.155 -98.641	1.00	217.25	D	C
ATOM	7084	CZ	PHE	D	354	117.711	99.851 -97.576	1.00	217.25	D	C
ATOM	7085	C	PHE	D	354	121.766	97.456-102.130	1.00	217.25	D	C
ATOM	7086	O	PHE	D	354	121.399	96.355-102.542	1.00	217.25	D	O
ATOM	7087	N	THR	D	355	122.979	97.947-102.361	1.00	186.86	D	N
ATOM	7088	CA	THR	D	355	123.969	97.208-103.136	1.00	186.86	D	C
ATOM	7089	CB	THR	D	355	125.031	98.146-103.737	1.00	186.86	D	C
ATOM	7090	OG1	THR	D	355	125.710	98.842-102.685	1.00	186.86	D	O
ATOM	7091	CG2	THR	D	355	124.382	99.157-104.671	1.00	186.86	D	C
ATOM	7092	C	THR	D	355	124.662	96.151-102.282	1.00	186.86	D	C
ATOM	7093	O	THR	D	355	124.837	95.011-102.710	1.00	186.86	D	O
ATOM	7094	N	SER	D	356	125.053	96.538-101.072	1.00	47.70	D	N
ATOM	7095	CA	SER	D	356	125.727	95.625-100.157	1.00	47.70	D	C
ATOM	7096	CB	SER	D	356	127.239	95.656-100.387	1.00	47.70	D	C
ATOM	7097	OG	SER	D	356	127.760	96.956-100.175	1.00	47.70	D	O
ATOM	7098	C	SER	D	356	125.409	95.966 -98.706	1.00	47.70	D	C
ATOM	7099	O	SER	D	356	124.912	97.053 -98.408	1.00	47.70	D	O
ATOM	7100	N	ILE	D	357	125.697	95.031 -97.807	1.00	65.52	D	N
ATOM	7101	CA	ILE	D	357	125.457	95.236 -96.382	1.00	65.52	D	C
ATOM	7102	CB	ILE	D	357	125.770	93.967 -95.558	1.00	65.52	D	C
ATOM	7103	CG2	ILE	D	357	125.546	94.223 -94.076	1.00	65.52	D	C
ATOM	7104	CG1	ILE	D	357	124.912	92.795 -96.039	1.00	65.52	D	C
ATOM	7105	CD1	ILE	D	357	125.140	91.513 -95.269	1.00	65.52	D	C
ATOM	7106	C	ILE	D	357	126.244	96.424 -95.824	1.00	65.52	D	C
ATOM	7107	O	ILE	D	357	125.684	97.256 -95.110	1.00	65.52	D	O
ATOM	7108	N	PRO	D	358	127.547	96.508 -96.145	1.00	79.94	D	N
ATOM	7109	CA	PRO	D	358	128.342	97.652 -95.685	1.00	79.94	D	C

ATOM	7110	CD	PRO	D	358	128.369	95.527	-96.876	1.00	79.94	D	C
ATOM	7111	CB	PRO	D	358	129.706	97.412	-96.339	1.00	79.94	D	C
ATOM	7112	CG	PRO	D	358	129.769	95.941	-96.541	1.00	79.94	D	C
ATOM	7113	C	PRO	D	358	127.760	98.977	-96.166	1.00	79.94	D	C
ATOM	7114	O	PRO	D	358	127.858	99.984	-95.465	1.00	79.94	D	O
ATOM	7115	N	ALA	D	359	127.160	98.969	-97.352	1.00	43.14	D	N
ATOM	7116	CA	ALA	D	359	126.559	100.172	-97.916	1.00	43.14	D	C
ATOM	7117	CB	ALA	D	359	126.478	100.063	-99.430	1.00	43.14	D	C
ATOM	7118	C	ALA	D	359	125.177	100.426	-97.324	1.00	43.14	D	C
ATOM	7119	O	ALA	D	359	124.613	101.509	-97.481	1.00	43.14	D	O
ATOM	7120	N	ALA	D	360	124.638	99.421	-96.643	1.00	50.03	D	N
ATOM	7121	CA	ALA	D	360	123.323	99.531	-96.022	1.00	50.03	D	C
ATOM	7122	CB	ALA	D	360	122.649	98.168	-95.964	1.00	50.03	D	C
ATOM	7123	C	ALA	D	360	123.421	100.139	-94.627	1.00	50.03	D	C
ATOM	7124	O	ALA	D	360	122.407	100.375	-93.970	1.00	50.03	D	O
ATOM	7125	N	PHE	D	361	124.648	100.391	-94.180	1.00	66.36	D	N
ATOM	7126	CA	PHE	D	361	124.880	100.981	-92.866	1.00	66.36	D	C
ATOM	7127	CB	PHE	D	361	126.367	100.937	-92.509	1.00	66.36	D	C
ATOM	7128	CG	PHE	D	361	126.910	99.547	-92.336	1.00	66.36	D	C
ATOM	7129	CD1	PHE	D	361	126.056	98.476	-92.135	1.00	66.36	D	C
ATOM	7130	CD2	PHE	D	361	128.274	99.312	-92.371	1.00	66.36	D	C
ATOM	7131	CE1	PHE	D	361	126.551	97.197	-91.975	1.00	66.36	D	C
ATOM	7132	CE2	PHE	D	361	128.777	98.035	-92.211	1.00	66.36	D	C
ATOM	7133	CZ	PHE	D	361	127.914	96.976	-92.013	1.00	66.36	D	C
ATOM	7134	C	PHE	D	361	124.372	102.417	-92.813	1.00	66.36	D	C
ATOM	7135	O	PHE	D	361	123.905	102.882	-91.773	1.00	66.36	D	O
ATOM	7136	N	TRP	D	362	124.468	103.113	-93.940	1.00	75.06	D	N
ATOM	7137	CA	TRP	D	362	124.009	104.494	-94.032	1.00	75.06	D	C
ATOM	7138	CB	TRP	D	362	124.294	105.062	-95.423	1.00	75.06	D	C
ATOM	7139	CG	TRP	D	362	123.664	106.400	-95.666	1.00	75.06	D	C
ATOM	7140	CD2	TRP	D	362	124.178	107.677	-95.268	1.00	75.06	D	C
ATOM	7141	CD1	TRP	D	362	122.486	106.646	-96.309	1.00	75.06	D	C
ATOM	7142	NE1	TRP	D	362	122.235	107.997	-96.337	1.00	75.06	D	N
ATOM	7143	CE2	TRP	D	362	123.259	108.652	-95.704	1.00	75.06	D	C
