

TITLE SWISS-MODEL SERVER (<https://swissmodel.expasy.org>)

TITLE 2 HRTV RdRp

EXPDTA THEORETICAL MODEL (SWISS-MODEL SERVER)

AUTHOR SWISS-MODEL SERVER (SEE REFERENCE IN JRNL Records)

REVDAT 1 10-APR-25 1MOD 1 01:11

JRNL AUTH A.WATERHOUSE,M.BERTONI,S.BIENERT,G.STUDER,G.TAURIELLO,  
 JRNL AUTH 2 R.GUMIENNY,F.T.HEER,T.A.P.DE BEER,C.REMPFER,L.BORDOLI,  
 JRNL AUTH 3 R.LEPORE,T.SCHWEDE  
 JRNL TITL SWISS-MODEL: HOMOLOGY MODELLING OF PROTEIN STRUCTURES AND  
 JRNL TITL 2 COMPLEXES  
 JRNL REF NUCLEIC.ACIDS.RES.. V. 46 W296 2018  
 JRNL PMID 29788355  
 JRNL DOI 10.1093/nar/gky427

REMARK 1

REMARK 1 REFERENCE 1

REMARK 1 AUTH S.BIENERT,A.WATERHOUSE,T.A.P.DE BEER,G.TAURIELLO,G.STUDER,  
 REMARK 1 AUTH 2 L.BORDOLI,T.SCHWEDE  
 REMARK 1 TITL THE SWISS-MODEL REPOSITORY - NEW FEATURES AND FUNCTIONALITY  
 REMARK 1 REF NUCLEIC.ACIDS.RES.. V. 45 2017  
 REMARK 1 REFN ISSN 0305-1048  
 REMARK 1 PMID 27899672  
 REMARK 1 DOI 10.1093/nar/gkw1132  
 REMARK 1

REMARK 1 REFERENCE 2

REMARK 1 AUTH N.GUEX,M.C.PEITSCH,T.SCHWEDE  
 REMARK 1 TITL AUTOMATED COMPARATIVE PROTEIN STRUCTURE MODELING WITH  
 REMARK 1 TITL 2 SWISS-MODEL AND SWISS-PDBVIEWER: A HISTORICAL PERSPECTIVE  
 REMARK 1 REF ELECTROPHORESIS V. 30 2009  
 REMARK 1 REFN ISSN 0173-0835  
 REMARK 1 PMID 19517507  
 REMARK 1 DOI 10.1002/elps.200900140  
 REMARK 1

REMARK 1 REFERENCE 3

REMARK 1 AUTH G.STUDER,G.TAURIELLO,S.BIENERT,M.BIASINI,N.JOHNER,T.SCHWEDE  
 REMARK 1 TITL PROMOD3 - A VERSATILE HOMOLOGY MODELLING TOOLBOX  
 REMARK 1 REF PLOS COMP. BIOL. V. 17 2021  
 REMARK 1 REFN ISSN  
 REMARK 1 PMID 33507980  
 REMARK 1 DOI 10.1371/journal.pcbi.1008667  
 REMARK 1

REMARK 1 REFERENCE 4

REMARK 1 AUTH G.STUDER,C.REMPFER,A.WATERHOUSE,R.GUMIENNY,J.HAAS,T.SCHWEDE  
 REMARK 1 TITL QMEANDISCO - DISTANCE CONSTRAINTS APPLIED ON MODEL QUALITY  
 REMARK 1 TITL 2 ESTIMATION  
 REMARK 1 REF BIOINFORMATICS V. 36 2020  
 REMARK 1 REFN ISSN  
 REMARK 1 PMID 31697312  
 REMARK 1 DOI 10.1093/bioinformatics/btz828  
 REMARK 1

REMARK 1 REFERENCE 5

REMARK 1 AUTH P.BENKERT,M.BIASINI,T.SCHWEDE  
 REMARK 1 TITL TOWARD THE ESTIMATION OF THE ABSOLUTE QUALITY OF INDIVIDUAL  
 REMARK 1 TITL 2 PROTEIN STRUCTURE MODELS  
 REMARK 1 REF BIOINFORMATICS V. 27 2011  
 REMARK 1 REFN ISSN 1367-4803  
 REMARK 1 PMID 21134891  
 REMARK 1 DOI 10.1093/bioinformatics/btq662  
 REMARK 1

REMARK 1 REFERENCE 6

REMARK 1 AUTH M.BERTONI,F.KIEFER,M.BIASINI,L.BORDOLI,T.SCHWEDE  
 REMARK 1 TITL MODELING PROTEIN QUATERNARY STRUCTURE OF HOMO- AND  
 REMARK 1 TITL 2 HETERO-OLIGOMERS BEYOND BINARY INTERACTIONS BY HOMOLOGY  
 REMARK 1 REF SCI.REP. V. 7 2017  
 REMARK 1 REFN ISSN

REMARK 1 PMID 28874689  
REMARK 1 DOI 10.1038/s41598-017-09654-8  
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REMARK 3  
REMARK 3 MODEL INFORMATION  
REMARK 3 SMVERSN 2025-02.4  
REMARK 3 ENGIN PROMOD3  
REMARK 3 VERSN 3.4.1  
REMARK 3 OSTAT monomer  
REMARK 3 OSRSN PREDICTION  
REMARK 3 QSPRD 0.000  
REMARK 3 GMQE 0.68  
REMARK 3 QMNV 4.3.1  
REMARK 3 QMNDG 0.70  
REMARK 3 MODT FALSE  
REMARK 3  
REMARK 3 TEMPLATE 1  
REMARK 3 PDBID 7alp  
REMARK 3 CHAIN U  
REMARK 3 MMCIF A  
REMARK 3 PDBV 2025-03-28  
REMARK 3 SMTLE 7alp.1.A  
REMARK 3 SMTLV 2025-04-02  
REMARK 3 MTHD ELECTRON MICROSCOPY 0.00 A  
REMARK 3 FOUND BLAST  
REMARK 3 GMQE 0.73  
REMARK 3 SIM 0.53  
REMARK 3 SID 73.32

REMARK 3 OSTAT monomer  
REMARK 3 LIGND MG  
REMARK 3 LIGND 2 MG  
REMARK 3 ALN A TRG MNLEALCSRVLSEGLSTGEPGVYDQIFERPGLPNLEVTVDSTGVVVDVGAIPDSASQ  
REMARK 3 ALN A TRG LGSSINAGVLTIPLEAYKINHDFTFSGLTKTDDRKLSEVFPLVHDGSDSMTPDVHT  
REMARK 3 ALN A TRG RLDGTVVVIEFTTTRSTNMGGLEAAYRSKLEKYRDLNRRSDIMPDAIYFGIIVVSA  
REMARK 3 ALN A TRG SGVLNLMPLTQDEAEELMFRFCVANEIYSQARAMDAEVELQKSEEEYEAIISRARAFFT  
REMARK 3 ALN A TRG LFDYDDGKLSEAFPNSDIEMLRRLSQPVDTSFVTTTLKEKEQEAYKRMCEEHYLKS  
REMARK 3 ALN A TRG MSTKERLEANRNDIDKTRALMERLHNMSSKELHSNKSTVKLPVWVKPSDRTLVDVKT  
REMARK 3 ALN A TRG DTGSGELLNHGPYGLWSRCLFLEIVLGNVEGVISSPEKELEIAISDDPEADTPKAAKI  
REMARK 3 ALN A TRG KYHRFRPELSLESKEHESLQIGIEGRWKHSARNVLKDEMSHKTMSPFVDVSNIEEFLI  
REMARK 3 ALN A TRG MNNLLNDTSFNREGLQETINLLEKATEMHQNGLSTALNDSFKRNFNTNVVQWSMWVS  
REMARK 3 ALN A TRG CLAQELASALKQHCKPGEFIIKKLMHWPIFAIIKPTKSSSHIFYSLAIKKANIKRRLI  
REMARK 3 ALN A TRG GDVFTDTIDAGEWEFSEFKSLKTCKLTNLINLPCTMLNSIAFWREKMGVAPWISRKAC  
REMARK 3 ALN A TRG SELREQVAITFLMSLEDKSTTEELVTLTRYSQMEGFVSPPLPKPQKMVEKLEVLRT  
REMARK 3 ALN A TRG KLQVFLFRRHLDAIVRVAASPFPIVARDGRVETGTFTNAITGRSTGLENMNVNWIYGY  
REMARK 3 ALN A TRG YKNKEESTELNALGEMYKKIVEIEAEKPASSEYLGWGDTSPPKRHEFSRSFLKSACIS  
REMARK 3 ALN A TRG LEKEIEMRHGKSWKQSLFEEVRLKELGSKNLLDLATMKATSNFSKEWEAFSEVRTKEYH  
REMARK 3 ALN A TRG RSKLLEKMAELIEHGLMWYDAAGHAWKAVLDDKCMRICLFKKNQHGGLREIYVTNAN  
REMARK 3 ALN A TRG ARLVQFGVETMARCVCELSPHETIANPRLKSSIIENHGLKSARQLGQGTINVNSSNDA  
REMARK 3 ALN A TRG KKWSQGHYTTKLAMVLCWFMPAKFHRFIWAGISMFRCKKMMMDLRFLEKLSTKANQKT  
REMARK 3 ALN A TRG DDDFRKDLAAGFHGNVEVPWMTQGATYLTETGMMQGIHFTSSLHSCVQSFYKAYF  
REMARK 3 ALN A TRG LSRLKEGIAGRTIKAADVLEGSDDSAIMISLKPASDNEEAMARFLTANLLYSVRVIN  
REMARK 3 ALN A TRG PLFGIYSSEKSTVNTLFCVEYNSEFHFHKLVRPTIRWAASHQISESEALASRQEDY  
REMARK 3 ALN A TRG ANLLTQCLEGGSSFSLYTLIQCAQLVHHYMLLGLCLHPLFGTFVGMILEDPPALGFF  
REMARK 3 ALN A TRG IMDNPAFAGGAGFRFNLWRSCKFTNLGKKYAFFNEIQGKTKGDADYRALDATTGGTL  
REMARK 3 ALN A TRG SHSVMYWGDRRKYQHLDRMGLPKDWVERIDENPSVLYRRPENKQELILRLAEKVHS  
REMARK 3 ALN A TRG PGVTSSFSKGHVVPVVAAGVYLLSRHCFRYTASIHGRGASQKSLIKLLVMSSTSAE  
REMARK 3 ALN A TRG RNQGRNLNPQERMLFPQVQEYERVLTLLEVTALTGKFVVRERNIVKSRVELFQEPVD  
REMARK 3 ALN A TRG LRCKAENLIAEMWFLKRTKLGPRLKEEWDKLASFWSLTDHKETLDVGPFLSHVQ  
REMARK 3 ALN A TRG FRNFIAHVDAKSRSVRLGAPVKKSGGVTTVSQVKSNNFPGFILDSSSESLDDQERVE  
REMARK 3 ALN A TRG GVSILKHILFMTLNGPYTDEQKKAMVLEAFQYFALPHAEEVVKRSRLTCLMKNFIE  
REMARK 3 ALN A TRG QRGGSILDQIEKAGPYTGGFSKPQKPYRKQSGGIGYKGGVWSGMENTNVQILIDG  
REMARK 3 ALN A TRG DGSSNWIIEIRLSSESRLFDVIESVRRLCDINNVNRRVTSFRGHCMVRLSNFKVKPA  
REMARK 3 ALN A TRG SRVEGCPVRLMPSSFRIKELQNPDEVFLVRGDIILNLSILLQEDRVMNLLSYRARDTD  
REMARK 3 ALN A TRG ISESAASYLWMNRTDFSFGKKEPSCSWMCLKTLDSSAWNQAARVLERNIKTPGIDNTA  
REMARK 3 ALN A TRG MGNIFKDCLESSLRKQGLLRSRIAEMVERHVIPLTSQELVDILEEDVDFSEMMQSDIM  
REMARK 3 ALN A TRG EGDLDIDILMEGSPMLWAAVEEEMGEAMVILSQSGKYHLKLMQQAATTLSTILGKDG  
REMARK 3 ALN A TRG CRLLLGERTCGSNLREQVPYLTLLQIREGDNVWSEYKDDTRGLDEDSAEWWG  
REMARK 3 ALN A TPL MNLEVLGCRINVENGLSLGEPGLYDQIYDRPGLPDLDVTVDATGTVTDIGAVPDSASQ  
REMARK 3 ALN A TPL LGSSINAGLITIQLSEAYKINHDFTFSGLSKTTDRRLSEVFPITHDGSMTDPDVHT  
REMARK 3 ALN A TPL RLDGTIVVVEFTTTRSHNIGGLEAAYRTKIEKYRDPISRRVDIMENPRVFFGVIVVSS  
REMARK 3 ALN A TPL GGVLSNMPLTQDEAEELMYRFCIANEITYTKARSMADIEELQKSEEELEAISRALSFFS  
REMARK 3 ALN A TPL LFEPNIERVEGTFPNSIEMLEQLSTPADVDFITKTLKAKEVEAYADLCDSHYLKPE  
REMARK 3 ALN A TPL KTIQERLEINRCEAIDKTDLLAGLHARSNKQTSNLRGTVKLPWPVKPSSSIDIKT  
REMARK 3 ALN A TPL DSGFGSLMDHGAYGELWAKCLLDVSLGNVEGVVSDPAKELDIAISDDPEKDTPEAKI  
REMARK 3 ALN A TPL TYRRFKPALSSSARQEFSLQGVGKKWKRMAANQKKEKESHDAISPLDVEDIGDFLT  
REMARK 3 ALN A TPL FNNLLADSRYGDESQRAVSILLEKASAMQDTELTHALNDSFKRNLSSNVVQWSLWVS  
REMARK 3 ALN A TPL CLAQELASALKQHCRAGEFIIKKLFWPIYVVIKPTKSSSHIFYSLGIRKADVTRRLT  
REMARK 3 ALN A TPL GRVSETIDAGEWELTEFKSLKTCKLTNLVNLPCMLNSIAFWREKLGVAWPLVRKPC  
REMARK 3 ALN A TPL SELREQVGLTFLISLEDKSKTEEITLTRYTQMEGFVSPMLPKPQKMLGKLDGPLRT  
REMARK 3 ALN A TPL KLQVYLLRKHLDCMVRIASQPFSLIPREGRVWGGTFHAISGRSTNLENMVNSWYIGY  
REMARK 3 ALN A TPL YKNKEESTELNALGEMYKKIVEMEEDKPSSPEFLGWGDTDSPKKHEFSRSFLAACSS  
REMARK 3 ALN A TPL LEREIAQRHGRQWKQNLLEERVLEIGTKNILDASMKATSNFSKDWELYSEVQTKEYH  
REMARK 3 ALN A TPL RSKLLEKMATLIEKGMWYIDAVGQAWKAVLDDGCMRICLFKKNQHGGLREIYVMDAN  
REMARK 3 ALN A TPL ARLVQFGVETMARCVCELSPHETVANPRLKNSIIENHGLKSARS LGPGSININSSNDA  
REMARK 3 ALN A TPL KKWNQGHYTTKLALVLCWFMPAKFHRFIWAAISMFRKKMMVDLRLAHLSSKSESRS  
REMARK 3 ALN A TPL SDPFREAMTDAFHGNREVSWMKGRTYIKTETGMMQGIHFTSSLHSCVQSFYKSYF  
REMARK 3 ALN A TPL VSKLKEGYMGESISGVVDVIEGSDDSAIMISIRPKSDMDEVRSRFFVANLLHSVKFLN  
REMARK 3 ALN A TPL PLFGIYSSEKSTVNTVYVEYNSEFHFHRLVRPTLRWIAASHQISETEALASRQEDY  
REMARK 3 ALN A TPL SNLLTQCLEGGASFSLYTLIQCAQLLHHYMLLGLCLHPLFGTFMGMLISDPPALGFF  
REMARK 3 ALN A TPL LMDNPAFAGGAGFRFNLWRACKTTDLGRKYAYYFNEIQGKTKGDEDYRALDATSGGTL  
REMARK 3 ALN A TPL SHSVMVYWGDRKKYQALLNRMGLPEDWVEQIDENPGVLYRRAANKKELLKLAEKVHS  
REMARK 3 ALN A TPL PGVTSSLSKGHVVPVVAAGVYLLSRHCFRFSIIHGRGSTQKASLIKLLMSSISAM  
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REMARK 3 ALN A TPL LRCKAEDLVSEVWFGKRLKGLPRLKEEWDKLRASFAWLSTDPSETLRDGPFLSHVQ  
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 REMARK 3 ALN A TPL SRTDGCVPVRIMERGFRIRELQNPDEVKMRVRGDILNLSVTIQEGRVMNLSYRPRDTD  
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 REMARK 3 ALN A TPL MGNIFRDCLEGLSRKQGLMRSKLTMEVKNVPLTTQELVDILEEDIDFSDVIAVELS  
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 REMARK 3 ALN A TPL CRGLLTEKRCMAAIREQVRPFLIFLQIPEDSISWVSDQFCDSRGLDEESTIMWG

REMARK 3 ALN A OFF 0

ATOM	1	N	MET	A	1	116.687	96.653	95.308	1.00	0.68	N
ATOM	2	CA	MET	A	1	117.856	97.426	94.774	1.00	0.68	C
ATOM	3	C	MET	A	1	117.805	97.534	93.260	1.00	0.68	C
ATOM	4	O	MET	A	1	117.764	96.498	92.613	1.00	0.68	O
ATOM	5	CB	MET	A	1	119.163	96.672	95.173	1.00	0.68	C
ATOM	6	CG	MET	A	1	119.380	96.467	96.688	1.00	0.68	C
ATOM	7	SD	MET	A	1	119.377	98.009	97.642	1.00	0.68	S
ATOM	8	CE	MET	A	1	121.003	98.639	97.134	1.00	0.68	C
ATOM	9	N	ASN	A	2	117.764	98.752	92.674	1.00	0.68	N
ATOM	10	CA	ASN	A	2	118.017	98.965	91.257	1.00	0.68	C
ATOM	11	C	ASN	A	2	118.254	100.468	91.110	1.00	0.68	C
ATOM	12	O	ASN	A	2	117.841	101.234	91.982	1.00	0.68	O
ATOM	13	CB	ASN	A	2	116.867	98.459	90.327	1.00	0.68	C
ATOM	14	CG	ASN	A	2	117.328	98.523	88.872	1.00	0.68	C
ATOM	15	OD1	ASN	A	2	118.522	98.379	88.608	1.00	0.68	O
ATOM	16	ND2	ASN	A	2	116.409	98.840	87.940	1.00	0.68	N
ATOM	17	N	LEU	A	3	118.940	100.919	90.041	1.00	0.80	N
ATOM	18	CA	LEU	A	3	119.294	102.312	89.830	1.00	0.80	C
ATOM	19	C	LEU	A	3	118.128	103.209	89.418	1.00	0.80	C
ATOM	20	O	LEU	A	3	117.967	104.313	89.941	1.00	0.80	O
ATOM	21	CB	LEU	A	3	120.485	102.405	88.850	1.00	0.80	C
ATOM	22	CG	LEU	A	3	121.258	103.741	88.922	1.00	0.80	C
ATOM	23	CD1	LEU	A	3	122.766	103.501	88.777	1.00	0.80	C
ATOM	24	CD2	LEU	A	3	120.787	104.760	87.875	1.00	0.80	C
ATOM	25	N	GLU	A	4	117.235	102.746	88.516	1.00	0.76	N
ATOM	26	CA	GLU	A	4	116.099	103.493	87.984	1.00	0.76	C
ATOM	27	C	GLU	A	4	115.146	104.080	89.019	1.00	0.76	C
ATOM	28	O	GLU	A	4	114.624	105.177	88.838	1.00	0.76	O
ATOM	29	CB	GLU	A	4	115.257	102.629	87.007	1.00	0.76	C
ATOM	30	CG	GLU	A	4	115.856	102.492	85.582	1.00	0.76	C
ATOM	31	CD	GLU	A	4	117.043	101.543	85.453	1.00	0.76	C
ATOM	32	OE1	GLU	A	4	117.452	100.938	86.476	1.00	0.76	O
ATOM	33	OE2	GLU	A	4	117.528	101.408	84.302	1.00	0.76	O
ATOM	34	N	ALA	A	5	114.904	103.373	90.142	1.00	0.80	N
ATOM	35	CA	ALA	A	5	114.030	103.838	91.205	1.00	0.80	C
ATOM	36	C	ALA	A	5	114.771	104.606	92.296	1.00	0.80	C
ATOM	37	O	ALA	A	5	114.176	105.109	93.247	1.00	0.80	O
ATOM	38	CB	ALA	A	5	113.353	102.619	91.858	1.00	0.80	C
ATOM	39	N	LEU	A	6	116.103	104.716	92.178	1.00	0.79	N
ATOM	40	CA	LEU	A	6	116.935	105.593	92.974	1.00	0.79	C
ATOM	41	C	LEU	A	6	117.078	106.950	92.280	1.00	0.79	C
ATOM	42	O	LEU	A	6	116.940	108.003	92.899	1.00	0.79	O
ATOM	43	CB	LEU	A	6	118.280	104.864	93.221	1.00	0.79	C
ATOM	44	CG	LEU	A	6	119.376	105.653	93.959	1.00	0.79	C
ATOM	45	CD1	LEU	A	6	120.130	104.746	94.942	1.00	0.79	C
ATOM	46	CD2	LEU	A	6	120.385	106.251	92.970	1.00	0.79	C
ATOM	47	N	CYS	A	7	117.287	106.973	90.943	1.00	0.81	N
ATOM	48	CA	CYS	A	7	117.424	108.210	90.177	1.00	0.81	C
ATOM	49	C	CYS	A	7	116.092	108.885	89.820	1.00	0.81	C
ATOM	50	O	CYS	A	7	116.065	110.050	89.418	1.00	0.81	O
ATOM	51	CB	CYS	A	7	118.297	108.008	88.903	1.00	0.81	C
ATOM	52	SG	CYS	A	7	117.549	106.926	87.638	1.00	0.81	S
ATOM	53	N	SER	A	8	114.940	108.192	89.994	1.00	0.80	N
ATOM	54	CA	SER	A	8	113.612	108.796	89.852	1.00	0.80	C

ATOM	55	C	SER	A	8	113.079	109.335	91.174	1.00	0.80	C
ATOM	56	O	SER	A	8	112.019	109.946	91.214	1.00	0.80	O
ATOM	57	CB	SER	A	8	112.526	107.854	89.235	1.00	0.80	C
ATOM	58	OG	SER	A	8	112.175	106.746	90.072	1.00	0.80	O
ATOM	59	N	ARG	A	9	113.821	109.180	92.294	1.00	0.65	N
ATOM	60	CA	ARG	A	9	113.478	109.814	93.563	1.00	0.65	C
ATOM	61	C	ARG	A	9	113.973	111.263	93.649	1.00	0.65	C
ATOM	62	O	ARG	A	9	113.536	112.048	94.488	1.00	0.65	O
ATOM	63	CB	ARG	A	9	114.084	109.039	94.765	1.00	0.65	C
ATOM	64	CG	ARG	A	9	113.294	107.803	95.259	1.00	0.65	C
ATOM	65	CD	ARG	A	9	113.985	107.218	96.505	1.00	0.65	C
ATOM	66	NE	ARG	A	9	113.160	106.180	97.233	1.00	0.65	N
ATOM	67	CZ	ARG	A	9	113.405	104.868	97.091	1.00	0.65	C
ATOM	68	NH1	ARG	A	9	113.771	104.348	95.929	1.00	0.65	N
ATOM	69	NH2	ARG	A	9	113.316	104.054	98.146	1.00	0.65	N
ATOM	70	N	VAL	A	10	114.904	111.688	92.774	1.00	0.82	N
ATOM	71	CA	VAL	A	10	115.475	113.023	92.866	1.00	0.82	C
ATOM	72	C	VAL	A	10	114.969	113.931	91.758	1.00	0.82	C
ATOM	73	O	VAL	A	10	115.229	113.735	90.570	1.00	0.82	O
ATOM	74	CB	VAL	A	10	116.999	113.016	92.888	1.00	0.82	C
ATOM	75	CG1	VAL	A	10	117.528	114.451	93.095	1.00	0.82	C
ATOM	76	CG2	VAL	A	10	117.479	112.123	94.051	1.00	0.82	C
ATOM	77	N	LEU	A	11	114.240	114.995	92.149	1.00	0.81	N
ATOM	78	CA	LEU	A	11	113.940	116.124	91.293	1.00	0.81	C
ATOM	79	C	LEU	A	11	115.041	117.158	91.428	1.00	0.81	C
ATOM	80	O	LEU	A	11	115.663	117.332	92.480	1.00	0.81	O
ATOM	81	CB	LEU	A	11	112.569	116.755	91.650	1.00	0.81	C
ATOM	82	CG	LEU	A	11	111.977	117.797	90.674	1.00	0.81	C
ATOM	83	CD1	LEU	A	11	111.771	117.219	89.268	1.00	0.81	C
ATOM	84	CD2	LEU	A	11	110.637	118.323	91.221	1.00	0.81	C
ATOM	85	N	SER	A	12	115.318	117.879	90.335	1.00	0.83	N
ATOM	86	CA	SER	A	12	116.284	118.948	90.347	1.00	0.83	C
ATOM	87	C	SER	A	12	115.747	120.028	89.463	1.00	0.83	C
ATOM	88	O	SER	A	12	115.184	119.760	88.402	1.00	0.83	O
ATOM	89	CB	SER	A	12	117.684	118.537	89.832	1.00	0.83	C
ATOM	90	OG	SER	A	12	118.643	119.567	90.082	1.00	0.83	O
ATOM	91	N	GLU	A	13	115.905	121.283	89.905	1.00	0.80	N
ATOM	92	CA	GLU	A	13	115.584	122.435	89.103	1.00	0.80	C
ATOM	93	C	GLU	A	13	116.824	122.827	88.311	1.00	0.80	C
ATOM	94	O	GLU	A	13	117.917	122.301	88.534	1.00	0.80	O
ATOM	95	CB	GLU	A	13	115.002	123.584	89.979	1.00	0.80	C
ATOM	96	CG	GLU	A	13	114.357	124.762	89.198	1.00	0.80	C
ATOM	97	CD	GLU	A	13	113.537	124.273	88.008	1.00	0.80	C
ATOM	98	OE1	GLU	A	13	112.472	123.640	88.222	1.00	0.80	O
ATOM	99	OE2	GLU	A	13	114.021	124.445	86.859	1.00	0.80	O
ATOM	100	N	ARG	A	14	116.649	123.716	87.324	1.00	0.74	N
ATOM	101	CA	ARG	A	14	117.657	124.251	86.444	1.00	0.74	C
ATOM	102	C	ARG	A	14	118.909	124.794	87.129	1.00	0.74	C
ATOM	103	O	ARG	A	14	118.857	125.543	88.103	1.00	0.74	O
ATOM	104	CB	ARG	A	14	116.989	125.363	85.605	1.00	0.74	C
ATOM	105	CG	ARG	A	14	117.826	125.925	84.443	1.00	0.74	C
ATOM	106	CD	ARG	A	14	117.219	127.188	83.828	1.00	0.74	C
ATOM	107	NE	ARG	A	14	115.932	126.770	83.210	1.00	0.74	N
ATOM	108	CZ	ARG	A	14	115.285	127.557	82.348	1.00	0.74	C
ATOM	109	NH1	ARG	A	14	115.418	128.879	82.364	1.00	0.74	N
ATOM	110	NH2	ARG	A	14	114.608	126.984	81.359	1.00	0.74	N
ATOM	111	N	GLY	A	15	120.089	124.414	86.602	1.00	0.87	N
ATOM	112	CA	GLY	A	15	121.376	124.690	87.215	1.00	0.87	C
ATOM	113	C	GLY	A	15	122.038	123.417	87.658	1.00	0.87	C
ATOM	114	O	GLY	A	15	121.914	122.370	87.023	1.00	0.87	O
ATOM	115	N	LEU	A	16	122.799	123.499	88.760	1.00	0.86	N
ATOM	116	CA	LEU	A	16	123.536	122.391	89.324	1.00	0.86	C
ATOM	117	C	LEU	A	16	123.147	122.239	90.781	1.00	0.86	C
ATOM	118	O	LEU	A	16	123.097	123.212	91.531	1.00	0.86	O
ATOM	119	CB	LEU	A	16	125.055	122.626	89.168	1.00	0.86	C

ATOM	120	CG	LEU	A	16	125.956	121.519	89.747	1.00	0.86	C
ATOM	121	CD1	LEU	A	16	127.134	121.274	88.802	1.00	0.86	C
ATOM	122	CD2	LEU	A	16	126.485	121.871	91.148	1.00	0.86	C
ATOM	123	N	SER	A	17	122.822	121.007	91.215	1.00	0.85	N
ATOM	124	CA	SER	A	17	122.303	120.746	92.550	1.00	0.85	C
ATOM	125	C	SER	A	17	123.110	119.663	93.250	1.00	0.85	C
ATOM	126	O	SER	A	17	123.166	118.523	92.799	1.00	0.85	O
ATOM	127	CB	SER	A	17	120.823	120.302	92.421	1.00	0.85	C
ATOM	128	OG	SER	A	17	120.106	120.251	93.662	1.00	0.85	O
ATOM	129	N	THR	A	18	123.771	119.986	94.387	1.00	0.83	N
ATOM	130	CA	THR	A	18	124.662	119.060	95.103	1.00	0.83	C
ATOM	131	C	THR	A	18	123.994	118.357	96.255	1.00	0.83	C
ATOM	132	O	THR	A	18	124.563	117.477	96.891	1.00	0.83	O
ATOM	133	CB	THR	A	18	125.831	119.780	95.774	1.00	0.83	C
ATOM	134	OG1	THR	A	18	125.393	120.903	96.539	1.00	0.83	O
ATOM	135	CG2	THR	A	18	126.769	120.316	94.690	1.00	0.83	C
ATOM	136	N	GLY	A	19	122.755	118.747	96.577	1.00	0.84	N
ATOM	137	CA	GLY	A	19	122.052	118.252	97.749	1.00	0.84	C
ATOM	138	C	GLY	A	19	122.649	118.514	99.119	1.00	0.84	C
ATOM	139	O	GLY	A	19	123.581	119.294	99.282	1.00	0.84	O
ATOM	140	N	GLU	A	20	122.054	117.874	100.144	1.00	0.71	N
ATOM	141	CA	GLU	A	20	122.481	117.865	101.531	1.00	0.71	C
ATOM	142	C	GLU	A	20	122.622	116.389	101.853	1.00	0.71	C
ATOM	143	O	GLU	A	20	121.858	115.606	101.283	1.00	0.71	O
ATOM	144	CB	GLU	A	20	121.414	118.506	102.463	1.00	0.71	C
ATOM	145	CG	GLU	A	20	121.479	118.259	104.003	1.00	0.71	C
ATOM	146	CD	GLU	A	20	120.713	117.025	104.475	1.00	0.71	C
ATOM	147	OE1	GLU	A	20	119.990	116.431	103.635	1.00	0.71	O
ATOM	148	OE2	GLU	A	20	120.772	116.707	105.686	1.00	0.71	O
ATOM	149	N	PRO	A	21	123.570	115.946	102.661	1.00	0.81	N
ATOM	150	CA	PRO	A	21	123.771	114.521	102.893	1.00	0.81	C
ATOM	151	C	PRO	A	21	123.052	114.007	104.134	1.00	0.81	C
ATOM	152	O	PRO	A	21	123.432	114.341	105.246	1.00	0.81	O
ATOM	153	CB	PRO	A	21	125.296	114.445	103.057	1.00	0.81	C
ATOM	154	CG	PRO	A	21	125.696	115.782	103.687	1.00	0.81	C
ATOM	155	CD	PRO	A	21	124.758	116.746	102.982	1.00	0.81	C
ATOM	156	N	GLY	A	22	122.050	113.120	103.986	1.00	0.87	N
ATOM	157	CA	GLY	A	22	121.352	112.489	105.101	1.00	0.87	C
ATOM	158	C	GLY	A	22	122.058	111.268	105.651	1.00	0.87	C
ATOM	159	O	GLY	A	22	122.723	110.526	104.928	1.00	0.87	O
ATOM	160	N	VAL	A	23	121.900	111.011	106.967	1.00	0.85	N
ATOM	161	CA	VAL	A	23	122.554	109.915	107.680	1.00	0.85	C
ATOM	162	C	VAL	A	23	121.563	108.800	107.947	1.00	0.85	C
ATOM	163	O	VAL	A	23	120.480	109.040	108.475	1.00	0.85	O
ATOM	164	CB	VAL	A	23	123.110	110.305	109.057	1.00	0.85	C
ATOM	165	CG1	VAL	A	23	124.035	109.187	109.587	1.00	0.85	C
ATOM	166	CG2	VAL	A	23	123.923	111.601	108.972	1.00	0.85	C
ATOM	167	N	TYR	A	24	121.925	107.546	107.619	1.00	0.82	N
ATOM	168	CA	TYR	A	24	121.098	106.380	107.878	1.00	0.82	C
ATOM	169	C	TYR	A	24	121.888	105.342	108.665	1.00	0.82	C
ATOM	170	O	TYR	A	24	123.063	105.098	108.391	1.00	0.82	O
ATOM	171	CB	TYR	A	24	120.576	105.761	106.553	1.00	0.82	C
ATOM	172	CG	TYR	A	24	119.834	106.811	105.766	1.00	0.82	C
ATOM	173	CD1	TYR	A	24	120.377	107.349	104.585	1.00	0.82	C
ATOM	174	CD2	TYR	A	24	118.616	107.324	106.243	1.00	0.82	C
ATOM	175	CE1	TYR	A	24	119.695	108.357	103.886	1.00	0.82	C
ATOM	176	CE2	TYR	A	24	117.975	108.382	105.581	1.00	0.82	C
ATOM	177	CZ	TYR	A	24	118.497	108.870	104.382	1.00	0.82	C
ATOM	178	OH	TYR	A	24	117.802	109.859	103.658	1.00	0.82	O
ATOM	179	N	ASP	A	25	121.268	104.728	109.691	1.00	0.77	N
ATOM	180	CA	ASP	A	25	121.911	103.859	110.656	1.00	0.77	C
ATOM	181	C	ASP	A	25	121.152	102.540	110.882	1.00	0.77	C
ATOM	182	O	ASP	A	25	120.097	102.256	110.311	1.00	0.77	O
ATOM	183	CB	ASP	A	25	122.197	104.649	111.972	1.00	0.77	C
ATOM	184	CG	ASP	A	25	121.013	105.437	112.527	1.00	0.77	C

ATOM	185	OD1	ASP	A	25	119.864	105.222	112.077	1.00	0.77	O
ATOM	186	OD2	ASP	A	25	121.284	106.313	113.398	1.00	0.77	O
ATOM	187	N	GLN	A	26	121.751	101.622	111.671	1.00	0.76	N
ATOM	188	CA	GLN	A	26	121.257	100.265	111.850	1.00	0.76	C
ATOM	189	C	GLN	A	26	120.080	100.149	112.819	1.00	0.76	C
ATOM	190	O	GLN	A	26	120.252	100.093	114.037	1.00	0.76	O
ATOM	191	CB	GLN	A	26	122.409	99.350	112.338	1.00	0.76	C
ATOM	192	CG	GLN	A	26	122.062	97.845	112.457	1.00	0.76	C
ATOM	193	CD	GLN	A	26	121.839	97.202	111.087	1.00	0.76	C
ATOM	194	OE1	GLN	A	26	122.772	97.102	110.280	1.00	0.76	O
ATOM	195	NE2	GLN	A	26	120.606	96.719	110.855	1.00	0.76	N
ATOM	196	N	ILE	A	27	118.851	100.082	112.265	1.00	0.74	N
ATOM	197	CA	ILE	A	27	117.612	99.927	113.017	1.00	0.74	C
ATOM	198	C	ILE	A	27	117.192	98.472	113.187	1.00	0.74	C
ATOM	199	O	ILE	A	27	116.928	98.015	114.298	1.00	0.74	O
ATOM	200	CB	ILE	A	27	116.495	100.752	112.366	1.00	0.74	C
ATOM	201	CG1	ILE	A	27	116.789	102.251	112.630	1.00	0.74	C
ATOM	202	CG2	ILE	A	27	115.103	100.327	112.894	1.00	0.74	C
ATOM	203	CD1	ILE	A	27	115.763	103.225	112.038	1.00	0.74	C
ATOM	204	N	PHE	A	28	117.115	97.695	112.088	1.00	0.72	N
ATOM	205	CA	PHE	A	28	116.642	96.322	112.118	1.00	0.72	C
ATOM	206	C	PHE	A	28	117.741	95.344	112.523	1.00	0.72	C
ATOM	207	O	PHE	A	28	118.865	95.711	112.875	1.00	0.72	O
ATOM	208	CB	PHE	A	28	116.024	95.888	110.765	1.00	0.72	C
ATOM	209	CG	PHE	A	28	114.789	96.672	110.425	1.00	0.72	C
ATOM	210	CD1	PHE	A	28	113.566	96.397	111.063	1.00	0.72	C
ATOM	211	CD2	PHE	A	28	114.827	97.648	109.417	1.00	0.72	C
ATOM	212	CE1	PHE	A	28	112.401	97.084	110.695	1.00	0.72	C
ATOM	213	CE2	PHE	A	28	113.668	98.348	109.058	1.00	0.72	C
ATOM	214	CZ	PHE	A	28	112.454	98.064	109.696	1.00	0.72	C
ATOM	215	N	GLU	A	29	117.396	94.047	112.559	1.00	0.70	N
ATOM	216	CA	GLU	A	29	118.273	92.975	112.961	1.00	0.70	C
ATOM	217	C	GLU	A	29	119.183	92.538	111.833	1.00	0.70	C
ATOM	218	O	GLU	A	29	118.779	91.819	110.924	1.00	0.70	O
ATOM	219	CB	GLU	A	29	117.423	91.792	113.466	1.00	0.70	C
ATOM	220	CG	GLU	A	29	116.593	92.245	114.685	1.00	0.70	C
ATOM	221	CD	GLU	A	29	115.498	91.293	115.145	1.00	0.70	C
ATOM	222	OE1	GLU	A	29	114.840	90.659	114.285	1.00	0.70	O
ATOM	223	OE2	GLU	A	29	115.252	91.318	116.381	1.00	0.70	O
ATOM	224	N	ARG	A	30	120.454	92.996	111.907	1.00	0.62	N
ATOM	225	CA	ARG	A	30	121.548	92.736	110.985	1.00	0.62	C
ATOM	226	C	ARG	A	30	121.574	91.325	110.384	1.00	0.62	C
ATOM	227	O	ARG	A	30	121.764	90.366	111.131	1.00	0.62	O
ATOM	228	CB	ARG	A	30	122.890	93.013	111.731	1.00	0.62	C
ATOM	229	CG	ARG	A	30	124.214	92.722	110.978	1.00	0.62	C
ATOM	230	CD	ARG	A	30	124.502	93.564	109.725	1.00	0.62	C
ATOM	231	NE	ARG	A	30	124.608	95.019	110.106	1.00	0.62	N
ATOM	232	CZ	ARG	A	30	125.715	95.655	110.522	1.00	0.62	C
ATOM	233	NH1	ARG	A	30	126.811	95.004	110.892	1.00	0.62	N
ATOM	234	NH2	ARG	A	30	125.681	96.984	110.607	1.00	0.62	N
ATOM	235	N	PRO	A	31	121.431	91.113	109.080	1.00	0.54	N
ATOM	236	CA	PRO	A	31	121.599	89.789	108.501	1.00	0.54	C
ATOM	237	C	PRO	A	31	123.069	89.586	108.192	1.00	0.54	C
ATOM	238	O	PRO	A	31	123.837	90.549	108.165	1.00	0.54	O
ATOM	239	CB	PRO	A	31	120.733	89.851	107.232	1.00	0.54	C
ATOM	240	CG	PRO	A	31	120.797	91.319	106.806	1.00	0.54	C
ATOM	241	CD	PRO	A	31	120.819	92.061	108.142	1.00	0.54	C
ATOM	242	N	GLY	A	32	123.512	88.333	107.989	1.00	0.57	N
ATOM	243	CA	GLY	A	32	124.906	88.066	107.685	1.00	0.57	C
ATOM	244	C	GLY	A	32	125.398	86.874	108.439	1.00	0.57	C
ATOM	245	O	GLY	A	32	124.639	85.955	108.710	1.00	0.57	O
ATOM	246	N	LEU	A	33	126.716	86.851	108.730	1.00	0.57	N
ATOM	247	CA	LEU	A	33	127.484	85.681	109.167	1.00	0.57	C
ATOM	248	C	LEU	A	33	127.116	84.327	108.539	1.00	0.57	C
ATOM	249	O	LEU	A	33	126.735	83.390	109.243	1.00	0.57	O

ATOM	250	CB	LEU	A	33	127.609	85.560	110.703	1.00	0.57	C
ATOM	251	CG	LEU	A	33	128.177	86.818	111.397	1.00	0.57	C
ATOM	252	CD1	LEU	A	33	128.082	86.693	112.924	1.00	0.57	C
ATOM	253	CD2	LEU	A	33	129.632	87.110	110.994	1.00	0.57	C
ATOM	254	N	PRO	A	34	127.227	84.181	107.220	1.00	0.63	N
ATOM	255	CA	PRO	A	34	127.184	82.879	106.566	1.00	0.63	C
ATOM	256	C	PRO	A	34	128.472	82.109	106.819	1.00	0.63	C
ATOM	257	O	PRO	A	34	129.322	82.555	107.587	1.00	0.63	O
ATOM	258	CB	PRO	A	34	127.080	83.284	105.087	1.00	0.63	C
ATOM	259	CG	PRO	A	34	127.938	84.550	104.990	1.00	0.63	C
ATOM	260	CD	PRO	A	34	127.756	85.221	106.334	1.00	0.63	C
ATOM	261	N	ASN	A	35	128.674	80.958	106.145	1.00	0.63	N
ATOM	262	CA	ASN	A	35	129.984	80.331	106.081	1.00	0.63	C
ATOM	263	C	ASN	A	35	130.990	81.250	105.364	1.00	0.63	C
ATOM	264	O	ASN	A	35	130.617	81.975	104.445	1.00	0.63	O
ATOM	265	CB	ASN	A	35	129.878	78.937	105.399	1.00	0.63	C
ATOM	266	CG	ASN	A	35	131.097	78.081	105.731	1.00	0.63	C
ATOM	267	OD1	ASN	A	35	131.873	78.428	106.626	1.00	0.63	O
ATOM	268	ND2	ASN	A	35	131.263	76.957	105.006	1.00	0.63	N
ATOM	269	N	LEU	A	36	132.266	81.269	105.797	1.00	0.71	N
ATOM	270	CA	LEU	A	36	133.265	82.180	105.263	1.00	0.71	C
ATOM	271	C	LEU	A	36	134.561	81.423	105.048	1.00	0.71	C
ATOM	272	O	LEU	A	36	135.430	81.357	105.914	1.00	0.71	O
ATOM	273	CB	LEU	A	36	133.544	83.377	106.212	1.00	0.71	C
ATOM	274	CG	LEU	A	36	132.330	84.285	106.501	1.00	0.71	C
ATOM	275	CD1	LEU	A	36	132.703	85.321	107.569	1.00	0.71	C
ATOM	276	CD2	LEU	A	36	131.819	85.010	105.246	1.00	0.71	C
ATOM	277	N	GLU	A	37	134.736	80.820	103.859	1.00	0.71	N
ATOM	278	CA	GLU	A	37	135.887	79.977	103.584	1.00	0.71	C
ATOM	279	C	GLU	A	37	136.916	80.684	102.725	1.00	0.71	C
ATOM	280	O	GLU	A	37	137.072	80.403	101.539	1.00	0.71	O
ATOM	281	CB	GLU	A	37	135.460	78.633	102.957	1.00	0.71	C
ATOM	282	CG	GLU	A	37	134.526	77.853	103.914	1.00	0.71	C
ATOM	283	CD	GLU	A	37	134.376	76.367	103.594	1.00	0.71	C
ATOM	284	OE1	GLU	A	37	135.040	75.868	102.654	1.00	0.71	O
ATOM	285	OE2	GLU	A	37	133.597	75.714	104.339	1.00	0.71	O
ATOM	286	N	VAL	A	38	137.651	81.649	103.315	1.00	0.81	N
ATOM	287	CA	VAL	A	38	138.671	82.400	102.598	1.00	0.81	C
ATOM	288	C	VAL	A	38	139.994	81.654	102.560	1.00	0.81	C
ATOM	289	O	VAL	A	38	140.657	81.446	103.575	1.00	0.81	O
ATOM	290	CB	VAL	A	38	138.899	83.803	103.162	1.00	0.81	C
ATOM	291	CG1	VAL	A	38	139.900	84.587	102.280	1.00	0.81	C
ATOM	292	CG2	VAL	A	38	137.553	84.551	103.216	1.00	0.81	C
ATOM	293	N	THR	A	39	140.438	81.255	101.356	1.00	0.80	N
ATOM	294	CA	THR	A	39	141.790	80.769	101.118	1.00	0.80	C
ATOM	295	C	THR	A	39	142.431	81.699	100.112	1.00	0.80	C
ATOM	296	O	THR	A	39	141.760	82.230	99.230	1.00	0.80	O
ATOM	297	CB	THR	A	39	141.902	79.316	100.641	1.00	0.80	C
ATOM	298	OG1	THR	A	39	141.179	79.083	99.443	1.00	0.80	O
ATOM	299	CG2	THR	A	39	141.301	78.386	101.703	1.00	0.80	C
ATOM	300	N	VAL	A	40	143.747	81.955	100.254	1.00	0.69	N
ATOM	301	CA	VAL	A	40	144.532	82.773	99.342	1.00	0.69	C
ATOM	302	C	VAL	A	40	145.489	81.854	98.612	1.00	0.69	C
ATOM	303	O	VAL	A	40	146.135	81.003	99.227	1.00	0.69	O
ATOM	304	CB	VAL	A	40	145.350	83.871	100.040	1.00	0.69	C
ATOM	305	CG1	VAL	A	40	144.463	85.109	100.254	1.00	0.69	C
ATOM	306	CG2	VAL	A	40	145.934	83.388	101.384	1.00	0.69	C
ATOM	307	N	ASP	A	41	145.586	81.979	97.276	1.00	0.73	N
ATOM	308	CA	ASP	A	41	146.439	81.111	96.494	1.00	0.73	C
ATOM	309	C	ASP	A	41	147.029	81.814	95.266	1.00	0.73	C
ATOM	310	O	ASP	A	41	147.137	83.036	95.187	1.00	0.73	O
ATOM	311	CB	ASP	A	41	145.705	79.771	96.163	1.00	0.73	C
ATOM	312	CG	ASP	A	41	144.748	79.839	94.983	1.00	0.73	C
ATOM	313	OD1	ASP	A	41	144.223	80.935	94.662	1.00	0.73	O
ATOM	314	OD2	ASP	A	41	144.652	78.794	94.293	1.00	0.73	O