ATOM	7144	CE3	TRP	D	362	125.326	108.090	-94.585	1.00	75.06	D	C
ATOM	7145	CZ2	TRP	D	362	123.452	110.013	-95.480	1.00	75.06	D	C
ATOM	7146	CZ3	TRP	D	362	125.516	109.442	-94.364	1.00	75.06	D	C
ATOM	7147	CH2	TRP	D	362	124.584	110.387	-94.810	1.00	75.06	D	C
ATOM	7148	C	TRP	D	362	122.522	104.606	-93.716	1.00	75.06	D	C
ATOM	7149	O	TRP	D	362	122.123	105.359	-92.828	1.00	75.06	D	O
ATOM	7150	N	TYR	D	363	121.708	103.851	-94.447	1.00	49.06	D	N
ATOM	7151	CA	TYR	D	363	120.262	103.871	-94.255	1.00	49.06	D	C
ATOM	7152	CB	TYR	D	363	119.583	102.870	-95.191	1.00	49.06	D	C
ATOM	7153	CG	TYR	D	363	118.096	102.729	-94.956	1.00	49.06	D	C
ATOM	7154	CD1	TYR	D	363	117.198	103.632	-95.509	1.00	49.06	D	C
ATOM	7155	CD2	TYR	D	363	117.591	101.694	-94.181	1.00	49.06	D	C
ATOM	7156	CE1	TYR	D	363	115.838	103.508	-95.296	1.00	49.06	D	C
ATOM	7157	CE2	TYR	D	363	116.233	101.562	-93.962	1.00	49.06	D	C
ATOM	7158	CZ	TYR	D	363	115.361	102.471	-94.522	1.00	49.06	D	C
ATOM	7159	OH	TYR	D	363	114.008	102.342	-94.306	1.00	49.06	D	O
ATOM	7160	C	TYR	D	363	119.878	103.575	-92.810	1.00	49.06	D	C
ATOM	7161	O	TYR	D	363	118.936	104.161	-92.277	1.00	49.06	D	O
ATOM	7162	N	THR	D	364	120.612	102.663	-92.180	1.00	38.67	D	N
ATOM	7163	CA	THR	D	364	120.333	102.278	-90.802	1.00	38.67	D	C
ATOM	7164	CB	THR	D	364	121.187	101.074	-90.368	1.00	38.67	D	C
ATOM	7165	OG1	THR	D	364	120.940	99.969	-91.246	1.00	38.67	D	O
ATOM	7166	CG2	THR	D	364	120.845	100.670	-88.943	1.00	38.67	D	C
ATOM	7167	C	THR	D	364	120.574	103.437	-89.839	1.00	38.67	D	C
ATOM	7168	O	THR	D	364	119.684	103.816	-89.079	1.00	38.67	D	O
ATOM	7169	N	ILE	D	365	121.780	103.994	-89.877	1.00	87.97	D	N
ATOM	7170	CA	ILE	D	365	122.132	105.120	-89.020	1.00	87.97	D	C
ATOM	7171	CB	ILE	D	365	123.571	105.602	-89.282	1.00	87.97	D	C
ATOM	7172	CG2	ILE	D	365	123.919	106.770	-88.372	1.00	87.97	D	C
ATOM	7173	CG1	ILE	D	365	124.563	104.454	-89.087	1.00	87.97	D	C
ATOM	7174	CD1	ILE	D	365	126.004	104.843	-89.340	1.00	87.97	D	C
ATOM	7175	C	ILE	D	365	121.172	106.284	-89.236	1.00	87.97	D	C
ATOM	7176	O	ILE	D	365	120.743	106.934	-88.284	1.00	87.97	D	O
ATOM	7177	N	VAL	D	366	120.839	106.538	-90.498	1.00	48.90	D	N

ATOM	7178	CA	VAL	D	366	119.921	107.614	-90.854	1.00	48.90	D	C
ATOM	7179	CB	VAL	D	366	119.784	107.747	-92.383	1.00	48.90	D	C
ATOM	7180	CG1	VAL	D	366	118.611	108.646	-92.738	1.00	48.90	D	C
ATOM	7181	CG2	VAL	D	366	121.075	108.276	-92.989	1.00	48.90	D	C
ATOM	7182	C	VAL	D	366	118.540	107.399	-90.242	1.00	48.90	D	C
ATOM	7183	O	VAL	D	366	117.955	108.319	-89.670	1.00	48.90	D	O
ATOM	7184	N	THR	D	367	118.026	106.180	-90.362	1.00	54.03	D	N
ATOM	7185	CA	THR	D	367	116.700	105.853	-89.850	1.00	54.03	D	C
ATOM	7186	CB	THR	D	367	116.239	104.463	-90.330	1.00	54.03	D	C
ATOM	7187	OG1	THR	D	367	116.227	104.428	-91.762	1.00	54.03	D	O
ATOM	7188	CG2	THR	D	367	114.844	104.155	-89.809	1.00	54.03	D	C
ATOM	7189	C	THR	D	367	116.653	105.896	-88.326	1.00	54.03	D	C
ATOM	7190	O	THR	D	367	115.705	106.419	-87.740	1.00	54.03	D	O
ATOM	7191	N	MET	D	368	117.681	105.345	-87.688	1.00	56.02	D	N
ATOM	7192	CA	MET	D	368	117.735	105.285	-86.231	1.00	56.02	D	C
ATOM	7193	CB	MET	D	368	118.911	104.420	-85.772	1.00	56.02	D	C
ATOM	7194	CG	MET	D	368	118.816	102.965	-86.202	1.00	56.02	D	C
ATOM	7195	SD	MET	D	368	120.177	101.963	-85.576	1.00	56.02	D	S
ATOM	7196	CE	MET	D	368	119.937	102.133	-83.810	1.00	56.02	D	C
ATOM	7197	C	MET	D	368	117.824	106.672	-85.601	1.00	56.02	D	C
ATOM	7198	O	MET	D	368	117.185	106.943	-84.585	1.00	56.02	D	O
ATOM	7199	N	THR	D	369	118.618	107.547	-86.210	1.00	66.05	D	N
ATOM	7200	CA	THR	D	369	118.800	108.900	-85.696	1.00	66.05	D	C
ATOM	7201	CB	THR	D	369	120.173	109.474	-86.089	1.00	66.05	D	C
ATOM	7202	OG1	THR	D	369	120.283	109.525	-87.516	1.00	66.05	D	O
ATOM	7203	CG2	THR	D	369	121.292	108.609	-85.529	1.00	66.05	D	C
ATOM	7204	C	THR	D	369	117.704	109.839	-86.191	1.00	66.05	D	C
ATOM	7205	O	THR	D	369	117.885	111.056	-86.220	1.00	66.05	D	O
ATOM	7206	N	THR	D	370	116.572	109.261	-86.580	1.00	71.04	D	N
ATOM	7207	CA	THR	D	370	115.417	110.029	-87.040	1.00	71.04	D	C
ATOM	7208	CB	THR	D	370	114.653	110.666	-85.860	1.00	71.04	D	C
ATOM	7209	OG1	THR	D	370	115.511	111.577	-85.162	1.00	71.04	D	O
ATOM	7210	CG2	THR	D	370	114.168	109.592	-84.897	1.00	71.04	D	C
ATOM	7211	C	THR	D	370	115.789	111.114	-88.049	1.00	71.04	D	C
ATOM	7212	O	THR	D	370	115.547	112.298	-87.818	1.00	71.04	D	O
ATOM	7213	N	LEU	D	371	116.374	110.701	-89.168	1.00	149.24	D	N
ATOM	7214	CA	LEU	D	371	116.745	111.634	-90.226	1.00	149.24	D	C
ATOM	7215	CB	LEU	D	371	118.212	111.453	-90.616	1.00	149.24	D	C
ATOM	7216	CG	LEU	D	371	119.254	111.750	-89.537	1.00	149.24	D	C
ATOM	7217	CD1	LEU	D	371	120.652	111.430	-90.040	1.00	149.24	D	C
ATOM	7218	CD2	LEU	D	371	119.161	113.199	-89.091	1.00	149.24	D	C
ATOM	7219	C	LEU	D	371	115.854	111.458	-91.450	1.00	149.24	D	C
ATOM	7220	O	LEU	D	371	115.016	112.308	-91.748	1.00	149.24	D	O
ATOM	7221	N	GLY	D	372	116.043	110.349	-92.157	1.00	45.54	D	N
ATOM	7222	CA	GLY	D	372	115.255	110.049	-93.339	1.00	45.54	D	C
ATOM	7223	C	GLY	D	372	115.454	111.058	-94.452	1.00	45.54	D	C
ATOM	7224	O	GLY	D	372	114.673	111.998	-94.595	1.00	45.54	D	O
ATOM	7225	N	TYR	D	373	116.502	110.863	-95.246	1.00	55.21	D	N
ATOM	7226	CA	TYR	D	373	116.796	111.760	-96.358	1.00	55.21	D	C
ATOM	7227	CB	TYR	D	373	118.275	111.673	-96.745	1.00	55.21	D	C
ATOM	7228	CG	TYR	D	373	119.220	112.174	-95.677	1.00	55.21	D	C
ATOM	7229	CD1	TYR	D	373	119.745	111.310	-94.725	1.00	55.21	D	C
ATOM	7230	CD2	TYR	D	373	119.590	113.511	-95.620	1.00	55.21	D	C
ATOM	7231	CE1	TYR	D	373	120.610	111.764	-93.747	1.00	55.21	D	C
ATOM	7232	CE2	TYR	D	373	120.454	113.973	-94.646	1.00	55.21	D	C
ATOM	7233	CZ	TYR	D	373	120.961	113.096	-93.712	1.00	55.21	D	C
ATOM	7234	OH	TYR	D	373	121.822	113.554	-92.741	1.00	55.21	D	O
ATOM	7235	C	TYR	D	373	115.918	111.453	-97.567	1.00	55.21	D	C
ATOM	7236	O	TYR	D	373	115.281	112.346	-98.126	1.00	55.21	D	O
ATOM	7237	N	GLY	D	374	115.890	110.185	-97.965	1.00	26.05	D	N
ATOM	7238	CA	GLY	D	374	115.087	109.761	-99.097	1.00	26.05	D	C
ATOM	7239	C	GLY	D	374	115.919	109.164	-100.215	1.00	26.05	D	C
ATOM	7240	O	GLY	D	374	115.382	108.682	-101.212	1.00	26.05	D	O
ATOM	7241	N	ASP	D	375	117.237	109.197	-100.049	1.00	57.71	D	N
ATOM	7242	CA	ASP	D	375	118.148	108.658	-101.052	1.00	57.71	D	C
ATOM	7243	CB	ASP	D	375	119.587	109.101	-100.770	1.00	57.71	D	C
ATOM	7244	CG	ASP	D	375	120.120	108.556	-99.458	1.00	57.71	D	C
ATOM	7245	OD1	ASP	D	375	119.327	108.399	-98.506	1.00	57.71	D	O

ATOM	7246	OD2	ASP	D	375	121.336	108.284	-99.378	1.00	57.71	D	O
ATOM	7247	C	ASP	D	375	118.068	107.136	-101.113	1.00	57.71	D	C
ATOM	7248	O	ASP	D	375	118.358	106.531	-102.145	1.00	57.71	D	O
ATOM	7249	N	MET	D	376	117.674	106.524	-100.001	1.00	56.92	D	N
ATOM	7250	CA	MET	D	376	117.547	105.073	-99.927	1.00	56.92	D	C
ATOM	7251	CB	MET	D	376	118.773	104.461	-99.246	1.00	56.92	D	C
ATOM	7252	CG	MET	D	376	120.084	104.727	-99.968	1.00	56.92	D	C
ATOM	7253	SD	MET	D	376	121.505	104.029	-99.105	1.00	56.92	D	S
ATOM	7254	CE	MET	D	376	121.084	102.288	-99.110	1.00	56.92	D	C
ATOM	7255	C	MET	D	376	116.280	104.676	-99.177	1.00	56.92	D	C
ATOM	7256	O	MET	D	376	116.128	104.982	-97.994	1.00	56.92	D	O
ATOM	7257	N	VAL	D	377	115.372	103.997	-99.870	1.00	110.24	D	N
ATOM	7258	CA	VAL	D	377	114.119	103.559	-99.265	1.00	110.24	D	C
ATOM	7259	CB	VAL	D	377	112.963	104.528	-99.590	1.00	110.24	D	C
ATOM	7260	CG1	VAL	D	377	113.175	105.864	-98.895	1.00	110.24	D	C
ATOM	7261	CG2	VAL	D	377	112.830	104.715	-101.094	1.00	110.24	D	C
ATOM	7262	C	VAL	D	377	113.738	102.152	-99.718	1.00	110.24	D	C
ATOM	7263	O	VAL	D	377	113.882	101.812	-100.892	1.00	110.24	D	O