ATOM	315	N	SER	A	42	147.460	81.007	94.276	1.00	0.74	N
ATOM	316	CA	SER	A	42	147.938	81.436	92.972	1.00	0.74	C
ATOM	317	C	SER	A	42	146.891	82.070	92.074	1.00	0.74	C
ATOM	318	O	SER	A	42	147.207	82.971	91.303	1.00	0.74	O
ATOM	319	CB	SER	A	42	148.528	80.260	92.154	1.00	0.74	C
ATOM	320	OG	SER	A	42	149.619	79.653	92.845	1.00	0.74	O
ATOM	321	N	THR	A	43	145.629	81.583	92.088	1.00	0.63	N
ATOM	322	CA	THR	A	43	144.564	82.148	91.250	1.00	0.63	C
ATOM	323	C	THR	A	43	143.953	83.376	91.913	1.00	0.63	C
ATOM	324	O	THR	A	43	143.673	84.395	91.274	1.00	0.63	O
ATOM	325	CB	THR	A	43	143.544	81.103	90.775	1.00	0.63	C
ATOM	326	OG1	THR	A	43	142.564	81.642	89.899	1.00	0.63	O
ATOM	327	CG2	THR	A	43	142.810	80.407	91.919	1.00	0.63	C
ATOM	328	N	GLY	A	44	143.821	83.363	93.253	1.00	0.75	N
ATOM	329	CA	GLY	A	44	143.546	84.590	93.977	1.00	0.75	C
ATOM	330	C	GLY	A	44	142.977	84.342	95.326	1.00	0.75	C
ATOM	331	O	GLY	A	44	143.701	84.085	96.284	1.00	0.75	O
ATOM	332	N	VAL	A	45	141.645	84.461	95.439	1.00	0.79	N
ATOM	333	CA	VAL	A	45	140.936	84.164	96.666	1.00	0.79	C
ATOM	334	C	VAL	A	45	139.767	83.261	96.357	1.00	0.79	C
ATOM	335	O	VAL	A	45	139.171	83.314	95.282	1.00	0.79	O
ATOM	336	CB	VAL	A	45	140.431	85.387	97.438	1.00	0.79	C
ATOM	337	CG1	VAL	A	45	141.627	86.257	97.850	1.00	0.79	C
ATOM	338	CG2	VAL	A	45	139.422	86.212	96.621	1.00	0.79	C
ATOM	339	N	VAL	A	46	139.404	82.402	97.318	1.00	0.79	N
ATOM	340	CA	VAL	A	46	138.254	81.522	97.221	1.00	0.79	C
ATOM	341	C	VAL	A	46	137.269	81.959	98.283	1.00	0.79	C
ATOM	342	O	VAL	A	46	137.659	82.481	99.326	1.00	0.79	O
ATOM	343	CB	VAL	A	46	138.637	80.055	97.407	1.00	0.79	C
ATOM	344	CG1	VAL	A	46	137.423	79.116	97.250	1.00	0.79	C
ATOM	345	CG2	VAL	A	46	139.703	79.693	96.354	1.00	0.79	C
ATOM	346	N	VAL	A	47	135.958	81.796	98.032	1.00	0.78	N
ATOM	347	CA	VAL	A	47	134.929	81.990	99.028	1.00	0.78	C
ATOM	348	C	VAL	A	47	133.807	80.995	98.750	1.00	0.78	C
ATOM	349	O	VAL	A	47	133.524	80.667	97.603	1.00	0.78	O
ATOM	350	CB	VAL	A	47	134.430	83.440	99.037	1.00	0.78	C
ATOM	351	CG1	VAL	A	47	133.563	83.771	97.801	1.00	0.78	C
ATOM	352	CG2	VAL	A	47	133.694	83.757	100.352	1.00	0.78	C
ATOM	353	N	ASP	A	48	133.143	80.462	99.790	1.00	0.69	N
ATOM	354	CA	ASP	A	48	131.864	79.793	99.669	1.00	0.69	C
ATOM	355	C	ASP	A	48	130.994	80.499	100.696	1.00	0.69	C
ATOM	356	O	ASP	A	48	131.411	80.676	101.842	1.00	0.69	O
ATOM	357	CB	ASP	A	48	131.974	78.271	99.964	1.00	0.69	C
ATOM	358	CG	ASP	A	48	130.673	77.525	99.685	1.00	0.69	C
ATOM	359	OD1	ASP	A	48	130.727	76.489	98.977	1.00	0.69	O
ATOM	360	OD2	ASP	A	48	129.608	77.975	100.185	1.00	0.69	O
ATOM	361	N	VAL	A	49	129.809	80.983	100.277	1.00	0.57	N
ATOM	362	CA	VAL	A	49	128.863	81.681	101.124	1.00	0.57	C
ATOM	363	C	VAL	A	49	127.509	80.951	101.059	1.00	0.57	C
ATOM	364	O	VAL	A	49	126.490	81.359	101.620	1.00	0.57	O
ATOM	365	CB	VAL	A	49	128.768	83.136	100.659	1.00	0.57	C
ATOM	366	CG1	VAL	A	49	127.951	83.976	101.645	1.00	0.57	C
ATOM	367	CG2	VAL	A	49	130.181	83.753	100.540	1.00	0.57	C
ATOM	368	N	GLY	A	50	127.471	79.774	100.403	1.00	0.50	N
ATOM	369	CA	GLY	A	50	126.246	79.058	100.086	1.00	0.50	C
ATOM	370	C	GLY	A	50	126.270	78.451	98.707	1.00	0.50	C
ATOM	371	O	GLY	A	50	127.107	78.749	97.864	1.00	0.50	O
ATOM	372	N	ALA	A	51	125.303	77.553	98.437	1.00	0.47	N
ATOM	373	CA	ALA	A	51	125.128	76.910	97.151	1.00	0.47	C
ATOM	374	C	ALA	A	51	124.604	77.854	96.070	1.00	0.47	C
ATOM	375	O	ALA	A	51	124.139	78.956	96.327	1.00	0.47	O
ATOM	376	CB	ALA	A	51	124.183	75.702	97.306	1.00	0.47	C
ATOM	377	N	ILE	A	52	124.679	77.462	94.790	1.00	0.34	N
ATOM	378	CA	ILE	A	52	124.373	78.371	93.705	1.00	0.34	C
ATOM	379	C	ILE	A	52	122.933	78.122	93.253	1.00	0.34	C

ATOM	380	O	ILE	A	52	122.716	77.135	92.547	1.00	0.34	O
ATOM	381	CB	ILE	A	52	125.351	78.193	92.548	1.00	0.34	C
ATOM	382	CG1	ILE	A	52	126.820	78.526	92.953	1.00	0.34	C
ATOM	383	CG2	ILE	A	52	124.916	79.096	91.365	1.00	0.34	C
ATOM	384	CD1	ILE	A	52	127.627	77.498	93.763	1.00	0.34	C
ATOM	385	N	PRO	A	53	121.940	78.954	93.653	1.00	0.39	N
ATOM	386	CA	PRO	A	53	120.511	78.721	93.408	1.00	0.39	C
ATOM	387	C	PRO	A	53	119.994	77.300	93.188	1.00	0.39	C
ATOM	388	O	PRO	A	53	120.202	76.448	94.054	1.00	0.39	O
ATOM	389	CB	PRO	A	53	120.280	79.703	92.257	1.00	0.39	C
ATOM	390	CG	PRO	A	53	121.016	80.962	92.751	1.00	0.39	C
ATOM	391	CD	PRO	A	53	122.158	80.412	93.629	1.00	0.39	C
ATOM	392	N	ASP	A	54	119.318	77.041	92.060	1.00	0.43	N
ATOM	393	CA	ASP	A	54	118.885	75.747	91.584	1.00	0.43	C
ATOM	394	C	ASP	A	54	119.378	75.491	90.153	1.00	0.43	C
ATOM	395	O	ASP	A	54	119.183	74.421	89.574	1.00	0.43	O
ATOM	396	CB	ASP	A	54	117.331	75.714	91.647	1.00	0.43	C
ATOM	397	CG	ASP	A	54	116.640	76.904	90.976	1.00	0.43	C
ATOM	398	OD1	ASP	A	54	117.335	77.805	90.429	1.00	0.43	O
ATOM	399	OD2	ASP	A	54	115.388	76.923	91.036	1.00	0.43	O
ATOM	400	N	SER	A	55	120.099	76.464	89.552	1.00	0.35	N
ATOM	401	CA	SER	A	55	120.489	76.451	88.147	1.00	0.35	C
ATOM	402	C	SER	A	55	121.624	75.487	87.861	1.00	0.35	C
ATOM	403	O	SER	A	55	121.868	75.076	86.727	1.00	0.35	O
ATOM	404	CB	SER	A	55	120.887	77.870	87.648	1.00	0.35	C
ATOM	405	OG	SER	A	55	121.959	78.436	88.412	1.00	0.35	O
ATOM	406	N	ALA	A	56	122.325	75.059	88.921	1.00	0.32	N
ATOM	407	CA	ALA	A	56	123.432	74.141	88.886	1.00	0.32	C
ATOM	408	C	ALA	A	56	123.018	72.676	88.858	1.00	0.32	C
ATOM	409	O	ALA	A	56	123.526	71.842	89.603	1.00	0.32	O
ATOM	410	CB	ALA	A	56	124.291	74.413	90.123	1.00	0.32	C
ATOM	411	N	SER	A	57	122.094	72.309	87.950	1.00	0.33	N
ATOM	412	CA	SER	A	57	121.586	70.947	87.837	1.00	0.33	C
ATOM	413	C	SER	A	57	122.556	70.007	87.142	1.00	0.33	C
ATOM	414	O	SER	A	57	122.402	68.790	87.189	1.00	0.33	O
ATOM	415	CB	SER	A	57	120.208	70.895	87.115	1.00	0.33	C
ATOM	416	OG	SER	A	57	120.279	71.321	85.749	1.00	0.33	O
ATOM	417	N	GLN	A	58	123.587	70.567	86.480	1.00	0.37	N
ATOM	418	CA	GLN	A	58	124.566	69.837	85.704	1.00	0.37	C
ATOM	419	C	GLN	A	58	125.948	69.991	86.321	1.00	0.37	C
ATOM	420	O	GLN	A	58	126.362	71.081	86.720	1.00	0.37	O
ATOM	421	CB	GLN	A	58	124.617	70.349	84.239	1.00	0.37	C
ATOM	422	CG	GLN	A	58	123.243	70.410	83.526	1.00	0.37	C
ATOM	423	CD	GLN	A	58	122.567	69.039	83.471	1.00	0.37	C
ATOM	424	OE1	GLN	A	58	123.084	68.088	82.886	1.00	0.37	O
ATOM	425	NE2	GLN	A	58	121.372	68.924	84.092	1.00	0.37	N
ATOM	426	N	LEU	A	59	126.701	68.877	86.422	1.00	0.28	N
ATOM	427	CA	LEU	A	59	128.050	68.864	86.955	1.00	0.28	C
ATOM	428	C	LEU	A	59	129.102	69.285	85.931	1.00	0.28	C
ATOM	429	O	LEU	A	59	128.873	69.290	84.725	1.00	0.28	O
ATOM	430	CB	LEU	A	59	128.419	67.486	87.559	1.00	0.28	C
ATOM	431	CG	LEU	A	59	127.517	67.043	88.733	1.00	0.28	C
ATOM	432	CD1	LEU	A	59	127.942	65.652	89.224	1.00	0.28	C
ATOM	433	CD2	LEU	A	59	127.543	68.033	89.909	1.00	0.28	C
ATOM	434	N	GLY	A	60	130.305	69.677	86.408	1.00	0.30	N
ATOM	435	CA	GLY	A	60	131.455	70.007	85.558	1.00	0.30	C
ATOM	436	C	GLY	A	60	131.660	71.480	85.331	1.00	0.30	C
ATOM	437	O	GLY	A	60	132.713	71.916	84.881	1.00	0.30	O
ATOM	438	N	SER	A	61	130.658	72.303	85.667	1.00	0.32	N
ATOM	439	CA	SER	A	61	130.744	73.755	85.663	1.00	0.32	C
ATOM	440	C	SER	A	61	131.145	74.284	87.035	1.00	0.32	C
ATOM	441	O	SER	A	61	131.208	73.550	88.016	1.00	0.32	O
ATOM	442	CB	SER	A	61	129.399	74.387	85.215	1.00	0.32	C
ATOM	443	OG	SER	A	61	128.331	73.999	86.083	1.00	0.32	O
ATOM	444	N	SER	A	62	131.432	75.594	87.174	1.00	0.37	N

ATOM	445	CA	SER	A	62	131.753	76.188	88.470	1.00	0.37	C
ATOM	446	C	SER	A	62	130.544	76.381	89.374	1.00	0.37	C
ATOM	447	O	SER	A	62	130.671	76.477	90.591	1.00	0.37	O
ATOM	448	CB	SER	A	62	132.437	77.569	88.303	1.00	0.37	C
ATOM	449	OG	SER	A	62	131.689	78.404	87.413	1.00	0.37	O
ATOM	450	N	ILE	A	63	129.318	76.396	88.816	1.00	0.29	N
ATOM	451	CA	ILE	A	63	128.106	76.662	89.575	1.00	0.29	C
ATOM	452	C	ILE	A	63	127.637	75.486	90.419	1.00	0.29	C
ATOM	453	O	ILE	A	63	126.795	75.645	91.287	1.00	0.29	O
ATOM	454	CB	ILE	A	63	126.958	77.205	88.722	1.00	0.29	C
ATOM	455	CG1	ILE	A	63	126.586	76.283	87.540	1.00	0.29	C
ATOM	456	CG2	ILE	A	63	127.341	78.628	88.254	1.00	0.29	C
ATOM	457	CD1	ILE	A	63	125.294	76.704	86.826	1.00	0.29	C
ATOM	458	N	ASN	A	64	128.175	74.265	90.254	1.00	0.36	N
ATOM	459	CA	ASN	A	64	127.859	73.177	91.178	1.00	0.36	C
ATOM	460	C	ASN	A	64	128.926	73.036	92.262	1.00	0.36	C
ATOM	461	O	ASN	A	64	128.785	72.233	93.178	1.00	0.36	O
ATOM	462	CB	ASN	A	64	127.658	71.824	90.432	1.00	0.36	C
ATOM	463	CG	ASN	A	64	128.865	71.481	89.572	1.00	0.36	C
ATOM	464	OD1	ASN	A	64	129.808	70.806	89.980	1.00	0.36	O
ATOM	465	ND2	ASN	A	64	128.870	71.988	88.322	1.00	0.36	N
ATOM	466	N	ALA	A	65	130.016	73.828	92.193	1.00	0.42	N
ATOM	467	CA	ALA	A	65	131.179	73.600	93.024	1.00	0.42	C
ATOM	468	C	ALA	A	65	131.115	74.234	94.406	1.00	0.42	C
ATOM	469	O	ALA	A	65	131.830	73.814	95.313	1.00	0.42	O
ATOM	470	CB	ALA	A	65	132.417	74.149	92.284	1.00	0.42	C
ATOM	471	N	GLY	A	66	130.278	75.278	94.603	1.00	0.51	N
ATOM	472	CA	GLY	A	66	130.237	76.045	95.853	1.00	0.51	C
ATOM	473	C	GLY	A	66	131.327	77.075	95.902	1.00	0.51	C
ATOM	474	O	GLY	A	66	131.082	78.277	95.900	1.00	0.51	O
ATOM	475	N	VAL	A	67	132.578	76.586	95.904	1.00	0.59	N
ATOM	476	CA	VAL	A	67	133.816	77.330	95.985	1.00	0.59	C
ATOM	477	C	VAL	A	67	134.023	78.329	94.841	1.00	0.59	C
ATOM	478	O	VAL	A	67	134.601	78.057	93.789	1.00	0.59	O
ATOM	479	CB	VAL	A	67	135.007	76.378	96.180	1.00	0.59	C
ATOM	480	CG1	VAL	A	67	134.796	75.617	97.506	1.00	0.59	C
ATOM	481	CG2	VAL	A	67	135.172	75.353	95.034	1.00	0.59	C
ATOM	482	N	LEU	A	68	133.538	79.568	95.025	1.00	0.66	N
ATOM	483	CA	LEU	A	68	133.697	80.648	94.079	1.00	0.66	C
ATOM	484	C	LEU	A	68	135.080	81.262	94.163	1.00	0.66	C
ATOM	485	O	LEU	A	68	135.517	81.750	95.202	1.00	0.66	O
ATOM	486	CB	LEU	A	68	132.659	81.770	94.303	1.00	0.66	C
ATOM	487	CG	LEU	A	68	131.204	81.385	93.980	1.00	0.66	C
ATOM	488	CD1	LEU	A	68	130.294	82.573	94.309	1.00	0.66	C
ATOM	489	CD2	LEU	A	68	131.013	80.959	92.515	1.00	0.66	C
ATOM	490	N	THR	A	69	135.808	81.266	93.036	1.00	0.74	N
ATOM	491	CA	THR	A	69	137.164	81.792	92.969	1.00	0.74	C
ATOM	492	C	THR	A	69	137.153	83.163	92.338	1.00	0.74	C
ATOM	493	O	THR	A	69	136.577	83.366	91.271	1.00	0.74	O
ATOM	494	CB	THR	A	69	138.100	80.912	92.160	1.00	0.74	C
ATOM	495	OG1	THR	A	69	138.163	79.619	92.736	1.00	0.74	O
ATOM	496	CG2	THR	A	69	139.533	81.451	92.151	1.00	0.74	C
ATOM	497	N	ILE	A	70	137.802	84.146	92.986	1.00	0.77	N
ATOM	498	CA	ILE	A	70	137.849	85.532	92.552	1.00	0.77	C
ATOM	499	C	ILE	A	70	139.320	85.889	92.294	1.00	0.77	C
ATOM	500	O	ILE	A	70	140.157	85.566	93.142	1.00	0.77	O
ATOM	501	CB	ILE	A	70	137.209	86.441	93.601	1.00	0.77	C
ATOM	502	CG1	ILE	A	70	135.693	86.132	93.697	1.00	0.77	C
ATOM	503	CG2	ILE	A	70	137.452	87.928	93.284	1.00	0.77	C
ATOM	504	CD1	ILE	A	70	134.961	86.928	94.785	1.00	0.77	C
ATOM	505	N	PRO	A	71	139.728	86.485	91.157	1.00	0.83	N
ATOM	506	CA	PRO	A	71	141.104	86.927	90.904	1.00	0.83	C
ATOM	507	C	PRO	A	71	141.774	87.755	91.997	1.00	0.83	C
ATOM	508	O	PRO	A	71	141.121	88.572	92.640	1.00	0.83	O
ATOM	509	CB	PRO	A	71	141.020	87.717	89.584	1.00	0.83	C

ATOM	510	CG	PRO	A	71	139.766	87.180	88.890	1.00	0.83	C
ATOM	511	CD	PRO	A	71	138.834	86.877	90.061	1.00	0.83	C
ATOM	512	N	LEU	A	72	143.100	87.607	92.198	1.00	0.61	N
ATOM	513	CA	LEU	A	72	143.838	88.295	93.253	1.00	0.61	C
ATOM	514	C	LEU	A	72	143.781	89.826	93.187	1.00	0.61	C
ATOM	515	O	LEU	A	72	143.534	90.509	94.176	1.00	0.61	O
ATOM	516	CB	LEU	A	72	145.310	87.808	93.232	1.00	0.61	C
ATOM	517	CG	LEU	A	72	146.003	87.722	94.612	1.00	0.61	C
ATOM	518	CD1	LEU	A	72	147.327	86.957	94.476	1.00	0.61	C
ATOM	519	CD2	LEU	A	72	146.264	89.083	95.271	1.00	0.61	C
ATOM	520	N	SER	A	73	143.952	90.425	91.993	1.00	0.52	N
ATOM	521	CA	SER	A	73	143.872	91.871	91.820	1.00	0.52	C
ATOM	522	C	SER	A	73	142.450	92.408	91.789	1.00	0.52	C
ATOM	523	O	SER	A	73	142.229	93.589	92.043	1.00	0.52	O
ATOM	524	CB	SER	A	73	144.603	92.336	90.537	1.00	0.52	C
ATOM	525	OG	SER	A	73	144.204	91.554	89.409	1.00	0.52	O
ATOM	526	N	GLU	A	74	141.441	91.552	91.534	1.00	0.69	N
ATOM	527	CA	GLU	A	74	140.036	91.882	91.729	1.00	0.69	C
ATOM	528	C	GLU	A	74	139.721	91.962	93.223	1.00	0.69	C
ATOM	529	O	GLU	A	74	139.158	92.934	93.718	1.00	0.69	O
ATOM	530	CB	GLU	A	74	139.160	90.870	90.950	1.00	0.69	C
ATOM	531	CG	GLU	A	74	137.751	91.371	90.525	1.00	0.69	C
ATOM	532	CD	GLU	A	74	136.652	91.204	91.573	1.00	0.69	C
ATOM	533	OE1	GLU	A	74	136.975	90.852	92.732	1.00	0.69	O
ATOM	534	OE2	GLU	A	74	135.465	91.389	91.195	1.00	0.69	O
ATOM	535	N	ALA	A	75	140.251	91.002	94.016	1.00	0.70	N
ATOM	536	CA	ALA	A	75	140.145	90.967	95.465	1.00	0.70	C
ATOM	537	C	ALA	A	75	140.832	92.140	96.176	1.00	0.70	C
ATOM	538	O	ALA	A	75	140.532	92.465	97.323	1.00	0.70	O
ATOM	539	CB	ALA	A	75	140.715	89.633	95.985	1.00	0.70	C
ATOM	540	N	TYR	A	76	141.733	92.855	95.472	1.00	0.56	N
ATOM	541	CA	TYR	A	76	142.287	94.133	95.892	1.00	0.56	C
ATOM	542	C	TYR	A	76	141.290	95.294	95.782	1.00	0.56	C
ATOM	543	O	TYR	A	76	141.564	96.371	96.304	1.00	0.56	O
ATOM	544	CB	TYR	A	76	143.560	94.506	95.069	1.00	0.56	C
ATOM	545	CG	TYR	A	76	144.852	94.117	95.746	1.00	0.56	C
ATOM	546	CD1	TYR	A	76	145.117	92.792	96.132	1.00	0.56	C
ATOM	547	CD2	TYR	A	76	145.848	95.090	95.948	1.00	0.56	C
ATOM	548	CE1	TYR	A	76	146.355	92.448	96.693	1.00	0.56	C
ATOM	549	CE2	TYR	A	76	147.087	94.748	96.510	1.00	0.56	C
ATOM	550	CZ	TYR	A	76	147.339	93.422	96.878	1.00	0.56	C
ATOM	551	OH	TYR	A	76	148.572	93.053	97.446	1.00	0.56	O
ATOM	552	N	LYS	A	77	140.123	95.130	95.118	1.00	0.71	N
ATOM	553	CA	LYS	A	77	139.134	96.193	95.002	1.00	0.71	C
ATOM	554	C	LYS	A	77	137.687	95.719	95.181	1.00	0.71	C
ATOM	555	O	LYS	A	77	136.733	96.479	95.004	1.00	0.71	O
ATOM	556	CB	LYS	A	77	139.277	96.917	93.637	1.00	0.71	C
ATOM	557	CG	LYS	A	77	138.851	96.089	92.406	1.00	0.71	C
ATOM	558	CD	LYS	A	77	138.768	96.900	91.094	1.00	0.71	C
ATOM	559	CE	LYS	A	77	137.782	98.091	91.110	1.00	0.71	C
ATOM	560	NZ	LYS	A	77	136.520	97.787	90.404	1.00	0.71	N
ATOM	561	N	ILE	A	78	137.483	94.455	95.626	1.00	0.79	N
ATOM	562	CA	ILE	A	78	136.184	93.801	95.811	1.00	0.79	C
ATOM	563	C	ILE	A	78	135.306	94.494	96.851	1.00	0.79	C
ATOM	564	O	ILE	A	78	134.081	94.377	96.883	1.00	0.79	O
ATOM	565	CB	ILE	A	78	136.380	92.320	96.170	1.00	0.79	C
ATOM	566	CG1	ILE	A	78	135.078	91.479	96.178	1.00	0.79	C
ATOM	567	CG2	ILE	A	78	137.106	92.172	97.529	1.00	0.79	C
ATOM	568	CD1	ILE	A	78	134.348	91.441	94.831	1.00	0.79	C
ATOM	569	N	ASN	A	79	135.937	95.315	97.709	1.00	0.82	N
ATOM	570	CA	ASN	A	79	135.316	96.168	98.699	1.00	0.82	C
ATOM	571	C	ASN	A	79	134.309	97.176	98.112	1.00	0.82	C
ATOM	572	O	ASN	A	79	133.252	97.422	98.693	1.00	0.82	O
ATOM	573	CB	ASN	A	79	136.416	96.829	99.587	1.00	0.82	C
ATOM	574	CG	ASN	A	79	137.479	97.588	98.781	1.00	0.82	C

ATOM	575	OD1	ASN	A	79	137.272	97.975	97.635	1.00	0.82	O
ATOM	576	ND2	ASN	A	79	138.654	97.806	99.403	1.00	0.82	N
ATOM	577	N	HIS	A	80	134.600	97.761	96.933	1.00	0.83	N
ATOM	578	CA	HIS	A	80	133.675	98.561	96.149	1.00	0.83	C
ATOM	579	C	HIS	A	80	132.777	97.697	95.273	1.00	0.83	C
ATOM	580	O	HIS	A	80	131.551	97.806	95.354	1.00	0.83	O
ATOM	581	CB	HIS	A	80	134.483	99.573	95.291	1.00	0.83	C
ATOM	582	CG	HIS	A	80	133.732	100.401	94.275	1.00	0.83	C
ATOM	583	ND1	HIS	A	80	133.810	100.039	92.942	1.00	0.83	N
ATOM	584	CD2	HIS	A	80	133.087	101.595	94.398	1.00	0.83	C
ATOM	585	CE1	HIS	A	80	133.216	101.020	92.284	1.00	0.83	C
ATOM	586	NE2	HIS	A	80	132.764	101.989	93.115	1.00	0.83	N
ATOM	587	N	ASP	A	81	133.347	96.771	94.463	1.00	0.82	N
ATOM	588	CA	ASP	A	81	132.592	96.008	93.479	1.00	0.82	C
ATOM	589	C	ASP	A	81	131.486	95.141	94.041	1.00	0.82	C
ATOM	590	O	ASP	A	81	130.381	95.137	93.506	1.00	0.82	O
ATOM	591	CB	ASP	A	81	133.513	95.071	92.672	1.00	0.82	C
ATOM	592	CG	ASP	A	81	134.308	95.897	91.708	1.00	0.82	C
ATOM	593	OD1	ASP	A	81	133.737	96.442	90.725	1.00	0.82	O
ATOM	594	OD2	ASP	A	81	135.529	96.024	91.944	1.00	0.82	O
ATOM	595	N	PHE	A	82	131.734	94.392	95.135	1.00	0.80	N
ATOM	596	CA	PHE	A	82	130.723	93.549	95.749	1.00	0.80	C
ATOM	597	C	PHE	A	82	129.580	94.377	96.324	1.00	0.80	C
ATOM	598	O	PHE	A	82	128.401	94.116	96.078	1.00	0.80	O
ATOM	599	CB	PHE	A	82	131.367	92.682	96.863	1.00	0.80	C
ATOM	600	CG	PHE	A	82	130.431	91.611	97.350	1.00	0.80	C
ATOM	601	CD1	PHE	A	82	129.504	91.887	98.370	1.00	0.80	C
ATOM	602	CD2	PHE	A	82	130.448	90.332	96.769	1.00	0.80	C
ATOM	603	CE1	PHE	A	82	128.591	90.913	98.785	1.00	0.80	C
ATOM	604	CE2	PHE	A	82	129.547	89.348	97.196	1.00	0.80	C
ATOM	605	CZ	PHE	A	82	128.614	89.645	98.198	1.00	0.80	C
ATOM	606	N	THR	A	83	129.940	95.444	97.060	1.00	0.87	N
ATOM	607	CA	THR	A	83	129.041	96.330	97.789	1.00	0.87	C
ATOM	608	C	THR	A	83	128.036	97.013	96.884	1.00	0.87	C
ATOM	609	O	THR	A	83	126.838	97.039	97.165	1.00	0.87	O
ATOM	610	CB	THR	A	83	129.831	97.387	98.554	1.00	0.87	C
ATOM	611	OG1	THR	A	83	130.750	96.748	99.430	1.00	0.87	O
ATOM	612	CG2	THR	A	83	128.928	98.249	99.445	1.00	0.87	C
ATOM	613	N	PHE	A	84	128.498	97.524	95.727	1.00	0.84	N
ATOM	614	CA	PHE	A	84	127.685	98.293	94.800	1.00	0.84	C
ATOM	615	C	PHE	A	84	127.371	97.516	93.521	1.00	0.84	C
ATOM	616	O	PHE	A	84	127.085	98.105	92.479	1.00	0.84	O
ATOM	617	CB	PHE	A	84	128.380	99.637	94.451	1.00	0.84	C
ATOM	618	CG	PHE	A	84	128.617	100.453	95.699	1.00	0.84	C
ATOM	619	CD1	PHE	A	84	129.927	100.704	96.139	1.00	0.84	C
ATOM	620	CD2	PHE	A	84	127.544	100.980	96.442	1.00	0.84	C
ATOM	621	CE1	PHE	A	84	130.163	101.455	97.297	1.00	0.84	C
ATOM	622	CE2	PHE	A	84	127.776	101.762	97.582	1.00	0.84	C
ATOM	623	CZ	PHE	A	84	129.088	101.997	98.012	1.00	0.84	C
ATOM	624	N	SER	A	85	127.376	96.159	93.577	1.00	0.81	N
ATOM	625	CA	SER	A	85	127.226	95.258	92.420	1.00	0.81	C
ATOM	626	C	SER	A	85	126.035	95.546	91.524	1.00	0.81	C
ATOM	627	O	SER	A	85	126.153	95.570	90.300	1.00	0.81	O
ATOM	628	CB	SER	A	85	127.047	93.767	92.828	1.00	0.81	C
ATOM	629	OG	SER	A	85	128.248	93.192	93.339	1.00	0.81	O
ATOM	630	N	GLY	A	86	124.869	95.820	92.138	1.00	0.77	N
ATOM	631	CA	GLY	A	86	123.599	96.055	91.465	1.00	0.77	C
ATOM	632	C	GLY	A	86	123.341	97.491	91.089	1.00	0.77	C
ATOM	633	O	GLY	A	86	122.205	97.859	90.811	1.00	0.77	O
ATOM	634	N	LEU	A	87	124.373	98.359	91.114	1.00	0.72	N
ATOM	635	CA	LEU	A	87	124.244	99.731	90.645	1.00	0.72	C
ATOM	636	C	LEU	A	87	124.985	99.960	89.339	1.00	0.72	C
ATOM	637	O	LEU	A	87	124.428	100.488	88.377	1.00	0.72	O
ATOM	638	CB	LEU	A	87	124.781	100.740	91.689	1.00	0.72	C
ATOM	639	CG	LEU	A	87	124.004	100.742	93.021	1.00	0.72	C

ATOM	640	CD1	LEU	A	87	124.667	101.712	94.004	1.00	0.72	C
ATOM	641	CD2	LEU	A	87	122.524	101.125	92.851	1.00	0.72	C
ATOM	642	N	THR	A	88	126.270	99.563	89.238	1.00	0.71	N
ATOM	643	CA	THR	A	88	127.060	99.843	88.036	1.00	0.71	C
ATOM	644	C	THR	A	88	126.846	98.789	86.968	1.00	0.71	C
ATOM	645	O	THR	A	88	127.612	97.836	86.829	1.00	0.71	O
ATOM	646	CB	THR	A	88	128.552	100.011	88.286	1.00	0.71	C
ATOM	647	OG1	THR	A	88	128.751	100.960	89.321	1.00	0.71	O
ATOM	648	CG2	THR	A	88	129.260	100.583	87.047	1.00	0.71	C
ATOM	649	N	LYS	A	89	125.764	98.954	86.179	1.00	0.60	N
ATOM	650	CA	LYS	A	89	125.387	98.051	85.102	1.00	0.60	C
ATOM	651	C	LYS	A	89	125.292	98.783	83.759	1.00	0.60	C
ATOM	652	O	LYS	A	89	124.810	98.252	82.760	1.00	0.60	O
ATOM	653	CB	LYS	A	89	124.043	97.377	85.484	1.00	0.60	C
ATOM	654	CG	LYS	A	89	123.776	96.026	84.797	1.00	0.60	C
ATOM	655	CD	LYS	A	89	122.525	95.340	85.378	1.00	0.60	C
ATOM	656	CE	LYS	A	89	122.306	93.895	84.922	1.00	0.60	C
ATOM	657	NZ	LYS	A	89	121.975	93.863	83.487	1.00	0.60	N
ATOM	658	N	THR	A	90	125.774	100.042	83.710	1.00	0.65	N
ATOM	659	CA	THR	A	90	125.810	100.905	82.531	1.00	0.65	C
ATOM	660	C	THR	A	90	127.038	100.657	81.664	1.00	0.65	C
ATOM	661	O	THR	A	90	127.920	99.866	81.979	1.00	0.65	O
ATOM	662	CB	THR	A	90	125.752	102.394	82.881	1.00	0.65	C
ATOM	663	OG1	THR	A	90	126.673	102.703	83.917	1.00	0.65	O
ATOM	664	CG2	THR	A	90	124.351	102.750	83.396	1.00	0.65	C
ATOM	665	N	THR	A	91	127.113	101.333	80.499	1.00	0.56	N
ATOM	666	CA	THR	A	91	128.087	101.100	79.437	1.00	0.56	C
ATOM	667	C	THR	A	91	129.355	101.940	79.538	1.00	0.56	C
ATOM	668	O	THR	A	91	130.065	102.082	78.547	1.00	0.56	O
ATOM	669	CB	THR	A	91	127.452	101.378	78.072	1.00	0.56	C
ATOM	670	OG1	THR	A	91	126.737	102.612	78.076	1.00	0.56	O
ATOM	671	CG2	THR	A	91	126.413	100.291	77.764	1.00	0.56	C
ATOM	672	N	ASP	A	92	129.675	102.495	80.732	1.00	0.62	N
ATOM	673	CA	ASP	A	92	130.887	103.271	80.999	1.00	0.62	C
ATOM	674	C	ASP	A	92	131.080	104.518	80.105	1.00	0.62	C
ATOM	675	O	ASP	A	92	132.004	104.638	79.300	1.00	0.62	O
ATOM	676	CB	ASP	A	92	132.132	102.337	81.098	1.00	0.62	C
ATOM	677	CG	ASP	A	92	133.293	102.946	81.876	1.00	0.62	C
ATOM	678	OD1	ASP	A	92	133.139	104.076	82.405	1.00	0.62	O
ATOM	679	OD2	ASP	A	92	134.347	102.263	81.962	1.00	0.62	O
ATOM	680	N	ARG	A	93	130.153	105.503	80.202	1.00	0.63	N
ATOM	681	CA	ARG	A	93	130.322	106.770	79.507	1.00	0.63	C
ATOM	682	C	ARG	A	93	131.202	107.734	80.301	1.00	0.63	C
ATOM	683	O	ARG	A	93	131.115	107.829	81.523	1.00	0.63	O
ATOM	684	CB	ARG	A	93	128.996	107.530	79.220	1.00	0.63	C
ATOM	685	CG	ARG	A	93	127.814	106.698	78.683	1.00	0.63	C
ATOM	686	CD	ARG	A	93	126.714	107.611	78.119	1.00	0.63	C
ATOM	687	NE	ARG	A	93	125.406	106.858	78.066	1.00	0.63	N
ATOM	688	CZ	ARG	A	93	124.314	107.176	78.779	1.00	0.63	C
ATOM	689	NH1	ARG	A	93	124.379	108.003	79.820	1.00	0.63	N
ATOM	690	NH2	ARG	A	93	123.136	106.648	78.444	1.00	0.63	N
ATOM	691	N	LYS	A	94	132.045	108.522	79.612	1.00	0.69	N
ATOM	692	CA	LYS	A	94	132.918	109.491	80.243	1.00	0.69	C
ATOM	693	C	LYS	A	94	132.231	110.849	80.340	1.00	0.69	C
ATOM	694	O	LYS	A	94	131.077	111.021	79.945	1.00	0.69	O
ATOM	695	CB	LYS	A	94	134.250	109.609	79.466	1.00	0.69	C
ATOM	696	CG	LYS	A	94	134.881	108.249	79.128	1.00	0.69	C
ATOM	697	CD	LYS	A	94	135.970	108.395	78.062	1.00	0.69	C
ATOM	698	CE	LYS	A	94	136.565	107.048	77.669	1.00	0.69	C
ATOM	699	NZ	LYS	A	94	137.491	107.254	76.540	1.00	0.69	N
ATOM	700	N	LEU	A	95	132.916	111.874	80.897	1.00	0.74	N
ATOM	701	CA	LEU	A	95	132.403	113.239	80.901	1.00	0.74	C
ATOM	702	C	LEU	A	95	132.189	113.844	79.510	1.00	0.74	C
ATOM	703	O	LEU	A	95	131.185	114.508	79.259	1.00	0.74	O
ATOM	704	CB	LEU	A	95	133.324	114.185	81.726	1.00	0.74	C

ATOM	705	CG	LEU	A	95	132.936	114.367	83.211	1.00	0.74	C
ATOM	706	CD1	LEU	A	95	133.909	115.345	83.882	1.00	0.74	C
ATOM	707	CD2	LEU	A	95	131.513	114.910	83.398	1.00	0.74	C
ATOM	708	N	SER	A	96	133.115	113.616	78.560	1.00	0.77	N
ATOM	709	CA	SER	A	96	133.080	114.183	77.216	1.00	0.77	C
ATOM	710	C	SER	A	96	131.857	113.832	76.382	1.00	0.77	C
ATOM	711	O	SER	A	96	131.362	114.646	75.610	1.00	0.77	O
ATOM	712	CB	SER	A	96	134.347	113.792	76.414	1.00	0.77	C
ATOM	713	OG	SER	A	96	134.725	112.423	76.613	1.00	0.77	O
ATOM	714	N	GLU	A	97	131.325	112.609	76.517	1.00	0.71	N
ATOM	715	CA	GLU	A	97	130.179	112.117	75.783	1.00	0.71	C
ATOM	716	C	GLU	A	97	128.843	112.738	76.198	1.00	0.71	C
ATOM	717	O	GLU	A	97	127.861	112.628	75.466	1.00	0.71	O
ATOM	718	CB	GLU	A	97	130.089	110.571	75.953	1.00	0.71	C
ATOM	719	CG	GLU	A	97	131.102	109.743	75.102	1.00	0.71	C
ATOM	720	CD	GLU	A	97	132.568	109.753	75.548	1.00	0.71	C
ATOM	721	OE1	GLU	A	97	133.391	109.070	74.887	1.00	0.71	O
ATOM	722	OE2	GLU	A	97	132.896	110.420	76.563	1.00	0.71	O
ATOM	723	N	VAL	A	98	128.747	113.388	77.380	1.00	0.78	N
ATOM	724	CA	VAL	A	98	127.481	113.949	77.857	1.00	0.78	C
ATOM	725	C	VAL	A	98	127.504	115.473	77.929	1.00	0.78	C
ATOM	726	O	VAL	A	98	126.467	116.132	77.848	1.00	0.78	O
ATOM	727	CB	VAL	A	98	127.114	113.378	79.230	1.00	0.78	C
ATOM	728	CG1	VAL	A	98	125.662	113.739	79.609	1.00	0.78	C
ATOM	729	CG2	VAL	A	98	127.247	111.842	79.189	1.00	0.78	C
ATOM	730	N	PHE	A	99	128.692	116.095	78.045	1.00	0.75	N
ATOM	731	CA	PHE	A	99	128.816	117.530	78.238	1.00	0.75	C
ATOM	732	C	PHE	A	99	129.636	118.129	77.103	1.00	0.75	C
ATOM	733	O	PHE	A	99	130.568	117.469	76.650	1.00	0.75	O
ATOM	734	CB	PHE	A	99	129.536	117.879	79.567	1.00	0.75	C
ATOM	735	CG	PHE	A	99	128.750	117.401	80.758	1.00	0.75	C
ATOM	736	CD1	PHE	A	99	128.993	116.136	81.316	1.00	0.75	C
ATOM	737	CD2	PHE	A	99	127.759	118.210	81.335	1.00	0.75	C
ATOM	738	CE1	PHE	A	99	128.287	115.696	82.440	1.00	0.75	C
ATOM	739	CE2	PHE	A	99	127.019	117.756	82.434	1.00	0.75	C
ATOM	740	CZ	PHE	A	99	127.301	116.509	83.001	1.00	0.75	C
ATOM	741	N	PRO	A	100	129.373	119.334	76.581	1.00	0.79	N
ATOM	742	CA	PRO	A	100	130.307	120.029	75.690	1.00	0.79	C
ATOM	743	C	PRO	A	100	131.743	120.114	76.207	1.00	0.79	C
ATOM	744	O	PRO	A	100	131.957	120.363	77.394	1.00	0.79	O
ATOM	745	CB	PRO	A	100	129.666	121.409	75.462	1.00	0.79	C
ATOM	746	CG	PRO	A	100	128.806	121.627	76.709	1.00	0.79	C
ATOM	747	CD	PRO	A	100	128.300	120.224	77.034	1.00	0.79	C
ATOM	748	N	LEU	A	101	132.731	119.887	75.315	1.00	0.76	N
ATOM	749	CA	LEU	A	101	134.151	119.902	75.619	1.00	0.76	C
ATOM	750	C	LEU	A	101	134.648	121.233	76.158	1.00	0.76	C
ATOM	751	O	LEU	A	101	134.282	122.297	75.661	1.00	0.76	O
ATOM	752	CB	LEU	A	101	134.984	119.579	74.350	1.00	0.76	C
ATOM	753	CG	LEU	A	101	134.707	118.201	73.718	1.00	0.76	C
ATOM	754	CD1	LEU	A	101	135.432	118.088	72.368	1.00	0.76	C
ATOM	755	CD2	LEU	A	101	135.136	117.058	74.650	1.00	0.76	C
ATOM	756	N	VAL	A	102	135.522	121.198	77.183	1.00	0.74	N
ATOM	757	CA	VAL	A	102	136.044	122.420	77.778	1.00	0.74	C
ATOM	758	C	VAL	A	102	137.526	122.557	77.471	1.00	0.74	C
ATOM	759	O	VAL	A	102	138.036	123.669	77.343	1.00	0.74	O
ATOM	760	CB	VAL	A	102	135.794	122.438	79.288	1.00	0.74	C
ATOM	761	CG1	VAL	A	102	136.304	123.735	79.948	1.00	0.74	C
ATOM	762	CG2	VAL	A	102	134.279	122.321	79.548	1.00	0.74	C
ATOM	763	N	HIS	A	103	138.259	121.429	77.311	1.00	0.70	N
ATOM	764	CA	HIS	A	103	139.700	121.393	77.089	1.00	0.70	C
ATOM	765	C	HIS	A	103	140.502	121.920	78.273	1.00	0.70	C
ATOM	766	O	HIS	A	103	141.584	122.482	78.125	1.00	0.70	O
ATOM	767	CB	HIS	A	103	140.176	122.072	75.774	1.00	0.70	C
ATOM	768	CG	HIS	A	103	139.725	121.393	74.521	1.00	0.70	C
ATOM	769	ND1	HIS	A	103	140.066	120.071	74.311	1.00	0.70	N

ATOM	770	CD2	HIS	A	103	139.120	121.903	73.417	1.00	0.70	C
ATOM	771	CE1	HIS	A	103	139.661	119.800	73.089	1.00	0.70	C
ATOM	772	NE2	HIS	A	103	139.083	120.875	72.499	1.00	0.70	N
ATOM	773	N	ASP	A	104	140.020	121.684	79.509	1.00	0.72	N
ATOM	774	CA	ASP	A	104	140.679	122.110	80.730	1.00	0.72	C
ATOM	775	C	ASP	A	104	141.496	120.967	81.324	1.00	0.72	C
ATOM	776	O	ASP	A	104	142.073	121.065	82.404	1.00	0.72	O
ATOM	777	CB	ASP	A	104	139.620	122.655	81.733	1.00	0.72	C
ATOM	778	CG	ASP	A	104	138.635	121.609	82.207	1.00	0.72	C
ATOM	779	OD1	ASP	A	104	138.187	120.755	81.405	1.00	0.72	O
ATOM	780	OD2	ASP	A	104	138.295	121.622	83.419	1.00	0.72	O
ATOM	781	N	GLY	A	105	141.556	119.837	80.593	1.00	0.76	N
ATOM	782	CA	GLY	A	105	142.227	118.615	81.010	1.00	0.76	C
ATOM	783	C	GLY	A	105	141.376	117.713	81.858	1.00	0.76	C
ATOM	784	O	GLY	A	105	141.820	116.641	82.253	1.00	0.76	O
ATOM	785	N	SER	A	106	140.110	118.088	82.136	1.00	0.75	N
ATOM	786	CA	SER	A	106	139.230	117.275	82.968	1.00	0.75	C
ATOM	787	C	SER	A	106	138.200	116.507	82.149	1.00	0.75	C
ATOM	788	O	SER	A	106	137.380	115.771	82.692	1.00	0.75	O
ATOM	789	CB	SER	A	106	138.560	118.074	84.117	1.00	0.75	C
ATOM	790	OG	SER	A	106	137.641	119.061	83.651	1.00	0.75	O
ATOM	791	N	ASP	A	107	138.281	116.573	80.799	1.00	0.74	N
ATOM	792	CA	ASP	A	107	137.425	115.837	79.874	1.00	0.74	C
ATOM	793	C	ASP	A	107	137.668	114.324	79.895	1.00	0.74	C
ATOM	794	O	ASP	A	107	136.827	113.532	79.477	1.00	0.74	O
ATOM	795	CB	ASP	A	107	137.592	116.391	78.428	1.00	0.74	C
ATOM	796	CG	ASP	A	107	136.956	117.761	78.354	1.00	0.74	C
ATOM	797	OD1	ASP	A	107	135.723	117.850	78.605	1.00	0.74	O
ATOM	798	OD2	ASP	A	107	137.666	118.773	78.141	1.00	0.74	O
ATOM	799	N	SER	A	108	138.813	113.874	80.446	1.00	0.72	N
ATOM	800	CA	SER	A	108	139.144	112.465	80.594	1.00	0.72	C
ATOM	801	C	SER	A	108	138.718	111.880	81.930	1.00	0.72	C
ATOM	802	O	SER	A	108	138.905	110.687	82.166	1.00	0.72	O
ATOM	803	CB	SER	A	108	140.677	112.240	80.475	1.00	0.72	C
ATOM	804	OG	SER	A	108	141.391	113.126	81.340	1.00	0.72	O
ATOM	805	N	MET	A	109	138.112	112.676	82.836	1.00	0.69	N
ATOM	806	CA	MET	A	109	137.594	112.184	84.101	1.00	0.69	C
ATOM	807	C	MET	A	109	136.426	111.208	83.944	1.00	0.69	C
ATOM	808	O	MET	A	109	135.419	111.482	83.287	1.00	0.69	O
ATOM	809	CB	MET	A	109	137.165	113.362	85.009	1.00	0.69	C
ATOM	810	CG	MET	A	109	138.340	114.117	85.665	1.00	0.69	C
ATOM	811	SD	MET	A	109	138.824	113.488	87.306	1.00	0.69	S
ATOM	812	CE	MET	A	109	137.437	114.270	88.183	1.00	0.69	C
ATOM	813	N	THR	A	110	136.544	110.027	84.576	1.00	0.72	N
ATOM	814	CA	THR	A	110	135.566	108.953	84.522	1.00	0.72	C
ATOM	815	C	THR	A	110	134.753	108.906	85.816	1.00	0.72	C
ATOM	816	O	THR	A	110	135.333	108.831	86.901	1.00	0.72	O
ATOM	817	CB	THR	A	110	136.213	107.590	84.301	1.00	0.72	C
ATOM	818	OG1	THR	A	110	137.399	107.440	85.075	1.00	0.72	O
ATOM	819	CG2	THR	A	110	136.640	107.492	82.829	1.00	0.72	C
ATOM	820	N	PRO	A	111	133.425	108.979	85.794	1.00	0.80	N
ATOM	821	CA	PRO	A	111	132.603	108.808	86.991	1.00	0.80	C
ATOM	822	C	PRO	A	111	132.215	107.343	87.175	1.00	0.80	C
ATOM	823	O	PRO	A	111	132.170	106.614	86.191	1.00	0.80	O
ATOM	824	CB	PRO	A	111	131.367	109.663	86.648	1.00	0.80	C
ATOM	825	CG	PRO	A	111	131.204	109.514	85.130	1.00	0.80	C
ATOM	826	CD	PRO	A	111	132.643	109.411	84.629	1.00	0.80	C
ATOM	827	N	ASP	A	112	131.902	106.881	88.414	1.00	0.81	N
ATOM	828	CA	ASP	A	112	131.381	105.534	88.652	1.00	0.81	C
ATOM	829	C	ASP	A	112	130.063	105.278	87.911	1.00	0.81	C
ATOM	830	O	ASP	A	112	129.855	104.234	87.293	1.00	0.81	O
ATOM	831	CB	ASP	A	112	131.060	105.315	90.158	1.00	0.81	C
ATOM	832	CG	ASP	A	112	132.226	104.889	91.035	1.00	0.81	C
ATOM	833	OD1	ASP	A	112	133.140	104.179	90.559	1.00	0.81	O
ATOM	834	OD2	ASP	A	112	132.124	105.159	92.261	1.00	0.81	O



ATOM	835	N	VAL	A	113	129.121	106.244	87.948	1.00	0.82	N
ATOM	836	CA	VAL	A	113	127.938	106.158	87.119	1.00	0.82	C
ATOM	837	C	VAL	A	113	127.500	107.541	86.680	1.00	0.82	C
ATOM	838	O	VAL	A	113	127.441	108.506	87.445	1.00	0.82	O
ATOM	839	CB	VAL	A	113	126.801	105.349	87.754	1.00	0.82	C
ATOM	840	CG1	VAL	A	113	126.281	106.003	89.045	1.00	0.82	C
ATOM	841	CG2	VAL	A	113	125.658	105.097	86.749	1.00	0.82	C
ATOM	842	N	ILE	A	114	127.187	107.667	85.380	1.00	0.81	N
ATOM	843	CA	ILE	A	114	126.630	108.861	84.794	1.00	0.81	C
ATOM	844	C	ILE	A	114	125.321	108.472	84.141	1.00	0.81	C
ATOM	845	O	ILE	A	114	125.249	107.683	83.196	1.00	0.81	O
ATOM	846	CB	ILE	A	114	127.614	109.542	83.850	1.00	0.81	C
ATOM	847	CG1	ILE	A	114	127.033	110.828	83.223	1.00	0.81	C
ATOM	848	CG2	ILE	A	114	128.176	108.565	82.794	1.00	0.81	C
ATOM	849	CD1	ILE	A	114	128.125	111.728	82.632	1.00	0.81	C
ATOM	850	N	HIS	A	115	124.214	108.999	84.683	1.00	0.80	N
ATOM	851	CA	HIS	A	115	122.881	108.608	84.299	1.00	0.80	C
ATOM	852	C	HIS	A	115	122.199	109.780	83.645	1.00	0.80	C
ATOM	853	O	HIS	A	115	122.306	110.917	84.096	1.00	0.80	O
ATOM	854	CB	HIS	A	115	122.035	108.161	85.510	1.00	0.80	C
ATOM	855	CG	HIS	A	115	120.691	107.651	85.106	1.00	0.80	C
ATOM	856	ND1	HIS	A	115	120.612	106.374	84.601	1.00	0.80	N
ATOM	857	CD2	HIS	A	115	119.476	108.256	85.058	1.00	0.80	C
ATOM	858	CE1	HIS	A	115	119.350	106.209	84.265	1.00	0.80	C
ATOM	859	NE2	HIS	A	115	118.618	107.322	84.516	1.00	0.80	N
ATOM	860	N	THR	A	116	121.463	109.513	82.559	1.00	0.81	N
ATOM	861	CA	THR	A	116	120.658	110.527	81.899	1.00	0.81	C
ATOM	862	C	THR	A	116	119.306	109.902	81.778	1.00	0.81	C
ATOM	863	O	THR	A	116	119.166	108.874	81.120	1.00	0.81	O
ATOM	864	CB	THR	A	116	121.116	110.913	80.495	1.00	0.81	C
ATOM	865	OG1	THR	A	116	122.494	111.249	80.494	1.00	0.81	O
ATOM	866	CG2	THR	A	116	120.350	112.152	80.008	1.00	0.81	C
ATOM	867	N	ARG	A	117	118.271	110.462	82.430	1.00	0.73	N
ATOM	868	CA	ARG	A	117	116.921	109.956	82.257	1.00	0.73	C
ATOM	869	C	ARG	A	117	116.227	110.709	81.131	1.00	0.73	C
ATOM	870	O	ARG	A	117	116.783	111.637	80.549	1.00	0.73	O
ATOM	871	CB	ARG	A	117	116.119	109.900	83.581	1.00	0.73	C
ATOM	872	CG	ARG	A	117	115.611	111.246	84.105	1.00	0.73	C
ATOM	873	CD	ARG	A	117	114.947	111.127	85.484	1.00	0.73	C
ATOM	874	NE	ARG	A	117	114.276	112.426	85.755	1.00	0.73	N
ATOM	875	CZ	ARG	A	117	114.242	113.058	86.934	1.00	0.73	C
ATOM	876	NH1	ARG	A	117	114.837	112.575	88.022	1.00	0.73	N
ATOM	877	NH2	ARG	A	117	113.607	114.220	87.032	1.00	0.73	N
ATOM	878	N	LEU	A	118	114.998	110.308	80.754	1.00	0.74	N
ATOM	879	CA	LEU	A	118	114.354	110.761	79.531	1.00	0.74	C
ATOM	880	C	LEU	A	118	113.963	112.240	79.476	1.00	0.74	C
ATOM	881	O	LEU	A	118	113.742	112.775	78.399	1.00	0.74	O
ATOM	882	CB	LEU	A	118	113.160	109.847	79.146	1.00	0.74	C
ATOM	883	CG	LEU	A	118	111.860	109.991	79.967	1.00	0.74	C
ATOM	884	CD1	LEU	A	118	110.730	109.193	79.293	1.00	0.74	C
ATOM	885	CD2	LEU	A	118	111.980	109.579	81.445	1.00	0.74	C
ATOM	886	N	ASP	A	119	113.938	112.947	80.625	1.00	0.77	N
ATOM	887	CA	ASP	A	119	113.796	114.392	80.714	1.00	0.77	C
ATOM	888	C	ASP	A	119	115.040	115.175	80.278	1.00	0.77	C
ATOM	889	O	ASP	A	119	115.029	116.401	80.147	1.00	0.77	O
ATOM	890	CB	ASP	A	119	113.631	114.781	82.203	1.00	0.77	C
ATOM	891	CG	ASP	A	119	112.583	113.958	82.907	1.00	0.77	C
ATOM	892	OD1	ASP	A	119	112.981	112.910	83.482	1.00	0.77	O
ATOM	893	OD2	ASP	A	119	111.409	114.373	82.939	1.00	0.77	O
ATOM	894	N	GLY	A	120	116.194	114.486	80.144	1.00	0.84	N
ATOM	895	CA	GLY	A	120	117.479	115.134	79.929	1.00	0.84	C
ATOM	896	C	GLY	A	120	118.144	115.601	81.197	1.00	0.84	C
ATOM	897	O	GLY	A	120	119.143	116.313	81.152	1.00	0.84	O
ATOM	898	N	THR	A	121	117.620	115.220	82.384	1.00	0.85	N
ATOM	899	CA	THR	A	121	118.301	115.480	83.653	1.00	0.85	C