ATOM	7264	N	PRO	D	378	113.253	101.328	-98.777	1.00	157.59	D	N
ATOM	7265	CA	PRO	D	378	112.810	99.959	-99.063	1.00	157.59	D	C
ATOM	7266	CD	PRO	D	378	113.156	101.651	-97.344	1.00	157.59	D	C
ATOM	7267	CB	PRO	D	378	112.288	99.473	-97.708	1.00	157.59	D	C
ATOM	7268	CG	PRO	D	378	113.010	100.305	-96.705	1.00	157.59	D	C
ATOM	7269	C	PRO	D	378	111.685	99.935	-100.093	1.00	157.59	D	C
ATOM	7270	O	PRO	D	378	111.036	100.957	-100.317	1.00	157.59	D	O
ATOM	7271	N	LYS	D	379	111.461	98.778	-100.708	1.00	201.84	D	N
ATOM	7272	CA	LYS	D	379	110.419	98.641	-101.719	1.00	201.84	D	C
ATOM	7273	CB	LYS	D	379	111.039	98.483	-103.109	1.00	201.84	D	C
ATOM	7274	CG	LYS	D	379	111.941	99.636	-103.522	1.00	201.84	D	C
ATOM	7275	CD	LYS	D	379	111.180	100.952	-103.554	1.00	201.84	D	C
ATOM	7276	CE	LYS	D	379	110.046	100.912	-104.566	1.00	201.84	D	C
ATOM	7277	NZ	LYS	D	379	109.303	102.201	-104.616	1.00	201.84	D	N
ATOM	7278	C	LYS	D	379	109.500	97.460	-101.420	1.00	201.84	D	C
ATOM	7279	O	LYS	D	379	108.300	97.514	-101.685	1.00	201.84	D	O
ATOM	7280	N	THR	D	380	110.071	96.395	-100.866	1.00	144.37	D	N
ATOM	7281	CA	THR	D	380	109.306	95.194	-100.552	1.00	144.37	D	C
ATOM	7282	CB	THR	D	380	110.204	93.943	-100.526	1.00	144.37	D	C
ATOM	7283	OG1	THR	D	380	111.218	94.099	-99.525	1.00	144.37	D	O
ATOM	7284	CG2	THR	D	380	110.862	93.731	-101.880	1.00	144.37	D	C
ATOM	7285	C	THR	D	380	108.589	95.320	-99.212	1.00	144.37	D	C
ATOM	7286	O	THR	D	380	108.765	96.302	-98.491	1.00	144.37	D	O
ATOM	7287	N	ILE	D	381	107.779	94.317	-98.886	1.00	82.77	D	N
ATOM	7288	CA	ILE	D	381	107.037	94.306	-97.631	1.00	82.77	D	C
ATOM	7289	CB	ILE	D	381	105.806	93.377	-97.702	1.00	82.77	D	C
ATOM	7290	CG2	ILE	D	381	105.196	93.194	-96.321	1.00	82.77	D	C
ATOM	7291	CG1	ILE	D	381	104.759	93.936	-98.669	1.00	82.77	D	C
ATOM	7292	CD1	ILE	D	381	105.133	93.817	-100.131	1.00	82.77	D	C
ATOM	7293	C	ILE	D	381	107.932	93.868	-96.476	1.00	82.77	D	C
ATOM	7294	O	ILE	D	381	107.878	94.438	-95.386	1.00	82.77	D	O
ATOM	7295	N	ALA	D	382	108.755	92.854	-96.723	1.00	53.32	D	N
ATOM	7296	CA	ALA	D	382	109.674	92.350	-95.709	1.00	53.32	D	C
ATOM	7297	CB	ALA	D	382	110.451	91.157	-96.243	1.00	53.32	D	C
ATOM	7298	C	ALA	D	382	110.628	93.445	-95.243	1.00	53.32	D	C
ATOM	7299	O	ALA	D	382	110.956	93.535	-94.060	1.00	53.32	D	O
ATOM	7300	N	GLY	D	383	111.069	94.277	-96.181	1.00	35.60	D	N
ATOM	7301	CA	GLY	D	383	111.962	95.376	-95.867	1.00	35.60	D	C
ATOM	7302	C	GLY	D	383	111.229	96.541	-95.232	1.00	35.60	D	C
ATOM	7303	O	GLY	D	383	111.838	97.395	-94.588	1.00	35.60	D	O
ATOM	7304	N	LYS	D	384	109.913	96.574	-95.416	1.00	53.39	D	N
ATOM	7305	CA	LYS	D	384	109.086	97.634	-94.853	1.00	53.39	D	C
ATOM	7306	CB	LYS	D	384	107.725	97.679	-95.550	1.00	53.39	D	C
ATOM	7307	CG	LYS	D	384	106.774	98.723	-94.990	1.00	53.39	D	C
ATOM	7308	CD	LYS	D	384	105.456	98.731	-95.747	1.00	53.39	D	C
ATOM	7309	CE	LYS	D	384	105.667	99.044	-97.219	1.00	53.39	D	C
ATOM	7310	NZ	LYS	D	384	106.312	100.371	-97.417	1.00	53.39	D	N
ATOM	7311	C	LYS	D	384	108.899	97.444	-93.352	1.00	53.39	D	C
ATOM	7312	O	LYS	D	384	108.933	98.406	-92.586	1.00	53.39	D	O
ATOM	7313	N	ILE	D	385	108.702	96.196	-92.939	1.00	33.52	D	N

ATOM	7314	CA	ILE	D	385	108.520	95.874	-91.529	1.00	33.52	D	C
ATOM	7315	CB	ILE	D	385	108.059	94.417	-91.339	1.00	33.52	D	C
ATOM	7316	CG2	ILE	D	385	107.869	94.106	-89.863	1.00	33.52	D	C
ATOM	7317	CG1	ILE	D	385	106.766	94.161	-92.116	1.00	33.52	D	C
ATOM	7318	CD1	ILE	D	385	106.248	92.744	-91.991	1.00	33.52	D	C
ATOM	7319	C	ILE	D	385	109.811	96.095	-90.748	1.00	33.52	D	C
ATOM	7320	O	ILE	D	385	109.800	96.673	-89.661	1.00	33.52	D	O
ATOM	7321	N	PHE	D	386	110.922	95.631	-91.311	1.00	111.88	D	N
ATOM	7322	CA	PHE	D	386	112.225	95.782	-90.674	1.00	111.88	D	C
ATOM	7323	CB	PHE	D	386	113.285	94.975	-91.426	1.00	111.88	D	C
ATOM	7324	CG	PHE	D	386	113.009	93.499	-91.466	1.00	111.88	D	C
ATOM	7325	CD1	PHE	D	386	112.232	92.899	-90.488	1.00	111.88	D	C
ATOM	7326	CD2	PHE	D	386	113.523	92.712	-92.483	1.00	111.88	D	C
ATOM	7327	CE1	PHE	D	386	111.976	91.541	-90.523	1.00	111.88	D	C
ATOM	7328	CE2	PHE	D	386	113.270	91.354	-92.523	1.00	111.88	D	C
ATOM	7329	CZ	PHE	D	386	112.495	90.768	-91.542	1.00	111.88	D	C
ATOM	7330	C	PHE	D	386	112.632	97.250	-90.602	1.00	111.88	D	C
ATOM	7331	O	PHE	D	386	113.310	97.671	-89.664	1.00	111.88	D	O
ATOM	7332	N	GLY	D	387	112.214	98.025	-91.597	1.00	27.68	D	N
ATOM	7333	CA	GLY	D	387	112.512	99.444	-91.636	1.00	27.68	D	C
ATOM	7334	C	GLY	D	387	111.795	100.207	-90.540	1.00	27.68	D	C
ATOM	7335	O	GLY	D	387	112.262	101.253	-90.088	1.00	27.68	D	O
ATOM	7336	N	SER	D	388	110.653	99.679	-90.111	1.00	31.06	D	N
ATOM	7337	CA	SER	D	388	109.873	100.300	-89.048	1.00	31.06	D	C
ATOM	7338	CB	SER	D	388	108.423	99.816	-89.093	1.00	31.06	D	C
ATOM	7339	OG	SER	D	388	107.817	100.136	-90.334	1.00	31.06	D	O
ATOM	7340	C	SER	D	388	110.482	100.003	-87.682	1.00	31.06	D	C
ATOM	7341	O	SER	D	388	110.568	100.883	-86.825	1.00	31.06	D	O
ATOM	7342	N	ILE	D	389	110.903	98.758	-87.486	1.00	33.86	D	N
ATOM	7343	CA	ILE	D	389	111.520	98.345	-86.231	1.00	33.86	D	C
ATOM	7344	CB	ILE	D	389	111.743	96.821	-86.187	1.00	33.86	D	C
ATOM	7345	CG2	ILE	D	389	112.349	96.407	-84.854	1.00	33.86	D	C
ATOM	7346	CG1	ILE	D	389	110.427	96.082	-86.438	1.00	33.86	D	C
ATOM	7347	CD1	ILE	D	389	110.558	94.574	-86.415	1.00	33.86	D	C
ATOM	7348	C	ILE	D	389	112.854	99.053	-86.026	1.00	33.86	D	C
ATOM	7349	O	ILE	D	389	113.223	99.393	-84.902	1.00	33.86	D	O
ATOM	7350	N	CYS	D	390	113.573	99.274	-87.122	1.00	36.22	D	N
ATOM	7351	CA	CYS	D	390	114.863	99.953	-87.072	1.00	36.22	D	C
ATOM	7352	CB	CYS	D	390	115.525	99.945	-88.451	1.00	36.22	D	C
ATOM	7353	SG	CYS	D	390	117.134	100.766	-88.513	1.00	36.22	D	S
ATOM	7354	C	CYS	D	390	114.711	101.385	-86.573	1.00	36.22	D	C
ATOM	7355	O	CYS	D	390	115.606	101.926	-85.923	1.00	36.22	D	O
ATOM	7356	N	SER	D	391	113.572	101.996	-86.883	1.00	67.70	D	N
ATOM	7357	CA	SER	D	391	113.296	103.363	-86.461	1.00	67.70	D	C
ATOM	7358	CB	SER	D	391	112.219	103.991	-87.348	1.00	67.70	D	C
ATOM	7359	OG	SER	D	391	111.953	105.326	-86.956	1.00	67.70	D	O
ATOM	7360	C	SER	D	391	112.866	103.409	-84.999	1.00	67.70	D	C
ATOM	7361	O	SER	D	391	113.234	104.324	-84.261	1.00	67.70	D	O
ATOM	7362	N	LEU	D	392	112.084	102.417	-84.586	1.00	41.51	D	N
ATOM	7363	CA	LEU	D	392	111.617	102.334	-83.208	1.00	41.51	D	C
ATOM	7364	CB	LEU	D	392	110.557	101.241	-83.064	1.00	41.51	D	C
ATOM	7365	CG	LEU	D	392	109.286	101.419	-83.897	1.00	41.51	D	C
ATOM	7366	CD1	LEU	D	392	108.343	100.242	-83.699	1.00	41.51	D	C
ATOM	7367	CD2	LEU	D	392	108.597	102.728	-83.547	1.00	41.51	D	C
ATOM	7368	C	LEU	D	392	112.778	102.067	-82.257	1.00	41.51	D	C
ATOM	7369	O	LEU	D	392	112.930	102.744	-81.240	1.00	41.51	D	O
ATOM	7370	N	SER	D	393	113.596	101.076	-82.597	1.00	31.53	D	N
ATOM	7371	CA	SER	D	393	114.764	100.738	-81.794	1.00	31.53	D	C
ATOM	7372	CB	SER	D	393	115.416	99.454	-82.310	1.00	31.53	D	C
ATOM	7373	OG	SER	D	393	114.513	98.363	-82.249	1.00	31.53	D	O
ATOM	7374	C	SER	D	393	115.773	101.880	-81.806	1.00	31.53	D	C
ATOM	7375	O	SER	D	393	116.511	102.079	-80.842	1.00	31.53	D	O
ATOM	7376	N	GLY	D	394	115.798	102.628	-82.904	1.00	30.12	D	N
ATOM	7377	CA	GLY	D	394	116.699	103.757	-83.039	1.00	30.12	D	C
ATOM	7378	C	GLY	D	394	116.447	104.822	-81.990	1.00	30.12	D	C
ATOM	7379	O	GLY	D	394	117.385	105.379	-81.420	1.00	30.12	D	O
ATOM	7380	N	VAL	D	395	115.174	105.104	-81.734	1.00	95.83	D	N
ATOM	7381	CA	VAL	D	395	114.795	106.095	-80.735	1.00	95.83	D	C

ATOM	7382	CB	VAL	D	395	113.292	106.424	-80.806	1.00	95.83	D	C
ATOM	7383	CG1	VAL	D	395	112.917	107.435	-79.734	1.00	95.83	D	C
ATOM	7384	CG2	VAL	D	395	112.929	106.945	-82.189	1.00	95.83	D	C