ATOM	900	C	THR	A	121	119.533	114.603	83.783	1.00	0.85	C
ATOM	901	O	THR	A	121	119.481	113.381	83.623	1.00	0.85	O
ATOM	902	CB	THR	A	121	117.459	115.396	84.934	1.00	0.85	C
ATOM	903	OG1	THR	A	121	116.967	114.094	85.198	1.00	0.85	O
ATOM	904	CG2	THR	A	121	116.229	116.299	84.804	1.00	0.85	C
ATOM	905	N	VAL	A	122	120.698	115.225	84.039	1.00	0.86	N
ATOM	906	CA	VAL	A	122	121.962	114.510	84.104	1.00	0.86	C
ATOM	907	C	VAL	A	122	122.332	114.293	85.552	1.00	0.86	C
ATOM	908	O	VAL	A	122	122.365	115.217	86.364	1.00	0.86	O
ATOM	909	CB	VAL	A	122	123.094	115.230	83.380	1.00	0.86	C
ATOM	910	CG1	VAL	A	122	124.413	114.436	83.501	1.00	0.86	C
ATOM	911	CG2	VAL	A	122	122.726	115.387	81.893	1.00	0.86	C
ATOM	912	N	VAL	A	123	122.600	113.031	85.918	1.00	0.87	N
ATOM	913	CA	VAL	A	123	122.880	112.635	87.279	1.00	0.87	C
ATOM	914	C	VAL	A	123	124.242	111.964	87.312	1.00	0.87	C
ATOM	915	O	VAL	A	123	124.451	110.916	86.701	1.00	0.87	O
ATOM	916	CB	VAL	A	123	121.793	111.700	87.801	1.00	0.87	C
ATOM	917	CG1	VAL	A	123	122.119	111.264	89.236	1.00	0.87	C
ATOM	918	CG2	VAL	A	123	120.425	112.412	87.752	1.00	0.87	C
ATOM	919	N	VAL	A	124	125.221	112.555	88.029	1.00	0.85	N
ATOM	920	CA	VAL	A	124	126.579	112.026	88.118	1.00	0.85	C
ATOM	921	C	VAL	A	124	126.827	111.615	89.555	1.00	0.85	C
ATOM	922	O	VAL	A	124	126.751	112.440	90.465	1.00	0.85	O
ATOM	923	CB	VAL	A	124	127.648	113.038	87.703	1.00	0.85	C
ATOM	924	CG1	VAL	A	124	129.056	112.414	87.824	1.00	0.85	C
ATOM	925	CG2	VAL	A	124	127.406	113.484	86.248	1.00	0.85	C
ATOM	926	N	ILE	A	125	127.099	110.314	89.797	1.00	0.83	N
ATOM	927	CA	ILE	A	125	127.247	109.769	91.141	1.00	0.83	C
ATOM	928	C	ILE	A	125	128.598	109.077	91.248	1.00	0.83	C
ATOM	929	O	ILE	A	125	128.992	108.332	90.349	1.00	0.83	O
ATOM	930	CB	ILE	A	125	126.142	108.765	91.503	1.00	0.83	C
ATOM	931	CG1	ILE	A	125	124.721	109.263	91.137	1.00	0.83	C
ATOM	932	CG2	ILE	A	125	126.220	108.361	92.995	1.00	0.83	C
ATOM	933	CD1	ILE	A	125	124.298	110.543	91.858	1.00	0.83	C
ATOM	934	N	GLU	A	126	129.344	109.301	92.352	1.00	0.83	N
ATOM	935	CA	GLU	A	126	130.547	108.539	92.667	1.00	0.83	C
ATOM	936	C	GLU	A	126	130.364	107.868	94.023	1.00	0.83	C
ATOM	937	O	GLU	A	126	129.839	108.454	94.975	1.00	0.83	O
ATOM	938	CB	GLU	A	126	131.851	109.392	92.567	1.00	0.83	C
ATOM	939	CG	GLU	A	126	133.167	108.588	92.800	1.00	0.83	C
ATOM	940	CD	GLU	A	126	134.445	109.224	92.240	1.00	0.83	C
ATOM	941	OE1	GLU	A	126	134.555	109.414	91.005	1.00	0.83	O
ATOM	942	OE2	GLU	A	126	135.386	109.492	93.044	1.00	0.83	O
ATOM	943	N	PHE	A	127	130.736	106.579	94.132	1.00	0.87	N
ATOM	944	CA	PHE	A	127	130.525	105.771	95.313	1.00	0.87	C
ATOM	945	C	PHE	A	127	131.806	105.738	96.132	1.00	0.87	C
ATOM	946	O	PHE	A	127	132.906	106.001	95.645	1.00	0.87	O
ATOM	947	CB	PHE	A	127	130.122	104.307	94.960	1.00	0.87	C
ATOM	948	CG	PHE	A	127	128.965	104.245	93.993	1.00	0.87	C
ATOM	949	CD1	PHE	A	127	127.683	104.660	94.377	1.00	0.87	C
ATOM	950	CD2	PHE	A	127	129.146	103.753	92.691	1.00	0.87	C
ATOM	951	CE1	PHE	A	127	126.613	104.635	93.472	1.00	0.87	C
ATOM	952	CE2	PHE	A	127	128.079	103.703	91.784	1.00	0.87	C
ATOM	953	CZ	PHE	A	127	126.813	104.150	92.174	1.00	0.87	C
ATOM	954	N	THR	A	128	131.717	105.427	97.439	1.00	0.87	N
ATOM	955	CA	THR	A	128	132.923	105.235	98.229	1.00	0.87	C
ATOM	956	C	THR	A	128	132.623	104.413	99.460	1.00	0.87	C
ATOM	957	O	THR	A	128	131.483	104.302	99.911	1.00	0.87	O
ATOM	958	CB	THR	A	128	133.618	106.550	98.586	1.00	0.87	C
ATOM	959	OG1	THR	A	128	134.974	106.373	98.959	1.00	0.87	O
ATOM	960	CG2	THR	A	128	132.918	107.345	99.682	1.00	0.87	C
ATOM	961	N	THR	A	129	133.650	103.770	100.033	1.00	0.84	N
ATOM	962	CA	THR	A	129	133.530	102.947	101.225	1.00	0.84	C
ATOM	963	C	THR	A	129	134.541	103.484	102.210	1.00	0.84	C
ATOM	964	O	THR	A	129	135.599	103.969	101.816	1.00	0.84	O

ATOM	965	CB	THR	A	129	133.747	101.445	100.983	1.00	0.84	C
ATOM	966	OG1	THR	A	129	135.062	101.132	100.553	1.00	0.84	O
ATOM	967	CG2	THR	A	129	132.810	100.939	99.879	1.00	0.84	C
ATOM	968	N	THR	A	130	134.259	103.475	103.530	1.00	0.79	N
ATOM	969	CA	THR	A	130	135.306	103.808	104.495	1.00	0.79	C
ATOM	970	C	THR	A	130	135.334	102.804	105.614	1.00	0.79	C
ATOM	971	O	THR	A	130	134.358	102.138	105.947	1.00	0.79	O
ATOM	972	CB	THR	A	130	135.321	105.224	105.092	1.00	0.79	C
ATOM	973	OG1	THR	A	130	134.232	105.510	105.956	1.00	0.79	O
ATOM	974	CG2	THR	A	130	135.313	106.272	103.978	1.00	0.79	C
ATOM	975	N	ARG	A	131	136.516	102.660	106.234	1.00	0.65	N
ATOM	976	CA	ARG	A	131	136.778	101.677	107.264	1.00	0.65	C
ATOM	977	C	ARG	A	131	136.795	102.350	108.629	1.00	0.65	C
ATOM	978	O	ARG	A	131	137.390	101.856	109.583	1.00	0.65	O
ATOM	979	CB	ARG	A	131	138.120	100.959	106.950	1.00	0.65	C
ATOM	980	CG	ARG	A	131	138.070	100.181	105.612	1.00	0.65	C
ATOM	981	CD	ARG	A	131	139.396	99.563	105.145	1.00	0.65	C
ATOM	982	NE	ARG	A	131	139.783	98.511	106.142	1.00	0.65	N
ATOM	983	CZ	ARG	A	131	140.979	97.904	106.151	1.00	0.65	C
ATOM	984	NH1	ARG	A	131	141.876	98.103	105.192	1.00	0.65	N
ATOM	985	NH2	ARG	A	131	141.293	97.095	107.161	1.00	0.65	N
ATOM	986	N	SER	A	132	136.127	103.519	108.747	1.00	0.75	N
ATOM	987	CA	SER	A	132	136.007	104.249	110.001	1.00	0.75	C
ATOM	988	C	SER	A	132	134.708	103.895	110.702	1.00	0.75	C
ATOM	989	O	SER	A	132	133.736	103.478	110.079	1.00	0.75	O
ATOM	990	CB	SER	A	132	136.157	105.797	109.844	1.00	0.75	C
ATOM	991	OG	SER	A	132	134.931	106.505	109.618	1.00	0.75	O
ATOM	992	N	THR	A	133	134.658	104.069	112.032	1.00	0.71	N
ATOM	993	CA	THR	A	133	133.536	103.646	112.860	1.00	0.71	C
ATOM	994	C	THR	A	133	132.619	104.795	113.238	1.00	0.71	C
ATOM	995	O	THR	A	133	131.668	104.619	113.995	1.00	0.71	O
ATOM	996	CB	THR	A	133	134.041	103.008	114.149	1.00	0.71	C
ATOM	997	OG1	THR	A	133	134.981	103.847	114.815	1.00	0.71	O
ATOM	998	CG2	THR	A	133	134.794	101.718	113.793	1.00	0.71	C
ATOM	999	N	ASN	A	134	132.864	106.005	112.703	1.00	0.71	N
ATOM	1000	CA	ASN	A	134	132.295	107.236	113.225	1.00	0.71	C
ATOM	1001	C	ASN	A	134	132.029	108.253	112.118	1.00	0.71	C
ATOM	1002	O	ASN	A	134	132.470	108.080	110.986	1.00	0.71	O
ATOM	1003	CB	ASN	A	134	133.228	107.841	114.323	1.00	0.71	C
ATOM	1004	CG	ASN	A	134	134.702	108.027	113.935	1.00	0.71	C
ATOM	1005	OD1	ASN	A	134	135.581	107.960	114.793	1.00	0.71	O
ATOM	1006	ND2	ASN	A	134	135.021	108.282	112.645	1.00	0.71	N
ATOM	1007	N	MET	A	135	131.346	109.377	112.431	1.00	0.76	N
ATOM	1008	CA	MET	A	135	131.015	110.425	111.469	1.00	0.76	C
ATOM	1009	C	MET	A	135	132.200	111.069	110.755	1.00	0.76	C
ATOM	1010	O	MET	A	135	132.116	111.357	109.566	1.00	0.76	O
ATOM	1011	CB	MET	A	135	130.182	111.553	112.130	1.00	0.76	C
ATOM	1012	CG	MET	A	135	128.770	111.124	112.586	1.00	0.76	C
ATOM	1013	SD	MET	A	135	127.713	110.401	111.284	1.00	0.76	S
ATOM	1014	CE	MET	A	135	127.591	111.863	110.208	1.00	0.76	C
ATOM	1015	N	GLY	A	136	133.340	111.293	111.448	1.00	0.83	N
ATOM	1016	CA	GLY	A	136	134.556	111.887	110.878	1.00	0.83	C
ATOM	1017	C	GLY	A	136	135.047	111.332	109.556	1.00	0.83	C
ATOM	1018	O	GLY	A	136	135.377	112.078	108.641	1.00	0.83	O
ATOM	1019	N	GLY	A	137	135.108	109.993	109.392	1.00	0.83	N
ATOM	1020	CA	GLY	A	137	135.565	109.410	108.130	1.00	0.83	C
ATOM	1021	C	GLY	A	137	134.496	109.326	107.070	1.00	0.83	C
ATOM	1022	O	GLY	A	137	134.800	109.247	105.883	1.00	0.83	O
ATOM	1023	N	LEU	A	138	133.208	109.377	107.465	1.00	0.87	N
ATOM	1024	CA	LEU	A	138	132.084	109.572	106.559	1.00	0.87	C
ATOM	1025	C	LEU	A	138	132.113	110.969	105.959	1.00	0.87	C
ATOM	1026	O	LEU	A	138	132.006	111.149	104.746	1.00	0.87	O
ATOM	1027	CB	LEU	A	138	130.739	109.362	107.312	1.00	0.87	C
ATOM	1028	CG	LEU	A	138	130.094	107.972	107.139	1.00	0.87	C
ATOM	1029	CD1	LEU	A	138	131.037	106.810	107.473	1.00	0.87	C

ATOM	1030	CD2	LEU	A	138	128.825	107.863	108.000	1.00	0.87	C
ATOM	1031	N	GLU	A	139	132.326	111.995	106.810	1.00	0.80	N
ATOM	1032	CA	GLU	A	139	132.500	113.364	106.378	1.00	0.80	C
ATOM	1033	C	GLU	A	139	133.745	113.560	105.530	1.00	0.80	C
ATOM	1034	O	GLU	A	139	133.672	114.137	104.449	1.00	0.80	O
ATOM	1035	CB	GLU	A	139	132.548	114.337	107.577	1.00	0.80	C
ATOM	1036	CG	GLU	A	139	132.684	115.805	107.112	1.00	0.80	C
ATOM	1037	CD	GLU	A	139	132.871	116.816	108.235	1.00	0.80	C
ATOM	1038	OE1	GLU	A	139	132.746	116.463	109.429	1.00	0.80	O
ATOM	1039	OE2	GLU	A	139	133.184	117.974	107.857	1.00	0.80	O
ATOM	1040	N	ALA	A	140	134.916	113.032	105.946	1.00	0.81	N
ATOM	1041	CA	ALA	A	140	136.169	113.192	105.227	1.00	0.81	C
ATOM	1042	C	ALA	A	140	136.127	112.653	103.800	1.00	0.81	C
ATOM	1043	O	ALA	A	140	136.597	113.293	102.860	1.00	0.81	O
ATOM	1044	CB	ALA	A	140	137.302	112.500	106.010	1.00	0.81	C
ATOM	1045	N	ALA	A	141	135.494	111.478	103.613	1.00	0.86	N
ATOM	1046	CA	ALA	A	141	135.174	110.924	102.316	1.00	0.86	C
ATOM	1047	C	ALA	A	141	134.190	111.760	101.503	1.00	0.86	C
ATOM	1048	O	ALA	A	141	134.370	111.963	100.306	1.00	0.86	O
ATOM	1049	CB	ALA	A	141	134.601	109.513	102.518	1.00	0.86	C
ATOM	1050	N	TYR	A	142	133.126	112.296	102.134	1.00	0.84	N
ATOM	1051	CA	TYR	A	142	132.182	113.189	101.482	1.00	0.84	C
ATOM	1052	C	TYR	A	142	132.840	114.483	100.992	1.00	0.84	C
ATOM	1053	O	TYR	A	142	132.649	114.909	99.853	1.00	0.84	O
ATOM	1054	CB	TYR	A	142	131.015	113.500	102.463	1.00	0.84	C
ATOM	1055	CG	TYR	A	142	129.831	114.088	101.745	1.00	0.84	C
ATOM	1056	CD1	TYR	A	142	129.694	115.480	101.610	1.00	0.84	C
ATOM	1057	CD2	TYR	A	142	128.859	113.247	101.178	1.00	0.84	C
ATOM	1058	CE1	TYR	A	142	128.610	116.021	100.906	1.00	0.84	C
ATOM	1059	CE2	TYR	A	142	127.775	113.788	100.471	1.00	0.84	C
ATOM	1060	CZ	TYR	A	142	127.658	115.176	100.334	1.00	0.84	C
ATOM	1061	OH	TYR	A	142	126.578	115.744	99.635	1.00	0.84	O
ATOM	1062	N	ARG	A	143	133.683	115.124	101.832	1.00	0.69	N
ATOM	1063	CA	ARG	A	143	134.424	116.317	101.459	1.00	0.69	C
ATOM	1064	C	ARG	A	143	135.455	116.085	100.362	1.00	0.69	C
ATOM	1065	O	ARG	A	143	135.572	116.901	99.453	1.00	0.69	O
ATOM	1066	CB	ARG	A	143	135.112	117.023	102.661	1.00	0.69	C
ATOM	1067	CG	ARG	A	143	134.183	117.233	103.873	1.00	0.69	C
ATOM	1068	CD	ARG	A	143	134.499	118.428	104.780	1.00	0.69	C
ATOM	1069	NE	ARG	A	143	133.678	119.584	104.286	1.00	0.69	N
ATOM	1070	CZ	ARG	A	143	132.715	120.190	105.003	1.00	0.69	C
ATOM	1071	NH1	ARG	A	143	132.367	119.850	106.232	1.00	0.69	N
ATOM	1072	NH2	ARG	A	143	132.071	121.220	104.456	1.00	0.69	N
ATOM	1073	N	SER	A	144	136.224	114.973	100.407	1.00	0.78	N
ATOM	1074	CA	SER	A	144	137.195	114.626	99.366	1.00	0.78	C
ATOM	1075	C	SER	A	144	136.576	114.281	98.020	1.00	0.78	C
ATOM	1076	O	SER	A	144	137.054	114.712	96.973	1.00	0.78	O
ATOM	1077	CB	SER	A	144	138.197	113.515	99.797	1.00	0.78	C
ATOM	1078	OG	SER	A	144	137.582	112.237	99.977	1.00	0.78	O
ATOM	1079	N	LYS	A	145	135.461	113.522	97.992	1.00	0.79	N
ATOM	1080	CA	LYS	A	145	134.700	113.290	96.773	1.00	0.79	C
ATOM	1081	C	LYS	A	145	134.066	114.552	96.201	1.00	0.79	C
ATOM	1082	O	LYS	A	145	134.057	114.759	94.988	1.00	0.79	O
ATOM	1083	CB	LYS	A	145	133.609	112.212	96.974	1.00	0.79	C
ATOM	1084	CG	LYS	A	145	134.148	110.801	97.268	1.00	0.79	C
ATOM	1085	CD	LYS	A	145	135.060	110.247	96.160	1.00	0.79	C
ATOM	1086	CE	LYS	A	145	135.251	108.730	96.261	1.00	0.79	C
ATOM	1087	NZ	LYS	A	145	136.109	108.213	95.182	1.00	0.79	N
ATOM	1088	N	LEU	A	146	133.541	115.446	97.068	1.00	0.79	N
ATOM	1089	CA	LEU	A	146	133.053	116.753	96.662	1.00	0.79	C
ATOM	1090	C	LEU	A	146	134.138	117.638	96.065	1.00	0.79	C
ATOM	1091	O	LEU	A	146	133.900	118.301	95.060	1.00	0.79	O
ATOM	1092	CB	LEU	A	146	132.366	117.473	97.853	1.00	0.79	C
ATOM	1093	CG	LEU	A	146	131.690	118.832	97.545	1.00	0.79	C
ATOM	1094	CD1	LEU	A	146	130.656	118.725	96.412	1.00	0.79	C

ATOM	1095	CD2	LEU	A	146	131.018	119.362	98.822	1.00	0.79	C
ATOM	1096	N	GLU	A	147	135.354	117.649	96.650	1.00	0.71	N
ATOM	1097	CA	GLU	A	147	136.519	118.363	96.143	1.00	0.71	C
ATOM	1098	C	GLU	A	147	136.967	117.862	94.768	1.00	0.71	C
ATOM	1099	O	GLU	A	147	137.062	118.635	93.815	1.00	0.71	O
ATOM	1100	CB	GLU	A	147	137.638	118.265	97.215	1.00	0.71	C
ATOM	1101	CG	GLU	A	147	138.739	119.356	97.156	1.00	0.71	C
ATOM	1102	CD	GLU	A	147	140.035	118.958	96.449	1.00	0.71	C
ATOM	1103	OE1	GLU	A	147	140.139	117.813	95.944	1.00	0.71	O
ATOM	1104	OE2	GLU	A	147	140.959	119.815	96.482	1.00	0.71	O
ATOM	1105	N	LYS	A	148	137.080	116.521	94.602	1.00	0.76	N
ATOM	1106	CA	LYS	A	148	137.490	115.842	93.376	1.00	0.76	C
ATOM	1107	C	LYS	A	148	136.632	116.153	92.148	1.00	0.76	C
ATOM	1108	O	LYS	A	148	137.118	116.166	91.017	1.00	0.76	O
ATOM	1109	CB	LYS	A	148	137.491	114.297	93.604	1.00	0.76	C
ATOM	1110	CG	LYS	A	148	138.046	113.446	92.435	1.00	0.76	C
ATOM	1111	CD	LYS	A	148	137.858	111.932	92.659	1.00	0.76	C
ATOM	1112	CE	LYS	A	148	138.449	111.005	91.577	1.00	0.76	C
ATOM	1113	NZ	LYS	A	148	137.770	111.155	90.267	1.00	0.76	N
ATOM	1114	N	TYR	A	149	135.314	116.369	92.330	1.00	0.80	N
ATOM	1115	CA	TYR	A	149	134.397	116.608	91.226	1.00	0.80	C
ATOM	1116	C	TYR	A	149	133.869	118.028	91.144	1.00	0.80	C
ATOM	1117	O	TYR	A	149	133.035	118.322	90.286	1.00	0.80	O
ATOM	1118	CB	TYR	A	149	133.186	115.641	91.324	1.00	0.80	C
ATOM	1119	CG	TYR	A	149	133.544	114.393	90.592	1.00	0.80	C
ATOM	1120	CD1	TYR	A	149	134.267	113.398	91.251	1.00	0.80	C
ATOM	1121	CD2	TYR	A	149	133.276	114.259	89.216	1.00	0.80	C
ATOM	1122	CE1	TYR	A	149	134.780	112.325	90.529	1.00	0.80	C
ATOM	1123	CE2	TYR	A	149	133.794	113.172	88.494	1.00	0.80	C
ATOM	1124	CZ	TYR	A	149	134.580	112.220	89.152	1.00	0.80	C
ATOM	1125	OH	TYR	A	149	135.287	111.242	88.427	1.00	0.80	O
ATOM	1126	N	ARG	A	150	134.319	118.969	91.999	1.00	0.70	N
ATOM	1127	CA	ARG	A	150	133.682	120.275	92.049	1.00	0.70	C
ATOM	1128	C	ARG	A	150	133.856	121.187	90.829	1.00	0.70	C
ATOM	1129	O	ARG	A	150	132.868	121.673	90.276	1.00	0.70	O
ATOM	1130	CB	ARG	A	150	134.143	121.054	93.309	1.00	0.70	C
ATOM	1131	CG	ARG	A	150	133.467	122.427	93.513	1.00	0.70	C
ATOM	1132	CD	ARG	A	150	131.949	122.400	93.747	1.00	0.70	C
ATOM	1133	NE	ARG	A	150	131.710	122.078	95.193	1.00	0.70	N
ATOM	1134	CZ	ARG	A	150	131.524	122.992	96.158	1.00	0.70	C
ATOM	1135	NH1	ARG	A	150	131.629	124.298	95.930	1.00	0.70	N
ATOM	1136	NH2	ARG	A	150	131.225	122.586	97.390	1.00	0.70	N
ATOM	1137	N	ASP	A	151	135.093	121.470	90.363	1.00	0.73	N
ATOM	1138	CA	ASP	A	151	135.288	122.355	89.223	1.00	0.73	C
ATOM	1139	C	ASP	A	151	134.960	121.778	87.835	1.00	0.73	C
ATOM	1140	O	ASP	A	151	134.449	122.567	87.028	1.00	0.73	O
ATOM	1141	CB	ASP	A	151	136.601	123.186	89.291	1.00	0.73	C
ATOM	1142	CG	ASP	A	151	137.846	122.423	88.898	1.00	0.73	C
ATOM	1143	OD1	ASP	A	151	138.189	121.449	89.597	1.00	0.73	O
ATOM	1144	OD2	ASP	A	151	138.469	122.831	87.884	1.00	0.73	O
ATOM	1145	N	PRO	A	152	135.143	120.498	87.445	1.00	0.79	N
ATOM	1146	CA	PRO	A	152	134.887	120.059	86.079	1.00	0.79	C
ATOM	1147	C	PRO	A	152	133.435	120.149	85.705	1.00	0.79	C
ATOM	1148	O	PRO	A	152	133.120	120.557	84.588	1.00	0.79	O
ATOM	1149	CB	PRO	A	152	135.341	118.589	86.047	1.00	0.79	C
ATOM	1150	CG	PRO	A	152	136.416	118.530	87.128	1.00	0.79	C
ATOM	1151	CD	PRO	A	152	135.850	119.457	88.198	1.00	0.79	C
ATOM	1152	N	LEU	A	153	132.537	119.747	86.620	1.00	0.81	N
ATOM	1153	CA	LEU	A	153	131.111	119.787	86.396	1.00	0.81	C
ATOM	1154	C	LEU	A	153	130.566	121.206	86.347	1.00	0.81	C
ATOM	1155	O	LEU	A	153	129.766	121.532	85.477	1.00	0.81	O
ATOM	1156	CB	LEU	A	153	130.373	118.914	87.430	1.00	0.81	C
ATOM	1157	CG	LEU	A	153	128.896	118.639	87.083	1.00	0.81	C
ATOM	1158	CD1	LEU	A	153	128.716	117.912	85.743	1.00	0.81	C
ATOM	1159	CD2	LEU	A	153	128.252	117.810	88.197	1.00	0.81	C

ATOM	1160	N	ASN	A	154	131.051	122.103	87.236	1.00	0.81	N
ATOM	1161	CA	ASN	A	154	130.738	123.528	87.205	1.00	0.81	C
ATOM	1162	C	ASN	A	154	131.189	124.230	85.928	1.00	0.81	C
ATOM	1163	O	ASN	A	154	130.466	125.045	85.370	1.00	0.81	O
ATOM	1164	CB	ASN	A	154	131.366	124.273	88.410	1.00	0.81	C
ATOM	1165	CG	ASN	A	154	130.582	123.983	89.682	1.00	0.81	C
ATOM	1166	OD1	ASN	A	154	129.452	123.507	89.691	1.00	0.81	O
ATOM	1167	ND2	ASN	A	154	131.181	124.344	90.838	1.00	0.81	N
ATOM	1168	N	ARG	A	155	132.391	123.925	85.393	1.00	0.73	N
ATOM	1169	CA	ARG	A	155	132.800	124.432	84.086	1.00	0.73	C
ATOM	1170	C	ARG	A	155	131.878	123.990	82.953	1.00	0.73	C
ATOM	1171	O	ARG	A	155	131.542	124.765	82.065	1.00	0.73	O
ATOM	1172	CB	ARG	A	155	134.227	123.948	83.729	1.00	0.73	C
ATOM	1173	CG	ARG	A	155	135.367	124.710	84.430	1.00	0.73	C
ATOM	1174	CD	ARG	A	155	136.716	124.034	84.168	1.00	0.73	C
ATOM	1175	NE	ARG	A	155	137.811	124.953	84.619	1.00	0.73	N
ATOM	1176	CZ	ARG	A	155	138.907	124.517	85.250	1.00	0.73	C
ATOM	1177	NH1	ARG	A	155	139.176	123.234	85.429	1.00	0.73	N
ATOM	1178	NH2	ARG	A	155	139.819	125.376	85.699	1.00	0.73	N
ATOM	1179	N	ARG	A	156	131.450	122.717	82.972	1.00	0.76	N
ATOM	1180	CA	ARG	A	156	130.540	122.145	81.997	1.00	0.76	C
ATOM	1181	C	ARG	A	156	129.092	122.630	82.114	1.00	0.76	C
ATOM	1182	O	ARG	A	156	128.380	122.706	81.114	1.00	0.76	O
ATOM	1183	CB	ARG	A	156	130.668	120.602	82.057	1.00	0.76	C
ATOM	1184	CG	ARG	A	156	131.984	120.155	81.382	1.00	0.76	C
ATOM	1185	CD	ARG	A	156	132.560	118.808	81.822	1.00	0.76	C
ATOM	1186	NE	ARG	A	156	133.909	118.693	81.170	1.00	0.76	N
ATOM	1187	CZ	ARG	A	156	135.017	119.338	81.561	1.00	0.76	C
ATOM	1188	NH1	ARG	A	156	135.097	120.121	82.625	1.00	0.76	N
ATOM	1189	NH2	ARG	A	156	136.114	119.204	80.835	1.00	0.76	N
ATOM	1190	N	SER	A	157	128.610	122.992	83.323	1.00	0.85	N
ATOM	1191	CA	SER	A	157	127.299	123.609	83.510	1.00	0.85	C
ATOM	1192	C	SER	A	157	127.264	125.107	83.230	1.00	0.85	C
ATOM	1193	O	SER	A	157	126.227	125.622	82.814	1.00	0.85	O
ATOM	1194	CB	SER	A	157	126.701	123.330	84.918	1.00	0.85	C
ATOM	1195	OG	SER	A	157	127.483	123.899	85.966	1.00	0.85	O
ATOM	1196	N	ASP	A	158	128.407	125.825	83.363	1.00	0.77	N
ATOM	1197	CA	ASP	A	158	128.576	127.228	82.988	1.00	0.77	C
ATOM	1198	C	ASP	A	158	128.357	127.471	81.479	1.00	0.77	C
ATOM	1199	O	ASP	A	158	128.049	128.584	81.058	1.00	0.77	O
ATOM	1200	CB	ASP	A	158	129.995	127.758	83.414	1.00	0.77	C
ATOM	1201	CG	ASP	A	158	130.100	128.302	84.839	1.00	0.77	C
ATOM	1202	OD1	ASP	A	158	129.097	128.818	85.400	1.00	0.77	O
ATOM	1203	OD2	ASP	A	158	131.250	128.334	85.372	1.00	0.77	O
ATOM	1204	N	ILE	A	159	128.499	126.431	80.625	1.00	0.75	N
ATOM	1205	CA	ILE	A	159	128.400	126.539	79.170	1.00	0.75	C
ATOM	1206	C	ILE	A	159	127.186	125.824	78.554	1.00	0.75	C
ATOM	1207	O	ILE	A	159	127.192	125.491	77.369	1.00	0.75	O
ATOM	1208	CB	ILE	A	159	129.688	126.072	78.476	1.00	0.75	C
ATOM	1209	CG1	ILE	A	159	130.079	124.620	78.845	1.00	0.75	C
ATOM	1210	CG2	ILE	A	159	130.817	127.072	78.819	1.00	0.75	C
ATOM	1211	CD1	ILE	A	159	131.249	124.073	78.015	1.00	0.75	C
ATOM	1212	N	MET	A	160	126.093	125.556	79.308	1.00	0.73	N
ATOM	1213	CA	MET	A	160	124.966	124.774	78.797	1.00	0.73	C
ATOM	1214	C	MET	A	160	123.617	125.526	78.840	1.00	0.73	C
ATOM	1215	O	MET	A	160	123.312	126.093	79.889	1.00	0.73	O
ATOM	1216	CB	MET	A	160	124.861	123.459	79.608	1.00	0.73	C
ATOM	1217	CG	MET	A	160	123.829	122.450	79.063	1.00	0.73	C
ATOM	1218	SD	MET	A	160	123.717	120.892	79.994	1.00	0.73	S
ATOM	1219	CE	MET	A	160	125.326	120.234	79.479	1.00	0.73	C
ATOM	1220	N	PRO	A	161	122.754	125.568	77.796	1.00	0.77	N
ATOM	1221	CA	PRO	A	161	121.548	126.416	77.766	1.00	0.77	C
ATOM	1222	C	PRO	A	161	120.534	126.238	78.901	1.00	0.77	C
ATOM	1223	O	PRO	A	161	120.327	127.156	79.697	1.00	0.77	O
ATOM	1224	CB	PRO	A	161	120.898	126.110	76.398	1.00	0.77	C

ATOM	1225	CG	PRO	A	161	122.058	125.656	75.506	1.00	0.77	C
ATOM	1226	CD	PRO	A	161	123.028	124.979	76.477	1.00	0.77	C
ATOM	1227	N	ASP	A	162	119.906	125.051	79.009	1.00	0.79	N
ATOM	1228	CA	ASP	A	162	118.845	124.753	79.954	1.00	0.79	C
ATOM	1229	C	ASP	A	162	119.250	123.536	80.781	1.00	0.79	C
ATOM	1230	O	ASP	A	162	118.516	122.552	80.907	1.00	0.79	O
ATOM	1231	CB	ASP	A	162	117.496	124.451	79.234	1.00	0.79	C
ATOM	1232	CG	ASP	A	162	116.772	125.711	78.804	1.00	0.79	C
ATOM	1233	OD1	ASP	A	162	116.619	126.598	79.680	1.00	0.79	O
ATOM	1234	OD2	ASP	A	162	116.244	125.751	77.668	1.00	0.79	O
ATOM	1235	N	ALA	A	163	120.457	123.569	81.377	1.00	0.85	N
ATOM	1236	CA	ALA	A	163	120.961	122.504	82.223	1.00	0.85	C
ATOM	1237	C	ALA	A	163	120.093	122.197	83.443	1.00	0.85	C
ATOM	1238	O	ALA	A	163	119.663	123.100	84.151	1.00	0.85	O
ATOM	1239	CB	ALA	A	163	122.364	122.884	82.739	1.00	0.85	C
ATOM	1240	N	SER	A	164	119.836	120.909	83.737	1.00	0.86	N
ATOM	1241	CA	SER	A	164	119.364	120.491	85.052	1.00	0.86	C
ATOM	1242	C	SER	A	164	120.234	119.316	85.423	1.00	0.86	C
ATOM	1243	O	SER	A	164	120.146	118.245	84.819	1.00	0.86	O
ATOM	1244	CB	SER	A	164	117.865	120.085	85.099	1.00	0.86	C
ATOM	1245	OG	SER	A	164	117.479	119.668	86.413	1.00	0.86	O
ATOM	1246	N	ILE	A	165	121.162	119.525	86.373	1.00	0.86	N
ATOM	1247	CA	ILE	A	165	122.206	118.564	86.677	1.00	0.86	C
ATOM	1248	C	ILE	A	165	122.227	118.321	88.173	1.00	0.86	C
ATOM	1249	O	ILE	A	165	122.267	119.250	88.980	1.00	0.86	O
ATOM	1250	CB	ILE	A	165	123.584	119.042	86.209	1.00	0.86	C
ATOM	1251	CG1	ILE	A	165	123.604	119.339	84.688	1.00	0.86	C
ATOM	1252	CG2	ILE	A	165	124.655	117.980	86.553	1.00	0.86	C
ATOM	1253	CD1	ILE	A	165	124.785	120.218	84.265	1.00	0.86	C
ATOM	1254	N	TYR	A	166	122.214	117.044	88.590	1.00	0.84	N
ATOM	1255	CA	TYR	A	166	122.245	116.662	89.984	1.00	0.84	C
ATOM	1256	C	TYR	A	166	123.527	115.874	90.249	1.00	0.84	C
ATOM	1257	O	TYR	A	166	123.959	115.041	89.451	1.00	0.84	O
ATOM	1258	CB	TYR	A	166	120.952	115.874	90.355	1.00	0.84	C
ATOM	1259	CG	TYR	A	166	120.977	115.391	91.782	1.00	0.84	C
ATOM	1260	CD1	TYR	A	166	121.274	114.046	92.042	1.00	0.84	C
ATOM	1261	CD2	TYR	A	166	120.864	116.284	92.861	1.00	0.84	C
ATOM	1262	CE1	TYR	A	166	121.517	113.611	93.348	1.00	0.84	C
ATOM	1263	CE2	TYR	A	166	121.091	115.844	94.176	1.00	0.84	C
ATOM	1264	CZ	TYR	A	166	121.426	114.506	94.415	1.00	0.84	C
ATOM	1265	OH	TYR	A	166	121.766	114.044	95.700	1.00	0.84	O
ATOM	1266	N	PHE	A	167	124.181	116.148	91.394	1.00	0.86	N
ATOM	1267	CA	PHE	A	167	125.395	115.472	91.800	1.00	0.86	C
ATOM	1268	C	PHE	A	167	125.168	114.773	93.130	1.00	0.86	C
ATOM	1269	O	PHE	A	167	124.691	115.379	94.089	1.00	0.86	O
ATOM	1270	CB	PHE	A	167	126.562	116.486	91.934	1.00	0.86	C
ATOM	1271	CG	PHE	A	167	127.870	115.749	92.010	1.00	0.86	C
ATOM	1272	CD1	PHE	A	167	128.452	115.409	93.243	1.00	0.86	C
ATOM	1273	CD2	PHE	A	167	128.475	115.308	90.826	1.00	0.86	C
ATOM	1274	CE1	PHE	A	167	129.613	114.626	93.283	1.00	0.86	C
ATOM	1275	CE2	PHE	A	167	129.642	114.538	90.861	1.00	0.86	C
ATOM	1276	CZ	PHE	A	167	130.202	114.185	92.093	1.00	0.86	C
ATOM	1277	N	GLY	A	168	125.528	113.475	93.220	1.00	0.89	N
ATOM	1278	CA	GLY	A	168	125.337	112.688	94.430	1.00	0.89	C
ATOM	1279	C	GLY	A	168	126.565	111.918	94.834	1.00	0.89	C
ATOM	1280	O	GLY	A	168	127.418	111.579	94.020	1.00	0.89	O
ATOM	1281	N	ILE	A	169	126.679	111.609	96.137	1.00	0.88	N
ATOM	1282	CA	ILE	A	169	127.807	110.889	96.711	1.00	0.88	C
ATOM	1283	C	ILE	A	169	127.240	109.884	97.690	1.00	0.88	C
ATOM	1284	O	ILE	A	169	126.429	110.229	98.548	1.00	0.88	O
ATOM	1285	CB	ILE	A	169	128.795	111.789	97.468	1.00	0.88	C
ATOM	1286	CG1	ILE	A	169	129.394	112.873	96.543	1.00	0.88	C
ATOM	1287	CG2	ILE	A	169	129.924	110.935	98.100	1.00	0.88	C
ATOM	1288	CD1	ILE	A	169	130.156	113.974	97.291	1.00	0.88	C
ATOM	1289	N	ILE	A	170	127.665	108.608	97.595	1.00	0.88	N

ATOM	1290	CA	ILE	A	170	127.236	107.565	98.515	1.00	0.88	C
ATOM	1291	C	ILE	A	170	128.451	107.104	99.306	1.00	0.88	C
ATOM	1292	O	ILE	A	170	129.394	106.569	98.724	1.00	0.88	O
ATOM	1293	CB	ILE	A	170	126.679	106.333	97.790	1.00	0.88	C
ATOM	1294	CG1	ILE	A	170	125.696	106.668	96.636	1.00	0.88	C
ATOM	1295	CG2	ILE	A	170	126.055	105.351	98.809	1.00	0.88	C
ATOM	1296	CD1	ILE	A	170	124.410	107.382	97.046	1.00	0.88	C
ATOM	1297	N	VAL	A	171	128.476	107.273	100.647	1.00	0.89	N
ATOM	1298	CA	VAL	A	171	129.536	106.703	101.477	1.00	0.89	C
ATOM	1299	C	VAL	A	171	128.948	105.758	102.508	1.00	0.89	C
ATOM	1300	O	VAL	A	171	127.968	106.063	103.188	1.00	0.89	O
ATOM	1301	CB	VAL	A	171	130.481	107.732	102.108	1.00	0.89	C
ATOM	1302	CG1	VAL	A	171	129.745	108.767	102.958	1.00	0.89	C
ATOM	1303	CG2	VAL	A	171	131.564	107.040	102.965	1.00	0.89	C
ATOM	1304	N	VAL	A	172	129.531	104.546	102.615	1.00	0.87	N
ATOM	1305	CA	VAL	A	172	129.066	103.495	103.504	1.00	0.87	C
ATOM	1306	C	VAL	A	172	130.148	103.096	104.499	1.00	0.87	C
ATOM	1307	O	VAL	A	172	131.348	103.159	104.215	1.00	0.87	O
ATOM	1308	CB	VAL	A	172	128.577	102.251	102.749	1.00	0.87	C
ATOM	1309	CG1	VAL	A	172	127.543	102.661	101.680	1.00	0.87	C
ATOM	1310	CG2	VAL	A	172	129.738	101.497	102.072	1.00	0.87	C
ATOM	1311	N	SER	A	173	129.731	102.665	105.704	1.00	0.85	N
ATOM	1312	CA	SER	A	173	130.590	102.058	106.705	1.00	0.85	C
ATOM	1313	C	SER	A	173	129.782	101.005	107.444	1.00	0.85	C
ATOM	1314	O	SER	A	173	128.619	100.760	107.135	1.00	0.85	O
ATOM	1315	CB	SER	A	173	131.254	103.060	107.701	1.00	0.85	C
ATOM	1316	OG	SER	A	173	130.367	103.569	108.707	1.00	0.85	O
ATOM	1317	N	ALA	A	174	130.384	100.306	108.430	1.00	0.82	N
ATOM	1318	CA	ALA	A	174	129.687	99.313	109.231	1.00	0.82	C
ATOM	1319	C	ALA	A	174	128.699	99.920	110.235	1.00	0.82	C
ATOM	1320	O	ALA	A	174	127.721	99.280	110.638	1.00	0.82	O
ATOM	1321	CB	ALA	A	174	130.732	98.465	109.984	1.00	0.82	C
ATOM	1322	N	SER	A	175	128.966	101.181	110.647	1.00	0.77	N
ATOM	1323	CA	SER	A	175	128.140	101.984	111.540	1.00	0.77	C
ATOM	1324	C	SER	A	175	126.944	102.605	110.847	1.00	0.77	C
ATOM	1325	O	SER	A	175	125.848	102.652	111.406	1.00	0.77	O
ATOM	1326	CB	SER	A	175	128.922	103.159	112.198	1.00	0.77	C
ATOM	1327	OG	SER	A	175	129.942	102.671	113.068	1.00	0.77	O
ATOM	1328	N	GLY	A	176	127.125	103.132	109.617	1.00	0.85	N
ATOM	1329	CA	GLY	A	176	126.063	103.872	108.954	1.00	0.85	C
ATOM	1330	C	GLY	A	176	126.379	104.223	107.529	1.00	0.85	C
ATOM	1331	O	GLY	A	176	127.447	103.932	107.000	1.00	0.85	O
ATOM	1332	N	VAL	A	177	125.415	104.879	106.869	1.00	0.89	N
ATOM	1333	CA	VAL	A	177	125.503	105.321	105.489	1.00	0.89	C
ATOM	1334	C	VAL	A	177	125.207	106.811	105.449	1.00	0.89	C
ATOM	1335	O	VAL	A	177	124.298	107.296	106.121	1.00	0.89	O
ATOM	1336	CB	VAL	A	177	124.528	104.547	104.596	1.00	0.89	C
ATOM	1337	CG1	VAL	A	177	124.499	105.096	103.153	1.00	0.89	C
ATOM	1338	CG2	VAL	A	177	124.940	103.060	104.582	1.00	0.89	C
ATOM	1339	N	LEU	A	178	125.981	107.585	104.664	1.00	0.86	N
ATOM	1340	CA	LEU	A	178	125.753	109.002	104.444	1.00	0.86	C
ATOM	1341	C	LEU	A	178	125.552	109.212	102.951	1.00	0.86	C
ATOM	1342	O	LEU	A	178	126.384	108.837	102.123	1.00	0.86	O
ATOM	1343	CB	LEU	A	178	126.946	109.829	104.986	1.00	0.86	C
ATOM	1344	CG	LEU	A	178	126.893	111.358	104.819	1.00	0.86	C
ATOM	1345	CD1	LEU	A	178	125.862	111.954	105.773	1.00	0.86	C
ATOM	1346	CD2	LEU	A	178	128.254	111.989	105.145	1.00	0.86	C
ATOM	1347	N	THR	A	179	124.392	109.773	102.561	1.00	0.86	N
ATOM	1348	CA	THR	A	179	124.028	109.932	101.157	1.00	0.86	C
ATOM	1349	C	THR	A	179	123.104	111.118	101.001	1.00	0.86	C
ATOM	1350	O	THR	A	179	122.273	111.410	101.851	1.00	0.86	O
ATOM	1351	CB	THR	A	179	123.388	108.678	100.533	1.00	0.86	C
ATOM	1352	OG1	THR	A	179	122.835	108.903	99.243	1.00	0.86	O
ATOM	1353	CG2	THR	A	179	122.237	108.133	101.377	1.00	0.86	C
ATOM	1354	N	ASN	A	180	123.210	111.836	99.872	1.00	0.84	N