ATOM	7385	C	VAL	D	395	115.138	105.607	-79.331	1.00	95.83	D	C
ATOM	7386	O	VAL	D	395	115.604	106.377	-78.492	1.00	95.83	D	O
ATOM	7387	N	LEU	D	396	114.907	104.322	-79.084	1.00	88.54	D	N
ATOM	7388	CA	LEU	D	396	115.186	103.726	-77.783	1.00	88.54	D	C
ATOM	7389	CB	LEU	D	396	114.642	102.297	-77.722	1.00	88.54	D	C
ATOM	7390	CG	LEU	D	396	113.134	102.123	-77.912	1.00	88.54	D	C
ATOM	7391	CD1	LEU	D	396	112.769	100.650	-78.010	1.00	88.54	D	C
ATOM	7392	CD2	LEU	D	396	112.369	102.794	-76.782	1.00	88.54	D	C
ATOM	7393	C	LEU	D	396	116.680	103.725	-77.476	1.00	88.54	D	C
ATOM	7394	O	LEU	D	396	117.118	104.286	-76.472	1.00	88.54	D	O
ATOM	7395	N	VAL	D	397	117.455	103.090	-78.351	1.00	41.21	D	N
ATOM	7396	CA	VAL	D	397	118.897	102.960	-78.163	1.00	41.21	D	C
ATOM	7397	CB	VAL	D	397	119.568	102.322	-79.396	1.00	41.21	D	C
ATOM	7398	CG1	VAL	D	397	121.082	102.393	-79.275	1.00	41.21	D	C
ATOM	7399	CG2	VAL	D	397	119.106	100.882	-79.567	1.00	41.21	D	C
ATOM	7400	C	VAL	D	397	119.575	104.294	-77.861	1.00	41.21	D	C
ATOM	7401	O	VAL	D	397	120.409	104.385	-76.961	1.00	41.21	D	O
ATOM	7402	N	ILE	D	398	119.213	105.327	-78.615	1.00	120.02	D	N
ATOM	7403	CA	ILE	D	398	119.829	106.640	-78.458	1.00	120.02	D	C
ATOM	7404	CB	ILE	D	398	119.561	107.540	-79.681	1.00	120.02	D	C
ATOM	7405	CG2	ILE	D	398	120.174	108.917	-79.474	1.00	120.02	D	C
ATOM	7406	CG1	ILE	D	398	120.114	106.893	-80.952	1.00	120.02	D	C
ATOM	7407	CD1	ILE	D	398	119.885	107.711	-82.203	1.00	120.02	D	C
ATOM	7408	C	ILE	D	398	119.356	107.355	-77.195	1.00	120.02	D	C
ATOM	7409	O	ILE	D	398	120.142	108.016	-76.517	1.00	120.02	D	O
ATOM	7410	N	ALA	D	399	118.073	107.214	-76.878	1.00	64.31	D	N
ATOM	7411	CA	ALA	D	399	117.484	107.920	-75.743	1.00	64.31	D	C
ATOM	7412	CB	ALA	D	399	115.975	108.035	-75.916	1.00	64.31	D	C
ATOM	7413	C	ALA	D	399	117.819	107.275	-74.399	1.00	64.31	D	C
ATOM	7414	O	ALA	D	399	117.125	107.502	-73.409	1.00	64.31	D	O
ATOM	7415	N	LEU	D	400	118.880	106.476	-74.365	1.00	75.94	D	N
ATOM	7416	CA	LEU	D	400	119.299	105.824	-73.126	1.00	75.94	D	C
ATOM	7417	CB	LEU	D	400	119.469	104.314	-73.328	1.00	75.94	D	C
ATOM	7418	CG	LEU	D	400	118.215	103.523	-73.706	1.00	75.94	D	C
ATOM	7419	CD1	LEU	D	400	118.558	102.064	-73.961	1.00	75.94	D	C
ATOM	7420	CD2	LEU	D	400	117.152	103.648	-72.625	1.00	75.94	D	C
ATOM	7421	C	LEU	D	400	120.571	106.439	-72.537	1.00	75.94	D	C
ATOM	7422	O	LEU	D	400	120.584	106.834	-71.371	1.00	75.94	D	O
ATOM	7423	N	PRO	D	401	121.648	106.518	-73.337	1.00	77.22	D	N
ATOM	7424	CA	PRO	D	401	122.892	107.113	-72.838	1.00	77.22	D	C
ATOM	7425	CD	PRO	D	401	121.817	105.964	-74.690	1.00	77.22	D	C
ATOM	7426	CB	PRO	D	401	123.910	106.776	-73.936	1.00	77.22	D	C
ATOM	7427	CG	PRO	D	401	123.279	105.681	-74.741	1.00	77.22	D	C
ATOM	7428	C	PRO	D	401	122.776	108.626	-72.689	1.00	77.22	D	C
ATOM	7429	O	PRO	D	401	123.442	109.214	-71.836	1.00	77.22	D	O
ATOM	7430	N	VAL	D	402	121.936	109.245	-73.513	1.00	140.00	D	N
ATOM	7431	CA	VAL	D	402	121.774	110.696	-73.499	1.00	140.00	D	C
ATOM	7432	CB	VAL	D	402	120.800	111.176	-74.598	1.00	140.00	D	C
ATOM	7433	CG1	VAL	D	402	120.566	112.674	-74.483	1.00	140.00	D	C
ATOM	7434	CG2	VAL	D	402	121.336	110.818	-75.975	1.00	140.00	D	C
ATOM	7435	C	VAL	D	402	121.327	111.239	-72.139	1.00	140.00	D	C
ATOM	7436	O	VAL	D	402	121.978	112.125	-71.586	1.00	140.00	D	O
ATOM	7437	N	PRO	D	403	120.217	110.711	-71.594	1.00	65.75	D	N
ATOM	7438	CA	PRO	D	403	119.709	111.208	-70.310	1.00	65.75	D	C
ATOM	7439	CD	PRO	D	403	119.368	109.636	-72.138	1.00	65.75	D	C
ATOM	7440	CB	PRO	D	403	118.621	110.194	-69.954	1.00	65.75	D	C
ATOM	7441	CG	PRO	D	403	118.146	109.691	-71.267	1.00	65.75	D	C
ATOM	7442	C	PRO	D	403	120.782	111.228	-69.226	1.00	65.75	D	C
ATOM	7443	O	PRO	D	403	120.813	112.150	-68.411	1.00	65.75	D	O
ATOM	7444	N	VAL	D	404	121.650	110.222	-69.221	1.00	38.19	D	N