ATOM	1355	CA	ASN	A	180	122.360	112.959	99.516	1.00	0.84	C
ATOM	1356	C	ASN	A	180	121.230	112.545	98.576	1.00	0.84	C
ATOM	1357	O	ASN	A	180	120.464	113.375	98.076	1.00	0.84	O
ATOM	1358	CB	ASN	A	180	123.201	114.139	98.936	1.00	0.84	C
ATOM	1359	CG	ASN	A	180	124.213	113.742	97.867	1.00	0.84	C
ATOM	1360	OD1	ASN	A	180	124.442	112.578	97.537	1.00	0.84	O
ATOM	1361	ND2	ASN	A	180	124.917	114.759	97.319	1.00	0.84	N
ATOM	1362	N	MET	A	181	121.089	111.227	98.347	1.00	0.80	N
ATOM	1363	CA	MET	A	181	120.039	110.621	97.561	1.00	0.80	C
ATOM	1364	C	MET	A	181	119.152	109.815	98.501	1.00	0.80	C
ATOM	1365	O	MET	A	181	119.644	108.844	99.083	1.00	0.80	O
ATOM	1366	CB	MET	A	181	120.623	109.664	96.500	1.00	0.80	C
ATOM	1367	CG	MET	A	181	121.645	110.360	95.590	1.00	0.80	C
ATOM	1368	SD	MET	A	181	122.289	109.275	94.294	1.00	0.80	S
ATOM	1369	CE	MET	A	181	121.000	109.627	93.064	1.00	0.80	C
ATOM	1370	N	PRO	A	182	117.880	110.153	98.714	1.00	0.80	N
ATOM	1371	CA	PRO	A	182	117.052	109.434	99.679	1.00	0.80	C
ATOM	1372	C	PRO	A	182	116.700	108.028	99.241	1.00	0.80	C
ATOM	1373	O	PRO	A	182	116.531	107.783	98.049	1.00	0.80	O
ATOM	1374	CB	PRO	A	182	115.801	110.308	99.802	1.00	0.80	C
ATOM	1375	CG	PRO	A	182	116.341	111.716	99.570	1.00	0.80	C
ATOM	1376	CD	PRO	A	182	117.329	111.483	98.432	1.00	0.80	C
ATOM	1377	N	LEU	A	183	116.619	107.082	100.191	1.00	0.72	N
ATOM	1378	CA	LEU	A	183	116.500	105.664	99.900	1.00	0.72	C
ATOM	1379	C	LEU	A	183	115.208	105.099	100.497	1.00	0.72	C
ATOM	1380	O	LEU	A	183	114.135	105.691	100.371	1.00	0.72	O
ATOM	1381	CB	LEU	A	183	117.756	104.912	100.431	1.00	0.72	C
ATOM	1382	CG	LEU	A	183	119.116	105.473	99.949	1.00	0.72	C
ATOM	1383	CD1	LEU	A	183	120.270	104.718	100.628	1.00	0.72	C
ATOM	1384	CD2	LEU	A	183	119.260	105.412	98.421	1.00	0.72	C
ATOM	1385	N	THR	A	184	115.294	103.918	101.138	1.00	0.76	N
ATOM	1386	CA	THR	A	184	114.401	103.379	102.163	1.00	0.76	C
ATOM	1387	C	THR	A	184	115.386	102.617	103.067	1.00	0.76	C
ATOM	1388	O	THR	A	184	116.519	102.353	102.663	1.00	0.76	O
ATOM	1389	CB	THR	A	184	113.185	102.576	101.660	1.00	0.76	C
ATOM	1390	OG1	THR	A	184	112.178	103.458	101.180	1.00	0.76	O
ATOM	1391	CG2	THR	A	184	112.499	101.735	102.750	1.00	0.76	C
ATOM	1392	N	GLN	A	185	115.065	102.344	104.360	1.00	0.77	N
ATOM	1393	CA	GLN	A	185	115.995	101.777	105.344	1.00	0.77	C
ATOM	1394	C	GLN	A	185	116.505	100.373	105.008	1.00	0.77	C
ATOM	1395	O	GLN	A	185	117.641	100.017	105.317	1.00	0.77	O
ATOM	1396	CB	GLN	A	185	115.381	101.768	106.775	1.00	0.77	C
ATOM	1397	CG	GLN	A	185	116.435	101.855	107.920	1.00	0.77	C
ATOM	1398	CD	GLN	A	185	116.908	103.296	108.163	1.00	0.77	C
ATOM	1399	OE1	GLN	A	185	116.474	104.239	107.504	1.00	0.77	O
ATOM	1400	NE2	GLN	A	185	117.804	103.497	109.154	1.00	0.77	N
ATOM	1401	N	ASP	A	186	115.657	99.560	104.347	1.00	0.84	N
ATOM	1402	CA	ASP	A	186	115.919	98.208	103.881	1.00	0.84	C
ATOM	1403	C	ASP	A	186	117.096	98.200	102.866	1.00	0.84	C
ATOM	1404	O	ASP	A	186	118.042	97.419	102.982	1.00	0.84	O
ATOM	1405	CB	ASP	A	186	114.554	97.667	103.330	1.00	0.84	C
ATOM	1406	CG	ASP	A	186	114.166	96.258	103.795	1.00	0.84	C
ATOM	1407	OD1	ASP	A	186	113.603	96.098	104.921	1.00	0.84	O
ATOM	1408	OD2	ASP	A	186	114.341	95.323	102.979	1.00	0.84	O
ATOM	1409	N	GLU	A	187	117.144	99.165	101.906	1.00	0.81	N
ATOM	1410	CA	GLU	A	187	118.296	99.416	101.041	1.00	0.81	C
ATOM	1411	C	GLU	A	187	119.584	99.783	101.783	1.00	0.81	C
ATOM	1412	O	GLU	A	187	120.672	99.318	101.439	1.00	0.81	O
ATOM	1413	CB	GLU	A	187	118.048	100.565	100.011	1.00	0.81	C
ATOM	1414	CG	GLU	A	187	116.922	100.325	98.966	1.00	0.81	C
ATOM	1415	CD	GLU	A	187	115.572	100.887	99.393	1.00	0.81	C
ATOM	1416	OE1	GLU	A	187	115.012	101.771	98.677	1.00	0.81	O
ATOM	1417	OE2	GLU	A	187	115.089	100.428	100.457	1.00	0.81	O
ATOM	1418	N	ALA	A	188	119.500	100.634	102.831	1.00	0.89	N
ATOM	1419	CA	ALA	A	188	120.633	100.995	103.669	1.00	0.89	C

ATOM	1420	C	ALA	A	188	121.208	99.797	104.421	1.00	0.89	C
ATOM	1421	O	ALA	A	188	122.423	99.614	104.504	1.00	0.89	O
ATOM	1422	CB	ALA	A	188	120.236	102.104	104.669	1.00	0.89	C
ATOM	1423	N	GLU	A	189	120.330	98.928	104.955	1.00	0.82	N
ATOM	1424	CA	GLU	A	189	120.707	97.676	105.581	1.00	0.82	C
ATOM	1425	C	GLU	A	189	121.355	96.675	104.631	1.00	0.82	C
ATOM	1426	O	GLU	A	189	122.399	96.102	104.955	1.00	0.82	O
ATOM	1427	CB	GLU	A	189	119.498	97.056	106.302	1.00	0.82	C
ATOM	1428	CG	GLU	A	189	119.866	95.787	107.099	1.00	0.82	C
ATOM	1429	CD	GLU	A	189	118.817	95.452	108.145	1.00	0.82	C
ATOM	1430	OE1	GLU	A	189	117.602	95.584	107.870	1.00	0.82	O
ATOM	1431	OE2	GLU	A	189	119.248	95.074	109.263	1.00	0.82	O
ATOM	1432	N	GLU	A	190	120.811	96.504	103.399	1.00	0.81	N
ATOM	1433	CA	GLU	A	190	121.440	95.708	102.345	1.00	0.81	C
ATOM	1434	C	GLU	A	190	122.846	96.178	102.019	1.00	0.81	C
ATOM	1435	O	GLU	A	190	123.782	95.385	101.959	1.00	0.81	O
ATOM	1436	CB	GLU	A	190	120.602	95.681	101.036	1.00	0.81	C
ATOM	1437	CG	GLU	A	190	119.628	94.472	100.955	1.00	0.81	C
ATOM	1438	CD	GLU	A	190	120.129	93.186	100.291	1.00	0.81	C
ATOM	1439	OE1	GLU	A	190	119.361	92.187	100.301	1.00	0.81	O
ATOM	1440	OE2	GLU	A	190	121.253	93.108	99.723	1.00	0.81	O
ATOM	1441	N	LEU	A	191	123.061	97.498	101.866	1.00	0.86	N
ATOM	1442	CA	LEU	A	191	124.395	98.041	101.683	1.00	0.86	C
ATOM	1443	C	LEU	A	191	125.337	97.812	102.862	1.00	0.86	C
ATOM	1444	O	LEU	A	191	126.480	97.401	102.666	1.00	0.86	O
ATOM	1445	CB	LEU	A	191	124.339	99.555	101.377	1.00	0.86	C
ATOM	1446	CG	LEU	A	191	123.805	99.910	99.974	1.00	0.86	C
ATOM	1447	CD1	LEU	A	191	123.664	101.434	99.848	1.00	0.86	C
ATOM	1448	CD2	LEU	A	191	124.718	99.384	98.855	1.00	0.86	C
ATOM	1449	N	MET	A	192	124.891	98.034	104.119	1.00	0.82	N
ATOM	1450	CA	MET	A	192	125.732	97.814	105.287	1.00	0.82	C
ATOM	1451	C	MET	A	192	126.165	96.370	105.497	1.00	0.82	C
ATOM	1452	O	MET	A	192	127.338	96.109	105.754	1.00	0.82	O
ATOM	1453	CB	MET	A	192	125.083	98.321	106.599	1.00	0.82	C
ATOM	1454	CG	MET	A	192	125.107	99.855	106.732	1.00	0.82	C
ATOM	1455	SD	MET	A	192	124.597	100.455	108.373	1.00	0.82	S
ATOM	1456	CE	MET	A	192	122.817	100.219	108.124	1.00	0.82	C
ATOM	1457	N	PHE	A	193	125.261	95.369	105.374	1.00	0.82	N
ATOM	1458	CA	PHE	A	193	125.681	93.977	105.507	1.00	0.82	C
ATOM	1459	C	PHE	A	193	126.592	93.512	104.364	1.00	0.82	C
ATOM	1460	O	PHE	A	193	127.573	92.809	104.601	1.00	0.82	O
ATOM	1461	CB	PHE	A	193	124.526	92.990	105.879	1.00	0.82	C
ATOM	1462	CG	PHE	A	193	123.992	92.181	104.730	1.00	0.82	C
ATOM	1463	CD1	PHE	A	193	122.898	92.660	104.011	1.00	0.82	C
ATOM	1464	CD2	PHE	A	193	124.608	90.981	104.323	1.00	0.82	C
ATOM	1465	CE1	PHE	A	193	122.449	91.986	102.872	1.00	0.82	C
ATOM	1466	CE2	PHE	A	193	124.133	90.279	103.207	1.00	0.82	C
ATOM	1467	CZ	PHE	A	193	123.057	90.791	102.475	1.00	0.82	C
ATOM	1468	N	ARG	A	194	126.312	93.931	103.104	1.00	0.78	N
ATOM	1469	CA	ARG	A	194	127.170	93.664	101.957	1.00	0.78	C
ATOM	1470	C	ARG	A	194	128.562	94.259	102.130	1.00	0.78	C
ATOM	1471	O	ARG	A	194	129.557	93.594	101.855	1.00	0.78	O
ATOM	1472	CB	ARG	A	194	126.580	94.236	100.642	1.00	0.78	C
ATOM	1473	CG	ARG	A	194	125.354	93.496	100.061	1.00	0.78	C
ATOM	1474	CD	ARG	A	194	124.771	94.290	98.879	1.00	0.78	C
ATOM	1475	NE	ARG	A	194	123.526	93.619	98.373	1.00	0.78	N
ATOM	1476	CZ	ARG	A	194	123.169	93.555	97.083	1.00	0.78	C
ATOM	1477	NH1	ARG	A	194	123.806	94.229	96.130	1.00	0.78	N
ATOM	1478	NH2	ARG	A	194	122.136	92.793	96.741	1.00	0.78	N
ATOM	1479	N	PHE	A	195	128.663	95.508	102.643	1.00	0.85	N
ATOM	1480	CA	PHE	A	195	129.924	96.128	103.018	1.00	0.85	C
ATOM	1481	C	PHE	A	195	130.655	95.347	104.112	1.00	0.85	C
ATOM	1482	O	PHE	A	195	131.855	95.116	104.008	1.00	0.85	O
ATOM	1483	CB	PHE	A	195	129.710	97.618	103.440	1.00	0.85	C
ATOM	1484	CG	PHE	A	195	130.978	98.246	103.975	1.00	0.85	C

ATOM	1485	CD1	PHE	A	195	132.084	98.471	103.137	1.00	0.85	C
ATOM	1486	CD2	PHE	A	195	131.118	98.460	105.357	1.00	0.85	C
ATOM	1487	CE1	PHE	A	195	133.304	98.908	103.672	1.00	0.85	C
ATOM	1488	CE2	PHE	A	195	132.341	98.882	105.894	1.00	0.85	C
ATOM	1489	CZ	PHE	A	195	133.429	99.122	105.049	1.00	0.85	C
ATOM	1490	N	CYS	A	196	129.965	94.886	105.176	1.00	0.81	N
ATOM	1491	CA	CYS	A	196	130.589	94.079	106.217	1.00	0.81	C
ATOM	1492	C	CYS	A	196	131.150	92.754	105.707	1.00	0.81	C
ATOM	1493	O	CYS	A	196	132.271	92.385	106.049	1.00	0.81	O
ATOM	1494	CB	CYS	A	196	129.621	93.811	107.399	1.00	0.81	C
ATOM	1495	SG	CYS	A	196	129.264	95.326	108.353	1.00	0.81	S
ATOM	1496	N	VAL	A	197	130.415	92.029	104.835	1.00	0.79	N
ATOM	1497	CA	VAL	A	197	130.923	90.835	104.158	1.00	0.79	C
ATOM	1498	C	VAL	A	197	132.095	91.148	103.226	1.00	0.79	C
ATOM	1499	O	VAL	A	197	133.129	90.483	103.257	1.00	0.79	O
ATOM	1500	CB	VAL	A	197	129.813	90.112	103.386	1.00	0.79	C
ATOM	1501	CG1	VAL	A	197	130.363	88.892	102.613	1.00	0.79	C
ATOM	1502	CG2	VAL	A	197	128.739	89.632	104.384	1.00	0.79	C
ATOM	1503	N	ALA	A	198	131.987	92.214	102.404	1.00	0.83	N
ATOM	1504	CA	ALA	A	198	133.029	92.658	101.497	1.00	0.83	C
ATOM	1505	C	ALA	A	198	134.309	93.120	102.195	1.00	0.83	C
ATOM	1506	O	ALA	A	198	135.422	92.837	101.754	1.00	0.83	O
ATOM	1507	CB	ALA	A	198	132.482	93.777	100.590	1.00	0.83	C
ATOM	1508	N	ASN	A	199	134.185	93.844	103.325	1.00	0.76	N
ATOM	1509	CA	ASN	A	199	135.292	94.238	104.172	1.00	0.76	C
ATOM	1510	C	ASN	A	199	135.991	93.054	104.833	1.00	0.76	C
ATOM	1511	O	ASN	A	199	137.218	93.035	104.927	1.00	0.76	O
ATOM	1512	CB	ASN	A	199	134.823	95.264	105.243	1.00	0.76	C
ATOM	1513	CG	ASN	A	199	136.004	96.011	105.850	1.00	0.76	C
ATOM	1514	OD1	ASN	A	199	136.334	95.920	107.031	1.00	0.76	O
ATOM	1515	ND2	ASN	A	199	136.703	96.797	104.998	1.00	0.76	N
ATOM	1516	N	GLU	A	200	135.227	92.047	105.303	1.00	0.71	N
ATOM	1517	CA	GLU	A	200	135.773	90.845	105.910	1.00	0.71	C
ATOM	1518	C	GLU	A	200	136.607	90.012	104.943	1.00	0.71	C
ATOM	1519	O	GLU	A	200	137.780	89.747	105.202	1.00	0.71	O
ATOM	1520	CB	GLU	A	200	134.623	90.024	106.540	1.00	0.71	C
ATOM	1521	CG	GLU	A	200	135.067	88.995	107.611	1.00	0.71	C
ATOM	1522	CD	GLU	A	200	135.563	87.647	107.090	1.00	0.71	C
ATOM	1523	OE1	GLU	A	200	136.105	86.901	107.947	1.00	0.71	O
ATOM	1524	OE2	GLU	A	200	135.388	87.338	105.886	1.00	0.71	O
ATOM	1525	N	ILE	A	201	136.083	89.702	103.732	1.00	0.73	N
ATOM	1526	CA	ILE	A	201	136.841	88.978	102.711	1.00	0.73	C
ATOM	1527	C	ILE	A	201	138.077	89.744	102.251	1.00	0.73	C
ATOM	1528	O	ILE	A	201	139.148	89.175	102.056	1.00	0.73	O
ATOM	1529	CB	ILE	A	201	135.989	88.501	101.525	1.00	0.73	C
ATOM	1530	CG1	ILE	A	201	136.795	87.586	100.564	1.00	0.73	C
ATOM	1531	CG2	ILE	A	201	135.343	89.689	100.782	1.00	0.73	C
ATOM	1532	CD1	ILE	A	201	135.957	86.978	99.432	1.00	0.73	C
ATOM	1533	N	TYR	A	202	137.983	91.086	102.122	1.00	0.69	N
ATOM	1534	CA	TYR	A	202	139.114	91.951	101.841	1.00	0.69	C
ATOM	1535	C	TYR	A	202	140.201	91.896	102.924	1.00	0.69	C
ATOM	1536	O	TYR	A	202	141.391	91.789	102.629	1.00	0.69	O
ATOM	1537	CB	TYR	A	202	138.577	93.403	101.674	1.00	0.69	C
ATOM	1538	CG	TYR	A	202	139.650	94.388	101.307	1.00	0.69	C
ATOM	1539	CD1	TYR	A	202	140.355	95.084	102.306	1.00	0.69	C
ATOM	1540	CD2	TYR	A	202	139.985	94.597	99.962	1.00	0.69	C
ATOM	1541	CE1	TYR	A	202	141.388	95.967	101.963	1.00	0.69	C
ATOM	1542	CE2	TYR	A	202	141.001	95.499	99.621	1.00	0.69	C
ATOM	1543	CZ	TYR	A	202	141.700	96.183	100.618	1.00	0.69	C
ATOM	1544	OH	TYR	A	202	142.705	97.104	100.273	1.00	0.69	O
ATOM	1545	N	SER	A	203	139.825	91.958	104.221	1.00	0.66	N
ATOM	1546	CA	SER	A	203	140.778	91.855	105.321	1.00	0.66	C
ATOM	1547	C	SER	A	203	141.388	90.472	105.471	1.00	0.66	C
ATOM	1548	O	SER	A	203	142.594	90.342	105.665	1.00	0.66	O
ATOM	1549	CB	SER	A	203	140.261	92.403	106.683	1.00	0.66	C

ATOM	1550	OG	SER	A	203	139.285	91.568	107.305	1.00	0.66	O
ATOM	1551	N	GLN	A	204	140.605	89.388	105.303	1.00	0.63	N
ATOM	1552	CA	GLN	A	204	141.111	88.022	105.343	1.00	0.63	C
ATOM	1553	C	GLN	A	204	141.981	87.665	104.140	1.00	0.63	C
ATOM	1554	O	GLN	A	204	142.797	86.749	104.190	1.00	0.63	O
ATOM	1555	CB	GLN	A	204	139.958	86.994	105.470	1.00	0.63	C
ATOM	1556	CG	GLN	A	204	139.127	87.120	106.769	1.00	0.63	C
ATOM	1557	CD	GLN	A	204	139.997	87.097	108.024	1.00	0.63	C
ATOM	1558	OE1	GLN	A	204	140.805	86.199	108.264	1.00	0.63	O
ATOM	1559	NE2	GLN	A	204	139.864	88.153	108.860	1.00	0.63	N
ATOM	1560	N	ALA	A	205	141.891	88.438	103.041	1.00	0.69	N
ATOM	1561	CA	ALA	A	205	142.728	88.259	101.874	1.00	0.69	C
ATOM	1562	C	ALA	A	205	144.031	89.057	101.945	1.00	0.69	C
ATOM	1563	O	ALA	A	205	144.851	89.002	101.030	1.00	0.69	O
ATOM	1564	CB	ALA	A	205	141.940	88.716	100.631	1.00	0.69	C
ATOM	1565	N	ARG	A	206	144.275	89.802	103.046	1.00	0.55	N
ATOM	1566	CA	ARG	A	206	145.504	90.567	103.216	1.00	0.55	C
ATOM	1567	C	ARG	A	206	146.063	90.520	104.631	1.00	0.55	C
ATOM	1568	O	ARG	A	206	147.187	90.959	104.850	1.00	0.55	O
ATOM	1569	CB	ARG	A	206	145.290	92.068	102.861	1.00	0.55	C
ATOM	1570	CG	ARG	A	206	145.125	92.367	101.354	1.00	0.55	C
ATOM	1571	CD	ARG	A	206	146.349	92.051	100.470	1.00	0.55	C
ATOM	1572	NE	ARG	A	206	147.546	92.855	100.919	1.00	0.55	N
ATOM	1573	CZ	ARG	A	206	147.765	94.154	100.650	1.00	0.55	C
ATOM	1574	NH1	ARG	A	206	146.881	94.907	100.009	1.00	0.55	N
ATOM	1575	NH2	ARG	A	206	148.903	94.728	101.031	1.00	0.55	N
ATOM	1576	N	ALA	A	207	145.337	89.978	105.630	1.00	0.54	N
ATOM	1577	CA	ALA	A	207	145.801	89.850	107.002	1.00	0.54	C
ATOM	1578	C	ALA	A	207	146.331	91.145	107.639	1.00	0.54	C
ATOM	1579	O	ALA	A	207	145.586	92.096	107.875	1.00	0.54	O
ATOM	1580	CB	ALA	A	207	146.775	88.656	107.139	1.00	0.54	C
ATOM	1581	N	MET	A	208	147.646	91.204	107.930	1.00	0.34	N
ATOM	1582	CA	MET	A	208	148.284	92.335	108.579	1.00	0.34	C
ATOM	1583	C	MET	A	208	148.835	93.336	107.576	1.00	0.34	C
ATOM	1584	O	MET	A	208	149.315	94.401	107.957	1.00	0.34	O
ATOM	1585	CB	MET	A	208	149.440	91.857	109.496	1.00	0.34	C
ATOM	1586	CG	MET	A	208	148.959	91.097	110.750	1.00	0.34	C
ATOM	1587	SD	MET	A	208	147.853	92.051	111.844	1.00	0.34	S
ATOM	1588	CE	MET	A	208	149.032	93.344	112.339	1.00	0.34	C
ATOM	1589	N	ASP	A	209	148.683	93.069	106.265	1.00	0.40	N
ATOM	1590	CA	ASP	A	209	149.156	93.938	105.207	1.00	0.40	C
ATOM	1591	C	ASP	A	209	148.049	94.921	104.805	1.00	0.40	C
ATOM	1592	O	ASP	A	209	148.073	95.545	103.746	1.00	0.40	O
ATOM	1593	CB	ASP	A	209	149.510	93.130	103.930	1.00	0.40	C
ATOM	1594	CG	ASP	A	209	150.434	91.935	104.100	1.00	0.40	C
ATOM	1595	OD1	ASP	A	209	151.033	91.725	105.179	1.00	0.40	O
ATOM	1596	OD2	ASP	A	209	150.533	91.221	103.066	1.00	0.40	O
ATOM	1597	N	ALA	A	210	146.995	95.045	105.631	1.00	0.32	N
ATOM	1598	CA	ALA	A	210	145.810	95.812	105.335	1.00	0.32	C
ATOM	1599	C	ALA	A	210	145.968	97.324	105.484	1.00	0.32	C
ATOM	1600	O	ALA	A	210	145.779	97.895	106.555	1.00	0.32	O
ATOM	1601	CB	ALA	A	210	144.667	95.338	106.252	1.00	0.32	C
ATOM	1602	N	GLU	A	211	146.254	98.013	104.369	1.00	0.40	N
ATOM	1603	CA	GLU	A	211	146.444	99.446	104.293	1.00	0.40	C
ATOM	1604	C	GLU	A	211	145.122	100.214	104.215	1.00	0.40	C
ATOM	1605	O	GLU	A	211	144.033	99.639	104.135	1.00	0.40	O
ATOM	1606	CB	GLU	A	211	147.346	99.747	103.070	1.00	0.40	C
ATOM	1607	CG	GLU	A	211	148.737	99.058	103.174	1.00	0.40	C
ATOM	1608	CD	GLU	A	211	149.358	98.647	101.836	1.00	0.40	C
ATOM	1609	OE1	GLU	A	211	148.611	98.498	100.833	1.00	0.40	O
ATOM	1610	OE2	GLU	A	211	150.582	98.361	101.839	1.00	0.40	O
ATOM	1611	N	VAL	A	212	145.178	101.561	104.272	1.00	0.30	N
ATOM	1612	CA	VAL	A	212	144.007	102.421	104.182	1.00	0.30	C
ATOM	1613	C	VAL	A	212	144.111	103.208	102.889	1.00	0.30	C
ATOM	1614	O	VAL	A	212	145.113	103.862	102.622	1.00	0.30	O

ATOM	1615	CB	VAL	A	212	143.871	103.391	105.361	1.00	0.30	C
ATOM	1616	CG1	VAL	A	212	142.626	104.292	105.203	1.00	0.30	C
ATOM	1617	CG2	VAL	A	212	143.762	102.596	106.677	1.00	0.30	C
ATOM	1618	N	GLU	A	213	143.060	103.149	102.044	1.00	0.33	N
ATOM	1619	CA	GLU	A	213	142.965	103.806	100.751	1.00	0.33	C
ATOM	1620	C	GLU	A	213	143.043	105.328	100.816	1.00	0.33	C
ATOM	1621	O	GLU	A	213	143.675	105.992	99.997	1.00	0.33	O
ATOM	1622	CB	GLU	A	213	141.635	103.365	100.105	1.00	0.33	C
ATOM	1623	CG	GLU	A	213	141.547	101.827	99.944	1.00	0.33	C
ATOM	1624	CD	GLU	A	213	140.186	101.346	99.459	1.00	0.33	C
ATOM	1625	OE1	GLU	A	213	139.282	102.181	99.221	1.00	0.33	O
ATOM	1626	OE2	GLU	A	213	140.051	100.098	99.374	1.00	0.33	O
ATOM	1627	N	LEU	A	214	142.411	105.922	101.845	1.00	0.38	N
ATOM	1628	CA	LEU	A	214	142.508	107.334	102.145	1.00	0.38	C
ATOM	1629	C	LEU	A	214	143.744	107.615	102.993	1.00	0.38	C
ATOM	1630	O	LEU	A	214	143.729	107.494	104.218	1.00	0.38	O
ATOM	1631	CB	LEU	A	214	141.246	107.828	102.902	1.00	0.38	C
ATOM	1632	CG	LEU	A	214	139.904	107.563	102.185	1.00	0.38	C
ATOM	1633	CD1	LEU	A	214	138.738	108.042	103.064	1.00	0.38	C
ATOM	1634	CD2	LEU	A	214	139.835	108.230	100.803	1.00	0.38	C
ATOM	1635	N	GLN	A	215	144.860	107.998	102.339	1.00	0.55	N
ATOM	1636	CA	GLN	A	215	146.088	108.422	102.992	1.00	0.55	C
ATOM	1637	C	GLN	A	215	145.900	109.644	103.894	1.00	0.55	C
ATOM	1638	O	GLN	A	215	145.322	110.661	103.519	1.00	0.55	O
ATOM	1639	CB	GLN	A	215	147.187	108.692	101.927	1.00	0.55	C
ATOM	1640	CG	GLN	A	215	148.504	109.353	102.420	1.00	0.55	C
ATOM	1641	CD	GLN	A	215	149.194	108.563	103.532	1.00	0.55	C
ATOM	1642	OE1	GLN	A	215	149.386	107.351	103.454	1.00	0.55	O
ATOM	1643	NE2	GLN	A	215	149.588	109.260	104.623	1.00	0.55	N
ATOM	1644	N	LYS	A	216	146.388	109.553	105.144	1.00	0.61	N
ATOM	1645	CA	LYS	A	216	146.298	110.607	106.131	1.00	0.61	C
ATOM	1646	C	LYS	A	216	147.155	111.839	105.900	1.00	0.61	C
ATOM	1647	O	LYS	A	216	148.239	111.794	105.320	1.00	0.61	O
ATOM	1648	CB	LYS	A	216	146.630	110.068	107.530	1.00	0.61	C
ATOM	1649	CG	LYS	A	216	145.664	108.963	107.955	1.00	0.61	C
ATOM	1650	CD	LYS	A	216	146.064	108.414	109.324	1.00	0.61	C
ATOM	1651	CE	LYS	A	216	145.203	107.235	109.765	1.00	0.61	C
ATOM	1652	NZ	LYS	A	216	145.753	106.672	110.998	1.00	0.61	N
ATOM	1653	N	SER	A	217	146.662	112.982	106.416	1.00	0.67	N
ATOM	1654	CA	SER	A	217	147.368	114.255	106.429	1.00	0.67	C
ATOM	1655	C	SER	A	217	148.502	114.312	107.455	1.00	0.67	C
ATOM	1656	O	SER	A	217	148.543	113.551	108.422	1.00	0.67	O
ATOM	1657	CB	SER	A	217	146.400	115.450	106.646	1.00	0.67	C
ATOM	1658	OG	SER	A	217	147.031	116.698	106.348	1.00	0.67	O
ATOM	1659	N	GLU	A	218	149.459	115.242	107.249	1.00	0.65	N
ATOM	1660	CA	GLU	A	218	150.660	115.436	108.049	1.00	0.65	C
ATOM	1661	C	GLU	A	218	150.374	115.773	109.511	1.00	0.65	C
ATOM	1662	O	GLU	A	218	150.931	115.163	110.423	1.00	0.65	O
ATOM	1663	CB	GLU	A	218	151.545	116.510	107.369	1.00	0.65	C
ATOM	1664	CG	GLU	A	218	153.031	116.524	107.820	1.00	0.65	C
ATOM	1665	CD	GLU	A	218	153.361	117.393	109.038	1.00	0.65	C
ATOM	1666	OE1	GLU	A	218	152.444	118.029	109.610	1.00	0.65	O
ATOM	1667	OE2	GLU	A	218	154.572	117.432	109.376	1.00	0.65	O
ATOM	1668	N	GLU	A	219	149.397	116.671	109.767	1.00	0.69	N
ATOM	1669	CA	GLU	A	219	149.010	117.118	111.094	1.00	0.69	C
ATOM	1670	C	GLU	A	219	148.553	115.966	112.014	1.00	0.69	C
ATOM	1671	O	GLU	A	219	148.933	115.877	113.182	1.00	0.69	O
ATOM	1672	CB	GLU	A	219	147.842	118.148	111.001	1.00	0.69	C
ATOM	1673	CG	GLU	A	219	147.883	119.227	109.869	1.00	0.69	C
ATOM	1674	CD	GLU	A	219	148.728	120.460	110.142	1.00	0.69	C
ATOM	1675	OE1	GLU	A	219	149.324	120.528	111.247	1.00	0.69	O
ATOM	1676	OE2	GLU	A	219	148.719	121.403	109.305	1.00	0.69	O
ATOM	1677	N	GLU	A	220	147.736	115.016	111.482	1.00	0.75	N
ATOM	1678	CA	GLU	A	220	147.384	113.766	112.155	1.00	0.75	C
ATOM	1679	C	GLU	A	220	148.586	112.854	112.367	1.00	0.75	C

ATOM	1680	O	GLU	A	220	148.723	112.234	113.419	1.00	0.75	O
ATOM	1681	CB	GLU	A	220	146.309	112.912	111.413	1.00	0.75	C
ATOM	1682	CG	GLU	A	220	144.861	113.457	111.490	1.00	0.75	C
ATOM	1683	CD	GLU	A	220	143.792	112.395	111.201	1.00	0.75	C
ATOM	1684	OE1	GLU	A	220	144.116	111.276	110.719	1.00	0.75	O
ATOM	1685	OE2	GLU	A	220	142.618	112.602	111.605	1.00	0.75	O
ATOM	1686	N	TYR	A	221	149.471	112.743	111.356	1.00	0.78	N
ATOM	1687	CA	TYR	A	221	150.659	111.905	111.342	1.00	0.78	C
ATOM	1688	C	TYR	A	221	151.701	112.289	112.406	1.00	0.78	C
ATOM	1689	O	TYR	A	221	152.237	111.432	113.109	1.00	0.78	O
ATOM	1690	CB	TYR	A	221	151.240	111.932	109.903	1.00	0.78	C
ATOM	1691	CG	TYR	A	221	152.319	110.912	109.690	1.00	0.78	C
ATOM	1692	CD1	TYR	A	221	153.665	111.309	109.684	1.00	0.78	C
ATOM	1693	CD2	TYR	A	221	152.000	109.561	109.482	1.00	0.78	C
ATOM	1694	CE1	TYR	A	221	154.681	110.368	109.473	1.00	0.78	C
ATOM	1695	CE2	TYR	A	221	153.016	108.617	109.265	1.00	0.78	C
ATOM	1696	CZ	TYR	A	221	154.357	109.026	109.261	1.00	0.78	C
ATOM	1697	OH	TYR	A	221	155.389	108.094	109.040	1.00	0.78	O
ATOM	1698	N	GLU	A	222	151.966	113.595	112.586	1.00	0.78	N
ATOM	1699	CA	GLU	A	222	152.713	114.138	113.713	1.00	0.78	C
ATOM	1700	C	GLU	A	222	151.979	113.948	115.046	1.00	0.78	C
ATOM	1701	O	GLU	A	222	152.540	113.522	116.053	1.00	0.78	O
ATOM	1702	CB	GLU	A	222	153.037	115.625	113.407	1.00	0.78	C
ATOM	1703	CG	GLU	A	222	153.268	116.582	114.608	1.00	0.78	C
ATOM	1704	CD	GLU	A	222	154.388	116.229	115.605	1.00	0.78	C
ATOM	1705	OE1	GLU	A	222	155.343	115.498	115.269	1.00	0.78	O
ATOM	1706	OE2	GLU	A	222	154.290	116.753	116.752	1.00	0.78	O
ATOM	1707	N	ALA	A	223	150.653	114.195	115.106	1.00	0.87	N
ATOM	1708	CA	ALA	A	223	149.890	114.023	116.333	1.00	0.87	C
ATOM	1709	C	ALA	A	223	149.882	112.594	116.894	1.00	0.87	C
ATOM	1710	O	ALA	A	223	150.043	112.383	118.098	1.00	0.87	O
ATOM	1711	CB	ALA	A	223	148.442	114.506	116.121	1.00	0.87	C
ATOM	1712	N	ILE	A	224	149.728	111.571	116.022	1.00	0.85	N
ATOM	1713	CA	ILE	A	224	149.852	110.164	116.391	1.00	0.85	C
ATOM	1714	C	ILE	A	224	151.255	109.779	116.858	1.00	0.85	C
ATOM	1715	O	ILE	A	224	151.400	109.048	117.837	1.00	0.85	O
ATOM	1716	CB	ILE	A	224	149.323	109.198	115.312	1.00	0.85	C
ATOM	1717	CG1	ILE	A	224	149.269	107.730	115.805	1.00	0.85	C
ATOM	1718	CG2	ILE	A	224	150.130	109.308	114.006	1.00	0.85	C
ATOM	1719	CD1	ILE	A	224	148.641	106.749	114.804	1.00	0.85	C
ATOM	1720	N	SER	A	225	152.341	110.262	116.206	1.00	0.85	N
ATOM	1721	CA	SER	A	225	153.714	109.962	116.616	1.00	0.85	C
ATOM	1722	C	SER	A	225	154.048	110.540	117.983	1.00	0.85	C
ATOM	1723	O	SER	A	225	154.569	109.847	118.856	1.00	0.85	O
ATOM	1724	CB	SER	A	225	154.778	110.414	115.567	1.00	0.85	C
ATOM	1725	OG	SER	A	225	154.866	111.834	115.483	1.00	0.85	O
ATOM	1726	N	ARG	A	226	153.662	111.808	118.209	1.00	0.80	N
ATOM	1727	CA	ARG	A	226	153.807	112.550	119.443	1.00	0.80	C
ATOM	1728	C	ARG	A	226	153.090	111.916	120.630	1.00	0.80	C
ATOM	1729	O	ARG	A	226	153.652	111.759	121.715	1.00	0.80	O
ATOM	1730	CB	ARG	A	226	153.199	113.942	119.169	1.00	0.80	C
ATOM	1731	CG	ARG	A	226	153.306	114.986	120.295	1.00	0.80	C
ATOM	1732	CD	ARG	A	226	152.294	116.126	120.118	1.00	0.80	C
ATOM	1733	NE	ARG	A	226	152.529	116.737	118.784	1.00	0.80	N
ATOM	1734	CZ	ARG	A	226	151.755	117.668	118.221	1.00	0.80	C
ATOM	1735	NH1	ARG	A	226	150.517	117.905	118.612	1.00	0.80	N
ATOM	1736	NH2	ARG	A	226	152.240	118.332	117.179	1.00	0.80	N
ATOM	1737	N	ALA	A	227	151.820	111.495	120.443	1.00	0.90	N
ATOM	1738	CA	ALA	A	227	151.075	110.766	121.449	1.00	0.90	C
ATOM	1739	C	ALA	A	227	151.658	109.386	121.738	1.00	0.90	C
ATOM	1740	O	ALA	A	227	151.817	108.998	122.892	1.00	0.90	O
ATOM	1741	CB	ALA	A	227	149.596	110.658	121.030	1.00	0.90	C
ATOM	1742	N	ARG	A	228	152.052	108.620	120.697	1.00	0.79	N
ATOM	1743	CA	ARG	A	228	152.696	107.327	120.875	1.00	0.79	C
ATOM	1744	C	ARG	A	228	154.022	107.399	121.610	1.00	0.79	C

ATOM	1745	O	ARG	A	228	154.285	106.570	122.474	1.00	0.79	O
ATOM	1746	CB	ARG	A	228	152.925	106.602	119.529	1.00	0.79	C
ATOM	1747	CG	ARG	A	228	151.621	106.042	118.935	1.00	0.79	C
ATOM	1748	CD	ARG	A	228	151.746	105.550	117.493	1.00	0.79	C
ATOM	1749	NE	ARG	A	228	152.620	104.336	117.511	1.00	0.79	N
ATOM	1750	CZ	ARG	A	228	153.095	103.743	116.408	1.00	0.79	C
ATOM	1751	NH1	ARG	A	228	152.848	104.231	115.197	1.00	0.79	N
ATOM	1752	NH2	ARG	A	228	153.832	102.640	116.517	1.00	0.79	N
ATOM	1753	N	ALA	A	229	154.867	108.404	121.301	1.00	0.86	N
ATOM	1754	CA	ALA	A	229	156.123	108.644	121.983	1.00	0.86	C
ATOM	1755	C	ALA	A	229	155.950	108.935	123.465	1.00	0.86	C
ATOM	1756	O	ALA	A	229	156.658	108.381	124.297	1.00	0.86	O
ATOM	1757	CB	ALA	A	229	156.863	109.813	121.307	1.00	0.86	C
ATOM	1758	N	PHE	A	230	154.952	109.766	123.843	1.00	0.83	N
ATOM	1759	CA	PHE	A	230	154.588	109.970	125.237	1.00	0.83	C
ATOM	1760	C	PHE	A	230	154.148	108.668	125.915	1.00	0.83	C
ATOM	1761	O	PHE	A	230	154.619	108.356	126.999	1.00	0.83	O
ATOM	1762	CB	PHE	A	230	153.498	111.087	125.341	1.00	0.83	C
ATOM	1763	CG	PHE	A	230	152.895	111.222	126.724	1.00	0.83	C
ATOM	1764	CD1	PHE	A	230	153.653	111.677	127.817	1.00	0.83	C
ATOM	1765	CD2	PHE	A	230	151.574	110.800	126.947	1.00	0.83	C
ATOM	1766	CE1	PHE	A	230	153.100	111.702	129.106	1.00	0.83	C
ATOM	1767	CE2	PHE	A	230	151.028	110.792	128.236	1.00	0.83	C
ATOM	1768	CZ	PHE	A	230	151.791	111.249	129.317	1.00	0.83	C
ATOM	1769	N	PHE	A	231	153.283	107.848	125.285	1.00	0.82	N
ATOM	1770	CA	PHE	A	231	152.841	106.580	125.858	1.00	0.82	C
ATOM	1771	C	PHE	A	231	153.946	105.543	126.033	1.00	0.82	C
ATOM	1772	O	PHE	A	231	153.982	104.839	127.039	1.00	0.82	O
ATOM	1773	CB	PHE	A	231	151.653	105.968	125.059	1.00	0.82	C
ATOM	1774	CG	PHE	A	231	150.357	106.500	125.613	1.00	0.82	C
ATOM	1775	CD1	PHE	A	231	150.013	107.849	125.443	1.00	0.82	C
ATOM	1776	CD2	PHE	A	231	149.517	105.684	126.393	1.00	0.82	C
ATOM	1777	CE1	PHE	A	231	148.883	108.388	126.061	1.00	0.82	C
ATOM	1778	CE2	PHE	A	231	148.374	106.217	127.006	1.00	0.82	C
ATOM	1779	CZ	PHE	A	231	148.064	107.573	126.845	1.00	0.82	C
ATOM	1780	N	THR	A	232	154.885	105.414	125.072	1.00	0.78	N
ATOM	1781	CA	THR	A	232	156.021	104.498	125.193	1.00	0.78	C
ATOM	1782	C	THR	A	232	157.025	104.861	126.271	1.00	0.78	C
ATOM	1783	O	THR	A	232	157.570	103.967	126.915	1.00	0.78	O
ATOM	1784	CB	THR	A	232	156.789	104.210	123.904	1.00	0.78	C
ATOM	1785	OG1	THR	A	232	157.264	105.390	123.273	1.00	0.78	O
ATOM	1786	CG2	THR	A	232	155.852	103.509	122.910	1.00	0.78	C
ATOM	1787	N	LEU	A	233	157.310	106.163	126.496	1.00	0.78	N
ATOM	1788	CA	LEU	A	233	158.260	106.585	127.519	1.00	0.78	C
ATOM	1789	C	LEU	A	233	157.613	107.082	128.802	1.00	0.78	C
ATOM	1790	O	LEU	A	233	158.312	107.472	129.737	1.00	0.78	O
ATOM	1791	CB	LEU	A	233	159.267	107.634	126.973	1.00	0.78	C
ATOM	1792	CG	LEU	A	233	158.705	109.031	126.623	1.00	0.78	C
ATOM	1793	CD1	LEU	A	233	158.840	110.051	127.766	1.00	0.78	C
ATOM	1794	CD2	LEU	A	233	159.404	109.574	125.366	1.00	0.78	C
ATOM	1795	N	PHE	A	234	156.266	107.057	128.920	1.00	0.80	N
ATOM	1796	CA	PHE	A	234	155.573	107.334	130.169	1.00	0.80	C
ATOM	1797	C	PHE	A	234	155.904	106.275	131.214	1.00	0.80	C
ATOM	1798	O	PHE	A	234	155.316	105.193	131.241	1.00	0.80	O
ATOM	1799	CB	PHE	A	234	154.023	107.426	129.984	1.00	0.80	C
ATOM	1800	CG	PHE	A	234	153.297	107.796	131.260	1.00	0.80	C
ATOM	1801	CD1	PHE	A	234	153.374	109.101	131.771	1.00	0.80	C
ATOM	1802	CD2	PHE	A	234	152.568	106.830	131.975	1.00	0.80	C
ATOM	1803	CE1	PHE	A	234	152.729	109.441	132.968	1.00	0.80	C
ATOM	1804	CE2	PHE	A	234	151.935	107.159	133.181	1.00	0.80	C
ATOM	1805	CZ	PHE	A	234	152.007	108.469	133.672	1.00	0.80	C
ATOM	1806	N	ASP	A	235	156.847	106.586	132.124	1.00	0.77	N
ATOM	1807	CA	ASP	A	235	157.105	105.753	133.265	1.00	0.77	C
ATOM	1808	C	ASP	A	235	156.354	106.330	134.442	1.00	0.77	C
ATOM	1809	O	ASP	A	235	156.138	107.535	134.585	1.00	0.77	O

ATOM	1810	CB	ASP	A	235	158.616	105.562	133.557	1.00	0.77	C
ATOM	1811	CG	ASP	A	235	158.887	104.259	134.302	1.00	0.77	C
ATOM	1812	OD1	ASP	A	235	158.011	103.346	134.285	1.00	0.77	O
ATOM	1813	OD2	ASP	A	235	159.987	104.152	134.889	1.00	0.77	O
ATOM	1814	N	TYR	A	236	155.890	105.426	135.294	1.00	0.76	N
ATOM	1815	CA	TYR	A	236	155.016	105.710	136.382	1.00	0.76	C
ATOM	1816	C	TYR	A	236	155.628	104.980	137.554	1.00	0.76	C
ATOM	1817	O	TYR	A	236	156.037	103.828	137.439	1.00	0.76	O
ATOM	1818	CB	TYR	A	236	153.589	105.236	136.015	1.00	0.76	C
ATOM	1819	CG	TYR	A	236	152.662	105.441	137.146	1.00	0.76	C
ATOM	1820	CD1	TYR	A	236	152.605	104.548	138.213	1.00	0.76	C
ATOM	1821	CD2	TYR	A	236	152.005	106.656	137.233	1.00	0.76	C
ATOM	1822	CE1	TYR	A	236	152.006	104.934	139.410	1.00	0.76	C
ATOM	1823	CE2	TYR	A	236	151.341	106.998	138.412	1.00	0.76	C
ATOM	1824	CZ	TYR	A	236	151.380	106.166	139.530	1.00	0.76	C
ATOM	1825	OH	TYR	A	236	150.806	106.559	140.753	1.00	0.76	O
ATOM	1826	N	ASP	A	237	155.725	105.636	138.725	1.00	0.83	N
ATOM	1827	CA	ASP	A	237	156.228	105.000	139.920	1.00	0.83	C
ATOM	1828	C	ASP	A	237	155.160	104.092	140.536	1.00	0.83	C
ATOM	1829	O	ASP	A	237	154.401	104.453	141.439	1.00	0.83	O
ATOM	1830	CB	ASP	A	237	156.766	106.082	140.882	1.00	0.83	C
ATOM	1831	CG	ASP	A	237	157.549	105.509	142.049	1.00	0.83	C
ATOM	1832	OD1	ASP	A	237	157.468	104.278	142.303	1.00	0.83	O
ATOM	1833	OD2	ASP	A	237	158.206	106.334	142.731	1.00	0.83	O
ATOM	1834	N	ASP	A	238	155.110	102.849	140.020	1.00	0.84	N
ATOM	1835	CA	ASP	A	238	154.232	101.785	140.448	1.00	0.84	C
ATOM	1836	C	ASP	A	238	154.557	101.327	141.880	1.00	0.84	C
ATOM	1837	O	ASP	A	238	153.720	100.729	142.555	1.00	0.84	O
ATOM	1838	CB	ASP	A	238	154.327	100.608	139.428	1.00	0.84	C
ATOM	1839	CG	ASP	A	238	153.692	100.958	138.087	1.00	0.84	C
ATOM	1840	OD1	ASP	A	238	154.411	100.970	137.051	1.00	0.84	O
ATOM	1841	OD2	ASP	A	238	152.460	101.191	138.059	1.00	0.84	O
ATOM	1842	N	GLY	A	239	155.770	101.639	142.406	1.00	0.85	N
ATOM	1843	CA	GLY	A	239	156.123	101.393	143.803	1.00	0.85	C
ATOM	1844	C	GLY	A	239	155.569	102.413	144.764	1.00	0.85	C
ATOM	1845	O	GLY	A	239	154.909	102.067	145.739	1.00	0.85	O
ATOM	1846	N	LYS	A	240	155.754	103.718	144.490	1.00	0.80	N
ATOM	1847	CA	LYS	A	240	155.252	104.776	145.362	1.00	0.80	C
ATOM	1848	C	LYS	A	240	153.724	104.864	145.355	1.00	0.80	C
ATOM	1849	O	LYS	A	240	153.078	105.299	146.307	1.00	0.80	O
ATOM	1850	CB	LYS	A	240	155.880	106.129	144.960	1.00	0.80	C
ATOM	1851	CG	LYS	A	240	155.589	107.288	145.925	1.00	0.80	C
ATOM	1852	CD	LYS	A	240	156.346	108.566	145.528	1.00	0.80	C
ATOM	1853	CE	LYS	A	240	155.939	109.782	146.367	1.00	0.80	C
ATOM	1854	NZ	LYS	A	240	156.530	111.025	145.836	1.00	0.80	N
ATOM	1855	N	LEU	A	241	153.087	104.383	144.272	1.00	0.82	N
ATOM	1856	CA	LEU	A	241	151.657	104.147	144.193	1.00	0.82	C
ATOM	1857	C	LEU	A	241	151.112	103.123	145.171	1.00	0.82	C
ATOM	1858	O	LEU	A	241	150.053	103.346	145.754	1.00	0.82	O
ATOM	1859	CB	LEU	A	241	151.325	103.715	142.748	1.00	0.82	C
ATOM	1860	CG	LEU	A	241	149.927	103.142	142.437	1.00	0.82	C
ATOM	1861	CD1	LEU	A	241	149.322	103.598	141.103	1.00	0.82	C
ATOM	1862	CD2	LEU	A	241	150.001	101.618	142.362	1.00	0.82	C
ATOM	1863	N	SER	A	242	151.786	101.976	145.394	1.00	0.80	N
ATOM	1864	CA	SER	A	242	151.283	100.985	146.342	1.00	0.80	C
ATOM	1865	C	SER	A	242	151.612	101.356	147.777	1.00	0.80	C
ATOM	1866	O	SER	A	242	150.901	100.979	148.703	1.00	0.80	O
ATOM	1867	CB	SER	A	242	151.754	99.542	146.021	1.00	0.80	C
ATOM	1868	OG	SER	A	242	153.177	99.429	146.017	1.00	0.80	O
ATOM	1869	N	GLU	A	243	152.657	102.182	147.997	1.00	0.75	N
ATOM	1870	CA	GLU	A	243	152.894	102.849	149.267	1.00	0.75	C
ATOM	1871	C	GLU	A	243	151.837	103.888	149.635	1.00	0.75	C
ATOM	1872	O	GLU	A	243	151.412	103.996	150.785	1.00	0.75	O
ATOM	1873	CB	GLU	A	243	154.252	103.584	149.254	1.00	0.75	C
ATOM	1874	CG	GLU	A	243	155.485	102.658	149.159	1.00	0.75	C