ATOM	7445	CA	VAL	D	404	122.723	110.144	-68.237	1.00	38.19	D	C
ATOM	7446	CB	VAL	D	404	123.462	108.796	-68.313	1.00	38.19	D	C
ATOM	7447	CG1	VAL	D	404	124.584	108.748	-67.287	1.00	38.19	D	C
ATOM	7448	CG2	VAL	D	404	122.490	107.647	-68.100	1.00	38.19	D	C
ATOM	7449	C	VAL	D	404	123.724	111.278	-68.434	1.00	38.19	D	C

ATOM	7450	O	VAL	D	404	124.158	111.911	-67.471	1.00	38.19	D	O
ATOM	7451	N	ILE	D	405	124.085	111.528	-69.688	1.00	45.11	D	N
ATOM	7452	CA	ILE	D	405	125.015	112.600	-70.020	1.00	45.11	D	C
ATOM	7453	CB	ILE	D	405	125.415	112.555	-71.507	1.00	45.11	D	C
ATOM	7454	CG2	ILE	D	405	126.410	113.658	-71.829	1.00	45.11	D	C
ATOM	7455	CG1	ILE	D	405	125.996	111.184	-71.860	1.00	45.11	D	C
ATOM	7456	CD1	ILE	D	405	126.419	111.053	-73.308	1.00	45.11	D	C
ATOM	7457	C	ILE	D	405	124.406	113.963	-69.703	1.00	45.11	D	C
ATOM	7458	O	ILE	D	405	125.113	114.900	-69.330	1.00	45.11	D	O
ATOM	7459	N	VAL	D	406	123.089	114.063	-69.851	1.00	96.58	D	N
ATOM	7460	CA	VAL	D	406	122.377	115.306	-69.579	1.00	96.58	D	C
ATOM	7461	CB	VAL	D	406	120.897	115.210	-69.995	1.00	96.58	D	C
ATOM	7462	CG1	VAL	D	406	120.154	116.478	-69.606	1.00	96.58	D	C
ATOM	7463	CG2	VAL	D	406	120.782	114.954	-71.489	1.00	96.58	D	C
ATOM	7464	C	VAL	D	406	122.456	115.679	-68.102	1.00	96.58	D	C
ATOM	7465	O	VAL	D	406	122.725	116.829	-67.756	1.00	96.58	D	O
ATOM	7466	N	SER	D	407	122.219	114.698	-67.236	1.00	31.59	D	N
ATOM	7467	CA	SER	D	407	122.258	114.919	-65.795	1.00	31.59	D	C
ATOM	7468	CB	SER	D	407	121.934	113.625	-65.046	1.00	31.59	D	C
ATOM	7469	OG	SER	D	407	121.948	113.828	-63.644	1.00	31.59	D	O
ATOM	7470	C	SER	D	407	123.617	115.453	-65.354	1.00	31.59	D	C
ATOM	7471	O	SER	D	407	123.705	116.282	-64.448	1.00	31.59	D	O
ATOM	7472	N	ASN	D	408	124.674	114.973	-66.001	1.00	49.82	D	N
ATOM	7473	CA	ASN	D	408	126.029	115.412	-65.688	1.00	49.82	D	C
ATOM	7474	CB	ASN	D	408	127.051	114.373	-66.154	1.00	49.82	D	C
ATOM	7475	CG	ASN	D	408	126.863	113.029	-65.479	1.00	49.82	D	C
ATOM	7476	OD1	ASN	D	408	126.418	112.954	-64.334	1.00	49.82	D	O
ATOM	7477	ND2	ASN	D	408	127.200	111.958	-66.188	1.00	49.82	D	N
ATOM	7478	C	ASN	D	408	126.343	116.772	-66.301	1.00	49.82	D	C
ATOM	7479	O	ASN	D	408	127.130	117.544	-65.753	1.00	49.82	D	O
ATOM	7480	N	PHE	D	409	125.721	117.060	-67.440	1.00	43.30	D	N
ATOM	7481	CA	PHE	D	409	125.915	118.335	-68.119	1.00	43.30	D	C
ATOM	7482	CB	PHE	D	409	125.301	118.296	-69.520	1.00	43.30	D	C
ATOM	7483	CG	PHE	D	409	125.449	119.581	-70.284	1.00	43.30	D	C
ATOM	7484	CD1	PHE	D	409	126.593	119.836	-71.022	1.00	43.30	D	C
ATOM	7485	CD2	PHE	D	409	124.443	120.533	-70.267	1.00	43.30	D	C
ATOM	7486	CE1	PHE	D	409	126.732	121.016	-71.727	1.00	43.30	D	C
ATOM	7487	CE2	PHE	D	409	124.576	121.716	-70.970	1.00	43.30	D	C
ATOM	7488	CZ	PHE	D	409	125.722	121.957	-71.701	1.00	43.30	D	C
ATOM	7489	C	PHE	D	409	125.313	119.481	-67.311	1.00	43.30	D	C
ATOM	7490	O	PHE	D	409	125.928	120.537	-67.162	1.00	43.30	D	O
ATOM	7491	N	SER	D	410	124.109	119.265	-66.794	1.00	71.88	D	N
ATOM	7492	CA	SER	D	410	123.433	120.271	-65.983	1.00	71.88	D	C
ATOM	7493	CB	SER	D	410	121.958	119.909	-65.796	1.00	71.88	D	C
ATOM	7494	OG	SER	D	410	121.289	119.832	-67.043	1.00	71.88	D	O
ATOM	7495	C	SER	D	410	124.113	120.420	-64.627	1.00	71.88	D	C
ATOM	7496	O	SER	D	410	124.033	121.472	-63.993	1.00	71.88	D	O
ATOM	7497	N	ARG	D	411	124.783	119.359	-64.188	1.00	148.46	D	N
ATOM	7498	CA	ARG	D	411	125.493	119.371	-62.915	1.00	148.46	D	C
ATOM	7499	CB	ARG	D	411	125.918	117.954	-62.528	1.00	148.46	D	C
ATOM	7500	CG	ARG	D	411	126.692	117.872	-61.222	1.00	148.46	D	C
ATOM	7501	CD	ARG	D	411	127.096	116.440	-60.910	1.00	148.46	D	C
ATOM	7502	NE	ARG	D	411	127.856	116.344	-59.667	1.00	148.46	D	N
ATOM	7503	CZ	ARG	D	411	129.180	116.436	-59.592	1.00	148.46	D	C
ATOM	7504	NH1	ARG	D	411	129.897	116.628	-60.691	1.00	148.46	D	N