ATOM	1875	CD	GLU	A	243	156.790	103.453	149.180	1.00	0.75	C
ATOM	1876	OE1	GLU	A	243	156.733	104.712	149.157	1.00	0.75	O
ATOM	1877	OE2	GLU	A	243	157.859	102.793	149.238	1.00	0.75	O
ATOM	1878	N	ALA	A	244	151.402	104.718	148.664	1.00	0.83	N
ATOM	1879	CA	ALA	A	244	150.581	105.877	148.951	1.00	0.83	C
ATOM	1880	C	ALA	A	244	149.082	105.682	148.740	1.00	0.83	C
ATOM	1881	O	ALA	A	244	148.301	106.569	149.081	1.00	0.83	O
ATOM	1882	CB	ALA	A	244	151.061	107.050	148.069	1.00	0.83	C
ATOM	1883	N	PHE	A	245	148.627	104.520	148.225	1.00	0.78	N
ATOM	1884	CA	PHE	A	245	147.217	104.276	147.967	1.00	0.78	C
ATOM	1885	C	PHE	A	245	146.850	102.837	148.363	1.00	0.78	C
ATOM	1886	O	PHE	A	245	147.628	101.924	148.100	1.00	0.78	O
ATOM	1887	CB	PHE	A	245	146.854	104.483	146.469	1.00	0.78	C
ATOM	1888	CG	PHE	A	245	146.954	105.929	146.064	1.00	0.78	C
ATOM	1889	CD1	PHE	A	245	146.051	106.877	146.575	1.00	0.78	C
ATOM	1890	CD2	PHE	A	245	147.948	106.352	145.165	1.00	0.78	C
ATOM	1891	CE1	PHE	A	245	146.145	108.225	146.204	1.00	0.78	C
ATOM	1892	CE2	PHE	A	245	148.038	107.696	144.780	1.00	0.78	C
ATOM	1893	CZ	PHE	A	245	147.139	108.634	145.305	1.00	0.78	C
ATOM	1894	N	PRO	A	246	145.702	102.570	148.997	1.00	0.76	N
ATOM	1895	CA	PRO	A	246	145.532	101.421	149.901	1.00	0.76	C
ATOM	1896	C	PRO	A	246	145.411	100.018	149.303	1.00	0.76	C
ATOM	1897	O	PRO	A	246	145.402	99.070	150.085	1.00	0.76	O
ATOM	1898	CB	PRO	A	246	144.233	101.767	150.670	1.00	0.76	C
ATOM	1899	CG	PRO	A	246	143.500	102.772	149.780	1.00	0.76	C
ATOM	1900	CD	PRO	A	246	144.648	103.569	149.194	1.00	0.76	C
ATOM	1901	N	ASN	A	247	145.272	99.827	147.978	1.00	0.78	N
ATOM	1902	CA	ASN	A	247	144.929	98.516	147.427	1.00	0.78	C
ATOM	1903	C	ASN	A	247	145.160	98.512	145.923	1.00	0.78	C
ATOM	1904	O	ASN	A	247	144.381	98.002	145.114	1.00	0.78	O
ATOM	1905	CB	ASN	A	247	143.457	98.123	147.767	1.00	0.78	C
ATOM	1906	CG	ASN	A	247	142.462	99.132	147.203	1.00	0.78	C
ATOM	1907	OD1	ASN	A	247	142.259	100.232	147.701	1.00	0.78	O
ATOM	1908	ND2	ASN	A	247	141.856	98.778	146.048	1.00	0.78	N
ATOM	1909	N	SER	A	248	146.219	99.201	145.500	1.00	0.85	N
ATOM	1910	CA	SER	A	248	146.392	99.611	144.122	1.00	0.85	C
ATOM	1911	C	SER	A	248	147.301	98.686	143.348	1.00	0.85	C
ATOM	1912	O	SER	A	248	148.178	99.122	142.611	1.00	0.85	O
ATOM	1913	CB	SER	A	248	146.919	101.057	144.044	1.00	0.85	C
ATOM	1914	OG	SER	A	248	145.946	101.965	144.573	1.00	0.85	O
ATOM	1915	N	ASP	A	249	147.106	97.373	143.475	1.00	0.82	N
ATOM	1916	CA	ASP	A	249	148.088	96.381	143.078	1.00	0.82	C
ATOM	1917	C	ASP	A	249	147.871	95.846	141.651	1.00	0.82	C
ATOM	1918	O	ASP	A	249	146.750	95.556	141.223	1.00	0.82	O
ATOM	1919	CB	ASP	A	249	148.079	95.253	144.142	1.00	0.82	C
ATOM	1920	CG	ASP	A	249	147.922	95.884	145.523	1.00	0.82	C
ATOM	1921	OD1	ASP	A	249	148.831	96.636	145.953	1.00	0.82	O
ATOM	1922	OD2	ASP	A	249	146.810	95.720	146.094	1.00	0.82	O
ATOM	1923	N	ILE	A	250	148.952	95.704	140.843	1.00	0.80	N
ATOM	1924	CA	ILE	A	250	148.858	95.382	139.415	1.00	0.80	C
ATOM	1925	C	ILE	A	250	148.541	93.910	139.182	1.00	0.80	C
ATOM	1926	O	ILE	A	250	148.012	93.498	138.147	1.00	0.80	O
ATOM	1927	CB	ILE	A	250	150.108	95.817	138.632	1.00	0.80	C
ATOM	1928	CG1	ILE	A	250	149.818	96.073	137.129	1.00	0.80	C
ATOM	1929	CG2	ILE	A	250	151.287	94.827	138.808	1.00	0.80	C
ATOM	1930	CD1	ILE	A	250	148.976	97.330	136.868	1.00	0.80	C
ATOM	1931	N	GLU	A	251	148.799	93.074	140.201	1.00	0.79	N
ATOM	1932	CA	GLU	A	251	148.459	91.678	140.301	1.00	0.79	C
ATOM	1933	C	GLU	A	251	146.970	91.422	140.168	1.00	0.79	C
ATOM	1934	O	GLU	A	251	146.559	90.470	139.508	1.00	0.79	O
ATOM	1935	CB	GLU	A	251	148.935	91.106	141.659	1.00	0.79	C
ATOM	1936	CG	GLU	A	251	150.465	91.196	141.900	1.00	0.79	C
ATOM	1937	CD	GLU	A	251	150.920	92.494	142.576	1.00	0.79	C
ATOM	1938	OE1	GLU	A	251	150.723	93.583	141.977	1.00	0.79	O
ATOM	1939	OE2	GLU	A	251	151.481	92.385	143.690	1.00	0.79	O

ATOM	1940	N	MET	A	252	146.121	92.286	140.764	1.00	0.81	N
ATOM	1941	CA	MET	A	252	144.675	92.222	140.628	1.00	0.81	C
ATOM	1942	C	MET	A	252	144.210	92.422	139.188	1.00	0.81	C
ATOM	1943	O	MET	A	252	143.404	91.650	138.670	1.00	0.81	O
ATOM	1944	CB	MET	A	252	144.025	93.264	141.572	1.00	0.81	C
ATOM	1945	CG	MET	A	252	142.490	93.382	141.460	1.00	0.81	C
ATOM	1946	SD	MET	A	252	141.668	94.144	142.901	1.00	0.81	S
ATOM	1947	CE	MET	A	252	142.776	95.549	143.215	1.00	0.81	C
ATOM	1948	N	LEU	A	253	144.772	93.424	138.474	1.00	0.83	N
ATOM	1949	CA	LEU	A	253	144.509	93.638	137.058	1.00	0.83	C
ATOM	1950	C	LEU	A	253	144.982	92.481	136.182	1.00	0.83	C
ATOM	1951	O	LEU	A	253	144.234	91.954	135.359	1.00	0.83	O
ATOM	1952	CB	LEU	A	253	145.187	94.956	136.587	1.00	0.83	C
ATOM	1953	CG	LEU	A	253	145.073	95.276	135.076	1.00	0.83	C
ATOM	1954	CD1	LEU	A	253	143.618	95.392	134.599	1.00	0.83	C
ATOM	1955	CD2	LEU	A	253	145.846	96.559	134.732	1.00	0.83	C
ATOM	1956	N	ARG	A	254	146.230	92.007	136.374	1.00	0.75	N
ATOM	1957	CA	ARG	A	254	146.785	90.913	135.593	1.00	0.75	C
ATOM	1958	C	ARG	A	254	146.059	89.586	135.778	1.00	0.75	C
ATOM	1959	O	ARG	A	254	145.783	88.887	134.806	1.00	0.75	O
ATOM	1960	CB	ARG	A	254	148.294	90.727	135.890	1.00	0.75	C
ATOM	1961	CG	ARG	A	254	149.164	91.890	135.370	1.00	0.75	C
ATOM	1962	CD	ARG	A	254	150.651	91.703	135.681	1.00	0.75	C
ATOM	1963	NE	ARG	A	254	151.376	92.869	135.083	1.00	0.75	N
ATOM	1964	CZ	ARG	A	254	152.693	93.083	135.211	1.00	0.75	C
ATOM	1965	NH1	ARG	A	254	153.467	92.267	135.919	1.00	0.75	N
ATOM	1966	NH2	ARG	A	254	153.249	94.133	134.612	1.00	0.75	N
ATOM	1967	N	ARG	A	255	145.704	89.215	137.027	1.00	0.75	N
ATOM	1968	CA	ARG	A	255	144.923	88.023	137.325	1.00	0.75	C
ATOM	1969	C	ARG	A	255	143.487	88.089	136.809	1.00	0.75	C
ATOM	1970	O	ARG	A	255	142.940	87.088	136.349	1.00	0.75	O
ATOM	1971	CB	ARG	A	255	144.945	87.699	138.841	1.00	0.75	C
ATOM	1972	CG	ARG	A	255	146.345	87.275	139.343	1.00	0.75	C
ATOM	1973	CD	ARG	A	255	146.423	87.074	140.861	1.00	0.75	C
ATOM	1974	NE	ARG	A	255	147.857	86.761	141.188	1.00	0.75	N
ATOM	1975	CZ	ARG	A	255	148.306	86.387	142.394	1.00	0.75	C
ATOM	1976	NH1	ARG	A	255	147.481	86.128	143.402	1.00	0.75	N
ATOM	1977	NH2	ARG	A	255	149.617	86.273	142.605	1.00	0.75	N
ATOM	1978	N	PHE	A	256	142.836	89.277	136.847	1.00	0.83	N
ATOM	1979	CA	PHE	A	256	141.545	89.496	136.210	1.00	0.83	C
ATOM	1980	C	PHE	A	256	141.592	89.277	134.699	1.00	0.83	C
ATOM	1981	O	PHE	A	256	140.730	88.598	134.134	1.00	0.83	O
ATOM	1982	CB	PHE	A	256	141.034	90.937	136.525	1.00	0.83	C
ATOM	1983	CG	PHE	A	256	139.735	91.295	135.832	1.00	0.83	C
ATOM	1984	CD1	PHE	A	256	138.568	90.553	136.069	1.00	0.83	C
ATOM	1985	CD2	PHE	A	256	139.684	92.356	134.911	1.00	0.83	C
ATOM	1986	CE1	PHE	A	256	137.363	90.884	135.435	1.00	0.83	C
ATOM	1987	CE2	PHE	A	256	138.489	92.672	134.248	1.00	0.83	C
ATOM	1988	CZ	PHE	A	256	137.325	91.943	134.521	1.00	0.83	C
ATOM	1989	N	LEU	A	257	142.608	89.830	134.007	1.00	0.82	N
ATOM	1990	CA	LEU	A	257	142.774	89.635	132.581	1.00	0.82	C
ATOM	1991	C	LEU	A	257	143.113	88.197	132.195	1.00	0.82	C
ATOM	1992	O	LEU	A	257	142.434	87.613	131.348	1.00	0.82	O
ATOM	1993	CB	LEU	A	257	143.862	90.587	132.017	1.00	0.82	C
ATOM	1994	CG	LEU	A	257	143.509	92.091	132.080	1.00	0.82	C
ATOM	1995	CD1	LEU	A	257	144.708	92.944	131.640	1.00	0.82	C
ATOM	1996	CD2	LEU	A	257	142.281	92.443	131.230	1.00	0.82	C
ATOM	1997	N	SER	A	258	144.132	87.586	132.841	1.00	0.81	N
ATOM	1998	CA	SER	A	258	144.665	86.280	132.458	1.00	0.81	C
ATOM	1999	C	SER	A	258	143.779	85.085	132.737	1.00	0.81	C
ATOM	2000	O	SER	A	258	143.638	84.202	131.895	1.00	0.81	O
ATOM	2001	CB	SER	A	258	146.088	86.000	133.035	1.00	0.81	C
ATOM	2002	OG	SER	A	258	146.109	85.755	134.447	1.00	0.81	O
ATOM	2003	N	GLN	A	259	143.153	85.002	133.927	1.00	0.75	N
ATOM	2004	CA	GLN	A	259	142.406	83.817	134.296	1.00	0.75	C

ATOM	2005	C	GLN	A	259	141.018	83.798	133.665	1.00	0.75	C
ATOM	2006	O	GLN	A	259	140.393	84.859	133.560	1.00	0.75	O
ATOM	2007	CB	GLN	A	259	142.305	83.668	135.835	1.00	0.75	C
ATOM	2008	CG	GLN	A	259	143.673	83.427	136.518	1.00	0.75	C
ATOM	2009	CD	GLN	A	259	144.300	82.113	136.048	1.00	0.75	C
ATOM	2010	OE1	GLN	A	259	143.890	81.028	136.454	1.00	0.75	O
ATOM	2011	NE2	GLN	A	259	145.305	82.199	135.148	1.00	0.75	N
ATOM	2012	N	PRO	A	260	140.490	82.653	133.215	1.00	0.80	N
ATOM	2013	CA	PRO	A	260	139.151	82.554	132.651	1.00	0.80	C
ATOM	2014	C	PRO	A	260	138.062	82.760	133.692	1.00	0.80	C
ATOM	2015	O	PRO	A	260	138.327	83.061	134.856	1.00	0.80	O
ATOM	2016	CB	PRO	A	260	139.126	81.149	132.020	1.00	0.80	C
ATOM	2017	CG	PRO	A	260	140.098	80.332	132.870	1.00	0.80	C
ATOM	2018	CD	PRO	A	260	141.177	81.356	133.214	1.00	0.80	C
ATOM	2019	N	VAL	A	261	136.802	82.632	133.264	1.00	0.81	N
ATOM	2020	CA	VAL	A	261	135.642	82.813	134.104	1.00	0.81	C
ATOM	2021	C	VAL	A	261	135.152	81.454	134.599	1.00	0.81	C
ATOM	2022	O	VAL	A	261	135.158	80.479	133.855	1.00	0.81	O
ATOM	2023	CB	VAL	A	261	134.588	83.610	133.342	1.00	0.81	C
ATOM	2024	CG1	VAL	A	261	134.024	82.877	132.109	1.00	0.81	C
ATOM	2025	CG2	VAL	A	261	133.462	83.994	134.297	1.00	0.81	C
ATOM	2026	N	ASP	A	262	134.774	81.326	135.894	1.00	0.82	N
ATOM	2027	CA	ASP	A	262	134.192	80.101	136.423	1.00	0.82	C
ATOM	2028	C	ASP	A	262	132.777	79.871	135.879	1.00	0.82	C
ATOM	2029	O	ASP	A	262	131.992	80.807	135.729	1.00	0.82	O
ATOM	2030	CB	ASP	A	262	134.231	80.108	137.977	1.00	0.82	C
ATOM	2031	CG	ASP	A	262	133.953	78.722	138.542	1.00	0.82	C
ATOM	2032	OD1	ASP	A	262	132.763	78.313	138.550	1.00	0.82	O
ATOM	2033	OD2	ASP	A	262	134.924	78.044	138.945	1.00	0.82	O
ATOM	2034	N	THR	A	263	132.412	78.615	135.567	1.00	0.78	N
ATOM	2035	CA	THR	A	263	131.097	78.284	135.042	1.00	0.78	C
ATOM	2036	C	THR	A	263	130.233	77.611	136.090	1.00	0.78	C
ATOM	2037	O	THR	A	263	129.033	77.873	136.171	1.00	0.78	O
ATOM	2038	CB	THR	A	263	131.187	77.392	133.809	1.00	0.78	C
ATOM	2039	OG1	THR	A	263	131.929	76.209	134.073	1.00	0.78	O
ATOM	2040	CG2	THR	A	263	131.932	78.173	132.714	1.00	0.78	C
ATOM	2041	N	SER	A	264	130.803	76.768	136.982	1.00	0.80	N
ATOM	2042	CA	SER	A	264	130.031	76.032	137.981	1.00	0.80	C
ATOM	2043	C	SER	A	264	129.435	76.926	139.055	1.00	0.80	C
ATOM	2044	O	SER	A	264	128.249	76.802	139.368	1.00	0.80	O
ATOM	2045	CB	SER	A	264	130.718	74.764	138.579	1.00	0.80	C
ATOM	2046	OG	SER	A	264	131.713	75.019	139.579	1.00	0.80	O
ATOM	2047	N	PHE	A	265	130.222	77.913	139.546	1.00	0.84	N
ATOM	2048	CA	PHE	A	265	129.832	78.965	140.473	1.00	0.84	C
ATOM	2049	C	PHE	A	265	128.714	79.826	139.905	1.00	0.84	C
ATOM	2050	O	PHE	A	265	127.766	80.194	140.599	1.00	0.84	O
ATOM	2051	CB	PHE	A	265	131.088	79.840	140.800	1.00	0.84	C
ATOM	2052	CG	PHE	A	265	130.775	81.107	141.562	1.00	0.84	C
ATOM	2053	CD1	PHE	A	265	130.508	81.078	142.939	1.00	0.84	C
ATOM	2054	CD2	PHE	A	265	130.647	82.322	140.867	1.00	0.84	C
ATOM	2055	CE1	PHE	A	265	130.108	82.243	143.610	1.00	0.84	C
ATOM	2056	CE2	PHE	A	265	130.232	83.482	141.530	1.00	0.84	C
ATOM	2057	CZ	PHE	A	265	129.964	83.444	142.903	1.00	0.84	C
ATOM	2058	N	VAL	A	266	128.790	80.171	138.605	1.00	0.83	N
ATOM	2059	CA	VAL	A	266	127.748	80.937	137.944	1.00	0.83	C
ATOM	2060	C	VAL	A	266	126.447	80.151	137.889	1.00	0.83	C
ATOM	2061	O	VAL	A	266	125.390	80.666	138.251	1.00	0.83	O
ATOM	2062	CB	VAL	A	266	128.178	81.411	136.558	1.00	0.83	C
ATOM	2063	CG1	VAL	A	266	127.049	82.203	135.862	1.00	0.83	C
ATOM	2064	CG2	VAL	A	266	129.418	82.314	136.716	1.00	0.83	C
ATOM	2065	N	THR	A	267	126.481	78.851	137.509	1.00	0.79	N
ATOM	2066	CA	THR	A	267	125.256	78.045	137.478	1.00	0.79	C
ATOM	2067	C	THR	A	267	124.598	77.843	138.833	1.00	0.79	C
ATOM	2068	O	THR	A	267	123.379	77.939	138.938	1.00	0.79	O
ATOM	2069	CB	THR	A	267	125.307	76.691	136.758	1.00	0.79	C

ATOM	2070	OG1	THR	A	267	125.943	75.654	137.498	1.00	0.79	O
ATOM	2071	CG2	THR	A	267	125.992	76.808	135.394	1.00	0.79	C
ATOM	2072	N	THR	A	268	125.367	77.568	139.914	1.00	0.81	N
ATOM	2073	CA	THR	A	268	124.806	77.447	141.262	1.00	0.81	C
ATOM	2074	C	THR	A	268	124.239	78.748	141.782	1.00	0.81	C
ATOM	2075	O	THR	A	268	123.090	78.784	142.214	1.00	0.81	O
ATOM	2076	CB	THR	A	268	125.767	76.902	142.317	1.00	0.81	C
ATOM	2077	OG1	THR	A	268	126.994	77.618	142.337	1.00	0.81	O
ATOM	2078	CG2	THR	A	268	126.104	75.442	141.982	1.00	0.81	C
ATOM	2079	N	THR	A	269	124.989	79.863	141.659	1.00	0.86	N
ATOM	2080	CA	THR	A	269	124.557	81.187	142.120	1.00	0.86	C
ATOM	2081	C	THR	A	269	123.289	81.651	141.427	1.00	0.86	C
ATOM	2082	O	THR	A	269	122.357	82.143	142.060	1.00	0.86	O
ATOM	2083	CB	THR	A	269	125.600	82.287	141.936	1.00	0.86	C
ATOM	2084	OG1	THR	A	269	126.839	81.904	142.530	1.00	0.86	O
ATOM	2085	CG2	THR	A	269	125.174	83.578	142.649	1.00	0.86	C
ATOM	2086	N	LEU	A	270	123.168	81.461	140.092	1.00	0.85	N
ATOM	2087	CA	LEU	A	270	121.931	81.766	139.382	1.00	0.85	C
ATOM	2088	C	LEU	A	270	120.737	80.922	139.827	1.00	0.85	C
ATOM	2089	O	LEU	A	270	119.632	81.443	139.970	1.00	0.85	O
ATOM	2090	CB	LEU	A	270	122.075	81.665	137.839	1.00	0.85	C
ATOM	2091	CG	LEU	A	270	123.023	82.700	137.187	1.00	0.85	C
ATOM	2092	CD1	LEU	A	270	123.030	82.521	135.660	1.00	0.85	C
ATOM	2093	CD2	LEU	A	270	122.674	84.156	137.537	1.00	0.85	C
ATOM	2094	N	LYS	A	271	120.922	79.608	140.089	1.00	0.79	N
ATOM	2095	CA	LYS	A	271	119.880	78.749	140.642	1.00	0.79	C
ATOM	2096	C	LYS	A	271	119.423	79.181	142.040	1.00	0.79	C
ATOM	2097	O	LYS	A	271	118.222	79.247	142.300	1.00	0.79	O
ATOM	2098	CB	LYS	A	271	120.321	77.255	140.663	1.00	0.79	C
ATOM	2099	CG	LYS	A	271	120.508	76.631	139.263	1.00	0.79	C
ATOM	2100	CD	LYS	A	271	121.320	75.312	139.273	1.00	0.79	C
ATOM	2101	CE	LYS	A	271	121.843	74.922	137.873	1.00	0.79	C
ATOM	2102	NZ	LYS	A	271	122.784	73.768	137.899	1.00	0.79	N
ATOM	2103	N	GLU	A	272	120.357	79.544	142.953	1.00	0.82	N
ATOM	2104	CA	GLU	A	272	120.038	80.063	144.281	1.00	0.82	C
ATOM	2105	C	GLU	A	272	119.213	81.348	144.243	1.00	0.82	C
ATOM	2106	O	GLU	A	272	118.192	81.485	144.918	1.00	0.82	O
ATOM	2107	CB	GLU	A	272	121.334	80.393	145.077	1.00	0.82	C
ATOM	2108	CG	GLU	A	272	122.196	79.173	145.483	1.00	0.82	C
ATOM	2109	CD	GLU	A	272	123.529	79.562	146.138	1.00	0.82	C
ATOM	2110	OE1	GLU	A	272	123.812	80.780	146.325	1.00	0.82	O
ATOM	2111	OE2	GLU	A	272	124.291	78.615	146.455	1.00	0.82	O
ATOM	2112	N	LYS	A	273	119.624	82.323	143.406	1.00	0.83	N
ATOM	2113	CA	LYS	A	273	118.912	83.577	143.227	1.00	0.83	C
ATOM	2114	C	LYS	A	273	117.542	83.433	142.578	1.00	0.83	C
ATOM	2115	O	LYS	A	273	116.592	84.095	142.987	1.00	0.83	O
ATOM	2116	CB	LYS	A	273	119.751	84.597	142.422	1.00	0.83	C
ATOM	2117	CG	LYS	A	273	121.090	85.004	143.067	1.00	0.83	C
ATOM	2118	CD	LYS	A	273	120.981	85.664	144.451	1.00	0.83	C
ATOM	2119	CE	LYS	A	273	122.357	86.123	144.949	1.00	0.83	C
ATOM	2120	NZ	LYS	A	273	122.301	86.532	146.366	1.00	0.83	N
ATOM	2121	N	GLU	A	274	117.393	82.554	141.560	1.00	0.79	N
ATOM	2122	CA	GLU	A	274	116.116	82.299	140.900	1.00	0.79	C
ATOM	2123	C	GLU	A	274	115.066	81.750	141.855	1.00	0.79	C
ATOM	2124	O	GLU	A	274	113.939	82.240	141.933	1.00	0.79	O
ATOM	2125	CB	GLU	A	274	116.338	81.331	139.706	1.00	0.79	C
ATOM	2126	CG	GLU	A	274	115.260	81.373	138.590	1.00	0.79	C
ATOM	2127	CD	GLU	A	274	114.092	80.384	138.665	1.00	0.79	C
ATOM	2128	OE1	GLU	A	274	114.044	79.511	139.568	1.00	0.79	O
ATOM	2129	OE2	GLU	A	274	113.276	80.470	137.706	1.00	0.79	O
ATOM	2130	N	GLN	A	275	115.464	80.767	142.686	1.00	0.79	N
ATOM	2131	CA	GLN	A	275	114.626	80.211	143.724	1.00	0.79	C
ATOM	2132	C	GLN	A	275	114.291	81.168	144.858	1.00	0.79	C
ATOM	2133	O	GLN	A	275	113.169	81.140	145.364	1.00	0.79	O
ATOM	2134	CB	GLN	A	275	115.214	78.895	144.266	1.00	0.79	C

ATOM	2135	CG	GLN	A	275	115.267	77.835	143.147	1.00	0.79	C
ATOM	2136	CD	GLN	A	275	115.605	76.443	143.670	1.00	0.79	C
ATOM	2137	OE1	GLN	A	275	115.629	76.167	144.871	1.00	0.79	O
ATOM	2138	NE2	GLN	A	275	115.818	75.511	142.713	1.00	0.79	N
ATOM	2139	N	GLU	A	276	115.229	82.046	145.293	1.00	0.83	N
ATOM	2140	CA	GLU	A	276	114.904	83.110	146.242	1.00	0.83	C
ATOM	2141	C	GLU	A	276	113.884	84.083	145.668	1.00	0.83	C
ATOM	2142	O	GLU	A	276	112.825	84.285	146.255	1.00	0.83	O
ATOM	2143	CB	GLU	A	276	116.169	83.867	146.747	1.00	0.83	C
ATOM	2144	CG	GLU	A	276	115.982	84.672	148.078	1.00	0.83	C
ATOM	2145	CD	GLU	A	276	115.657	86.171	147.989	1.00	0.83	C
ATOM	2146	OE1	GLU	A	276	115.915	86.806	146.942	1.00	0.83	O
ATOM	2147	OE2	GLU	A	276	115.175	86.725	149.020	1.00	0.83	O
ATOM	2148	N	ALA	A	277	114.104	84.591	144.434	1.00	0.90	N
ATOM	2149	CA	ALA	A	277	113.213	85.523	143.766	1.00	0.90	C
ATOM	2150	C	ALA	A	277	111.804	84.992	143.556	1.00	0.90	C
ATOM	2151	O	ALA	A	277	110.816	85.680	143.812	1.00	0.90	O
ATOM	2152	CB	ALA	A	277	113.795	85.898	142.390	1.00	0.90	C
ATOM	2153	N	TYR	A	278	111.681	83.722	143.128	1.00	0.81	N
ATOM	2154	CA	TYR	A	278	110.408	83.048	142.989	1.00	0.81	C
ATOM	2155	C	TYR	A	278	109.637	82.928	144.314	1.00	0.81	C
ATOM	2156	O	TYR	A	278	108.451	83.256	144.384	1.00	0.81	O
ATOM	2157	CB	TYR	A	278	110.676	81.655	142.349	1.00	0.81	C
ATOM	2158	CG	TYR	A	278	109.439	80.809	142.347	1.00	0.81	C
ATOM	2159	CD1	TYR	A	278	108.368	81.108	141.491	1.00	0.81	C
ATOM	2160	CD2	TYR	A	278	109.286	79.821	143.333	1.00	0.81	C
ATOM	2161	CE1	TYR	A	278	107.148	80.431	141.631	1.00	0.81	C
ATOM	2162	CE2	TYR	A	278	108.078	79.136	143.463	1.00	0.81	C
ATOM	2163	CZ	TYR	A	278	107.012	79.458	142.628	1.00	0.81	C
ATOM	2164	OH	TYR	A	278	105.834	78.722	142.777	1.00	0.81	O
ATOM	2165	N	LYS	A	279	110.298	82.488	145.410	1.00	0.81	N
ATOM	2166	CA	LYS	A	279	109.657	82.364	146.713	1.00	0.81	C
ATOM	2167	C	LYS	A	279	109.189	83.706	147.234	1.00	0.81	C
ATOM	2168	O	LYS	A	279	108.046	83.862	147.659	1.00	0.81	O
ATOM	2169	CB	LYS	A	279	110.597	81.700	147.746	1.00	0.81	C
ATOM	2170	CG	LYS	A	279	110.809	80.204	147.470	1.00	0.81	C
ATOM	2171	CD	LYS	A	279	111.812	79.572	148.446	1.00	0.81	C
ATOM	2172	CE	LYS	A	279	112.023	78.080	148.185	1.00	0.81	C
ATOM	2173	NZ	LYS	A	279	113.000	77.533	149.152	1.00	0.81	N
ATOM	2174	N	ARG	A	280	110.045	84.738	147.095	1.00	0.80	N
ATOM	2175	CA	ARG	A	280	109.709	86.102	147.439	1.00	0.80	C
ATOM	2176	C	ARG	A	280	108.512	86.625	146.670	1.00	0.80	C
ATOM	2177	O	ARG	A	280	107.575	87.138	147.266	1.00	0.80	O
ATOM	2178	CB	ARG	A	280	110.921	87.022	147.175	1.00	0.80	C
ATOM	2179	CG	ARG	A	280	112.129	86.701	148.076	1.00	0.80	C
ATOM	2180	CD	ARG	A	280	111.958	87.003	149.561	1.00	0.80	C
ATOM	2181	NE	ARG	A	280	111.803	88.478	149.644	1.00	0.80	N
ATOM	2182	CZ	ARG	A	280	112.808	89.338	149.810	1.00	0.80	C
ATOM	2183	NH1	ARG	A	280	114.076	88.968	149.928	1.00	0.80	N
ATOM	2184	NH2	ARG	A	280	112.467	90.625	149.816	1.00	0.80	N
ATOM	2185	N	MET	A	281	108.447	86.425	145.339	1.00	0.81	N
ATOM	2186	CA	MET	A	281	107.313	86.848	144.538	1.00	0.81	C
ATOM	2187	C	MET	A	281	105.989	86.218	144.971	1.00	0.81	C
ATOM	2188	O	MET	A	281	104.968	86.895	145.099	1.00	0.81	O
ATOM	2189	CB	MET	A	281	107.582	86.489	143.057	1.00	0.81	C
ATOM	2190	CG	MET	A	281	106.490	86.960	142.075	1.00	0.81	C
ATOM	2191	SD	MET	A	281	106.801	86.504	140.341	1.00	0.81	S
ATOM	2192	CE	MET	A	281	106.539	84.716	140.550	1.00	0.81	C
ATOM	2193	N	CYS	A	282	105.986	84.900	145.251	1.00	0.79	N
ATOM	2194	CA	CYS	A	282	104.819	84.185	145.742	1.00	0.79	C
ATOM	2195	C	CYS	A	282	104.327	84.634	147.107	1.00	0.79	C
ATOM	2196	O	CYS	A	282	103.125	84.832	147.305	1.00	0.79	O
ATOM	2197	CB	CYS	A	282	105.090	82.659	145.772	1.00	0.79	C
ATOM	2198	SG	CYS	A	282	105.114	81.972	144.085	1.00	0.79	S
ATOM	2199	N	GLU	A	283	105.244	84.812	148.073	1.00	0.81	N

ATOM	2200	CA	GLU	A	283	104.935	85.272	149.412	1.00	0.81	C
ATOM	2201	C	GLU	A	283	104.559	86.762	149.472	1.00	0.81	C
ATOM	2202	O	GLU	A	283	103.570	87.139	150.100	1.00	0.81	O
ATOM	2203	CB	GLU	A	283	106.102	84.866	150.349	1.00	0.81	C
ATOM	2204	CG	GLU	A	283	106.282	83.317	150.399	1.00	0.81	C
ATOM	2205	CD	GLU	A	283	107.555	82.822	151.092	1.00	0.81	C
ATOM	2206	OE1	GLU	A	283	108.255	83.636	151.744	1.00	0.81	O
ATOM	2207	OE2	GLU	A	283	107.837	81.600	150.950	1.00	0.81	O
ATOM	2208	N	GLU	A	284	105.294	87.649	148.764	1.00	0.82	N
ATOM	2209	CA	GLU	A	284	105.049	89.087	148.691	1.00	0.82	C
ATOM	2210	C	GLU	A	284	103.763	89.489	147.945	1.00	0.82	C
ATOM	2211	O	GLU	A	284	103.121	90.477	148.299	1.00	0.82	O
ATOM	2212	CB	GLU	A	284	106.286	89.839	148.100	1.00	0.82	C
ATOM	2213	CG	GLU	A	284	107.562	89.773	148.999	1.00	0.82	C
ATOM	2214	CD	GLU	A	284	108.868	90.213	148.330	1.00	0.82	C
ATOM	2215	OE1	GLU	A	284	108.907	90.449	147.094	1.00	0.82	O
ATOM	2216	OE2	GLU	A	284	109.892	90.293	149.069	1.00	0.82	O
ATOM	2217	N	HIS	A	285	103.338	88.749	146.891	1.00	0.83	N
ATOM	2218	CA	HIS	A	285	102.185	89.116	146.056	1.00	0.83	C
ATOM	2219	C	HIS	A	285	100.981	88.203	146.230	1.00	0.83	C
ATOM	2220	O	HIS	A	285	100.051	88.200	145.414	1.00	0.83	O
ATOM	2221	CB	HIS	A	285	102.570	89.183	144.564	1.00	0.83	C
ATOM	2222	CG	HIS	A	285	103.384	90.405	144.299	1.00	0.83	C
ATOM	2223	ND1	HIS	A	285	102.726	91.586	144.002	1.00	0.83	N
ATOM	2224	CD2	HIS	A	285	104.722	90.617	144.384	1.00	0.83	C
ATOM	2225	CE1	HIS	A	285	103.677	92.493	143.904	1.00	0.83	C
ATOM	2226	NE2	HIS	A	285	104.904	91.960	144.127	1.00	0.83	N
ATOM	2227	N	TYR	A	286	100.965	87.434	147.336	1.00	0.81	N
ATOM	2228	CA	TYR	A	286	99.833	86.652	147.820	1.00	0.81	C
ATOM	2229	C	TYR	A	286	99.325	85.619	146.822	1.00	0.81	C
ATOM	2230	O	TYR	A	286	98.161	85.619	146.424	1.00	0.81	O
ATOM	2231	CB	TYR	A	286	98.659	87.516	148.384	1.00	0.81	C
ATOM	2232	CG	TYR	A	286	99.136	88.665	149.241	1.00	0.81	C
ATOM	2233	CD1	TYR	A	286	100.198	88.532	150.159	1.00	0.81	C
ATOM	2234	CD2	TYR	A	286	98.530	89.927	149.088	1.00	0.81	C
ATOM	2235	CE1	TYR	A	286	100.718	89.658	150.811	1.00	0.81	C
ATOM	2236	CE2	TYR	A	286	99.024	91.044	149.773	1.00	0.81	C
ATOM	2237	CZ	TYR	A	286	100.142	90.912	150.601	1.00	0.81	C
ATOM	2238	OH	TYR	A	286	100.673	92.050	151.232	1.00	0.81	O
ATOM	2239	N	LEU	A	287	100.216	84.709	146.381	1.00	0.73	N
ATOM	2240	CA	LEU	A	287	99.910	83.708	145.369	1.00	0.73	C
ATOM	2241	C	LEU	A	287	99.624	82.349	145.987	1.00	0.73	C
ATOM	2242	O	LEU	A	287	99.794	81.313	145.351	1.00	0.73	O
ATOM	2243	CB	LEU	A	287	101.068	83.552	144.349	1.00	0.73	C
ATOM	2244	CG	LEU	A	287	101.431	84.836	143.575	1.00	0.73	C
ATOM	2245	CD1	LEU	A	287	102.547	84.552	142.559	1.00	0.73	C
ATOM	2246	CD2	LEU	A	287	100.225	85.426	142.835	1.00	0.73	C
ATOM	2247	N	LYS	A	288	99.192	82.316	147.262	1.00	0.63	N
ATOM	2248	CA	LYS	A	288	98.929	81.084	147.975	1.00	0.63	C
ATOM	2249	C	LYS	A	288	97.713	81.274	148.878	1.00	0.63	C
ATOM	2250	O	LYS	A	288	97.501	82.352	149.424	1.00	0.63	O
ATOM	2251	CB	LYS	A	288	100.131	80.665	148.875	1.00	0.63	C
ATOM	2252	CG	LYS	A	288	101.412	80.255	148.114	1.00	0.63	C
ATOM	2253	CD	LYS	A	288	101.217	78.985	147.254	1.00	0.63	C
ATOM	2254	CE	LYS	A	288	102.445	78.555	146.428	1.00	0.63	C
ATOM	2255	NZ	LYS	A	288	102.125	77.391	145.586	1.00	0.63	N
ATOM	2256	N	SER	A	289	96.858	80.250	149.101	1.00	0.66	N
ATOM	2257	CA	SER	A	289	96.768	78.977	148.390	1.00	0.66	C
ATOM	2258	C	SER	A	289	96.086	79.096	147.039	1.00	0.66	C
ATOM	2259	O	SER	A	289	96.612	78.622	146.042	1.00	0.66	O
ATOM	2260	CB	SER	A	289	96.012	77.908	149.226	1.00	0.66	C
ATOM	2261	OG	SER	A	289	94.758	78.407	149.701	1.00	0.66	O
ATOM	2262	N	GLY	A	290	94.913	79.757	146.975	1.00	0.59	N
ATOM	2263	CA	GLY	A	290	94.139	79.845	145.738	1.00	0.59	C
ATOM	2264	C	GLY	A	290	93.111	80.942	145.760	1.00	0.59	C

ATOM	2265	O	GLY	A	290	92.015	80.801	145.231	1.00	0.59	O
ATOM	2266	N	MET	A	291	93.412	82.076	146.419	1.00	0.74	N
ATOM	2267	CA	MET	A	291	92.536	83.238	146.424	1.00	0.74	C
ATOM	2268	C	MET	A	291	92.373	83.922	145.069	1.00	0.74	C
ATOM	2269	O	MET	A	291	93.324	84.056	144.300	1.00	0.74	O
ATOM	2270	CB	MET	A	291	93.013	84.302	147.437	1.00	0.74	C
ATOM	2271	CG	MET	A	291	92.855	83.862	148.902	1.00	0.74	C
ATOM	2272	SD	MET	A	291	93.125	85.204	150.100	1.00	0.74	S
ATOM	2273	CE	MET	A	291	94.904	85.439	149.819	1.00	0.74	C
ATOM	2274	N	SER	A	292	91.154	84.431	144.768	1.00	0.74	N
ATOM	2275	CA	SER	A	292	90.912	85.213	143.560	1.00	0.74	C
ATOM	2276	C	SER	A	292	91.559	86.589	143.627	1.00	0.74	C
ATOM	2277	O	SER	A	292	92.051	87.033	144.664	1.00	0.74	O
ATOM	2278	CB	SER	A	292	89.400	85.339	143.137	1.00	0.74	C
ATOM	2279	OG	SER	A	292	88.734	86.557	143.519	1.00	0.74	O
ATOM	2280	N	THR	A	293	91.560	87.325	142.502	1.00	0.74	N
ATOM	2281	CA	THR	A	293	92.099	88.678	142.409	1.00	0.74	C
ATOM	2282	C	THR	A	293	91.472	89.662	143.377	1.00	0.74	C
ATOM	2283	O	THR	A	293	92.181	90.457	143.986	1.00	0.74	O
ATOM	2284	CB	THR	A	293	91.987	89.222	140.993	1.00	0.74	C
ATOM	2285	OG1	THR	A	293	92.714	88.354	140.138	1.00	0.74	O
ATOM	2286	CG2	THR	A	293	92.617	90.617	140.847	1.00	0.74	C
ATOM	2287	N	LYS	A	294	90.140	89.626	143.593	1.00	0.78	N
ATOM	2288	CA	LYS	A	294	89.485	90.543	144.517	1.00	0.78	C
ATOM	2289	C	LYS	A	294	89.920	90.371	145.967	1.00	0.78	C
ATOM	2290	O	LYS	A	294	90.250	91.348	146.638	1.00	0.78	O
ATOM	2291	CB	LYS	A	294	87.950	90.402	144.436	1.00	0.78	C
ATOM	2292	CG	LYS	A	294	87.367	90.865	143.095	1.00	0.78	C
ATOM	2293	CD	LYS	A	294	85.843	90.680	143.073	1.00	0.78	C
ATOM	2294	CE	LYS	A	294	85.198	91.169	141.778	1.00	0.78	C
ATOM	2295	NZ	LYS	A	294	83.741	90.920	141.827	1.00	0.78	N
ATOM	2296	N	GLU	A	295	89.994	89.118	146.457	1.00	0.80	N
ATOM	2297	CA	GLU	A	295	90.443	88.795	147.802	1.00	0.80	C
ATOM	2298	C	GLU	A	295	91.903	89.198	148.036	1.00	0.80	C
ATOM	2299	O	GLU	A	295	92.288	89.730	149.073	1.00	0.80	O
ATOM	2300	CB	GLU	A	295	90.230	87.299	148.184	1.00	0.80	C
ATOM	2301	CG	GLU	A	295	89.217	86.461	147.349	1.00	0.80	C
ATOM	2302	CD	GLU	A	295	87.870	87.108	147.028	1.00	0.80	C
ATOM	2303	OE1	GLU	A	295	87.608	87.212	145.797	1.00	0.80	O
ATOM	2304	OE2	GLU	A	295	87.114	87.485	147.947	1.00	0.80	O
ATOM	2305	N	ARG	A	296	92.769	88.999	147.019	1.00	0.76	N
ATOM	2306	CA	ARG	A	296	94.141	89.486	147.033	1.00	0.76	C
ATOM	2307	C	ARG	A	296	94.248	91.015	147.123	1.00	0.76	C
ATOM	2308	O	ARG	A	296	95.097	91.552	147.837	1.00	0.76	O
ATOM	2309	CB	ARG	A	296	94.902	89.002	145.768	1.00	0.76	C
ATOM	2310	CG	ARG	A	296	95.097	87.472	145.685	1.00	0.76	C
ATOM	2311	CD	ARG	A	296	95.520	86.959	144.295	1.00	0.76	C
ATOM	2312	NE	ARG	A	296	96.922	87.439	144.040	1.00	0.76	N
ATOM	2313	CZ	ARG	A	296	97.402	87.917	142.880	1.00	0.76	C
ATOM	2314	NH1	ARG	A	296	96.680	87.976	141.765	1.00	0.76	N
ATOM	2315	NH2	ARG	A	296	98.663	88.348	142.848	1.00	0.76	N
ATOM	2316	N	LEU	A	297	93.387	91.760	146.397	1.00	0.84	N
ATOM	2317	CA	LEU	A	297	93.295	93.209	146.497	1.00	0.84	C
ATOM	2318	C	LEU	A	297	92.768	93.736	147.826	1.00	0.84	C
ATOM	2319	O	LEU	A	297	93.310	94.708	148.352	1.00	0.84	O
ATOM	2320	CB	LEU	A	297	92.459	93.830	145.353	1.00	0.84	C
ATOM	2321	CG	LEU	A	297	93.066	93.680	143.941	1.00	0.84	C
ATOM	2322	CD1	LEU	A	297	92.139	94.336	142.908	1.00	0.84	C
ATOM	2323	CD2	LEU	A	297	94.478	94.277	143.829	1.00	0.84	C
ATOM	2324	N	GLU	A	298	91.717	93.131	148.431	1.00	0.82	N
ATOM	2325	CA	GLU	A	298	91.231	93.573	149.736	1.00	0.82	C
ATOM	2326	C	GLU	A	298	92.273	93.395	150.835	1.00	0.82	C
ATOM	2327	O	GLU	A	298	92.523	94.315	151.614	1.00	0.82	O
ATOM	2328	CB	GLU	A	298	89.816	93.036	150.096	1.00	0.82	C
ATOM	2329	CG	GLU	A	298	89.696	91.575	150.603	1.00	0.82	C

ATOM	2330	CD	GLU	A	298	90.095	91.404	152.068	1.00	0.82	C
ATOM	2331	OE1	GLU	A	298	90.959	90.538	152.354	1.00	0.82	O
ATOM	2332	OE2	GLU	A	298	89.554	92.163	152.916	1.00	0.82	O
ATOM	2333	N	ALA	A	299	93.009	92.263	150.835	1.00	0.88	N
ATOM	2334	CA	ALA	A	299	94.136	92.033	151.715	1.00	0.88	C
ATOM	2335	C	ALA	A	299	95.243	93.080	151.556	1.00	0.88	C
ATOM	2336	O	ALA	A	299	95.689	93.683	152.528	1.00	0.88	O
ATOM	2337	CB	ALA	A	299	94.682	90.614	151.453	1.00	0.88	C
ATOM	2338	N	ASN	A	300	95.621	93.414	150.299	1.00	0.86	N
ATOM	2339	CA	ASN	A	300	96.571	94.473	149.977	1.00	0.86	C
ATOM	2340	C	ASN	A	300	96.125	95.850	150.479	1.00	0.86	C
ATOM	2341	O	ASN	A	300	96.926	96.650	150.965	1.00	0.86	O
ATOM	2342	CB	ASN	A	300	96.795	94.512	148.436	1.00	0.86	C
ATOM	2343	CG	ASN	A	300	97.991	95.377	148.042	1.00	0.86	C
ATOM	2344	OD1	ASN	A	300	99.132	95.086	148.422	1.00	0.86	O
ATOM	2345	ND2	ASN	A	300	97.763	96.451	147.254	1.00	0.86	N
ATOM	2346	N	ARG	A	301	94.817	96.150	150.370	1.00	0.79	N
ATOM	2347	CA	ARG	A	301	94.199	97.335	150.929	1.00	0.79	C
ATOM	2348	C	ARG	A	301	94.256	97.389	152.452	1.00	0.79	C
ATOM	2349	O	ARG	A	301	94.580	98.424	153.030	1.00	0.79	O
ATOM	2350	CB	ARG	A	301	92.727	97.431	150.464	1.00	0.79	C
ATOM	2351	CG	ARG	A	301	92.078	98.799	150.741	1.00	0.79	C
ATOM	2352	CD	ARG	A	301	90.629	98.871	150.259	1.00	0.79	C
ATOM	2353	NE	ARG	A	301	90.233	100.320	150.303	1.00	0.79	N
ATOM	2354	CZ	ARG	A	301	89.571	100.915	151.304	1.00	0.79	C
ATOM	2355	NH1	ARG	A	301	89.152	100.245	152.372	1.00	0.79	N
ATOM	2356	NH2	ARG	A	301	89.329	102.224	151.230	1.00	0.79	N
ATOM	2357	N	ASN	A	302	93.976	96.264	153.141	1.00	0.84	N
ATOM	2358	CA	ASN	A	302	94.092	96.142	154.589	1.00	0.84	C
ATOM	2359	C	ASN	A	302	95.529	96.330	155.082	1.00	0.84	C
ATOM	2360	O	ASN	A	302	95.769	97.089	156.020	1.00	0.84	O
ATOM	2361	CB	ASN	A	302	93.512	94.791	155.086	1.00	0.84	C
ATOM	2362	CG	ASN	A	302	92.013	94.739	154.785	1.00	0.84	C
ATOM	2363	OD1	ASN	A	302	91.328	95.765	154.825	1.00	0.84	O
ATOM	2364	ND2	ASN	A	302	91.492	93.526	154.492	1.00	0.84	N
ATOM	2365	N	ASP	A	303	96.528	95.723	154.402	1.00	0.85	N
ATOM	2366	CA	ASP	A	303	97.947	95.940	154.652	1.00	0.85	C
ATOM	2367	C	ASP	A	303	98.372	97.395	154.457	1.00	0.85	C
ATOM	2368	O	ASP	A	303	99.181	97.954	155.199	1.00	0.85	O
ATOM	2369	CB	ASP	A	303	98.813	95.120	153.664	1.00	0.85	C
ATOM	2370	CG	ASP	A	303	98.641	93.623	153.819	1.00	0.85	C
ATOM	2371	OD1	ASP	A	303	98.887	92.943	152.787	1.00	0.85	O
ATOM	2372	OD2	ASP	A	303	98.349	93.147	154.937	1.00	0.85	O
ATOM	2373	N	ALA	A	304	97.831	98.058	153.410	1.00	0.89	N
ATOM	2374	CA	ALA	A	304	98.039	99.470	153.160	1.00	0.89	C
ATOM	2375	C	ALA	A	304	97.499	100.363	154.267	1.00	0.89	C
ATOM	2376	O	ALA	A	304	98.194	101.268	154.722	1.00	0.89	O
ATOM	2377	CB	ALA	A	304	97.413	99.874	151.808	1.00	0.89	C
ATOM	2378	N	ILE	A	305	96.272	100.085	154.757	1.00	0.85	N
ATOM	2379	CA	ILE	A	305	95.661	100.767	155.893	1.00	0.85	C
ATOM	2380	C	ILE	A	305	96.456	100.569	157.170	1.00	0.85	C
ATOM	2381	O	ILE	A	305	96.673	101.517	157.922	1.00	0.85	O
ATOM	2382	CB	ILE	A	305	94.192	100.363	156.076	1.00	0.85	C
ATOM	2383	CG1	ILE	A	305	93.374	100.939	154.895	1.00	0.85	C
ATOM	2384	CG2	ILE	A	305	93.629	100.850	157.436	1.00	0.85	C
ATOM	2385	CD1	ILE	A	305	91.896	100.531	154.877	1.00	0.85	C
ATOM	2386	N	ASP	A	306	96.953	99.346	157.446	1.00	0.84	N
ATOM	2387	CA	ASP	A	306	97.781	99.107	158.608	1.00	0.84	C
ATOM	2388	C	ASP	A	306	99.100	99.889	158.580	1.00	0.84	C
ATOM	2389	O	ASP	A	306	99.467	100.575	159.534	1.00	0.84	O
ATOM	2390	CB	ASP	A	306	98.037	97.587	158.755	1.00	0.84	C
ATOM	2391	CG	ASP	A	306	98.365	97.320	160.204	1.00	0.84	C
ATOM	2392	OD1	ASP	A	306	99.512	96.933	160.525	1.00	0.84	O
ATOM	2393	OD2	ASP	A	306	97.462	97.603	161.040	1.00	0.84	O
ATOM	2394	N	LYS	A	307	99.812	99.871	157.435	1.00	0.83	N



ATOM	2395	CA	LYS	A	307	101.040	100.624	157.257	1.00	0.83	C
ATOM	2396	C	LYS	A	307	100.890	102.139	157.329	1.00	0.83	C
ATOM	2397	O	LYS	A	307	101.706	102.812	157.959	1.00	0.83	O
ATOM	2398	CB	LYS	A	307	101.760	100.211	155.949	1.00	0.83	C
ATOM	2399	CG	LYS	A	307	102.879	99.194	156.223	1.00	0.83	C
ATOM	2400	CD	LYS	A	307	103.591	98.741	154.941	1.00	0.83	C
ATOM	2401	CE	LYS	A	307	104.840	97.901	155.221	1.00	0.83	C
ATOM	2402	NZ	LYS	A	307	105.498	97.528	153.949	1.00	0.83	N
ATOM	2403	N	THR	A	308	99.845	102.728	156.704	1.00	0.86	N
ATOM	2404	CA	THR	A	308	99.570	104.163	156.821	1.00	0.86	C
ATOM	2405	C	THR	A	308	99.179	104.575	158.225	1.00	0.86	C
ATOM	2406	O	THR	A	308	99.650	105.592	158.729	1.00	0.86	O
ATOM	2407	CB	THR	A	308	98.550	104.735	155.837	1.00	0.86	C
ATOM	2408	OG1	THR	A	308	97.289	104.088	155.916	1.00	0.86	O
ATOM	2409	CG2	THR	A	308	99.067	104.550	154.405	1.00	0.86	C
ATOM	2410	N	ARG	A	309	98.347	103.770	158.915	1.00	0.80	N
ATOM	2411	CA	ARG	A	309	97.997	103.973	160.309	1.00	0.80	C
ATOM	2412	C	ARG	A	309	99.205	103.933	161.242	1.00	0.80	C
ATOM	2413	O	ARG	A	309	99.426	104.856	162.024	1.00	0.80	O
ATOM	2414	CB	ARG	A	309	96.989	102.868	160.721	1.00	0.80	C
ATOM	2415	CG	ARG	A	309	96.550	102.902	162.196	1.00	0.80	C
ATOM	2416	CD	ARG	A	309	95.693	101.712	162.663	1.00	0.80	C
ATOM	2417	NE	ARG	A	309	96.499	100.446	162.520	1.00	0.80	N
ATOM	2418	CZ	ARG	A	309	97.434	100.046	163.393	1.00	0.80	C
ATOM	2419	NH1	ARG	A	309	97.658	100.652	164.549	1.00	0.80	N
ATOM	2420	NH2	ARG	A	309	98.191	98.994	163.100	1.00	0.80	N
ATOM	2421	N	ALA	A	310	100.065	102.899	161.121	1.00	0.86	N
ATOM	2422	CA	ALA	A	310	101.256	102.724	161.931	1.00	0.86	C
ATOM	2423	C	ALA	A	310	102.268	103.854	161.772	1.00	0.86	C
ATOM	2424	O	ALA	A	310	102.871	104.322	162.738	1.00	0.86	O
ATOM	2425	CB	ALA	A	310	101.910	101.373	161.577	1.00	0.86	C
ATOM	2426	N	LEU	A	311	102.450	104.349	160.534	1.00	0.84	N
ATOM	2427	CA	LEU	A	311	103.236	105.530	160.227	1.00	0.84	C
ATOM	2428	C	LEU	A	311	102.723	106.798	160.916	1.00	0.84	C
ATOM	2429	O	LEU	A	311	103.476	107.543	161.547	1.00	0.84	O
ATOM	2430	CB	LEU	A	311	103.178	105.710	158.692	1.00	0.84	C
ATOM	2431	CG	LEU	A	311	103.773	107.012	158.125	1.00	0.84	C
ATOM	2432	CD1	LEU	A	311	105.259	107.169	158.448	1.00	0.84	C
ATOM	2433	CD2	LEU	A	311	103.559	107.067	156.609	1.00	0.84	C
ATOM	2434	N	MET	A	312	101.399	107.050	160.857	1.00	0.81	N
ATOM	2435	CA	MET	A	312	100.759	108.176	161.514	1.00	0.81	C
ATOM	2436	C	MET	A	312	100.853	108.129	163.034	1.00	0.81	C
ATOM	2437	O	MET	A	312	101.155	109.138	163.673	1.00	0.81	O
ATOM	2438	CB	MET	A	312	99.279	108.279	161.076	1.00	0.81	C
ATOM	2439	CG	MET	A	312	99.130	108.708	159.601	1.00	0.81	C
ATOM	2440	SD	MET	A	312	97.453	108.549	158.909	1.00	0.81	S
ATOM	2441	CE	MET	A	312	96.621	109.642	160.090	1.00	0.81	C
ATOM	2442	N	GLU	A	313	100.643	106.944	163.645	1.00	0.80	N
ATOM	2443	CA	GLU	A	313	100.804	106.721	165.072	1.00	0.80	C
ATOM	2444	C	GLU	A	313	102.225	106.986	165.558	1.00	0.80	C
ATOM	2445	O	GLU	A	313	102.444	107.722	166.520	1.00	0.80	O
ATOM	2446	CB	GLU	A	313	100.427	105.256	165.411	1.00	0.80	C
ATOM	2447	CG	GLU	A	313	98.911	104.961	165.295	1.00	0.80	C
ATOM	2448	CD	GLU	A	313	98.580	103.475	165.309	1.00	0.80	C
ATOM	2449	OE1	GLU	A	313	99.496	102.610	165.313	1.00	0.80	O
ATOM	2450	OE2	GLU	A	313	97.357	103.164	165.262	1.00	0.80	O
ATOM	2451	N	ARG	A	314	103.249	106.449	164.860	1.00	0.75	N
ATOM	2452	CA	ARG	A	314	104.647	106.662	165.203	1.00	0.75	C
ATOM	2453	C	ARG	A	314	105.091	108.117	165.113	1.00	0.75	C
ATOM	2454	O	ARG	A	314	105.729	108.632	166.031	1.00	0.75	O
ATOM	2455	CB	ARG	A	314	105.559	105.799	164.300	1.00	0.75	C
ATOM	2456	CG	ARG	A	314	105.465	104.292	164.604	1.00	0.75	C
ATOM	2457	CD	ARG	A	314	106.190	103.447	163.556	1.00	0.75	C
ATOM	2458	NE	ARG	A	314	105.974	102.015	163.945	1.00	0.75	N
ATOM	2459	CZ	ARG	A	314	106.518	100.983	163.287	1.00	0.75	C

ATOM	2460	NH1	ARG	A	314	107.321	101.174	162.246	1.00	0.75	N
ATOM	2461	NH2	ARG	A	314	106.247	99.739	163.681	1.00	0.75	N
ATOM	2462	N	LEU	A	315	104.719	108.825	164.026	1.00	0.79	N
ATOM	2463	CA	LEU	A	315	105.029	110.233	163.836	1.00	0.79	C
ATOM	2464	C	LEU	A	315	104.360	111.149	164.862	1.00	0.79	C
ATOM	2465	O	LEU	A	315	104.966	112.073	165.399	1.00	0.79	O
ATOM	2466	CB	LEU	A	315	104.656	110.655	162.393	1.00	0.79	C
ATOM	2467	CG	LEU	A	315	105.055	112.094	161.992	1.00	0.79	C
ATOM	2468	CD1	LEU	A	315	106.563	112.356	162.149	1.00	0.79	C
ATOM	2469	CD2	LEU	A	315	104.630	112.377	160.544	1.00	0.79	C
ATOM	2470	N	HIS	A	316	103.082	110.877	165.200	1.00	0.78	N
ATOM	2471	CA	HIS	A	316	102.339	111.582	166.236	1.00	0.78	C
ATOM	2472	C	HIS	A	316	102.948	111.482	167.627	1.00	0.78	C
ATOM	2473	O	HIS	A	316	103.017	112.462	168.372	1.00	0.78	O
ATOM	2474	CB	HIS	A	316	100.901	111.019	166.303	1.00	0.78	C
ATOM	2475	CG	HIS	A	316	100.079	111.514	167.452	1.00	0.78	C
ATOM	2476	ND1	HIS	A	316	99.713	112.843	167.515	1.00	0.78	N
ATOM	2477	CD2	HIS	A	316	99.623	110.844	168.541	1.00	0.78	C
ATOM	2478	CE1	HIS	A	316	99.034	112.957	168.638	1.00	0.78	C
ATOM	2479	NE2	HIS	A	316	98.949	111.776	169.299	1.00	0.78	N
ATOM	2480	N	ASN	A	317	103.429	110.286	168.019	1.00	0.77	N
ATOM	2481	CA	ASN	A	317	103.937	110.037	169.357	1.00	0.77	C
ATOM	2482	C	ASN	A	317	105.082	110.954	169.774	1.00	0.77	C
ATOM	2483	O	ASN	A	317	105.084	111.469	170.894	1.00	0.77	O
ATOM	2484	CB	ASN	A	317	104.395	108.565	169.500	1.00	0.77	C
ATOM	2485	CG	ASN	A	317	103.167	107.666	169.564	1.00	0.77	C
ATOM	2486	OD1	ASN	A	317	102.092	108.075	170.004	1.00	0.77	O
ATOM	2487	ND2	ASN	A	317	103.332	106.391	169.148	1.00	0.77	N
ATOM	2488	N	MET	A	318	106.040	111.232	168.874	1.00	0.70	N
ATOM	2489	CA	MET	A	318	107.185	112.085	169.152	1.00	0.70	C
ATOM	2490	C	MET	A	318	107.000	113.524	168.687	1.00	0.70	C
ATOM	2491	O	MET	A	318	107.879	114.138	168.087	1.00	0.70	O
ATOM	2492	CB	MET	A	318	108.474	111.467	168.566	1.00	0.70	C
ATOM	2493	CG	MET	A	318	108.795	110.078	169.158	1.00	0.70	C
ATOM	2494	SD	MET	A	318	108.913	110.021	170.979	1.00	0.70	S
ATOM	2495	CE	MET	A	318	110.426	111.012	171.155	1.00	0.70	C
ATOM	2496	N	SER	A	319	105.838	114.119	169.007	1.00	0.74	N
ATOM	2497	CA	SER	A	319	105.549	115.516	168.733	1.00	0.74	C
ATOM	2498	C	SER	A	319	104.859	116.153	169.916	1.00	0.74	C
ATOM	2499	O	SER	A	319	104.300	115.467	170.782	1.00	0.74	O
ATOM	2500	CB	SER	A	319	104.650	115.718	167.474	1.00	0.74	C
ATOM	2501	OG	SER	A	319	103.334	115.176	167.629	1.00	0.74	O
ATOM	2502	N	SER	A	320	104.872	117.505	169.965	1.00	0.72	N
ATOM	2503	CA	SER	A	320	103.984	118.287	170.813	1.00	0.72	C
ATOM	2504	C	SER	A	320	102.563	118.158	170.315	1.00	0.72	C
ATOM	2505	O	SER	A	320	102.261	118.412	169.150	1.00	0.72	O
ATOM	2506	CB	SER	A	320	104.277	119.800	170.829	1.00	0.72	C
ATOM	2507	OG	SER	A	320	105.582	120.095	171.320	1.00	0.72	O
ATOM	2508	N	LYS	A	321	101.642	117.712	171.182	1.00	0.68	N
ATOM	2509	CA	LYS	A	321	100.373	117.181	170.725	1.00	0.68	C
ATOM	2510	C	LYS	A	321	99.289	118.231	170.722	1.00	0.68	C
ATOM	2511	O	LYS	A	321	98.451	118.303	171.615	1.00	0.68	O
ATOM	2512	CB	LYS	A	321	99.985	115.940	171.563	1.00	0.68	C
ATOM	2513	CG	LYS	A	321	101.050	114.846	171.395	1.00	0.68	C
ATOM	2514	CD	LYS	A	321	100.883	113.615	172.293	1.00	0.68	C
ATOM	2515	CE	LYS	A	321	101.932	112.533	171.994	1.00	0.68	C
ATOM	2516	NZ	LYS	A	321	103.299	113.095	172.084	1.00	0.68	N
ATOM	2517	N	GLU	A	322	99.312	119.058	169.667	1.00	0.65	N
ATOM	2518	CA	GLU	A	322	98.420	120.173	169.473	1.00	0.65	C
ATOM	2519	C	GLU	A	322	97.326	119.846	168.491	1.00	0.65	C
ATOM	2520	O	GLU	A	322	97.518	119.078	167.549	1.00	0.65	O
ATOM	2521	CB	GLU	A	322	99.198	121.380	168.908	1.00	0.65	C
ATOM	2522	CG	GLU	A	322	100.042	122.100	169.978	1.00	0.65	C
ATOM	2523	CD	GLU	A	322	99.204	122.989	170.896	1.00	0.65	C
ATOM	2524	OE1	GLU	A	322	97.951	122.875	170.881	1.00	0.65	O

ATOM	2525	OE2	GLU	A	322	99.839	123.823	171.596	1.00	0.65	O
ATOM	2526	N	LEU	A	323	96.143	120.453	168.704	1.00	0.64	N
ATOM	2527	CA	LEU	A	323	94.989	120.266	167.842	1.00	0.64	C
ATOM	2528	C	LEU	A	323	94.633	121.512	167.050	1.00	0.64	C
ATOM	2529	O	LEU	A	323	93.867	121.437	166.096	1.00	0.64	O
ATOM	2530	CB	LEU	A	323	93.748	119.870	168.680	1.00	0.64	C
ATOM	2531	CG	LEU	A	323	93.879	118.514	169.403	1.00	0.64	C
ATOM	2532	CD1	LEU	A	323	92.660	118.273	170.307	1.00	0.64	C
ATOM	2533	CD2	LEU	A	323	94.042	117.349	168.412	1.00	0.64	C
ATOM	2534	N	HIS	A	324	95.194	122.689	167.387	1.00	0.65	N
ATOM	2535	CA	HIS	A	324	94.957	123.886	166.602	1.00	0.65	C
ATOM	2536	C	HIS	A	324	96.203	124.725	166.631	1.00	0.65	C
ATOM	2537	O	HIS	A	324	96.770	124.982	167.686	1.00	0.65	O
ATOM	2538	CB	HIS	A	324	93.783	124.734	167.155	1.00	0.65	C
ATOM	2539	CG	HIS	A	324	93.517	126.012	166.409	1.00	0.65	C
ATOM	2540	ND1	HIS	A	324	93.390	125.976	165.036	1.00	0.65	N
ATOM	2541	CD2	HIS	A	324	93.258	127.265	166.870	1.00	0.65	C
ATOM	2542	CE1	HIS	A	324	93.042	127.195	164.686	1.00	0.65	C
ATOM	2543	NE2	HIS	A	324	92.952	128.020	165.756	1.00	0.65	N
ATOM	2544	N	SER	A	325	96.671	125.198	165.464	1.00	0.67	N
ATOM	2545	CA	SER	A	325	97.847	126.052	165.416	1.00	0.67	C
ATOM	2546	C	SER	A	325	97.517	127.341	164.703	1.00	0.67	C
ATOM	2547	O	SER	A	325	97.228	127.378	163.498	1.00	0.67	O
ATOM	2548	CB	SER	A	325	99.076	125.369	164.760	1.00	0.67	C
ATOM	2549	OG	SER	A	325	100.266	126.159	164.878	1.00	0.67	O
ATOM	2550	N	ASN	A	326	97.569	128.451	165.468	1.00	0.65	N
ATOM	2551	CA	ASN	A	326	97.373	129.792	164.970	1.00	0.65	C
ATOM	2552	C	ASN	A	326	98.687	130.303	164.384	1.00	0.65	C
ATOM	2553	O	ASN	A	326	99.604	130.718	165.094	1.00	0.65	O
ATOM	2554	CB	ASN	A	326	96.845	130.719	166.103	1.00	0.65	C
ATOM	2555	CG	ASN	A	326	96.273	131.993	165.492	1.00	0.65	C
ATOM	2556	OD1	ASN	A	326	95.552	131.902	164.500	1.00	0.65	O
ATOM	2557	ND2	ASN	A	326	96.576	133.177	166.067	1.00	0.65	N
ATOM	2558	N	LYS	A	327	98.811	130.230	163.049	1.00	0.63	N
ATOM	2559	CA	LYS	A	327	99.980	130.680	162.339	1.00	0.63	C
ATOM	2560	C	LYS	A	327	99.642	130.807	160.867	1.00	0.63	C
ATOM	2561	O	LYS	A	327	98.761	130.113	160.356	1.00	0.63	O
ATOM	2562	CB	LYS	A	327	101.200	129.723	162.514	1.00	0.63	C
ATOM	2563	CG	LYS	A	327	100.979	128.281	162.019	1.00	0.63	C
ATOM	2564	CD	LYS	A	327	102.197	127.347	162.194	1.00	0.63	C
ATOM	2565	CE	LYS	A	327	103.366	127.650	161.245	1.00	0.63	C
ATOM	2566	NZ	LYS	A	327	104.485	126.698	161.440	1.00	0.63	N
ATOM	2567	N	SER	A	328	100.365	131.691	160.154	1.00	0.77	N
ATOM	2568	CA	SER	A	328	100.188	131.951	158.738	1.00	0.77	C
ATOM	2569	C	SER	A	328	101.035	131.067	157.837	1.00	0.77	C
ATOM	2570	O	SER	A	328	102.101	130.569	158.219	1.00	0.77	O
ATOM	2571	CB	SER	A	328	100.518	133.427	158.394	1.00	0.77	C
ATOM	2572	OG	SER	A	328	101.873	133.802	158.681	1.00	0.77	O
ATOM	2573	N	THR	A	329	100.594	130.873	156.572	1.00	0.81	N
ATOM	2574	CA	THR	A	329	101.410	130.219	155.548	1.00	0.81	C
ATOM	2575	C	THR	A	329	102.122	131.280	154.737	1.00	0.81	C
ATOM	2576	O	THR	A	329	103.351	131.329	154.736	1.00	0.81	O
ATOM	2577	CB	THR	A	329	100.659	129.305	154.587	1.00	0.81	C
ATOM	2578	OG1	THR	A	329	99.965	128.297	155.307	1.00	0.81	O
ATOM	2579	CG2	THR	A	329	101.647	128.565	153.669	1.00	0.81	C
ATOM	2580	N	VAL	A	330	101.382	132.200	154.084	1.00	0.86	N
ATOM	2581	CA	VAL	A	330	101.927	133.349	153.374	1.00	0.86	C
ATOM	2582	C	VAL	A	330	102.411	134.387	154.372	1.00	0.86	C
ATOM	2583	O	VAL	A	330	101.719	134.722	155.328	1.00	0.86	O
ATOM	2584	CB	VAL	A	330	100.914	133.968	152.411	1.00	0.86	C
ATOM	2585	CG1	VAL	A	330	101.478	135.224	151.711	1.00	0.86	C
ATOM	2586	CG2	VAL	A	330	100.515	132.907	151.367	1.00	0.86	C
ATOM	2587	N	LYS	A	331	103.643	134.916	154.206	1.00	0.81	N
ATOM	2588	CA	LYS	A	331	104.249	135.741	155.240	1.00	0.81	C
ATOM	2589	C	LYS	A	331	103.992	137.225	155.049	1.00	0.81	C

ATOM	2590	O	LYS	A	331	104.270	138.034	155.936	1.00	0.81	O
ATOM	2591	CB	LYS	A	331	105.780	135.493	155.297	1.00	0.81	C
ATOM	2592	CG	LYS	A	331	106.181	134.014	155.440	1.00	0.81	C
ATOM	2593	CD	LYS	A	331	105.486	133.285	156.599	1.00	0.81	C
ATOM	2594	CE	LYS	A	331	105.884	131.813	156.658	1.00	0.81	C
ATOM	2595	NZ	LYS	A	331	104.715	131.043	157.095	1.00	0.81	N
ATOM	2596	N	LEU	A	332	103.392	137.597	153.908	1.00	0.87	N
ATOM	2597	CA	LEU	A	332	103.160	138.960	153.484	1.00	0.87	C
ATOM	2598	C	LEU	A	332	101.668	139.266	153.591	1.00	0.87	C
ATOM	2599	O	LEU	A	332	100.867	138.337	153.481	1.00	0.87	O
ATOM	2600	CB	LEU	A	332	103.606	139.139	152.009	1.00	0.87	C
ATOM	2601	CG	LEU	A	332	105.048	138.681	151.708	1.00	0.87	C
ATOM	2602	CD1	LEU	A	332	105.349	138.817	150.211	1.00	0.87	C
ATOM	2603	CD2	LEU	A	332	106.095	139.449	152.526	1.00	0.87	C
ATOM	2604	N	PRO	A	333	101.226	140.496	153.826	1.00	0.87	N
ATOM	2605	CA	PRO	A	333	99.809	140.789	154.004	1.00	0.87	C
ATOM	2606	C	PRO	A	333	99.068	140.873	152.665	1.00	0.87	C
ATOM	2607	O	PRO	A	333	99.716	141.083	151.633	1.00	0.87	O
ATOM	2608	CB	PRO	A	333	99.821	142.148	154.723	1.00	0.87	C
ATOM	2609	CG	PRO	A	333	101.116	142.818	154.261	1.00	0.87	C
ATOM	2610	CD	PRO	A	333	102.079	141.642	154.152	1.00	0.87	C
ATOM	2611	N	PRO	A	334	97.745	140.740	152.607	1.00	0.87	N
ATOM	2612	CA	PRO	A	334	97.072	140.621	151.322	1.00	0.87	C
ATOM	2613	C	PRO	A	334	96.457	141.964	150.974	1.00	0.87	C
ATOM	2614	O	PRO	A	334	95.261	142.182	151.165	1.00	0.87	O
ATOM	2615	CB	PRO	A	334	95.989	139.558	151.582	1.00	0.87	C
ATOM	2616	CG	PRO	A	334	95.634	139.726	153.063	1.00	0.87	C
ATOM	2617	CD	PRO	A	334	96.974	140.112	153.686	1.00	0.87	C
ATOM	2618	N	TRP	A	335	97.274	142.877	150.424	1.00	0.84	N
ATOM	2619	CA	TRP	A	335	96.862	144.217	150.066	1.00	0.84	C
ATOM	2620	C	TRP	A	335	96.856	144.366	148.562	1.00	0.84	C
ATOM	2621	O	TRP	A	335	97.876	144.198	147.899	1.00	0.84	O
ATOM	2622	CB	TRP	A	335	97.849	145.273	150.637	1.00	0.84	C
ATOM	2623	CG	TRP	A	335	97.890	145.360	152.151	1.00	0.84	C
ATOM	2624	CD1	TRP	A	335	96.888	145.107	153.048	1.00	0.84	C
ATOM	2625	CD2	TRP	A	335	99.036	145.764	152.933	1.00	0.84	C
ATOM	2626	NE1	TRP	A	335	97.338	145.318	154.331	1.00	0.84	N
ATOM	2627	CE2	TRP	A	335	98.643	145.725	154.282	1.00	0.84	C
ATOM	2628	CE3	TRP	A	335	100.330	146.144	152.574	1.00	0.84	C
ATOM	2629	CZ2	TRP	A	335	99.519	146.070	155.302	1.00	0.84	C
ATOM	2630	CZ3	TRP	A	335	101.216	146.508	153.605	1.00	0.84	C
ATOM	2631	CH2	TRP	A	335	100.814	146.478	154.950	1.00	0.84	C
ATOM	2632	N	VAL	A	336	95.696	144.709	147.973	1.00	0.85	N
ATOM	2633	CA	VAL	A	336	95.632	145.078	146.574	1.00	0.85	C
ATOM	2634	C	VAL	A	336	95.215	146.529	146.541	1.00	0.85	C
ATOM	2635	O	VAL	A	336	94.067	146.902	146.792	1.00	0.85	O
ATOM	2636	CB	VAL	A	336	94.651	144.234	145.771	1.00	0.85	C
ATOM	2637	CG1	VAL	A	336	94.718	144.600	144.273	1.00	0.85	C
ATOM	2638	CG2	VAL	A	336	94.966	142.738	145.972	1.00	0.85	C
ATOM	2639	N	VAL	A	337	96.182	147.400	146.233	1.00	0.82	N
ATOM	2640	CA	VAL	A	337	95.971	148.818	146.068	1.00	0.82	C
ATOM	2641	C	VAL	A	337	95.632	149.098	144.629	1.00	0.82	C
ATOM	2642	O	VAL	A	337	95.815	148.264	143.745	1.00	0.82	O
ATOM	2643	CB	VAL	A	337	97.196	149.642	146.453	1.00	0.82	C
ATOM	2644	CG1	VAL	A	337	97.465	149.455	147.949	1.00	0.82	C
ATOM	2645	CG2	VAL	A	337	98.436	149.223	145.644	1.00	0.82	C
ATOM	2646	N	LYS	A	338	95.162	150.318	144.340	1.00	0.80	N
ATOM	2647	CA	LYS	A	338	95.249	150.809	142.990	1.00	0.80	C
ATOM	2648	C	LYS	A	338	96.590	151.518	142.873	1.00	0.80	C
ATOM	2649	O	LYS	A	338	96.856	152.377	143.719	1.00	0.80	O
ATOM	2650	CB	LYS	A	338	94.106	151.788	142.683	1.00	0.80	C
ATOM	2651	CG	LYS	A	338	93.996	152.109	141.192	1.00	0.80	C
ATOM	2652	CD	LYS	A	338	92.806	153.028	140.888	1.00	0.80	C
ATOM	2653	CE	LYS	A	338	93.043	154.503	141.183	1.00	0.80	C
ATOM	2654	NZ	LYS	A	338	94.214	154.940	140.403	1.00	0.80	N

ATOM	2655	N	PRO	A	339	97.492	151.221	141.941	1.00	0.81	N
ATOM	2656	CA	PRO	A	339	98.652	152.065	141.689	1.00	0.81	C
ATOM	2657	C	PRO	A	339	98.291	153.509	141.351	1.00	0.81	C
ATOM	2658	O	PRO	A	339	97.145	153.840	141.034	1.00	0.81	O
ATOM	2659	CB	PRO	A	339	99.442	151.327	140.589	1.00	0.81	C
ATOM	2660	CG	PRO	A	339	98.428	150.391	139.926	1.00	0.81	C
ATOM	2661	CD	PRO	A	339	97.435	150.066	141.042	1.00	0.81	C
ATOM	2662	N	SER	A	340	99.275	154.404	141.471	1.00	0.78	N
ATOM	2663	CA	SER	A	340	99.106	155.817	141.205	1.00	0.78	C
ATOM	2664	C	SER	A	340	100.299	156.239	140.398	1.00	0.78	C
ATOM	2665	O	SER	A	340	101.174	155.422	140.108	1.00	0.78	O
ATOM	2666	CB	SER	A	340	98.982	156.706	142.484	1.00	0.78	C
ATOM	2667	OG	SER	A	340	100.179	156.751	143.274	1.00	0.78	O
ATOM	2668	N	ASP	A	341	100.372	157.522	140.002	1.00	0.65	N
ATOM	2669	CA	ASP	A	341	101.518	158.086	139.321	1.00	0.65	C
ATOM	2670	C	ASP	A	341	102.856	157.777	139.996	1.00	0.65	C
ATOM	2671	O	ASP	A	341	103.044	157.915	141.211	1.00	0.65	O
ATOM	2672	CB	ASP	A	341	101.344	159.610	139.130	1.00	0.65	C
ATOM	2673	CG	ASP	A	341	100.039	159.892	138.406	1.00	0.65	C
ATOM	2674	OD1	ASP	A	341	99.655	159.066	137.540	1.00	0.65	O
ATOM	2675	OD2	ASP	A	341	99.396	160.911	138.751	1.00	0.65	O
ATOM	2676	N	ARG	A	342	103.805	157.260	139.191	1.00	0.50	N
ATOM	2677	CA	ARG	A	342	105.090	156.794	139.659	1.00	0.50	C
ATOM	2678	C	ARG	A	342	105.947	157.899	140.265	1.00	0.50	C
ATOM	2679	O	ARG	A	342	106.043	159.002	139.734	1.00	0.50	O
ATOM	2680	CB	ARG	A	342	105.866	156.052	138.537	1.00	0.50	C
ATOM	2681	CG	ARG	A	342	106.318	156.958	137.372	1.00	0.50	C
ATOM	2682	CD	ARG	A	342	107.116	156.233	136.288	1.00	0.50	C
ATOM	2683	NE	ARG	A	342	107.523	157.301	135.319	1.00	0.50	N
ATOM	2684	CZ	ARG	A	342	108.171	157.086	134.168	1.00	0.50	C
ATOM	2685	NH1	ARG	A	342	108.600	155.876	133.825	1.00	0.50	N
ATOM	2686	NH2	ARG	A	342	108.382	158.107	133.340	1.00	0.50	N
ATOM	2687	N	THR	A	343	106.626	157.610	141.388	1.00	0.60	N
ATOM	2688	CA	THR	A	343	107.442	158.605	142.078	1.00	0.60	C
ATOM	2689	C	THR	A	343	108.079	157.932	143.272	1.00	0.60	C
ATOM	2690	O	THR	A	343	107.462	157.118	143.962	1.00	0.60	O
ATOM	2691	CB	THR	A	343	106.730	159.904	142.515	1.00	0.60	C
ATOM	2692	OG1	THR	A	343	107.615	160.788	143.190	1.00	0.60	O
ATOM	2693	CG2	THR	A	343	105.542	159.633	143.448	1.00	0.60	C
ATOM	2694	N	LEU	A	344	109.366	158.224	143.508	1.00	0.56	N
ATOM	2695	CA	LEU	A	344	110.179	157.638	144.551	1.00	0.56	C
ATOM	2696	C	LEU	A	344	110.514	158.701	145.578	1.00	0.56	C
ATOM	2697	O	LEU	A	344	111.597	159.278	145.577	1.00	0.56	O
ATOM	2698	CB	LEU	A	344	111.465	157.018	143.955	1.00	0.56	C
ATOM	2699	CG	LEU	A	344	112.401	156.310	144.962	1.00	0.56	C
ATOM	2700	CD1	LEU	A	344	111.697	155.272	145.848	1.00	0.56	C
ATOM	2701	CD2	LEU	A	344	113.561	155.643	144.216	1.00	0.56	C
ATOM	2702	N	ASP	A	345	109.554	158.988	146.470	1.00	0.58	N
ATOM	2703	CA	ASP	A	345	109.730	159.928	147.546	1.00	0.58	C
ATOM	2704	C	ASP	A	345	108.686	159.568	148.596	1.00	0.58	C
ATOM	2705	O	ASP	A	345	107.772	158.775	148.339	1.00	0.58	O
ATOM	2706	CB	ASP	A	345	109.576	161.393	147.049	1.00	0.58	C
ATOM	2707	CG	ASP	A	345	110.180	162.397	148.021	1.00	0.58	C
ATOM	2708	OD1	ASP	A	345	110.707	161.960	149.080	1.00	0.58	O
ATOM	2709	OD2	ASP	A	345	110.107	163.609	147.711	1.00	0.58	O
ATOM	2710	N	VAL	A	346	108.809	160.121	149.811	1.00	0.62	N
ATOM	2711	CA	VAL	A	346	107.947	159.811	150.936	1.00	0.62	C
ATOM	2712	C	VAL	A	346	107.024	160.981	151.192	1.00	0.62	C
ATOM	2713	O	VAL	A	346	107.409	162.027	151.699	1.00	0.62	O
ATOM	2714	CB	VAL	A	346	108.729	159.438	152.193	1.00	0.62	C
ATOM	2715	CG1	VAL	A	346	107.787	159.176	153.390	1.00	0.62	C
ATOM	2716	CG2	VAL	A	346	109.563	158.175	151.896	1.00	0.62	C
ATOM	2717	N	LYS	A	347	105.733	160.818	150.829	1.00	0.56	N
ATOM	2718	CA	LYS	A	347	104.729	161.864	150.912	1.00	0.56	C
ATOM	2719	C	LYS	A	347	104.476	162.425	152.321	1.00	0.56	C

ATOM	2720	O	LYS	A	347	103.790	161.821	153.149	1.00	0.56	O
ATOM	2721	CB	LYS	A	347	103.397	161.356	150.291	1.00	0.56	C
ATOM	2722	CG	LYS	A	347	102.352	162.464	150.073	1.00	0.56	C
ATOM	2723	CD	LYS	A	347	100.900	162.121	150.478	1.00	0.56	C
ATOM	2724	CE	LYS	A	347	100.671	161.776	151.957	1.00	0.56	C
ATOM	2725	NZ	LYS	A	347	101.247	162.820	152.789	1.00	0.56	N
ATOM	2726	N	THR	A	348	104.979	163.644	152.573	1.00	0.52	N
ATOM	2727	CA	THR	A	348	105.141	164.328	153.854	1.00	0.52	C
ATOM	2728	C	THR	A	348	103.900	164.577	154.698	1.00	0.52	C
ATOM	2729	O	THR	A	348	103.851	164.286	155.889	1.00	0.52	O
ATOM	2730	CB	THR	A	348	105.756	165.698	153.572	1.00	0.52	C
ATOM	2731	OG1	THR	A	348	106.775	165.567	152.593	1.00	0.52	O
ATOM	2732	CG2	THR	A	348	106.432	166.243	154.824	1.00	0.52	C
ATOM	2733	N	ASP	A	349	102.837	165.096	154.065	1.00	0.54	N
ATOM	2734	CA	ASP	A	349	101.585	165.655	154.586	1.00	0.54	C
ATOM	2735	C	ASP	A	349	100.607	164.616	155.148	1.00	0.54	C
ATOM	2736	O	ASP	A	349	99.429	164.562	154.811	1.00	0.54	O
ATOM	2737	CB	ASP	A	349	100.874	166.478	153.449	1.00	0.54	C
ATOM	2738	CG	ASP	A	349	101.560	166.273	152.108	1.00	0.54	C
ATOM	2739	OD1	ASP	A	349	102.319	167.155	151.664	1.00	0.54	O
ATOM	2740	OD2	ASP	A	349	101.455	165.118	151.612	1.00	0.54	O
ATOM	2741	N	THR	A	350	101.078	163.672	155.971	1.00	0.55	N
ATOM	2742	CA	THR	A	350	100.220	162.647	156.555	1.00	0.55	C
ATOM	2743	C	THR	A	350	99.949	162.999	157.994	1.00	0.55	C
ATOM	2744	O	THR	A	350	100.756	163.653	158.648	1.00	0.55	O
ATOM	2745	CB	THR	A	350	100.781	161.234	156.430	1.00	0.55	C
ATOM	2746	OG1	THR	A	350	99.855	160.258	156.874	1.00	0.55	O
ATOM	2747	CG2	THR	A	350	102.104	161.029	157.179	1.00	0.55	C
ATOM	2748	N	GLY	A	351	98.771	162.597	158.521	1.00	0.60	N
ATOM	2749	CA	GLY	A	351	98.456	162.757	159.931	1.00	0.60	C
ATOM	2750	C	GLY	A	351	99.306	161.915	160.844	1.00	0.60	C
ATOM	2751	O	GLY	A	351	100.076	161.051	160.425	1.00	0.60	O
ATOM	2752	N	SER	A	352	99.149	162.148	162.153	1.00	0.63	N
ATOM	2753	CA	SER	A	352	99.871	161.401	163.162	1.00	0.63	C
ATOM	2754	C	SER	A	352	99.032	161.238	164.401	1.00	0.63	C
ATOM	2755	O	SER	A	352	99.528	160.829	165.450	1.00	0.63	O
ATOM	2756	CB	SER	A	352	101.209	162.090	163.567	1.00	0.63	C
ATOM	2757	OG	SER	A	352	101.012	163.435	164.017	1.00	0.63	O
ATOM	2758	N	GLY	A	353	97.708	161.508	164.306	1.00	0.49	N
ATOM	2759	CA	GLY	A	353	96.831	161.579	165.475	1.00	0.49	C
ATOM	2760	C	GLY	A	353	96.633	160.252	166.146	1.00	0.49	C
ATOM	2761	O	GLY	A	353	96.612	160.158	167.368	1.00	0.49	O
ATOM	2762	N	GLU	A	354	96.559	159.188	165.332	1.00	0.57	N
ATOM	2763	CA	GLU	A	354	96.301	157.842	165.793	1.00	0.57	C
ATOM	2764	C	GLU	A	354	97.579	157.016	165.897	1.00	0.57	C
ATOM	2765	O	GLU	A	354	97.576	155.842	166.271	1.00	0.57	O
ATOM	2766	CB	GLU	A	354	95.377	157.146	164.764	1.00	0.57	C
ATOM	2767	CG	GLU	A	354	94.001	157.829	164.572	1.00	0.57	C
ATOM	2768	CD	GLU	A	354	93.146	157.747	165.830	1.00	0.57	C
ATOM	2769	OE1	GLU	A	354	92.872	156.597	166.265	1.00	0.57	O
ATOM	2770	OE2	GLU	A	354	92.754	158.817	166.355	1.00	0.57	O
ATOM	2771	N	LEU	A	355	98.755	157.603	165.584	1.00	0.72	N
ATOM	2772	CA	LEU	A	355	99.991	156.838	165.497	1.00	0.72	C
ATOM	2773	C	LEU	A	355	100.561	156.447	166.852	1.00	0.72	C
ATOM	2774	O	LEU	A	355	101.337	155.502	166.967	1.00	0.72	O
ATOM	2775	CB	LEU	A	355	101.070	157.587	164.669	1.00	0.72	C
ATOM	2776	CG	LEU	A	355	100.888	157.463	163.142	1.00	0.72	C
ATOM	2777	CD1	LEU	A	355	101.903	158.322	162.373	1.00	0.72	C
ATOM	2778	CD2	LEU	A	355	101.067	156.008	162.691	1.00	0.72	C
ATOM	2779	N	LEU	A	356	100.143	157.118	167.936	1.00	0.60	N
ATOM	2780	CA	LEU	A	356	100.663	156.844	169.261	1.00	0.60	C
ATOM	2781	C	LEU	A	356	99.785	155.873	170.042	1.00	0.60	C
ATOM	2782	O	LEU	A	356	100.100	155.527	171.176	1.00	0.60	O
ATOM	2783	CB	LEU	A	356	100.809	158.173	170.043	1.00	0.60	C
ATOM	2784	CG	LEU	A	356	101.740	159.204	169.364	1.00	0.60	C

ATOM	2785	CD1	LEU	A	356	101.779	160.509	170.170	1.00	0.60	C
ATOM	2786	CD2	LEU	A	356	103.169	158.666	169.199	1.00	0.60	C
ATOM	2787	N	ASN	A	357	98.686	155.366	169.436	1.00	0.55	N
ATOM	2788	CA	ASN	A	357	97.682	154.543	170.106	1.00	0.55	C
ATOM	2789	C	ASN	A	357	98.189	153.223	170.674	1.00	0.55	C
ATOM	2790	O	ASN	A	357	97.853	152.841	171.790	1.00	0.55	O
ATOM	2791	CB	ASN	A	357	96.520	154.191	169.138	1.00	0.55	C
ATOM	2792	CG	ASN	A	357	95.726	155.440	168.763	1.00	0.55	C
ATOM	2793	OD1	ASN	A	357	96.007	156.543	169.227	1.00	0.55	O
ATOM	2794	ND2	ASN	A	357	94.707	155.244	167.898	1.00	0.55	N
ATOM	2795	N	HIS	A	358	99.010	152.470	169.911	1.00	0.56	N
ATOM	2796	CA	HIS	A	358	99.683	151.294	170.450	1.00	0.56	C
ATOM	2797	C	HIS	A	358	100.903	151.677	171.266	1.00	0.56	C
ATOM	2798	O	HIS	A	358	101.129	151.151	172.350	1.00	0.56	O
ATOM	2799	CB	HIS	A	358	100.092	150.298	169.326	1.00	0.56	C
ATOM	2800	CG	HIS	A	358	101.042	149.195	169.729	1.00	0.56	C
ATOM	2801	ND1	HIS	A	358	102.304	149.151	169.156	1.00	0.56	N
ATOM	2802	CD2	HIS	A	358	100.881	148.154	170.590	1.00	0.56	C
ATOM	2803	CE1	HIS	A	358	102.877	148.081	169.681	1.00	0.56	C
ATOM	2804	NE2	HIS	A	358	102.064	147.446	170.554	1.00	0.56	N
ATOM	2805	N	GLY	A	359	101.721	152.614	170.749	1.00	0.59	N
ATOM	2806	CA	GLY	A	359	103.033	152.923	171.298	1.00	0.59	C
ATOM	2807	C	GLY	A	359	104.125	152.110	170.638	1.00	0.59	C
ATOM	2808	O	GLY	A	359	104.557	152.566	169.585	1.00	0.59	O
ATOM	2809	N	PRO	A	360	104.633	150.973	171.117	1.00	0.72	N
ATOM	2810	CA	PRO	A	360	105.866	150.338	170.638	1.00	0.72	C
ATOM	2811	C	PRO	A	360	106.135	150.256	169.138	1.00	0.72	C
ATOM	2812	O	PRO	A	360	107.216	150.657	168.711	1.00	0.72	O
ATOM	2813	CB	PRO	A	360	105.889	148.983	171.358	1.00	0.72	C
ATOM	2814	CG	PRO	A	360	105.181	149.266	172.685	1.00	0.72	C
ATOM	2815	CD	PRO	A	360	104.104	150.279	172.294	1.00	0.72	C
ATOM	2816	N	TYR	A	361	105.181	149.786	168.312	1.00	0.71	N
ATOM	2817	CA	TYR	A	361	105.317	149.803	166.864	1.00	0.71	C
ATOM	2818	C	TYR	A	361	104.926	151.147	166.269	1.00	0.71	C
ATOM	2819	O	TYR	A	361	105.599	151.679	165.387	1.00	0.71	O
ATOM	2820	CB	TYR	A	361	104.453	148.687	166.218	1.00	0.71	C
ATOM	2821	CG	TYR	A	361	105.258	147.420	166.114	1.00	0.71	C
ATOM	2822	CD1	TYR	A	361	105.411	146.546	167.203	1.00	0.71	C
ATOM	2823	CD2	TYR	A	361	105.896	147.108	164.901	1.00	0.71	C
ATOM	2824	CE1	TYR	A	361	106.149	145.362	167.069	1.00	0.71	C
ATOM	2825	CE2	TYR	A	361	106.655	145.938	164.772	1.00	0.71	C
ATOM	2826	CZ	TYR	A	361	106.753	145.047	165.850	1.00	0.71	C
ATOM	2827	OH	TYR	A	361	107.430	143.818	165.736	1.00	0.71	O
ATOM	2828	N	GLY	A	362	103.814	151.748	166.739	1.00	0.82	N
ATOM	2829	CA	GLY	A	362	103.274	152.976	166.153	1.00	0.82	C
ATOM	2830	C	GLY	A	362	104.129	154.206	166.335	1.00	0.82	C
ATOM	2831	O	GLY	A	362	104.215	155.050	165.447	1.00	0.82	O
ATOM	2832	N	GLU	A	363	104.827	154.313	167.482	1.00	0.73	N
ATOM	2833	CA	GLU	A	363	105.766	155.376	167.797	1.00	0.73	C
ATOM	2834	C	GLU	A	363	106.953	155.366	166.847	1.00	0.73	C
ATOM	2835	O	GLU	A	363	107.333	156.396	166.303	1.00	0.73	O
ATOM	2836	CB	GLU	A	363	106.205	155.302	169.282	1.00	0.73	C
ATOM	2837	CG	GLU	A	363	106.401	156.677	169.976	1.00	0.73	C
ATOM	2838	CD	GLU	A	363	107.598	157.488	169.498	1.00	0.73	C
ATOM	2839	OE1	GLU	A	363	108.740	156.978	169.622	1.00	0.73	O
ATOM	2840	OE2	GLU	A	363	107.381	158.640	169.034	1.00	0.73	O
ATOM	2841	N	LEU	A	364	107.498	154.174	166.508	1.00	0.79	N
ATOM	2842	CA	LEU	A	364	108.557	154.031	165.516	1.00	0.79	C
ATOM	2843	C	LEU	A	364	108.171	154.566	164.141	1.00	0.79	C
ATOM	2844	O	LEU	A	364	108.924	155.304	163.512	1.00	0.79	O
ATOM	2845	CB	LEU	A	364	108.963	152.539	165.372	1.00	0.79	C
ATOM	2846	CG	LEU	A	364	109.984	152.219	164.252	1.00	0.79	C
ATOM	2847	CD1	LEU	A	364	111.345	152.895	164.470	1.00	0.79	C
ATOM	2848	CD2	LEU	A	364	110.172	150.705	164.113	1.00	0.79	C
ATOM	2849	N	TRP	A	365	106.957	154.247	163.649	1.00	0.80	N

ATOM	2850	CA	TRP	A	365	106.431	154.836	162.428	1.00	0.80	C
ATOM	2851	C	TRP	A	365	106.145	156.333	162.552	1.00	0.80	C
ATOM	2852	O	TRP	A	365	106.413	157.097	161.628	1.00	0.80	O
ATOM	2853	CB	TRP	A	365	105.208	154.059	161.894	1.00	0.80	C
ATOM	2854	CG	TRP	A	365	105.571	152.684	161.347	1.00	0.80	C
ATOM	2855	CD1	TRP	A	365	105.518	151.465	161.967	1.00	0.80	C
ATOM	2856	CD2	TRP	A	365	106.028	152.436	160.003	1.00	0.80	C
ATOM	2857	NE1	TRP	A	365	105.920	150.470	161.101	1.00	0.80	N
ATOM	2858	CE2	TRP	A	365	106.228	151.040	159.889	1.00	0.80	C
ATOM	2859	CE3	TRP	A	365	106.262	153.285	158.922	1.00	0.80	C
ATOM	2860	CZ2	TRP	A	365	106.653	150.479	158.696	1.00	0.80	C
ATOM	2861	CZ3	TRP	A	365	106.703	152.714	157.718	1.00	0.80	C
ATOM	2862	CH2	TRP	A	365	106.887	151.325	157.602	1.00	0.80	C
ATOM	2863	N	SER	A	366	105.642	156.809	163.710	1.00	0.78	N
ATOM	2864	CA	SER	A	366	105.478	158.236	164.000	1.00	0.78	C
ATOM	2865	C	SER	A	366	106.788	159.014	163.968	1.00	0.78	C
ATOM	2866	O	SER	A	366	106.908	160.031	163.289	1.00	0.78	O
ATOM	2867	CB	SER	A	366	104.825	158.468	165.390	1.00	0.78	C
ATOM	2868	OG	SER	A	366	104.251	159.773	165.495	1.00	0.78	O
ATOM	2869	N	ARG	A	367	107.846	158.490	164.630	1.00	0.69	N
ATOM	2870	CA	ARG	A	367	109.197	159.017	164.552	1.00	0.69	C
ATOM	2871	C	ARG	A	367	109.738	158.981	163.146	1.00	0.69	C
ATOM	2872	O	ARG	A	367	110.268	159.978	162.664	1.00	0.69	O
ATOM	2873	CB	ARG	A	367	110.194	158.218	165.434	1.00	0.69	C
ATOM	2874	CG	ARG	A	367	109.975	158.353	166.953	1.00	0.69	C
ATOM	2875	CD	ARG	A	367	109.917	159.773	167.520	1.00	0.69	C
ATOM	2876	NE	ARG	A	367	111.158	160.480	167.057	1.00	0.69	N
ATOM	2877	CZ	ARG	A	367	111.373	161.793	167.156	1.00	0.69	C
ATOM	2878	NH1	ARG	A	367	110.510	162.602	167.755	1.00	0.69	N
ATOM	2879	NH2	ARG	A	367	112.484	162.274	166.610	1.00	0.69	N
ATOM	2880	N	CYS	A	368	109.550	157.859	162.423	1.00	0.79	N
ATOM	2881	CA	CYS	A	368	109.989	157.699	161.049	1.00	0.79	C
ATOM	2882	C	CYS	A	368	109.403	158.753	160.134	1.00	0.79	C
ATOM	2883	O	CYS	A	368	110.123	159.415	159.390	1.00	0.79	O
ATOM	2884	CB	CYS	A	368	109.604	156.280	160.526	1.00	0.79	C
ATOM	2885	SG	CYS	A	368	110.083	155.891	158.802	1.00	0.79	S
ATOM	2886	N	PHE	A	369	108.082	158.997	160.215	1.00	0.73	N
ATOM	2887	CA	PHE	A	369	107.488	160.079	159.463	1.00	0.73	C
ATOM	2888	C	PHE	A	369	107.951	161.458	159.914	1.00	0.73	C
ATOM	2889	O	PHE	A	369	108.384	162.248	159.084	1.00	0.73	O
ATOM	2890	CB	PHE	A	369	105.944	159.964	159.390	1.00	0.73	C
ATOM	2891	CG	PHE	A	369	105.556	158.723	158.615	1.00	0.73	C
ATOM	2892	CD1	PHE	A	369	106.080	158.464	157.332	1.00	0.73	C
ATOM	2893	CD2	PHE	A	369	104.670	157.788	159.177	1.00	0.73	C
ATOM	2894	CE1	PHE	A	369	105.771	157.277	156.655	1.00	0.73	C
ATOM	2895	CE2	PHE	A	369	104.352	156.604	158.502	1.00	0.73	C
ATOM	2896	CZ	PHE	A	369	104.912	156.344	157.244	1.00	0.73	C
ATOM	2897	N	LEU	A	370	107.989	161.789	161.220	1.00	0.71	N
ATOM	2898	CA	LEU	A	370	108.464	163.099	161.665	1.00	0.71	C
ATOM	2899	C	LEU	A	370	109.919	163.416	161.312	1.00	0.71	C
ATOM	2900	O	LEU	A	370	110.260	164.533	160.926	1.00	0.71	O
ATOM	2901	CB	LEU	A	370	108.280	163.278	163.191	1.00	0.71	C
ATOM	2902	CG	LEU	A	370	106.808	163.349	163.647	1.00	0.71	C
ATOM	2903	CD1	LEU	A	370	106.727	163.375	165.180	1.00	0.71	C
ATOM	2904	CD2	LEU	A	370	106.062	164.559	163.061	1.00	0.71	C
ATOM	2905	N	GLU	A	371	110.819	162.428	161.431	1.00	0.70	N
ATOM	2906	CA	GLU	A	371	112.219	162.542	161.080	1.00	0.70	C
ATOM	2907	C	GLU	A	371	112.494	162.722	159.588	1.00	0.70	C
ATOM	2908	O	GLU	A	371	113.368	163.509	159.210	1.00	0.70	O
ATOM	2909	CB	GLU	A	371	112.988	161.361	161.711	1.00	0.70	C
ATOM	2910	CG	GLU	A	371	113.051	161.533	163.252	1.00	0.70	C
ATOM	2911	CD	GLU	A	371	113.767	160.418	164.002	1.00	0.70	C
ATOM	2912	OE1	GLU	A	371	114.709	159.812	163.441	1.00	0.70	O
ATOM	2913	OE2	GLU	A	371	113.411	160.241	165.203	1.00	0.70	O
ATOM	2914	N	ILE	A	372	111.744	162.035	158.692	1.00	0.69	N