ATOM	7505	NH2	ARG	D	411	129.788	116.337	-58.418	1.00	148.46	D	N
ATOM	7506	C	ARG	D	411	126.712	120.284	-62.981	1.00	148.46	D	C
ATOM	7507	O	ARG	D	411	126.925	121.117	-62.099	1.00	148.46	D	O
ATOM	7508	N	ILE	D	412	127.510	120.121	-64.032	1.00	95.71	D	N
ATOM	7509	CA	ILE	D	412	128.703	120.937	-64.225	1.00	95.71	D	C
ATOM	7510	CB	ILE	D	412	129.577	120.394	-65.372	1.00	95.71	D	C
ATOM	7511	CG2	ILE	D	412	130.831	121.239	-65.535	1.00	95.71	D	C
ATOM	7512	CG1	ILE	D	412	129.942	118.930	-65.118	1.00	95.71	D	C
ATOM	7513	CD1	ILE	D	412	130.722	118.707	-63.841	1.00	95.71	D	C
ATOM	7514	C	ILE	D	412	128.331	122.386	-64.521	1.00	95.71	D	C
ATOM	7515	O	ILE	D	412	129.015	123.314	-64.089	1.00	95.71	D	O
ATOM	7516	N	TYR	D	413	127.242	122.571	-65.261	1.00	110.37	D	N
ATOM	7517	CA	TYR	D	413	126.777	123.905	-65.619	1.00	110.37	D	C

ATOM	7518	CB	TYR	D	413	125.598	123.817	-66.590	1.00	110.37	D	C
ATOM	7519	CG	TYR	D	413	125.096	125.161	-67.071	1.00	110.37	D	C
ATOM	7520	CD1	TYR	D	413	125.605	125.740	-68.226	1.00	110.37	D	C
ATOM	7521	CD2	TYR	D	413	124.114	125.849	-66.371	1.00	110.37	D	C
ATOM	7522	CE1	TYR	D	413	125.150	126.967	-68.670	1.00	110.37	D	C
ATOM	7523	CE2	TYR	D	413	123.653	127.077	-66.807	1.00	110.37	D	C
ATOM	7524	CZ	TYR	D	413	124.174	127.631	-67.957	1.00	110.37	D	C
ATOM	7525	OH	TYR	D	413	123.717	128.853	-68.394	1.00	110.37	D	O
ATOM	7526	C	TYR	D	413	126.379	124.701	-64.380	1.00	110.37	D	C
ATOM	7527	O	TYR	D	413	126.799	125.845	-64.205	1.00	110.37	D	O
ATOM	7528	N	HIS	D	414	125.569	124.087	-63.523	1.00	72.45	D	N
ATOM	7529	CA	HIS	D	414	125.112	124.737	-62.300	1.00	72.45	D	C
ATOM	7530	ND1	HIS	D	414	122.483	124.327	-63.750	1.00	72.45	D	N
ATOM	7531	CG	HIS	D	414	122.754	123.829	-62.521	1.00	72.45	D	C
ATOM	7532	CB	HIS	D	414	123.974	123.939	-61.660	1.00	72.45	D	C
ATOM	7533	NE2	HIS	D	414	120.717	123.209	-63.085	1.00	72.45	D	N
ATOM	7534	CD2	HIS	D	414	121.629	123.134	-62.132	1.00	72.45	D	C
ATOM	7535	CE1	HIS	D	414	121.210	123.926	-64.078	1.00	72.45	D	C
ATOM	7536	C	HIS	D	414	126.256	124.912	-61.306	1.00	72.45	D	C
ATOM	7537	O	HIS	D	414	126.209	125.783	-60.437	1.00	72.45	D	O
ATOM	7538	N	GLN	D	415	127.282	124.078	-61.441	1.00	74.19	D	N
ATOM	7539	CA	GLN	D	415	128.444	124.146	-60.564	1.00	74.19	D	C
ATOM	7540	CB	GLN	D	415	129.296	122.883	-60.703	1.00	74.19	D	C
ATOM	7541	CG	GLN	D	415	130.530	122.864	-59.817	1.00	74.19	D	C
ATOM	7542	CD	GLN	D	415	131.330	121.585	-59.962	1.00	74.19	D	C
ATOM	7543	OE1	GLN	D	415	130.980	120.707	-60.751	1.00	74.19	D	O
ATOM	7544	NE2	GLN	D	415	132.412	121.473	-59.199	1.00	74.19	D	N
ATOM	7545	C	GLN	D	415	129.284	125.382	-60.868	1.00	74.19	D	C
ATOM	7546	O	GLN	D	415	129.822	126.019	-59.962	1.00	74.19	D	O
ATOM	7547	N	ASN	D	416	129.390	125.716	-62.150	1.00	34.42	D	N
ATOM	7548	CA	ASN	D	416	130.157	126.879	-62.580	1.00	34.42	D	C
ATOM	7549	CB	ASN	D	416	130.594	126.719	-64.039	1.00	34.42	D	C
ATOM	7550	CG	ASN	D	416	131.593	127.777	-64.471	1.00	34.42	D	C
ATOM	7551	OD1	ASN	D	416	131.594	128.896	-63.958	1.00	34.42	D	O
ATOM	7552	ND2	ASN	D	416	132.451	127.426	-65.422	1.00	34.42	D	N
ATOM	7553	C	ASN	D	416	129.363	128.170	-62.404	1.00	34.42	D	C
ATOM	7554	O	ASN	D	416	129.874	129.160	-61.879	1.00	34.42	D	O
ATOM	7555	N	GLN	D	417	128.109	128.149	-62.845	1.00	41.97	D	N
ATOM	7556	CA	GLN	D	417	127.242	129.318	-62.747	1.00	41.97	D	C
ATOM	7557	CB	GLN	D	417	125.930	129.073	-63.496	1.00	41.97	D	C
ATOM	7558	CG	GLN	D	417	124.968	130.250	-63.473	1.00	41.97	D	C
ATOM	7559	CD	GLN	D	417	125.489	131.448	-64.244	1.00	41.97	D	C
ATOM	7560	OE1	GLN	D	417	126.448	131.210	-65.132	1.00	41.97	D	O
ATOM	7561	NE2	GLN	D	417	125.032	132.574	-64.048	1.00	41.97	D	N
ATOM	7562	C	GLN	D	417	126.957	129.672	-61.291	1.00	41.97	D	C
ATOM	7563	O	GLN	D	417	126.923	128.801	-60.422	1.00	41.97	D	O
ATOM	7564	OXT	GLN	D	417	126.752	130.836	-60.947	1.00	41.97	D	O

END