ATOM	2915	CA	ILE	A	372	111.831	162.273	157.249	1.00	0.69	C
ATOM	2916	C	ILE	A	372	111.152	163.570	156.788	1.00	0.69	C
ATOM	2917	O	ILE	A	372	111.579	164.179	155.813	1.00	0.69	O
ATOM	2918	CB	ILE	A	372	111.391	161.065	156.412	1.00	0.69	C
ATOM	2919	CG1	ILE	A	372	111.875	161.165	154.946	1.00	0.69	C
ATOM	2920	CG2	ILE	A	372	109.866	160.850	156.469	1.00	0.69	C
ATOM	2921	CD1	ILE	A	372	111.915	159.806	154.243	1.00	0.69	C
ATOM	2922	N	VAL	A	373	110.114	164.065	157.510	1.00	0.67	N
ATOM	2923	CA	VAL	A	373	109.395	165.313	157.214	1.00	0.67	C
ATOM	2924	C	VAL	A	373	110.285	166.549	157.240	1.00	0.67	C
ATOM	2925	O	VAL	A	373	110.139	167.446	156.411	1.00	0.67	O
ATOM	2926	CB	VAL	A	373	108.217	165.522	158.191	1.00	0.67	C
ATOM	2927	CG1	VAL	A	373	107.634	166.954	158.201	1.00	0.67	C
ATOM	2928	CG2	VAL	A	373	107.072	164.539	157.878	1.00	0.67	C
ATOM	2929	N	LEU	A	374	111.222	166.638	158.206	1.00	0.59	N
ATOM	2930	CA	LEU	A	374	112.000	167.848	158.417	1.00	0.59	C
ATOM	2931	C	LEU	A	374	113.421	167.733	157.881	1.00	0.59	C
ATOM	2932	O	LEU	A	374	113.781	168.339	156.877	1.00	0.59	O
ATOM	2933	CB	LEU	A	374	112.040	168.233	159.920	1.00	0.59	C
ATOM	2934	CG	LEU	A	374	110.654	168.369	160.584	1.00	0.59	C
ATOM	2935	CD1	LEU	A	374	110.811	168.602	162.092	1.00	0.59	C
ATOM	2936	CD2	LEU	A	374	109.809	169.497	159.974	1.00	0.59	C
ATOM	2937	N	GLY	A	375	114.303	166.975	158.564	1.00	0.60	N
ATOM	2938	CA	GLY	A	375	115.698	166.953	158.153	1.00	0.60	C
ATOM	2939	C	GLY	A	375	116.581	166.113	159.017	1.00	0.60	C
ATOM	2940	O	GLY	A	375	117.651	166.554	159.411	1.00	0.60	O
ATOM	2941	N	ASN	A	376	116.176	164.863	159.318	1.00	0.55	N
ATOM	2942	CA	ASN	A	376	117.010	163.934	160.077	1.00	0.55	C
ATOM	2943	C	ASN	A	376	117.584	162.859	159.149	1.00	0.55	C
ATOM	2944	O	ASN	A	376	118.120	161.844	159.583	1.00	0.55	O
ATOM	2945	CB	ASN	A	376	116.169	163.284	161.213	1.00	0.55	C
ATOM	2946	CG	ASN	A	376	117.055	162.815	162.365	1.00	0.55	C
ATOM	2947	OD1	ASN	A	376	117.939	163.549	162.809	1.00	0.55	O
ATOM	2948	ND2	ASN	A	376	116.814	161.603	162.914	1.00	0.55	N
ATOM	2949	N	VAL	A	377	117.460	163.060	157.822	1.00	0.56	N
ATOM	2950	CA	VAL	A	377	117.933	162.127	156.815	1.00	0.56	C
ATOM	2951	C	VAL	A	377	119.388	162.367	156.423	1.00	0.56	C
ATOM	2952	O	VAL	A	377	119.833	163.496	156.223	1.00	0.56	O
ATOM	2953	CB	VAL	A	377	117.067	162.125	155.554	1.00	0.56	C
ATOM	2954	CG1	VAL	A	377	115.648	161.647	155.913	1.00	0.56	C
ATOM	2955	CG2	VAL	A	377	117.008	163.505	154.862	1.00	0.56	C
ATOM	2956	N	GLU	A	378	120.170	161.278	156.277	1.00	0.48	N
ATOM	2957	CA	GLU	A	378	121.559	161.329	155.843	1.00	0.48	C
ATOM	2958	C	GLU	A	378	121.647	160.738	154.441	1.00	0.48	C
ATOM	2959	O	GLU	A	378	120.806	159.937	154.055	1.00	0.48	O
ATOM	2960	CB	GLU	A	378	122.492	160.493	156.757	1.00	0.48	C
ATOM	2961	CG	GLU	A	378	122.442	160.860	158.248	1.00	0.48	C
ATOM	2962	CD	GLU	A	378	123.195	159.906	159.148	1.00	0.48	C
ATOM	2963	OE1	GLU	A	378	123.879	158.922	158.743	1.00	0.48	O
ATOM	2964	OE2	GLU	A	378	123.065	160.156	160.374	1.00	0.48	O
ATOM	2965	N	GLY	A	379	122.662	161.100	153.625	1.00	0.47	N
ATOM	2966	CA	GLY	A	379	122.747	160.643	152.235	1.00	0.47	C
ATOM	2967	C	GLY	A	379	123.515	159.361	152.035	1.00	0.47	C
ATOM	2968	O	GLY	A	379	124.712	159.292	152.298	1.00	0.47	O
ATOM	2969	N	VAL	A	380	122.861	158.313	151.499	1.00	0.47	N
ATOM	2970	CA	VAL	A	380	123.520	157.070	151.124	1.00	0.47	C
ATOM	2971	C	VAL	A	380	123.327	156.833	149.644	1.00	0.47	C
ATOM	2972	O	VAL	A	380	122.210	156.750	149.142	1.00	0.47	O
ATOM	2973	CB	VAL	A	380	122.977	155.866	151.883	1.00	0.47	C
ATOM	2974	CG1	VAL	A	380	123.636	154.542	151.433	1.00	0.47	C
ATOM	2975	CG2	VAL	A	380	123.235	156.088	153.375	1.00	0.47	C
ATOM	2976	N	ILE	A	381	124.438	156.702	148.896	1.00	0.44	N
ATOM	2977	CA	ILE	A	381	124.398	156.517	147.456	1.00	0.44	C
ATOM	2978	C	ILE	A	381	124.894	155.122	147.104	1.00	0.44	C
ATOM	2979	O	ILE	A	381	126.085	154.821	147.217	1.00	0.44	O

ATOM	2980	CB	ILE	A	381	125.263	157.553	146.733	1.00	0.44	C
ATOM	2981	CG1	ILE	A	381	124.752	158.984	147.029	1.00	0.44	C
ATOM	2982	CG2	ILE	A	381	125.250	157.275	145.211	1.00	0.44	C
ATOM	2983	CD1	ILE	A	381	125.678	160.093	146.514	1.00	0.44	C
ATOM	2984	N	SER	A	382	123.998	154.249	146.610	1.00	0.56	N
ATOM	2985	CA	SER	A	382	124.350	152.967	146.001	1.00	0.56	C
ATOM	2986	C	SER	A	382	124.281	153.181	144.508	1.00	0.56	C
ATOM	2987	O	SER	A	382	123.251	153.584	143.982	1.00	0.56	O
ATOM	2988	CB	SER	A	382	123.360	151.832	146.362	1.00	0.56	C
ATOM	2989	OG	SER	A	382	123.454	151.500	147.749	1.00	0.56	O
ATOM	2990	N	SER	A	383	125.380	153.014	143.757	1.00	0.63	N
ATOM	2991	CA	SER	A	383	125.410	153.542	142.398	1.00	0.63	C
ATOM	2992	C	SER	A	383	126.071	152.550	141.496	1.00	0.63	C
ATOM	2993	O	SER	A	383	127.232	152.251	141.767	1.00	0.63	O
ATOM	2994	CB	SER	A	383	126.224	154.858	142.286	1.00	0.63	C
ATOM	2995	OG	SER	A	383	126.271	155.379	140.951	1.00	0.63	O
ATOM	2996	N	PRO	A	384	125.421	152.087	140.417	1.00	0.70	N
ATOM	2997	CA	PRO	A	384	125.658	150.791	139.780	1.00	0.70	C
ATOM	2998	C	PRO	A	384	127.100	150.418	139.521	1.00	0.70	C
ATOM	2999	O	PRO	A	384	127.466	149.259	139.662	1.00	0.70	O
ATOM	3000	CB	PRO	A	384	124.805	150.857	138.492	1.00	0.70	C
ATOM	3001	CG	PRO	A	384	124.448	152.334	138.315	1.00	0.70	C
ATOM	3002	CD	PRO	A	384	124.316	152.790	139.757	1.00	0.70	C
ATOM	3003	N	GLU	A	385	127.929	151.399	139.156	1.00	0.65	N
ATOM	3004	CA	GLU	A	385	129.358	151.338	138.952	1.00	0.65	C
ATOM	3005	C	GLU	A	385	130.155	150.746	140.118	1.00	0.65	C
ATOM	3006	O	GLU	A	385	131.112	149.994	139.924	1.00	0.65	O
ATOM	3007	CB	GLU	A	385	129.726	152.821	138.774	1.00	0.65	C
ATOM	3008	CG	GLU	A	385	131.214	153.195	138.666	1.00	0.65	C
ATOM	3009	CD	GLU	A	385	131.321	154.717	138.663	1.00	0.65	C
ATOM	3010	OE1	GLU	A	385	132.014	155.235	137.759	1.00	0.65	O
ATOM	3011	OE2	GLU	A	385	130.660	155.384	139.516	1.00	0.65	O
ATOM	3012	N	LYS	A	386	129.763	151.051	141.373	1.00	0.61	N
ATOM	3013	CA	LYS	A	386	130.381	150.508	142.569	1.00	0.61	C
ATOM	3014	C	LYS	A	386	130.201	149.004	142.684	1.00	0.61	C
ATOM	3015	O	LYS	A	386	131.147	148.258	142.929	1.00	0.61	O
ATOM	3016	CB	LYS	A	386	129.754	151.125	143.842	1.00	0.61	C
ATOM	3017	CG	LYS	A	386	129.831	152.654	143.939	1.00	0.61	C
ATOM	3018	CD	LYS	A	386	129.222	153.115	145.272	1.00	0.61	C
ATOM	3019	CE	LYS	A	386	129.184	154.630	145.443	1.00	0.61	C
ATOM	3020	NZ	LYS	A	386	128.732	154.955	146.809	1.00	0.61	N
ATOM	3021	N	GLU	A	387	128.967	148.527	142.443	1.00	0.62	N
ATOM	3022	CA	GLU	A	387	128.564	147.145	142.576	1.00	0.62	C
ATOM	3023	C	GLU	A	387	129.052	146.270	141.423	1.00	0.62	C
ATOM	3024	O	GLU	A	387	129.009	145.043	141.492	1.00	0.62	O
ATOM	3025	CB	GLU	A	387	127.020	147.062	142.685	1.00	0.62	C
ATOM	3026	CG	GLU	A	387	126.409	147.686	143.980	1.00	0.62	C
ATOM	3027	CD	GLU	A	387	126.432	149.216	144.064	1.00	0.62	C
ATOM	3028	OE1	GLU	A	387	126.236	149.861	143.005	1.00	0.62	O
ATOM	3029	OE2	GLU	A	387	126.631	149.776	145.175	1.00	0.62	O
ATOM	3030	N	LEU	A	388	129.558	146.889	140.337	1.00	0.64	N
ATOM	3031	CA	LEU	A	388	130.218	146.199	139.240	1.00	0.64	C
ATOM	3032	C	LEU	A	388	131.733	146.218	139.386	1.00	0.64	C
ATOM	3033	O	LEU	A	388	132.447	145.757	138.495	1.00	0.64	O
ATOM	3034	CB	LEU	A	388	129.896	146.882	137.884	1.00	0.64	C
ATOM	3035	CG	LEU	A	388	128.399	146.951	137.519	1.00	0.64	C
ATOM	3036	CD1	LEU	A	388	128.200	147.655	136.167	1.00	0.64	C
ATOM	3037	CD2	LEU	A	388	127.674	145.598	137.577	1.00	0.64	C
ATOM	3038	N	GLU	A	389	132.249	146.781	140.501	1.00	0.64	N
ATOM	3039	CA	GLU	A	389	133.657	146.865	140.856	1.00	0.64	C
ATOM	3040	C	GLU	A	389	134.552	147.481	139.775	1.00	0.64	C
ATOM	3041	O	GLU	A	389	135.669	147.041	139.515	1.00	0.64	O
ATOM	3042	CB	GLU	A	389	134.210	145.532	141.442	1.00	0.64	C
ATOM	3043	CG	GLU	A	389	133.523	145.099	142.769	1.00	0.64	C
ATOM	3044	CD	GLU	A	389	134.129	143.849	143.419	1.00	0.64	C

ATOM	3045	OE1	GLU	A	389	133.871	143.650	144.641	1.00	0.64	O
ATOM	3046	OE2	GLU	A	389	134.839	143.080	142.717	1.00	0.64	O
ATOM	3047	N	ILE	A	390	134.097	148.591	139.138	1.00	0.63	N
ATOM	3048	CA	ILE	A	390	134.817	149.257	138.046	1.00	0.63	C
ATOM	3049	C	ILE	A	390	136.185	149.767	138.469	1.00	0.63	C
ATOM	3050	O	ILE	A	390	137.158	149.660	137.731	1.00	0.63	O
ATOM	3051	CB	ILE	A	390	134.009	150.395	137.412	1.00	0.63	C
ATOM	3052	CG1	ILE	A	390	132.636	149.905	136.896	1.00	0.63	C
ATOM	3053	CG2	ILE	A	390	134.790	151.082	136.263	1.00	0.63	C
ATOM	3054	CD1	ILE	A	390	132.692	148.780	135.859	1.00	0.63	C
ATOM	3055	N	ALA	A	391	136.304	150.276	139.711	1.00	0.39	N
ATOM	3056	CA	ALA	A	391	137.519	150.826	140.285	1.00	0.39	C
ATOM	3057	C	ALA	A	391	138.732	149.892	140.285	1.00	0.39	C
ATOM	3058	O	ALA	A	391	139.872	150.348	140.291	1.00	0.39	O
ATOM	3059	CB	ALA	A	391	137.216	151.273	141.729	1.00	0.39	C
ATOM	3060	N	ILE	A	392	138.509	148.560	140.240	1.00	0.33	N
ATOM	3061	CA	ILE	A	392	139.539	147.536	140.130	1.00	0.33	C
ATOM	3062	C	ILE	A	392	140.358	147.672	138.846	1.00	0.33	C
ATOM	3063	O	ILE	A	392	141.555	147.394	138.832	1.00	0.33	O
ATOM	3064	CB	ILE	A	392	138.930	146.135	140.254	1.00	0.33	C
ATOM	3065	CG1	ILE	A	392	138.084	145.978	141.545	1.00	0.33	C
ATOM	3066	CG2	ILE	A	392	140.018	145.040	140.186	1.00	0.33	C
ATOM	3067	CD1	ILE	A	392	138.847	146.162	142.863	1.00	0.33	C
ATOM	3068	N	SER	A	393	139.749	148.152	137.736	1.00	0.36	N
ATOM	3069	CA	SER	A	393	140.402	148.293	136.435	1.00	0.36	C
ATOM	3070	C	SER	A	393	141.597	149.227	136.393	1.00	0.36	C
ATOM	3071	O	SER	A	393	142.507	148.996	135.597	1.00	0.36	O
ATOM	3072	CB	SER	A	393	139.445	148.700	135.276	1.00	0.36	C
ATOM	3073	OG	SER	A	393	138.974	150.047	135.388	1.00	0.36	O
ATOM	3074	N	ASP	A	394	141.597	150.293	137.232	1.00	0.35	N
ATOM	3075	CA	ASP	A	394	142.689	151.247	137.371	1.00	0.35	C
ATOM	3076	C	ASP	A	394	142.827	152.124	136.106	1.00	0.35	C
ATOM	3077	O	ASP	A	394	143.906	152.465	135.623	1.00	0.35	O
ATOM	3078	CB	ASP	A	394	143.939	150.441	137.846	1.00	0.35	C
ATOM	3079	CG	ASP	A	394	145.102	151.204	138.444	1.00	0.35	C
ATOM	3080	OD1	ASP	A	394	146.201	150.567	138.452	1.00	0.35	O
ATOM	3081	OD2	ASP	A	394	144.924	152.343	138.930	1.00	0.35	O
ATOM	3082	N	ASP	A	395	141.662	152.533	135.550	1.00	0.42	N
ATOM	3083	CA	ASP	A	395	141.523	153.422	134.413	1.00	0.42	C
ATOM	3084	C	ASP	A	395	141.061	154.790	134.944	1.00	0.42	C
ATOM	3085	O	ASP	A	395	139.950	154.886	135.474	1.00	0.42	O
ATOM	3086	CB	ASP	A	395	140.488	152.804	133.421	1.00	0.42	C
ATOM	3087	CG	ASP	A	395	140.154	153.665	132.208	1.00	0.42	C
ATOM	3088	OD1	ASP	A	395	140.757	154.756	132.052	1.00	0.42	O
ATOM	3089	OD2	ASP	A	395	139.234	153.252	131.454	1.00	0.42	O
ATOM	3090	N	PRO	A	396	141.837	155.872	134.852	1.00	0.35	N
ATOM	3091	CA	PRO	A	396	141.403	157.187	135.302	1.00	0.35	C
ATOM	3092	C	PRO	A	396	140.600	157.932	134.242	1.00	0.35	C
ATOM	3093	O	PRO	A	396	140.082	158.997	134.575	1.00	0.35	O
ATOM	3094	CB	PRO	A	396	142.733	157.899	135.608	1.00	0.35	C
ATOM	3095	CG	PRO	A	396	143.715	157.303	134.596	1.00	0.35	C
ATOM	3096	CD	PRO	A	396	143.262	155.845	134.505	1.00	0.35	C
ATOM	3097	N	GLU	A	397	140.488	157.445	132.985	1.00	0.35	N
ATOM	3098	CA	GLU	A	397	139.798	158.164	131.917	1.00	0.35	C
ATOM	3099	C	GLU	A	397	138.472	157.506	131.560	1.00	0.35	C
ATOM	3100	O	GLU	A	397	137.733	157.943	130.670	1.00	0.35	O
ATOM	3101	CB	GLU	A	397	140.687	158.303	130.661	1.00	0.35	C
ATOM	3102	CG	GLU	A	397	141.946	159.165	130.935	1.00	0.35	C
ATOM	3103	CD	GLU	A	397	142.590	159.759	129.682	1.00	0.35	C
ATOM	3104	OE1	GLU	A	397	141.878	159.953	128.663	1.00	0.35	O
ATOM	3105	OE2	GLU	A	397	143.802	160.089	129.777	1.00	0.35	O
ATOM	3106	N	ALA	A	398	138.115	156.448	132.311	1.00	0.39	N
ATOM	3107	CA	ALA	A	398	136.800	155.857	132.414	1.00	0.39	C
ATOM	3108	C	ALA	A	398	135.616	156.826	132.592	1.00	0.39	C
ATOM	3109	O	ALA	A	398	135.725	158.045	132.702	1.00	0.39	O

ATOM	3110	CB	ALA	A	398	136.795	154.743	133.484	1.00	0.39	C
ATOM	3111	N	ASP	A	399	134.389	156.280	132.558	1.00	0.42	N
ATOM	3112	CA	ASP	A	399	133.180	157.065	132.654	1.00	0.42	C
ATOM	3113	C	ASP	A	399	132.840	157.419	134.089	1.00	0.42	C
ATOM	3114	O	ASP	A	399	133.316	156.779	135.019	1.00	0.42	O
ATOM	3115	CB	ASP	A	399	132.038	156.255	132.009	1.00	0.42	C
ATOM	3116	CG	ASP	A	399	130.996	157.157	131.402	1.00	0.42	C
ATOM	3117	OD1	ASP	A	399	129.822	157.140	131.820	1.00	0.42	O
ATOM	3118	OD2	ASP	A	399	131.395	157.856	130.436	1.00	0.42	O
ATOM	3119	N	THR	A	400	132.005	158.455	134.288	1.00	0.47	N
ATOM	3120	CA	THR	A	400	131.491	158.817	135.598	1.00	0.47	C
ATOM	3121	C	THR	A	400	129.970	158.933	135.495	1.00	0.47	C
ATOM	3122	O	THR	A	400	129.464	159.795	134.769	1.00	0.47	O
ATOM	3123	CB	THR	A	400	132.080	160.097	136.196	1.00	0.47	C
ATOM	3124	OG1	THR	A	400	131.982	161.228	135.337	1.00	0.47	O
ATOM	3125	CG2	THR	A	400	133.577	159.870	136.443	1.00	0.47	C
ATOM	3126	N	PRO	A	401	129.162	158.110	136.175	1.00	0.54	N
ATOM	3127	CA	PRO	A	401	127.709	158.176	136.053	1.00	0.54	C
ATOM	3128	C	PRO	A	401	127.157	159.449	136.670	1.00	0.54	C
ATOM	3129	O	PRO	A	401	127.668	159.884	137.698	1.00	0.54	O
ATOM	3130	CB	PRO	A	401	127.188	156.938	136.810	1.00	0.54	C
ATOM	3131	CG	PRO	A	401	128.357	155.949	136.816	1.00	0.54	C
ATOM	3132	CD	PRO	A	401	129.605	156.824	136.707	1.00	0.54	C
ATOM	3133	N	LYS	A	402	126.127	160.063	136.061	1.00	0.67	N
ATOM	3134	CA	LYS	A	402	125.705	161.416	136.374	1.00	0.67	C
ATOM	3135	C	LYS	A	402	124.510	161.439	137.312	1.00	0.67	C
ATOM	3136	O	LYS	A	402	124.639	161.264	138.516	1.00	0.67	O
ATOM	3137	CB	LYS	A	402	125.382	162.117	135.035	1.00	0.67	C
ATOM	3138	CG	LYS	A	402	126.612	162.174	134.120	1.00	0.67	C
ATOM	3139	CD	LYS	A	402	126.240	162.611	132.703	1.00	0.67	C
ATOM	3140	CE	LYS	A	402	127.462	162.648	131.790	1.00	0.67	C
ATOM	3141	NZ	LYS	A	402	127.050	163.100	130.452	1.00	0.67	N
ATOM	3142	N	ALA	A	403	123.282	161.597	136.781	1.00	0.66	N
ATOM	3143	CA	ALA	A	403	122.071	161.675	137.576	1.00	0.66	C
ATOM	3144	C	ALA	A	403	121.418	160.305	137.743	1.00	0.66	C
ATOM	3145	O	ALA	A	403	120.236	160.171	138.040	1.00	0.66	O
ATOM	3146	CB	ALA	A	403	121.100	162.671	136.916	1.00	0.66	C
ATOM	3147	N	ALA	A	404	122.215	159.234	137.562	1.00	0.58	N
ATOM	3148	CA	ALA	A	404	121.795	157.860	137.728	1.00	0.58	C
ATOM	3149	C	ALA	A	404	122.217	157.322	139.093	1.00	0.58	C
ATOM	3150	O	ALA	A	404	122.076	156.136	139.399	1.00	0.58	O
ATOM	3151	CB	ALA	A	404	122.432	157.017	136.606	1.00	0.58	C
ATOM	3152	N	LYS	A	405	122.759	158.202	139.963	1.00	0.50	N
ATOM	3153	CA	LYS	A	405	122.936	157.932	141.377	1.00	0.50	C
ATOM	3154	C	LYS	A	405	121.584	157.820	142.096	1.00	0.50	C
ATOM	3155	O	LYS	A	405	120.689	158.629	141.865	1.00	0.50	O
ATOM	3156	CB	LYS	A	405	123.773	159.042	142.082	1.00	0.50	C
ATOM	3157	CG	LYS	A	405	125.102	159.482	141.428	1.00	0.50	C
ATOM	3158	CD	LYS	A	405	126.123	158.375	141.148	1.00	0.50	C
ATOM	3159	CE	LYS	A	405	127.501	158.917	140.741	1.00	0.50	C
ATOM	3160	NZ	LYS	A	405	128.339	157.853	140.132	1.00	0.50	N
ATOM	3161	N	ILE	A	406	121.397	156.833	143.000	1.00	0.45	N
ATOM	3162	CA	ILE	A	406	120.207	156.769	143.846	1.00	0.45	C
ATOM	3163	C	ILE	A	406	120.489	157.495	145.152	1.00	0.45	C
ATOM	3164	O	ILE	A	406	121.643	157.674	145.541	1.00	0.45	O
ATOM	3165	CB	ILE	A	406	119.756	155.325	144.103	1.00	0.45	C
ATOM	3166	CG1	ILE	A	406	118.281	155.159	144.543	1.00	0.45	C
ATOM	3167	CG2	ILE	A	406	120.669	154.649	145.147	1.00	0.45	C
ATOM	3168	CD1	ILE	A	406	117.246	155.717	143.565	1.00	0.45	C
ATOM	3169	N	LYS	A	407	119.440	157.939	145.867	1.00	0.44	N
ATOM	3170	CA	LYS	A	407	119.581	158.549	147.168	1.00	0.44	C
ATOM	3171	C	LYS	A	407	118.760	157.757	148.167	1.00	0.44	C
ATOM	3172	O	LYS	A	407	117.532	157.736	148.114	1.00	0.44	O
ATOM	3173	CB	LYS	A	407	119.087	160.015	147.111	1.00	0.44	C
ATOM	3174	CG	LYS	A	407	119.269	160.813	148.413	1.00	0.44	C

ATOM	3175	CD	LYS	A	407	118.723	162.243	148.263	1.00	0.44	C
ATOM	3176	CE	LYS	A	407	118.914	163.105	149.514	1.00	0.44	C
ATOM	3177	NZ	LYS	A	407	118.289	164.434	149.313	1.00	0.44	N
ATOM	3178	N	TYR	A	408	119.430	157.080	149.113	1.00	0.55	N
ATOM	3179	CA	TYR	A	408	118.794	156.378	150.207	1.00	0.55	C
ATOM	3180	C	TYR	A	408	119.087	157.134	151.485	1.00	0.55	C
ATOM	3181	O	TYR	A	408	120.044	157.902	151.559	1.00	0.55	O
ATOM	3182	CB	TYR	A	408	119.330	154.927	150.365	1.00	0.55	C
ATOM	3183	CG	TYR	A	408	119.070	154.039	149.176	1.00	0.55	C
ATOM	3184	CD1	TYR	A	408	117.924	154.155	148.366	1.00	0.55	C
ATOM	3185	CD2	TYR	A	408	119.991	153.011	148.901	1.00	0.55	C
ATOM	3186	CE1	TYR	A	408	117.705	153.253	147.316	1.00	0.55	C
ATOM	3187	CE2	TYR	A	408	119.772	152.110	147.851	1.00	0.55	C
ATOM	3188	CZ	TYR	A	408	118.627	152.235	147.062	1.00	0.55	C
ATOM	3189	OH	TYR	A	408	118.346	151.309	146.045	1.00	0.55	O
ATOM	3190	N	HIS	A	409	118.257	156.925	152.525	1.00	0.69	N
ATOM	3191	CA	HIS	A	409	118.338	157.689	153.755	1.00	0.69	C
ATOM	3192	C	HIS	A	409	118.661	156.795	154.945	1.00	0.69	C
ATOM	3193	O	HIS	A	409	117.979	155.797	155.169	1.00	0.69	O
ATOM	3194	CB	HIS	A	409	116.996	158.399	154.058	1.00	0.69	C
ATOM	3195	CG	HIS	A	409	116.462	159.249	152.939	1.00	0.69	C
ATOM	3196	ND1	HIS	A	409	117.176	160.343	152.482	1.00	0.69	N
ATOM	3197	CD2	HIS	A	409	115.256	159.186	152.312	1.00	0.69	C
ATOM	3198	CE1	HIS	A	409	116.392	160.917	151.597	1.00	0.69	C
ATOM	3199	NE2	HIS	A	409	115.219	160.261	151.451	1.00	0.69	N
ATOM	3200	N	ARG	A	410	119.695	157.144	155.747	1.00	0.59	N
ATOM	3201	CA	ARG	A	410	119.943	156.541	157.059	1.00	0.59	C
ATOM	3202	C	ARG	A	410	119.103	157.209	158.131	1.00	0.59	C
ATOM	3203	O	ARG	A	410	118.430	158.209	157.889	1.00	0.59	O
ATOM	3204	CB	ARG	A	410	121.413	156.668	157.540	1.00	0.59	C
ATOM	3205	CG	ARG	A	410	122.414	155.772	156.803	1.00	0.59	C
ATOM	3206	CD	ARG	A	410	123.842	156.301	156.954	1.00	0.59	C
ATOM	3207	NE	ARG	A	410	124.753	155.353	156.233	1.00	0.59	N
ATOM	3208	CZ	ARG	A	410	126.035	155.127	156.539	1.00	0.59	C
ATOM	3209	NH1	ARG	A	410	126.591	155.604	157.642	1.00	0.59	N
ATOM	3210	NH2	ARG	A	410	126.782	154.388	155.725	1.00	0.59	N
ATOM	3211	N	PHE	A	411	119.156	156.657	159.358	1.00	0.63	N
ATOM	3212	CA	PHE	A	411	118.353	157.113	160.464	1.00	0.63	C
ATOM	3213	C	PHE	A	411	119.065	156.923	161.785	1.00	0.63	C
ATOM	3214	O	PHE	A	411	120.102	156.266	161.880	1.00	0.63	O
ATOM	3215	CB	PHE	A	411	117.041	156.283	160.505	1.00	0.63	C
ATOM	3216	CG	PHE	A	411	115.781	157.024	160.179	1.00	0.63	C
ATOM	3217	CD1	PHE	A	411	115.700	158.328	159.647	1.00	0.63	C
ATOM	3218	CD2	PHE	A	411	114.598	156.302	160.377	1.00	0.63	C
ATOM	3219	CE1	PHE	A	411	114.459	158.883	159.313	1.00	0.63	C
ATOM	3220	CE2	PHE	A	411	113.364	156.846	160.032	1.00	0.63	C
ATOM	3221	CZ	PHE	A	411	113.294	158.134	159.493	1.00	0.63	C
ATOM	3222	N	ARG	A	412	118.474	157.501	162.847	1.00	0.55	N
ATOM	3223	CA	ARG	A	412	118.915	157.322	164.215	1.00	0.55	C
ATOM	3224	C	ARG	A	412	117.787	157.709	165.184	1.00	0.55	C
ATOM	3225	O	ARG	A	412	117.914	158.721	165.881	1.00	0.55	O
ATOM	3226	CB	ARG	A	412	120.183	158.180	164.483	1.00	0.55	C
ATOM	3227	CG	ARG	A	412	120.867	157.941	165.845	1.00	0.55	C
ATOM	3228	CD	ARG	A	412	121.894	159.028	166.173	1.00	0.55	C
ATOM	3229	NE	ARG	A	412	122.291	158.865	167.610	1.00	0.55	N
ATOM	3230	CZ	ARG	A	412	121.591	159.375	168.629	1.00	0.55	C
ATOM	3231	NH1	ARG	A	412	120.449	160.032	168.477	1.00	0.55	N
ATOM	3232	NH2	ARG	A	412	121.992	159.196	169.885	1.00	0.55	N
ATOM	3233	N	PRO	A	413	116.671	156.983	165.292	1.00	0.71	N
ATOM	3234	CA	PRO	A	413	115.532	157.449	166.066	1.00	0.71	C
ATOM	3235	C	PRO	A	413	115.659	156.896	167.476	1.00	0.71	C
ATOM	3236	O	PRO	A	413	115.766	155.682	167.658	1.00	0.71	O
ATOM	3237	CB	PRO	A	413	114.301	156.858	165.333	1.00	0.71	C
ATOM	3238	CG	PRO	A	413	114.861	156.097	164.119	1.00	0.71	C
ATOM	3239	CD	PRO	A	413	116.306	155.801	164.511	1.00	0.71	C

ATOM	3240	N	GLU	A	414	115.675	157.751	168.516	1.00	0.66	N
ATOM	3241	CA	GLU	A	414	115.797	157.279	169.885	1.00	0.66	C
ATOM	3242	C	GLU	A	414	114.470	156.799	170.451	1.00	0.66	C
ATOM	3243	O	GLU	A	414	113.662	157.553	170.986	1.00	0.66	O
ATOM	3244	CB	GLU	A	414	116.438	158.329	170.815	1.00	0.66	C
ATOM	3245	CG	GLU	A	414	117.884	158.673	170.387	1.00	0.66	C
ATOM	3246	CD	GLU	A	414	118.615	159.564	171.386	1.00	0.66	C
ATOM	3247	OE1	GLU	A	414	118.109	159.802	172.501	1.00	0.66	O
ATOM	3248	OE2	GLU	A	414	119.742	159.997	171.015	1.00	0.66	O
ATOM	3249	N	LEU	A	415	114.221	155.486	170.305	1.00	0.75	N
ATOM	3250	CA	LEU	A	415	113.038	154.812	170.796	1.00	0.75	C
ATOM	3251	C	LEU	A	415	113.037	154.604	172.304	1.00	0.75	C
ATOM	3252	O	LEU	A	415	114.073	154.456	172.956	1.00	0.75	O
ATOM	3253	CB	LEU	A	415	112.834	153.442	170.090	1.00	0.75	C
ATOM	3254	CG	LEU	A	415	112.031	153.490	168.768	1.00	0.75	C
ATOM	3255	CD1	LEU	A	415	110.557	153.868	168.989	1.00	0.75	C
ATOM	3256	CD2	LEU	A	415	112.652	154.411	167.713	1.00	0.75	C
ATOM	3257	N	SER	A	416	111.822	154.560	172.888	1.00	0.74	N
ATOM	3258	CA	SER	A	416	111.572	154.211	174.279	1.00	0.74	C
ATOM	3259	C	SER	A	416	112.122	152.851	174.704	1.00	0.74	C
ATOM	3260	O	SER	A	416	112.335	151.942	173.905	1.00	0.74	O
ATOM	3261	CB	SER	A	416	110.069	154.329	174.673	1.00	0.74	C
ATOM	3262	OG	SER	A	416	109.235	153.433	173.931	1.00	0.74	O
ATOM	3263	N	LEU	A	417	112.412	152.671	176.011	1.00	0.72	N
ATOM	3264	CA	LEU	A	417	113.062	151.471	176.520	1.00	0.72	C
ATOM	3265	C	LEU	A	417	112.300	150.175	176.264	1.00	0.72	C
ATOM	3266	O	LEU	A	417	112.890	149.167	175.884	1.00	0.72	O
ATOM	3267	CB	LEU	A	417	113.344	151.607	178.037	1.00	0.72	C
ATOM	3268	CG	LEU	A	417	114.371	152.700	178.403	1.00	0.72	C
ATOM	3269	CD1	LEU	A	417	114.429	152.886	179.926	1.00	0.72	C
ATOM	3270	CD2	LEU	A	417	115.776	152.371	177.870	1.00	0.72	C
ATOM	3271	N	GLU	A	418	110.964	150.182	176.429	1.00	0.67	N
ATOM	3272	CA	GLU	A	418	110.104	149.044	176.162	1.00	0.67	C
ATOM	3273	C	GLU	A	418	110.113	148.571	174.713	1.00	0.67	C
ATOM	3274	O	GLU	A	418	110.302	147.389	174.431	1.00	0.67	O
ATOM	3275	CB	GLU	A	418	108.660	149.451	176.513	1.00	0.67	C
ATOM	3276	CG	GLU	A	418	108.462	149.804	178.006	1.00	0.67	C
ATOM	3277	CD	GLU	A	418	107.135	150.520	178.254	1.00	0.67	C
ATOM	3278	OE1	GLU	A	418	106.512	150.984	177.264	1.00	0.67	O
ATOM	3279	OE2	GLU	A	418	106.773	150.642	179.449	1.00	0.67	O
ATOM	3280	N	SER	A	419	109.968	149.502	173.748	1.00	0.74	N
ATOM	3281	CA	SER	A	419	110.007	149.206	172.323	1.00	0.74	C
ATOM	3282	C	SER	A	419	111.380	148.779	171.862	1.00	0.74	C
ATOM	3283	O	SER	A	419	111.535	147.809	171.130	1.00	0.74	O
ATOM	3284	CB	SER	A	419	109.519	150.406	171.480	1.00	0.74	C
ATOM	3285	OG	SER	A	419	110.303	151.574	171.718	1.00	0.74	O
ATOM	3286	N	LYS	A	420	112.442	149.452	172.349	1.00	0.70	N
ATOM	3287	CA	LYS	A	420	113.816	149.061	172.100	1.00	0.70	C
ATOM	3288	C	LYS	A	420	114.127	147.654	172.607	1.00	0.70	C
ATOM	3289	O	LYS	A	420	114.766	146.861	171.920	1.00	0.70	O
ATOM	3290	CB	LYS	A	420	114.776	150.096	172.740	1.00	0.70	C
ATOM	3291	CG	LYS	A	420	116.265	149.861	172.440	1.00	0.70	C
ATOM	3292	CD	LYS	A	420	117.151	150.957	173.053	1.00	0.70	C
ATOM	3293	CE	LYS	A	420	118.644	150.718	172.814	1.00	0.70	C
ATOM	3294	NZ	LYS	A	420	119.438	151.802	173.436	1.00	0.70	N
ATOM	3295	N	HIS	A	421	113.636	147.290	173.809	1.00	0.65	N
ATOM	3296	CA	HIS	A	421	113.716	145.936	174.332	1.00	0.65	C
ATOM	3297	C	HIS	A	421	112.951	144.898	173.503	1.00	0.65	C
ATOM	3298	O	HIS	A	421	113.473	143.829	173.193	1.00	0.65	O
ATOM	3299	CB	HIS	A	421	113.209	145.907	175.791	1.00	0.65	C
ATOM	3300	CG	HIS	A	421	113.445	144.601	176.473	1.00	0.65	C
ATOM	3301	ND1	HIS	A	421	114.742	144.231	176.761	1.00	0.65	N
ATOM	3302	CD2	HIS	A	421	112.580	143.620	176.836	1.00	0.65	C
ATOM	3303	CE1	HIS	A	421	114.646	143.033	177.295	1.00	0.65	C
ATOM	3304	NE2	HIS	A	421	113.359	142.613	177.365	1.00	0.65	N

ATOM	3305	N	GLU	A	422	111.703	145.205	173.079	1.00	0.68	N
ATOM	3306	CA	GLU	A	422	110.896	144.356	172.206	1.00	0.68	C
ATOM	3307	C	GLU	A	422	111.533	144.124	170.843	1.00	0.68	C
ATOM	3308	O	GLU	A	422	111.625	142.997	170.346	1.00	0.68	O
ATOM	3309	CB	GLU	A	422	109.494	144.991	171.992	1.00	0.68	C
ATOM	3310	CG	GLU	A	422	108.576	144.224	171.001	1.00	0.68	C
ATOM	3311	CD	GLU	A	422	107.190	144.849	170.838	1.00	0.68	C
ATOM	3312	OE1	GLU	A	422	107.092	146.099	170.769	1.00	0.68	O
ATOM	3313	OE2	GLU	A	422	106.216	144.058	170.740	1.00	0.68	O
ATOM	3314	N	PHE	A	423	112.046	145.197	170.217	1.00	0.71	N
ATOM	3315	CA	PHE	A	423	112.748	145.119	168.958	1.00	0.71	C
ATOM	3316	C	PHE	A	423	114.053	144.332	169.038	1.00	0.71	C
ATOM	3317	O	PHE	A	423	114.302	143.486	168.184	1.00	0.71	O
ATOM	3318	CB	PHE	A	423	113.007	146.529	168.373	1.00	0.71	C
ATOM	3319	CG	PHE	A	423	111.760	147.303	168.015	1.00	0.71	C
ATOM	3320	CD1	PHE	A	423	110.573	146.694	167.558	1.00	0.71	C
ATOM	3321	CD2	PHE	A	423	111.812	148.707	168.079	1.00	0.71	C
ATOM	3322	CE1	PHE	A	423	109.469	147.473	167.190	1.00	0.71	C
ATOM	3323	CE2	PHE	A	423	110.710	149.487	167.707	1.00	0.71	C
ATOM	3324	CZ	PHE	A	423	109.540	148.867	167.258	1.00	0.71	C
ATOM	3325	N	SER	A	424	114.888	144.533	170.087	1.00	0.68	N
ATOM	3326	CA	SER	A	424	116.092	143.728	170.337	1.00	0.68	C
ATOM	3327	C	SER	A	424	115.781	142.263	170.584	1.00	0.68	C
ATOM	3328	O	SER	A	424	116.460	141.356	170.108	1.00	0.68	O
ATOM	3329	CB	SER	A	424	116.927	144.212	171.548	1.00	0.68	C
ATOM	3330	OG	SER	A	424	117.434	145.528	171.321	1.00	0.68	O
ATOM	3331	N	LEU	A	425	114.689	141.962	171.318	1.00	0.50	N
ATOM	3332	CA	LEU	A	425	114.226	140.602	171.531	1.00	0.50	C
ATOM	3333	C	LEU	A	425	113.938	139.874	170.215	1.00	0.50	C
ATOM	3334	O	LEU	A	425	114.412	138.756	170.009	1.00	0.50	O
ATOM	3335	CB	LEU	A	425	112.945	140.628	172.403	1.00	0.50	C
ATOM	3336	CG	LEU	A	425	112.305	139.261	172.735	1.00	0.50	C
ATOM	3337	CD1	LEU	A	425	113.024	138.555	173.893	1.00	0.50	C
ATOM	3338	CD2	LEU	A	425	110.816	139.446	173.062	1.00	0.50	C
ATOM	3339	N	GLN	A	426	113.207	140.517	169.279	1.00	0.59	N
ATOM	3340	CA	GLN	A	426	112.960	139.992	167.944	1.00	0.59	C
ATOM	3341	C	GLN	A	426	114.144	139.979	166.976	1.00	0.59	C
ATOM	3342	O	GLN	A	426	114.403	138.975	166.314	1.00	0.59	O
ATOM	3343	CB	GLN	A	426	111.852	140.824	167.253	1.00	0.59	C
ATOM	3344	CG	GLN	A	426	110.424	140.589	167.794	1.00	0.59	C
ATOM	3345	CD	GLN	A	426	109.445	141.428	166.972	1.00	0.59	C
ATOM	3346	OE1	GLN	A	426	109.836	142.096	166.017	1.00	0.59	O
ATOM	3347	NE2	GLN	A	426	108.139	141.390	167.315	1.00	0.59	N
ATOM	3348	N	GLY	A	427	114.870	141.102	166.841	1.00	0.63	N
ATOM	3349	CA	GLY	A	427	115.877	141.277	165.805	1.00	0.63	C
ATOM	3350	C	GLY	A	427	116.879	142.303	166.237	1.00	0.63	C
ATOM	3351	O	GLY	A	427	117.136	142.450	167.421	1.00	0.63	O
ATOM	3352	N	ILE	A	428	117.496	143.038	165.281	1.00	0.47	N
ATOM	3353	CA	ILE	A	428	118.384	144.203	165.483	1.00	0.47	C
ATOM	3354	C	ILE	A	428	119.714	143.930	166.203	1.00	0.47	C
ATOM	3355	O	ILE	A	428	120.742	144.518	165.870	1.00	0.47	O
ATOM	3356	CB	ILE	A	428	117.627	145.401	166.088	1.00	0.47	C
ATOM	3357	CG1	ILE	A	428	116.548	145.894	165.092	1.00	0.47	C
ATOM	3358	CG2	ILE	A	428	118.559	146.562	166.529	1.00	0.47	C
ATOM	3359	CD1	ILE	A	428	115.621	146.942	165.704	1.00	0.47	C
ATOM	3360	N	GLU	A	429	119.756	142.927	167.098	1.00	0.44	N
ATOM	3361	CA	GLU	A	429	120.844	142.520	167.973	1.00	0.44	C
ATOM	3362	C	GLU	A	429	121.803	141.584	167.223	1.00	0.44	C
ATOM	3363	O	GLU	A	429	122.664	140.905	167.770	1.00	0.44	O
ATOM	3364	CB	GLU	A	429	120.149	141.800	169.171	1.00	0.44	C
ATOM	3365	CG	GLU	A	429	120.992	141.431	170.424	1.00	0.44	C
ATOM	3366	CD	GLU	A	429	120.216	140.541	171.407	1.00	0.44	C
ATOM	3367	OE1	GLU	A	429	119.029	140.832	171.727	1.00	0.44	O
ATOM	3368	OE2	GLU	A	429	120.748	139.460	171.759	1.00	0.44	O
ATOM	3369	N	GLY	A	430	121.687	141.549	165.876	1.00	0.35	N

ATOM	3370	CA	GLY	A	430	122.516	140.736	164.990	1.00	0.35	C
ATOM	3371	C	GLY	A	430	122.071	139.303	164.845	1.00	0.35	C
ATOM	3372	O	GLY	A	430	122.728	138.506	164.176	1.00	0.35	O
ATOM	3373	N	LYS	A	431	120.923	138.951	165.456	1.00	0.35	N
ATOM	3374	CA	LYS	A	431	120.347	137.618	165.461	1.00	0.35	C
ATOM	3375	C	LYS	A	431	120.076	137.020	164.101	1.00	0.35	C
ATOM	3376	O	LYS	A	431	119.740	137.692	163.125	1.00	0.35	O
ATOM	3377	CB	LYS	A	431	119.024	137.537	166.267	1.00	0.35	C
ATOM	3378	CG	LYS	A	431	119.248	137.822	167.747	1.00	0.35	C
ATOM	3379	CD	LYS	A	431	117.983	137.774	168.624	1.00	0.35	C
ATOM	3380	CE	LYS	A	431	118.395	138.380	169.965	1.00	0.35	C
ATOM	3381	NZ	LYS	A	431	117.339	138.810	170.893	1.00	0.35	N
ATOM	3382	N	ARG	A	432	120.209	135.685	164.026	1.00	0.28	N
ATOM	3383	CA	ARG	A	432	119.913	134.950	162.827	1.00	0.28	C
ATOM	3384	C	ARG	A	432	118.629	134.189	163.031	1.00	0.28	C
ATOM	3385	O	ARG	A	432	118.585	133.169	163.720	1.00	0.28	O
ATOM	3386	CB	ARG	A	432	121.071	134.001	162.415	1.00	0.28	C
ATOM	3387	CG	ARG	A	432	122.453	134.695	162.383	1.00	0.28	C
ATOM	3388	CD	ARG	A	432	123.536	133.883	161.658	1.00	0.28	C
ATOM	3389	NE	ARG	A	432	124.832	134.635	161.787	1.00	0.28	N
ATOM	3390	CZ	ARG	A	432	126.039	134.133	161.476	1.00	0.28	C
ATOM	3391	NH1	ARG	A	432	126.178	132.995	160.802	1.00	0.28	N
ATOM	3392	NH2	ARG	A	432	127.143	134.782	161.842	1.00	0.28	N
ATOM	3393	N	TRP	A	433	117.546	134.687	162.398	1.00	0.29	N
ATOM	3394	CA	TRP	A	433	116.275	134.000	162.299	1.00	0.29	C
ATOM	3395	C	TRP	A	433	116.480	132.673	161.564	1.00	0.29	C
ATOM	3396	O	TRP	A	433	117.275	132.570	160.626	1.00	0.29	O
ATOM	3397	CB	TRP	A	433	115.216	134.928	161.638	1.00	0.29	C
ATOM	3398	CG	TRP	A	433	113.744	134.566	161.798	1.00	0.29	C
ATOM	3399	CD1	TRP	A	433	113.011	133.636	161.114	1.00	0.29	C
ATOM	3400	CD2	TRP	A	433	112.793	135.301	162.609	1.00	0.29	C
ATOM	3401	NE1	TRP	A	433	111.675	133.717	161.459	1.00	0.29	N
ATOM	3402	CE2	TRP	A	433	111.524	134.756	162.359	1.00	0.29	C
ATOM	3403	CE3	TRP	A	433	112.957	136.381	163.481	1.00	0.29	C
ATOM	3404	CZ2	TRP	A	433	110.380	135.280	162.966	1.00	0.29	C
ATOM	3405	CZ3	TRP	A	433	111.808	136.913	164.091	1.00	0.29	C
ATOM	3406	CH2	TRP	A	433	110.539	136.375	163.835	1.00	0.29	C
ATOM	3407	N	LYS	A	434	115.846	131.596	162.060	1.00	0.28	N
ATOM	3408	CA	LYS	A	434	116.266	130.248	161.715	1.00	0.28	C
ATOM	3409	C	LYS	A	434	115.756	129.755	160.378	1.00	0.28	C
ATOM	3410	O	LYS	A	434	116.515	129.620	159.426	1.00	0.28	O
ATOM	3411	CB	LYS	A	434	115.855	129.254	162.826	1.00	0.28	C
ATOM	3412	CG	LYS	A	434	116.696	129.412	164.102	1.00	0.28	C
ATOM	3413	CD	LYS	A	434	116.190	128.485	165.218	1.00	0.28	C
ATOM	3414	CE	LYS	A	434	117.060	128.442	166.479	1.00	0.28	C
ATOM	3415	NZ	LYS	A	434	118.322	127.726	166.198	1.00	0.28	N
ATOM	3416	N	HIS	A	435	114.453	129.457	160.295	1.00	0.29	N
ATOM	3417	CA	HIS	A	435	113.785	129.006	159.100	1.00	0.29	C
ATOM	3418	C	HIS	A	435	113.137	130.198	158.382	1.00	0.29	C
ATOM	3419	O	HIS	A	435	113.789	131.186	158.066	1.00	0.29	O
ATOM	3420	CB	HIS	A	435	112.749	127.931	159.510	1.00	0.29	C
ATOM	3421	CG	HIS	A	435	113.281	126.662	160.106	1.00	0.29	C
ATOM	3422	ND1	HIS	A	435	113.846	126.647	161.366	1.00	0.29	N
ATOM	3423	CD2	HIS	A	435	113.159	125.397	159.633	1.00	0.29	C
ATOM	3424	CE1	HIS	A	435	114.058	125.377	161.634	1.00	0.29	C
ATOM	3425	NE2	HIS	A	435	113.664	124.574	160.615	1.00	0.29	N
ATOM	3426	N	SER	A	436	111.821	130.151	158.066	1.00	0.31	N
ATOM	3427	CA	SER	A	436	111.129	131.276	157.436	1.00	0.31	C
ATOM	3428	C	SER	A	436	110.418	132.093	158.504	1.00	0.31	C
ATOM	3429	O	SER	A	436	110.361	131.691	159.666	1.00	0.31	O
ATOM	3430	CB	SER	A	436	110.087	130.863	156.356	1.00	0.31	C
ATOM	3431	OG	SER	A	436	110.646	129.956	155.400	1.00	0.31	O
ATOM	3432	N	ALA	A	437	109.838	133.261	158.148	1.00	0.31	N
ATOM	3433	CA	ALA	A	437	109.190	134.215	159.043	1.00	0.31	C
ATOM	3434	C	ALA	A	437	108.040	133.756	159.981	1.00	0.31	C



ATOM	3435	O	ALA	A	437	107.466	134.561	160.709	1.00	0.31	O
ATOM	3436	CB	ALA	A	437	108.724	135.407	158.184	1.00	0.31	C
ATOM	3437	N	ARG	A	438	107.699	132.450	160.048	1.00	0.34	N
ATOM	3438	CA	ARG	A	438	106.845	131.904	161.098	1.00	0.34	C
ATOM	3439	C	ARG	A	438	107.205	130.443	161.304	1.00	0.34	C
ATOM	3440	O	ARG	A	438	106.374	129.533	161.358	1.00	0.34	O
ATOM	3441	CB	ARG	A	438	105.329	132.092	160.815	1.00	0.34	C
ATOM	3442	CG	ARG	A	438	104.345	131.737	161.958	1.00	0.34	C
ATOM	3443	CD	ARG	A	438	104.497	132.554	163.239	1.00	0.34	C
ATOM	3444	NE	ARG	A	438	103.548	131.981	164.249	1.00	0.34	N
ATOM	3445	CZ	ARG	A	438	103.355	132.558	165.439	1.00	0.34	C
ATOM	3446	NH1	ARG	A	438	103.850	133.754	165.725	1.00	0.34	N
ATOM	3447	NH2	ARG	A	438	102.712	131.935	166.420	1.00	0.34	N
ATOM	3448	N	ASN	A	439	108.519	130.188	161.402	1.00	0.31	N
ATOM	3449	CA	ASN	A	439	109.027	128.857	161.621	1.00	0.31	C
ATOM	3450	C	ASN	A	439	110.298	128.864	162.478	1.00	0.31	C
ATOM	3451	O	ASN	A	439	110.928	127.827	162.634	1.00	0.31	O
ATOM	3452	CB	ASN	A	439	109.384	128.209	160.254	1.00	0.31	C
ATOM	3453	CG	ASN	A	439	108.227	128.057	159.264	1.00	0.31	C
ATOM	3454	OD1	ASN	A	439	108.017	128.933	158.421	1.00	0.31	O
ATOM	3455	ND2	ASN	A	439	107.533	126.897	159.293	1.00	0.31	N
ATOM	3456	N	VAL	A	440	110.716	130.013	163.058	1.00	0.43	N
ATOM	3457	CA	VAL	A	440	111.810	130.088	164.028	1.00	0.43	C
ATOM	3458	C	VAL	A	440	111.467	129.424	165.363	1.00	0.43	C
ATOM	3459	O	VAL	A	440	110.343	129.547	165.830	1.00	0.43	O
ATOM	3460	CB	VAL	A	440	112.244	131.547	164.251	1.00	0.43	C
ATOM	3461	CG1	VAL	A	440	111.077	132.402	164.793	1.00	0.43	C
ATOM	3462	CG2	VAL	A	440	113.490	131.688	165.153	1.00	0.43	C
ATOM	3463	N	LEU	A	441	112.432	128.756	166.045	1.00	0.38	N
ATOM	3464	CA	LEU	A	441	112.270	128.162	167.377	1.00	0.38	C
ATOM	3465	C	LEU	A	441	112.303	129.183	168.524	1.00	0.38	C
ATOM	3466	O	LEU	A	441	112.937	128.977	169.555	1.00	0.38	O
ATOM	3467	CB	LEU	A	441	113.390	127.130	167.694	1.00	0.38	C
ATOM	3468	CG	LEU	A	441	113.608	126.002	166.669	1.00	0.38	C
ATOM	3469	CD1	LEU	A	441	114.802	125.145	167.119	1.00	0.38	C
ATOM	3470	CD2	LEU	A	441	112.366	125.114	166.523	1.00	0.38	C
ATOM	3471	N	LYS	A	442	111.624	130.327	168.351	1.00	0.42	N
ATOM	3472	CA	LYS	A	442	111.321	131.296	169.388	1.00	0.42	C
ATOM	3473	C	LYS	A	442	110.060	130.817	170.089	1.00	0.42	C
ATOM	3474	O	LYS	A	442	109.316	130.056	169.489	1.00	0.42	O
ATOM	3475	CB	LYS	A	442	111.043	132.672	168.707	1.00	0.42	C
ATOM	3476	CG	LYS	A	442	110.725	133.849	169.645	1.00	0.42	C
ATOM	3477	CD	LYS	A	442	110.202	135.103	168.929	1.00	0.42	C
ATOM	3478	CE	LYS	A	442	109.695	136.130	169.948	1.00	0.42	C
ATOM	3479	NZ	LYS	A	442	109.010	137.234	169.246	1.00	0.42	N
ATOM	3480	N	ASP	A	443	109.767	131.275	171.324	1.00	0.40	N
ATOM	3481	CA	ASP	A	443	108.572	131.119	172.158	1.00	0.40	C
ATOM	3482	C	ASP	A	443	107.251	130.782	171.449	1.00	0.40	C
ATOM	3483	O	ASP	A	443	106.521	129.865	171.822	1.00	0.40	O
ATOM	3484	CB	ASP	A	443	108.361	132.432	172.983	1.00	0.40	C
ATOM	3485	CG	ASP	A	443	109.674	133.173	173.208	1.00	0.40	C
ATOM	3486	OD1	ASP	A	443	110.634	132.532	173.700	1.00	0.40	O
ATOM	3487	OD2	ASP	A	443	109.759	134.348	172.763	1.00	0.40	O
ATOM	3488	N	GLU	A	444	106.969	131.526	170.360	1.00	0.44	N
ATOM	3489	CA	GLU	A	444	105.881	131.384	169.409	1.00	0.44	C
ATOM	3490	C	GLU	A	444	105.761	129.993	168.783	1.00	0.44	C
ATOM	3491	O	GLU	A	444	104.677	129.505	168.469	1.00	0.44	O
ATOM	3492	CB	GLU	A	444	106.171	132.358	168.238	1.00	0.44	C
ATOM	3493	CG	GLU	A	444	106.163	133.855	168.621	1.00	0.44	C
ATOM	3494	CD	GLU	A	444	104.760	134.445	168.708	1.00	0.44	C
ATOM	3495	OE1	GLU	A	444	103.769	133.751	168.350	1.00	0.44	O
ATOM	3496	OE2	GLU	A	444	104.709	135.663	168.995	1.00	0.44	O
ATOM	3497	N	MET	A	445	106.916	129.349	168.555	1.00	0.44	N
ATOM	3498	CA	MET	A	445	107.077	127.996	168.093	1.00	0.44	C
ATOM	3499	C	MET	A	445	107.754	127.175	169.176	1.00	0.44	C

ATOM	3500	O	MET	A	445	108.880	126.697	169.046	1.00	0.44	O
ATOM	3501	CB	MET	A	445	107.942	127.950	166.818	1.00	0.44	C
ATOM	3502	CG	MET	A	445	107.817	126.646	166.006	1.00	0.44	C
ATOM	3503	SD	MET	A	445	106.148	126.353	165.338	1.00	0.44	S
ATOM	3504	CE	MET	A	445	106.252	127.655	164.084	1.00	0.44	C
ATOM	3505	N	SER	A	446	107.047	126.936	170.291	1.00	0.55	N
ATOM	3506	CA	SER	A	446	107.484	126.024	171.340	1.00	0.55	C
ATOM	3507	C	SER	A	446	107.466	124.574	170.871	1.00	0.55	C
ATOM	3508	O	SER	A	446	108.115	123.687	171.424	1.00	0.55	O
ATOM	3509	CB	SER	A	446	106.565	126.171	172.581	1.00	0.55	C
ATOM	3510	OG	SER	A	446	105.187	126.132	172.198	1.00	0.55	O
ATOM	3511	N	HIS	A	447	106.730	124.325	169.779	1.00	0.40	N
ATOM	3512	CA	HIS	A	447	106.560	123.045	169.145	1.00	0.40	C
ATOM	3513	C	HIS	A	447	107.589	122.828	168.038	1.00	0.40	C
ATOM	3514	O	HIS	A	447	107.424	123.302	166.917	1.00	0.40	O
ATOM	3515	CB	HIS	A	447	105.121	122.969	168.573	1.00	0.40	C
ATOM	3516	CG	HIS	A	447	104.093	123.423	169.576	1.00	0.40	C
ATOM	3517	ND1	HIS	A	447	104.109	122.874	170.844	1.00	0.40	N
ATOM	3518	CD2	HIS	A	447	103.069	124.314	169.462	1.00	0.40	C
ATOM	3519	CE1	HIS	A	447	103.096	123.439	171.473	1.00	0.40	C
ATOM	3520	NE2	HIS	A	447	102.433	124.312	170.685	1.00	0.40	N
ATOM	3521	N	LYS	A	448	108.675	122.062	168.321	1.00	0.58	N
ATOM	3522	CA	LYS	A	448	109.759	121.716	167.387	1.00	0.58	C
ATOM	3523	C	LYS	A	448	109.271	120.994	166.129	1.00	0.58	C
ATOM	3524	O	LYS	A	448	109.850	121.102	165.045	1.00	0.58	O
ATOM	3525	CB	LYS	A	448	110.836	120.826	168.105	1.00	0.58	C
ATOM	3526	CG	LYS	A	448	112.061	120.392	167.250	1.00	0.58	C
ATOM	3527	CD	LYS	A	448	113.075	119.460	167.975	1.00	0.58	C
ATOM	3528	CE	LYS	A	448	114.264	118.993	167.092	1.00	0.58	C
ATOM	3529	NZ	LYS	A	448	115.135	117.971	167.720	1.00	0.58	N
ATOM	3530	N	THR	A	449	108.188	120.214	166.275	1.00	0.77	N
ATOM	3531	CA	THR	A	449	107.565	119.459	165.207	1.00	0.77	C
ATOM	3532	C	THR	A	449	106.080	119.413	165.481	1.00	0.77	C
ATOM	3533	O	THR	A	449	105.645	119.325	166.629	1.00	0.77	O
ATOM	3534	CB	THR	A	449	108.141	118.051	165.069	1.00	0.77	C
ATOM	3535	OG1	THR	A	449	107.555	117.296	164.013	1.00	0.77	O
ATOM	3536	CG2	THR	A	449	108.054	117.235	166.365	1.00	0.77	C
ATOM	3537	N	MET	A	450	105.268	119.509	164.415	1.00	0.76	N
ATOM	3538	CA	MET	A	450	103.821	119.477	164.459	1.00	0.76	C
ATOM	3539	C	MET	A	450	103.303	118.047	164.351	1.00	0.76	C
ATOM	3540	O	MET	A	450	104.014	117.138	163.924	1.00	0.76	O
ATOM	3541	CB	MET	A	450	103.223	120.343	163.315	1.00	0.76	C
ATOM	3542	CG	MET	A	450	103.637	121.831	163.390	1.00	0.76	C
ATOM	3543	SD	MET	A	450	102.987	122.889	162.051	1.00	0.76	S
ATOM	3544	CE	MET	A	450	101.239	122.843	162.542	1.00	0.76	C
ATOM	3545	N	SER	A	451	102.039	117.811	164.761	1.00	0.83	N
ATOM	3546	CA	SER	A	451	101.409	116.500	164.692	1.00	0.83	C
ATOM	3547	C	SER	A	451	100.771	116.274	163.310	1.00	0.83	C
ATOM	3548	O	SER	A	451	100.622	117.223	162.537	1.00	0.83	O
ATOM	3549	CB	SER	A	451	100.376	116.296	165.856	1.00	0.83	C
ATOM	3550	OG	SER	A	451	99.120	116.927	165.590	1.00	0.83	O
ATOM	3551	N	PRO	A	452	100.355	115.066	162.932	1.00	0.86	N
ATOM	3552	CA	PRO	A	452	99.591	114.844	161.704	1.00	0.86	C
ATOM	3553	C	PRO	A	452	98.093	115.105	161.905	1.00	0.86	C
ATOM	3554	O	PRO	A	452	97.329	114.881	160.960	1.00	0.86	O
ATOM	3555	CB	PRO	A	452	99.880	113.365	161.360	1.00	0.86	C
ATOM	3556	CG	PRO	A	452	100.215	112.715	162.704	1.00	0.86	C
ATOM	3557	CD	PRO	A	452	100.942	113.829	163.450	1.00	0.86	C
ATOM	3558	N	PHE	A	453	97.637	115.564	163.096	1.00	0.76	N
ATOM	3559	CA	PHE	A	453	96.230	115.820	163.398	1.00	0.76	C
ATOM	3560	C	PHE	A	453	96.042	117.239	163.970	1.00	0.76	C
ATOM	3561	O	PHE	A	453	95.984	117.435	165.178	1.00	0.76	O
ATOM	3562	CB	PHE	A	453	95.645	114.814	164.443	1.00	0.76	C
ATOM	3563	CG	PHE	A	453	96.065	113.380	164.243	1.00	0.76	C
ATOM	3564	CD1	PHE	A	453	95.432	112.545	163.307	1.00	0.76	C

ATOM	3565	CD2	PHE	A	453	97.038	112.826	165.093	1.00	0.76	C
ATOM	3566	CE1	PHE	A	453	95.764	111.184	163.225	1.00	0.76	C
ATOM	3567	CE2	PHE	A	453	97.363	111.468	165.021	1.00	0.76	C
ATOM	3568	CZ	PHE	A	453	96.732	110.645	164.083	1.00	0.76	C
ATOM	3569	N	VAL	A	454	95.930	118.274	163.107	1.00	0.73	N
ATOM	3570	CA	VAL	A	454	96.123	119.673	163.513	1.00	0.73	C
ATOM	3571	C	VAL	A	454	95.081	120.622	162.935	1.00	0.73	C
ATOM	3572	O	VAL	A	454	95.318	121.826	162.853	1.00	0.73	O
ATOM	3573	CB	VAL	A	454	97.481	120.197	163.026	1.00	0.73	C
ATOM	3574	CG1	VAL	A	454	98.603	119.630	163.904	1.00	0.73	C
ATOM	3575	CG2	VAL	A	454	97.707	119.787	161.558	1.00	0.73	C
ATOM	3576	N	ASP	A	455	93.924	120.089	162.490	1.00	0.74	N
ATOM	3577	CA	ASP	A	455	92.875	120.774	161.744	1.00	0.74	C
ATOM	3578	C	ASP	A	455	93.310	121.881	160.765	1.00	0.74	C
ATOM	3579	O	ASP	A	455	93.191	123.087	160.976	1.00	0.74	O
ATOM	3580	CB	ASP	A	455	91.679	121.165	162.645	1.00	0.74	C
ATOM	3581	CG	ASP	A	455	90.396	121.029	161.844	1.00	0.74	C
ATOM	3582	OD1	ASP	A	455	90.304	121.692	160.776	1.00	0.74	O
ATOM	3583	OD2	ASP	A	455	89.536	120.206	162.242	1.00	0.74	O
ATOM	3584	N	VAL	A	456	93.873	121.464	159.615	1.00	0.82	N
ATOM	3585	CA	VAL	A	456	94.368	122.363	158.588	1.00	0.82	C
ATOM	3586	C	VAL	A	456	93.297	122.684	157.552	1.00	0.82	C
ATOM	3587	O	VAL	A	456	93.565	122.857	156.362	1.00	0.82	O
ATOM	3588	CB	VAL	A	456	95.679	121.869	157.977	1.00	0.82	C
ATOM	3589	CG1	VAL	A	456	96.798	122.216	158.979	1.00	0.82	C
ATOM	3590	CG2	VAL	A	456	95.647	120.353	157.691	1.00	0.82	C
ATOM	3591	N	SER	A	457	92.042	122.843	158.019	1.00	0.82	N
ATOM	3592	CA	SER	A	457	90.858	123.210	157.251	1.00	0.82	C
ATOM	3593	C	SER	A	457	90.956	124.549	156.542	1.00	0.82	C
ATOM	3594	O	SER	A	457	90.410	124.697	155.452	1.00	0.82	O
ATOM	3595	CB	SER	A	457	89.578	123.196	158.117	1.00	0.82	C
ATOM	3596	OG	SER	A	457	89.789	123.890	159.344	1.00	0.82	O
ATOM	3597	N	ASN	A	458	91.716	125.531	157.094	1.00	0.79	N
ATOM	3598	CA	ASN	A	458	92.074	126.779	156.412	1.00	0.79	C
ATOM	3599	C	ASN	A	458	92.568	126.559	154.974	1.00	0.79	C
ATOM	3600	O	ASN	A	458	92.074	127.123	154.004	1.00	0.79	O
ATOM	3601	CB	ASN	A	458	93.280	127.502	157.099	1.00	0.79	C
ATOM	3602	CG	ASN	A	458	93.125	127.851	158.578	1.00	0.79	C
ATOM	3603	OD1	ASN	A	458	93.526	127.090	159.461	1.00	0.79	O
ATOM	3604	ND2	ASN	A	458	92.697	129.100	158.860	1.00	0.79	N
ATOM	3605	N	ILE	A	459	93.562	125.656	154.810	1.00	0.82	N
ATOM	3606	CA	ILE	A	459	94.161	125.326	153.526	1.00	0.82	C
ATOM	3607	C	ILE	A	459	93.178	124.619	152.609	1.00	0.82	C
ATOM	3608	O	ILE	A	459	93.087	124.952	151.430	1.00	0.82	O
ATOM	3609	CB	ILE	A	459	95.475	124.558	153.702	1.00	0.82	C
ATOM	3610	CG1	ILE	A	459	96.518	125.519	154.327	1.00	0.82	C
ATOM	3611	CG2	ILE	A	459	95.980	123.988	152.353	1.00	0.82	C
ATOM	3612	CD1	ILE	A	459	97.863	124.870	154.660	1.00	0.82	C
ATOM	3613	N	GLU	A	460	92.376	123.669	153.141	1.00	0.76	N
ATOM	3614	CA	GLU	A	460	91.340	122.968	152.393	1.00	0.76	C
ATOM	3615	C	GLU	A	460	90.323	123.917	151.752	1.00	0.76	C
ATOM	3616	O	GLU	A	460	90.149	123.931	150.534	1.00	0.76	O
ATOM	3617	CB	GLU	A	460	90.613	121.987	153.357	1.00	0.76	C
ATOM	3618	CG	GLU	A	460	89.411	121.188	152.779	1.00	0.76	C
ATOM	3619	CD	GLU	A	460	89.760	119.972	151.931	1.00	0.76	C
ATOM	3620	OE1	GLU	A	460	88.808	119.328	151.420	1.00	0.76	O
ATOM	3621	OE2	GLU	A	460	90.955	119.590	151.805	1.00	0.76	O
ATOM	3622	N	GLU	A	461	89.684	124.811	152.540	1.00	0.76	N
ATOM	3623	CA	GLU	A	461	88.673	125.717	152.014	1.00	0.76	C
ATOM	3624	C	GLU	A	461	89.233	126.858	151.176	1.00	0.76	C
ATOM	3625	O	GLU	A	461	88.594	127.295	150.215	1.00	0.76	O
ATOM	3626	CB	GLU	A	461	87.708	126.223	153.109	1.00	0.76	C
ATOM	3627	CG	GLU	A	461	86.857	125.066	153.697	1.00	0.76	C
ATOM	3628	CD	GLU	A	461	85.637	125.524	154.497	1.00	0.76	C
ATOM	3629	OE1	GLU	A	461	85.367	126.750	154.555	1.00	0.76	O

ATOM	3630	OE2	GLU	A	461	84.944	124.621	155.034	1.00	0.76	O
ATOM	3631	N	PHE	A	462	90.483	127.306	151.447	1.00	0.78	N
ATOM	3632	CA	PHE	A	462	91.203	128.268	150.621	1.00	0.78	C
ATOM	3633	C	PHE	A	462	91.371	127.789	149.176	1.00	0.78	C
ATOM	3634	O	PHE	A	462	91.173	128.550	148.233	1.00	0.78	O
ATOM	3635	CB	PHE	A	462	92.594	128.595	151.259	1.00	0.78	C
ATOM	3636	CG	PHE	A	462	93.482	129.446	150.376	1.00	0.78	C
ATOM	3637	CD1	PHE	A	462	93.113	130.754	150.020	1.00	0.78	C
ATOM	3638	CD2	PHE	A	462	94.636	128.886	149.803	1.00	0.78	C
ATOM	3639	CE1	PHE	A	462	93.885	131.489	149.108	1.00	0.78	C
ATOM	3640	CE2	PHE	A	462	95.408	129.615	148.889	1.00	0.78	C
ATOM	3641	CZ	PHE	A	462	95.036	130.920	148.548	1.00	0.78	C
ATOM	3642	N	LEU	A	463	91.721	126.509	148.939	1.00	0.79	N
ATOM	3643	CA	LEU	A	463	91.807	125.983	147.585	1.00	0.79	C
ATOM	3644	C	LEU	A	463	90.456	125.935	146.864	1.00	0.79	C
ATOM	3645	O	LEU	A	463	90.362	126.210	145.666	1.00	0.79	O
ATOM	3646	CB	LEU	A	463	92.488	124.591	147.553	1.00	0.79	C
ATOM	3647	CG	LEU	A	463	93.910	124.542	148.165	1.00	0.79	C
ATOM	3648	CD1	LEU	A	463	94.499	123.129	148.058	1.00	0.79	C
ATOM	3649	CD2	LEU	A	463	94.883	125.551	147.541	1.00	0.79	C
ATOM	3650	N	ILE	A	464	89.369	125.594	147.588	1.00	0.69	N
ATOM	3651	CA	ILE	A	464	88.020	125.503	147.039	1.00	0.69	C
ATOM	3652	C	ILE	A	464	87.407	126.847	146.645	1.00	0.69	C
ATOM	3653	O	ILE	A	464	86.898	126.996	145.533	1.00	0.69	O
ATOM	3654	CB	ILE	A	464	87.070	124.782	147.999	1.00	0.69	C
ATOM	3655	CG1	ILE	A	464	87.636	123.395	148.390	1.00	0.69	C
ATOM	3656	CG2	ILE	A	464	85.671	124.610	147.355	1.00	0.69	C
ATOM	3657	CD1	ILE	A	464	86.886	122.740	149.557	1.00	0.69	C
ATOM	3658	N	MET	A	465	87.445	127.877	147.516	1.00	0.69	N
ATOM	3659	CA	MET	A	465	86.862	129.176	147.215	1.00	0.69	C
ATOM	3660	C	MET	A	465	87.870	130.270	147.506	1.00	0.69	C
ATOM	3661	O	MET	A	465	88.335	130.449	148.625	1.00	0.69	O
ATOM	3662	CB	MET	A	465	85.545	129.442	147.995	1.00	0.69	C
ATOM	3663	CG	MET	A	465	84.361	128.586	147.499	1.00	0.69	C
ATOM	3664	SD	MET	A	465	82.780	128.889	148.346	1.00	0.69	S
ATOM	3665	CE	MET	A	465	83.213	128.031	149.887	1.00	0.69	C
ATOM	3666	N	ASN	A	466	88.237	131.045	146.470	1.00	0.75	N
ATOM	3667	CA	ASN	A	466	89.250	132.066	146.590	1.00	0.75	C
ATOM	3668	C	ASN	A	466	89.027	133.109	145.513	1.00	0.75	C
ATOM	3669	O	ASN	A	466	88.432	132.840	144.467	1.00	0.75	O
ATOM	3670	CB	ASN	A	466	90.693	131.479	146.509	1.00	0.75	C
ATOM	3671	CG	ASN	A	466	90.868	130.555	145.303	1.00	0.75	C
ATOM	3672	OD1	ASN	A	466	90.912	130.988	144.148	1.00	0.75	O
ATOM	3673	ND2	ASN	A	466	90.955	129.235	145.567	1.00	0.75	N
ATOM	3674	N	ASN	A	467	89.517	134.334	145.758	1.00	0.76	N
ATOM	3675	CA	ASN	A	467	89.494	135.427	144.816	1.00	0.76	C
ATOM	3676	C	ASN	A	467	90.909	135.596	144.263	1.00	0.76	C
ATOM	3677	O	ASN	A	467	91.583	136.576	144.560	1.00	0.76	O
ATOM	3678	CB	ASN	A	467	88.950	136.688	145.551	1.00	0.76	C
ATOM	3679	CG	ASN	A	467	88.892	137.922	144.659	1.00	0.76	C
ATOM	3680	OD1	ASN	A	467	88.359	137.890	143.547	1.00	0.76	O
ATOM	3681	ND2	ASN	A	467	89.453	139.055	145.137	1.00	0.76	N
ATOM	3682	N	LEU	A	468	91.391	134.609	143.467	1.00	0.82	N
ATOM	3683	CA	LEU	A	468	92.710	134.672	142.842	1.00	0.82	C
ATOM	3684	C	LEU	A	468	92.696	134.875	141.328	1.00	0.82	C
ATOM	3685	O	LEU	A	468	93.663	135.385	140.767	1.00	0.82	O
ATOM	3686	CB	LEU	A	468	93.486	133.355	143.114	1.00	0.82	C
ATOM	3687	CG	LEU	A	468	94.227	133.302	144.466	1.00	0.82	C
ATOM	3688	CD1	LEU	A	468	94.813	131.898	144.675	1.00	0.82	C
ATOM	3689	CD2	LEU	A	468	95.365	134.332	144.536	1.00	0.82	C
ATOM	3690	N	LEU	A	469	91.616	134.493	140.610	1.00	0.82	N
ATOM	3691	CA	LEU	A	469	91.593	134.622	139.153	1.00	0.82	C
ATOM	3692	C	LEU	A	469	90.525	135.564	138.645	1.00	0.82	C
ATOM	3693	O	LEU	A	469	90.339	135.707	137.439	1.00	0.82	O
ATOM	3694	CB	LEU	A	469	91.395	133.265	138.428	1.00	0.82	C

ATOM	3695	CG	LEU	A	469	92.565	132.268	138.539	1.00	0.82	C
ATOM	3696	CD1	LEU	A	469	92.354	131.142	137.519	1.00	0.82	C
ATOM	3697	CD2	LEU	A	469	93.935	132.914	138.283	1.00	0.82	C
ATOM	3698	N	ASN	A	470	89.802	136.274	139.529	1.00	0.79	N
ATOM	3699	CA	ASN	A	470	88.924	137.334	139.064	1.00	0.79	C
ATOM	3700	C	ASN	A	470	89.740	138.539	138.584	1.00	0.79	C
ATOM	3701	O	ASN	A	470	90.859	138.789	139.039	1.00	0.79	O
ATOM	3702	CB	ASN	A	470	87.875	137.760	140.121	1.00	0.79	C
ATOM	3703	CG	ASN	A	470	86.969	136.584	140.485	1.00	0.79	C
ATOM	3704	OD1	ASN	A	470	86.464	135.844	139.640	1.00	0.79	O
ATOM	3705	ND2	ASN	A	470	86.721	136.411	141.804	1.00	0.79	N
ATOM	3706	N	ASP	A	471	89.196	139.308	137.623	1.00	0.83	N
ATOM	3707	CA	ASP	A	471	89.791	140.530	137.125	1.00	0.83	C
ATOM	3708	C	ASP	A	471	89.967	141.580	138.237	1.00	0.83	C
ATOM	3709	O	ASP	A	471	89.109	141.773	139.104	1.00	0.83	O
ATOM	3710	CB	ASP	A	471	88.900	141.027	135.948	1.00	0.83	C
ATOM	3711	CG	ASP	A	471	89.496	142.179	135.152	1.00	0.83	C
ATOM	3712	OD1	ASP	A	471	89.134	143.340	135.464	1.00	0.83	O
ATOM	3713	OD2	ASP	A	471	90.288	141.911	134.210	1.00	0.83	O
ATOM	3714	N	THR	A	472	91.110	142.295	138.251	1.00	0.80	N
ATOM	3715	CA	THR	A	472	91.224	143.525	139.020	1.00	0.80	C
ATOM	3716	C	THR	A	472	90.768	144.614	138.105	1.00	0.80	C
ATOM	3717	O	THR	A	472	91.440	144.908	137.125	1.00	0.80	O
ATOM	3718	CB	THR	A	472	92.632	143.911	139.460	1.00	0.80	C
ATOM	3719	OG1	THR	A	472	93.141	142.940	140.354	1.00	0.80	O
ATOM	3720	CG2	THR	A	472	92.666	145.247	140.223	1.00	0.80	C
ATOM	3721	N	SER	A	473	89.630	145.258	138.436	1.00	0.77	N
ATOM	3722	CA	SER	A	473	88.943	146.284	137.647	1.00	0.77	C
ATOM	3723	C	SER	A	473	89.719	147.536	137.241	1.00	0.77	C
ATOM	3724	O	SER	A	473	89.136	148.513	136.779	1.00	0.77	O
ATOM	3725	CB	SER	A	473	87.696	146.807	138.415	1.00	0.77	C
ATOM	3726	OG	SER	A	473	88.067	147.488	139.627	1.00	0.77	O
ATOM	3727	N	PHE	A	474	91.037	147.550	137.434	1.00	0.66	N
ATOM	3728	CA	PHE	A	474	91.935	148.594	137.038	1.00	0.66	C
ATOM	3729	C	PHE	A	474	92.882	147.903	136.090	1.00	0.66	C
ATOM	3730	O	PHE	A	474	93.770	147.167	136.511	1.00	0.66	O
ATOM	3731	CB	PHE	A	474	92.723	149.134	138.257	1.00	0.66	C
ATOM	3732	CG	PHE	A	474	91.799	149.579	139.347	1.00	0.66	C
ATOM	3733	CD1	PHE	A	474	90.762	150.491	139.092	1.00	0.66	C
ATOM	3734	CD2	PHE	A	474	91.995	149.114	140.654	1.00	0.66	C
ATOM	3735	CE1	PHE	A	474	89.913	150.909	140.124	1.00	0.66	C
ATOM	3736	CE2	PHE	A	474	91.179	149.562	141.695	1.00	0.66	C
ATOM	3737	CZ	PHE	A	474	90.123	150.446	141.430	1.00	0.66	C
ATOM	3738	N	ASN	A	475	92.664	148.093	134.776	1.00	0.79	N
ATOM	3739	CA	ASN	A	475	93.366	147.349	133.749	1.00	0.79	C
ATOM	3740	C	ASN	A	475	94.151	148.260	132.810	1.00	0.79	C
ATOM	3741	O	ASN	A	475	94.726	147.816	131.814	1.00	0.79	O
ATOM	3742	CB	ASN	A	475	92.372	146.436	132.983	1.00	0.79	C
ATOM	3743	CG	ASN	A	475	91.234	147.175	132.289	1.00	0.79	C
ATOM	3744	OD1	ASN	A	475	91.150	148.401	132.236	1.00	0.79	O
ATOM	3745	ND2	ASN	A	475	90.315	146.382	131.692	1.00	0.79	N
ATOM	3746	N	ARG	A	476	94.194	149.568	133.129	1.00	0.74	N
ATOM	3747	CA	ARG	A	476	94.835	150.604	132.340	1.00	0.74	C
ATOM	3748	C	ARG	A	476	95.474	151.632	133.255	1.00	0.74	C
ATOM	3749	O	ARG	A	476	95.348	152.837	133.063	1.00	0.74	O
ATOM	3750	CB	ARG	A	476	93.842	151.311	131.375	1.00	0.74	C
ATOM	3751	CG	ARG	A	476	93.322	150.428	130.221	1.00	0.74	C
ATOM	3752	CD	ARG	A	476	94.406	149.796	129.332	1.00	0.74	C
ATOM	3753	NE	ARG	A	476	95.152	150.859	128.589	1.00	0.74	N
ATOM	3754	CZ	ARG	A	476	94.828	151.307	127.373	1.00	0.74	C
ATOM	3755	NH1	ARG	A	476	93.662	151.016	126.810	1.00	0.74	N
ATOM	3756	NH2	ARG	A	476	95.684	152.058	126.697	1.00	0.74	N
ATOM	3757	N	GLU	A	477	96.194	151.160	134.286	1.00	0.79	N
ATOM	3758	CA	GLU	A	477	96.956	152.016	135.178	1.00	0.79	C
ATOM	3759	C	GLU	A	477	98.421	152.058	134.743	1.00	0.79	C

ATOM	3760	O	GLU	A	477	98.863	151.291	133.886	1.00	0.79	O
ATOM	3761	CB	GLU	A	477	96.863	151.540	136.646	1.00	0.79	C
ATOM	3762	CG	GLU	A	477	95.422	151.425	137.216	1.00	0.79	C
ATOM	3763	CD	GLU	A	477	94.730	152.701	137.719	1.00	0.79	C
ATOM	3764	OE1	GLU	A	477	95.379	153.597	138.317	1.00	0.79	O
ATOM	3765	OE2	GLU	A	477	93.478	152.747	137.619	1.00	0.79	O
ATOM	3766	N	GLY	A	478	99.222	152.975	135.338	1.00	0.79	N
ATOM	3767	CA	GLY	A	478	100.587	153.333	134.926	1.00	0.79	C
ATOM	3768	C	GLY	A	478	101.559	152.236	134.541	1.00	0.79	C
ATOM	3769	O	GLY	A	478	102.157	152.285	133.472	1.00	0.79	O
ATOM	3770	N	LEU	A	479	101.754	151.207	135.391	1.00	0.76	N
ATOM	3771	CA	LEU	A	479	102.626	150.078	135.081	1.00	0.76	C
ATOM	3772	C	LEU	A	479	102.149	149.213	133.922	1.00	0.76	C
ATOM	3773	O	LEU	A	479	102.922	148.717	133.107	1.00	0.76	O
ATOM	3774	CB	LEU	A	479	102.811	149.167	136.314	1.00	0.76	C
ATOM	3775	CG	LEU	A	479	103.785	147.988	136.090	1.00	0.76	C
ATOM	3776	CD1	LEU	A	479	105.214	148.438	135.751	1.00	0.76	C
ATOM	3777	CD2	LEU	A	479	103.809	147.089	137.319	1.00	0.76	C
ATOM	3778	N	GLN	A	480	100.829	148.992	133.809	1.00	0.79	N
ATOM	3779	CA	GLN	A	480	100.278	148.246	132.701	1.00	0.79	C
ATOM	3780	C	GLN	A	480	100.491	148.966	131.390	1.00	0.79	C
ATOM	3781	O	GLN	A	480	100.867	148.360	130.394	1.00	0.79	O
ATOM	3782	CB	GLN	A	480	98.780	147.965	132.915	1.00	0.79	C
ATOM	3783	CG	GLN	A	480	98.526	147.221	134.240	1.00	0.79	C
ATOM	3784	CD	GLN	A	480	97.061	146.829	134.346	1.00	0.79	C
ATOM	3785	OE1	GLN	A	480	96.284	147.587	134.919	1.00	0.79	O
ATOM	3786	NE2	GLN	A	480	96.696	145.665	133.758	1.00	0.79	N
ATOM	3787	N	GLU	A	481	100.297	150.295	131.378	1.00	0.80	N
ATOM	3788	CA	GLU	A	481	100.515	151.123	130.213	1.00	0.80	C
ATOM	3789	C	GLU	A	481	101.959	151.146	129.712	1.00	0.80	C
ATOM	3790	O	GLU	A	481	102.215	151.031	128.513	1.00	0.80	O
ATOM	3791	CB	GLU	A	481	99.965	152.542	130.473	1.00	0.80	C
ATOM	3792	CG	GLU	A	481	99.486	153.244	129.188	1.00	0.80	C
ATOM	3793	CD	GLU	A	481	98.282	152.580	128.542	1.00	0.80	C
ATOM	3794	OE1	GLU	A	481	97.926	153.059	127.439	1.00	0.80	O
ATOM	3795	OE2	GLU	A	481	97.672	151.607	129.068	1.00	0.80	O
ATOM	3796	N	THR	A	482	102.959	151.219	130.625	1.00	0.83	N
ATOM	3797	CA	THR	A	482	104.380	151.122	130.267	1.00	0.83	C
ATOM	3798	C	THR	A	482	104.756	149.788	129.640	1.00	0.83	C
ATOM	3799	O	THR	A	482	105.467	149.747	128.636	1.00	0.83	O
ATOM	3800	CB	THR	A	482	105.373	151.415	131.400	1.00	0.83	C
ATOM	3801	OG1	THR	A	482	105.176	150.583	132.532	1.00	0.83	O
ATOM	3802	CG2	THR	A	482	105.203	152.861	131.881	1.00	0.83	C
ATOM	3803	N	ILE	A	483	104.257	148.659	130.187	1.00	0.85	N
ATOM	3804	CA	ILE	A	483	104.400	147.340	129.578	1.00	0.85	C
ATOM	3805	C	ILE	A	483	103.652	147.222	128.248	1.00	0.85	C
ATOM	3806	O	ILE	A	483	104.200	146.741	127.255	1.00	0.85	O
ATOM	3807	CB	ILE	A	483	103.968	146.226	130.540	1.00	0.85	C
ATOM	3808	CG1	ILE	A	483	104.854	146.246	131.813	1.00	0.85	C
ATOM	3809	CG2	ILE	A	483	104.046	144.845	129.843	1.00	0.85	C
ATOM	3810	CD1	ILE	A	483	104.366	145.299	132.917	1.00	0.85	C
ATOM	3811	N	ASN	A	484	102.387	147.697	128.170	1.00	0.85	N
ATOM	3812	CA	ASN	A	484	101.560	147.623	126.971	1.00	0.85	C
ATOM	3813	C	ASN	A	484	102.132	148.371	125.780	1.00	0.85	C
ATOM	3814	O	ASN	A	484	102.103	147.859	124.666	1.00	0.85	O
ATOM	3815	CB	ASN	A	484	100.127	148.183	127.191	1.00	0.85	C
ATOM	3816	CG	ASN	A	484	99.287	147.235	128.028	1.00	0.85	C
ATOM	3817	OD1	ASN	A	484	99.316	146.017	127.878	1.00	0.85	O
ATOM	3818	ND2	ASN	A	484	98.408	147.794	128.892	1.00	0.85	N
ATOM	3819	N	LEU	A	485	102.675	149.586	125.983	1.00	0.86	N
ATOM	3820	CA	LEU	A	485	103.301	150.368	124.928	1.00	0.86	C
ATOM	3821	C	LEU	A	485	104.526	149.684	124.324	1.00	0.86	C
ATOM	3822	O	LEU	A	485	104.703	149.604	123.113	1.00	0.86	O
ATOM	3823	CB	LEU	A	485	103.681	151.754	125.503	1.00	0.86	C
ATOM	3824	CG	LEU	A	485	104.264	152.759	124.487	1.00	0.86	C

ATOM	3825	CD1	LEU	A	485	103.274	153.094	123.360	1.00	0.86	C
ATOM	3826	CD2	LEU	A	485	104.707	154.041	125.206	1.00	0.86	C
ATOM	3827	N	LEU	A	486	105.400	149.097	125.164	1.00	0.87	N
ATOM	3828	CA	LEU	A	486	106.503	148.273	124.695	1.00	0.87	C
ATOM	3829	C	LEU	A	486	106.057	146.991	123.986	1.00	0.87	C
ATOM	3830	O	LEU	A	486	106.645	146.586	122.985	1.00	0.87	O
ATOM	3831	CB	LEU	A	486	107.460	147.953	125.866	1.00	0.87	C
ATOM	3832	CG	LEU	A	486	108.371	149.141	126.243	1.00	0.87	C
ATOM	3833	CD1	LEU	A	486	108.935	148.972	127.661	1.00	0.87	C
ATOM	3834	CD2	LEU	A	486	109.522	149.319	125.237	1.00	0.87	C
ATOM	3835	N	LEU	A	487	104.993	146.324	124.478	1.00	0.88	N
ATOM	3836	CA	LEU	A	487	104.380	145.170	123.834	1.00	0.88	C
ATOM	3837	C	LEU	A	487	103.759	145.469	122.465	1.00	0.88	C
ATOM	3838	O	LEU	A	487	103.936	144.725	121.499	1.00	0.88	O
ATOM	3839	CB	LEU	A	487	103.289	144.586	124.771	1.00	0.88	C
ATOM	3840	CG	LEU	A	487	102.655	143.253	124.319	1.00	0.88	C
ATOM	3841	CD1	LEU	A	487	103.667	142.100	124.368	1.00	0.88	C
ATOM	3842	CD2	LEU	A	487	101.427	142.921	125.183	1.00	0.88	C
ATOM	3843	N	GLU	A	488	103.023	146.589	122.332	1.00	0.84	N
ATOM	3844	CA	GLU	A	488	102.462	147.065	121.078	1.00	0.84	C
ATOM	3845	C	GLU	A	488	103.541	147.433	120.069	1.00	0.84	C
ATOM	3846	O	GLU	A	488	103.530	146.961	118.933	1.00	0.84	O
ATOM	3847	CB	GLU	A	488	101.489	148.230	121.375	1.00	0.84	C
ATOM	3848	CG	GLU	A	488	100.904	148.957	120.136	1.00	0.84	C
ATOM	3849	CD	GLU	A	488	101.588	150.287	119.800	1.00	0.84	C
ATOM	3850	OE1	GLU	A	488	102.561	150.671	120.496	1.00	0.84	O
ATOM	3851	OE2	GLU	A	488	101.101	150.941	118.843	1.00	0.84	O
ATOM	3852	N	LYS	A	489	104.584	148.164	120.508	1.00	0.85	N
ATOM	3853	CA	LYS	A	489	105.754	148.469	119.707	1.00	0.85	C
ATOM	3854	C	LYS	A	489	106.514	147.231	119.222	1.00	0.85	C
ATOM	3855	O	LYS	A	489	106.972	147.156	118.085	1.00	0.85	O
ATOM	3856	CB	LYS	A	489	106.701	149.399	120.514	1.00	0.85	C
ATOM	3857	CG	LYS	A	489	107.989	149.816	119.782	1.00	0.85	C
ATOM	3858	CD	LYS	A	489	107.727	150.592	118.485	1.00	0.85	C
ATOM	3859	CE	LYS	A	489	108.980	150.757	117.627	1.00	0.85	C
ATOM	3860	NZ	LYS	A	489	108.587	151.316	116.328	1.00	0.85	N
ATOM	3861	N	ALA	A	490	106.655	146.190	120.065	1.00	0.90	N
ATOM	3862	CA	ALA	A	490	107.202	144.907	119.658	1.00	0.90	C
ATOM	3863	C	ALA	A	490	106.349	144.145	118.637	1.00	0.90	C
ATOM	3864	O	ALA	A	490	106.872	143.427	117.785	1.00	0.90	O
ATOM	3865	CB	ALA	A	490	107.460	144.031	120.898	1.00	0.90	C
ATOM	3866	N	THR	A	491	105.006	144.285	118.687	1.00	0.86	N
ATOM	3867	CA	THR	A	491	104.098	143.548	117.805	1.00	0.86	C
ATOM	3868	C	THR	A	491	103.718	144.320	116.555	1.00	0.86	C
ATOM	3869	O	THR	A	491	103.051	143.771	115.680	1.00	0.86	O
ATOM	3870	CB	THR	A	491	102.830	143.002	118.468	1.00	0.86	C
ATOM	3871	OG1	THR	A	491	102.036	143.992	119.111	1.00	0.86	O
ATOM	3872	CG2	THR	A	491	103.232	142.029	119.573	1.00	0.86	C
ATOM	3873	N	GLU	A	492	104.231	145.562	116.365	1.00	0.82	N
ATOM	3874	CA	GLU	A	492	103.987	146.422	115.203	1.00	0.82	C
ATOM	3875	C	GLU	A	492	104.335	145.776	113.865	1.00	0.82	C
ATOM	3876	O	GLU	A	492	103.765	146.087	112.822	1.00	0.82	O
ATOM	3877	CB	GLU	A	492	104.731	147.793	115.306	1.00	0.82	C
ATOM	3878	CG	GLU	A	492	106.233	147.785	114.881	1.00	0.82	C
ATOM	3879	CD	GLU	A	492	106.964	149.113	115.010	1.00	0.82	C
ATOM	3880	OE1	GLU	A	492	106.371	150.152	115.388	1.00	0.82	O
ATOM	3881	OE2	GLU	A	492	108.202	149.145	114.757	1.00	0.82	O
ATOM	3882	N	MET	A	493	105.300	144.837	113.882	1.00	0.79	N
ATOM	3883	CA	MET	A	493	105.743	144.047	112.754	1.00	0.79	C
ATOM	3884	C	MET	A	493	104.681	143.111	112.172	1.00	0.79	C
ATOM	3885	O	MET	A	493	104.649	142.871	110.969	1.00	0.79	O
ATOM	3886	CB	MET	A	493	106.995	143.250	113.187	1.00	0.79	C
ATOM	3887	CG	MET	A	493	107.867	142.756	112.018	1.00	0.79	C
ATOM	3888	SD	MET	A	493	109.239	141.658	112.499	1.00	0.79	S
ATOM	3889	CE	MET	A	493	109.884	142.512	113.965	1.00	0.79	C

ATOM	3890	N	HIS	A	494	103.785	142.550	113.015	1.00	0.76	N
ATOM	3891	CA	HIS	A	494	102.671	141.733	112.556	1.00	0.76	C
ATOM	3892	C	HIS	A	494	101.394	142.236	113.195	1.00	0.76	C
ATOM	3893	O	HIS	A	494	101.092	141.906	114.338	1.00	0.76	O
ATOM	3894	CB	HIS	A	494	102.812	140.242	112.963	1.00	0.76	C
ATOM	3895	CG	HIS	A	494	103.754	139.478	112.096	1.00	0.76	C
ATOM	3896	ND1	HIS	A	494	103.406	139.275	110.779	1.00	0.76	N
ATOM	3897	CD2	HIS	A	494	104.963	138.921	112.355	1.00	0.76	C
ATOM	3898	CE1	HIS	A	494	104.411	138.616	110.248	1.00	0.76	C
ATOM	3899	NE2	HIS	A	494	105.383	138.366	111.163	1.00	0.76	N
ATOM	3900	N	GLN	A	495	100.571	142.996	112.447	1.00	0.73	N
ATOM	3901	CA	GLN	A	495	99.373	143.653	112.964	1.00	0.73	C
ATOM	3902	C	GLN	A	495	98.104	142.888	112.612	1.00	0.73	C
ATOM	3903	O	GLN	A	495	96.995	143.414	112.610	1.00	0.73	O
ATOM	3904	CB	GLN	A	495	99.296	145.105	112.434	1.00	0.73	C
ATOM	3905	CG	GLN	A	495	100.506	145.945	112.902	1.00	0.73	C
ATOM	3906	CD	GLN	A	495	100.482	147.375	112.361	1.00	0.73	C
ATOM	3907	OE1	GLN	A	495	99.447	147.945	112.019	1.00	0.73	O
ATOM	3908	NE2	GLN	A	495	101.686	147.989	112.283	1.00	0.73	N
ATOM	3909	N	ASN	A	496	98.265	141.590	112.302	1.00	0.77	N
ATOM	3910	CA	ASN	A	496	97.206	140.629	112.051	1.00	0.77	C
ATOM	3911	C	ASN	A	496	96.219	140.473	113.204	1.00	0.77	C
ATOM	3912	O	ASN	A	496	96.547	140.659	114.371	1.00	0.77	O
ATOM	3913	CB	ASN	A	496	97.812	139.236	111.743	1.00	0.77	C
ATOM	3914	CG	ASN	A	496	98.637	139.338	110.469	1.00	0.77	C
ATOM	3915	OD1	ASN	A	496	98.232	140.000	109.516	1.00	0.77	O
ATOM	3916	ND2	ASN	A	496	99.812	138.672	110.426	1.00	0.77	N
ATOM	3917	N	GLY	A	497	94.958	140.070	112.923	1.00	0.81	N
ATOM	3918	CA	GLY	A	497	93.945	139.917	113.976	1.00	0.81	C
ATOM	3919	C	GLY	A	497	94.297	138.901	115.039	1.00	0.81	C
ATOM	3920	O	GLY	A	497	93.896	139.006	116.195	1.00	0.81	O
ATOM	3921	N	LEU	A	498	95.110	137.902	114.655	1.00	0.81	N
ATOM	3922	CA	LEU	A	498	95.673	136.897	115.527	1.00	0.81	C
ATOM	3923	C	LEU	A	498	96.600	137.430	116.624	1.00	0.81	C
ATOM	3924	O	LEU	A	498	96.488	137.038	117.785	1.00	0.81	O
ATOM	3925	CB	LEU	A	498	96.438	135.884	114.640	1.00	0.81	C
ATOM	3926	CG	LEU	A	498	96.873	134.589	115.350	1.00	0.81	C
ATOM	3927	CD1	LEU	A	498	95.665	133.820	115.898	1.00	0.81	C
ATOM	3928	CD2	LEU	A	498	97.664	133.694	114.384	1.00	0.81	C
ATOM	3929	N	SER	A	499	97.526	138.369	116.307	1.00	0.86	N
ATOM	3930	CA	SER	A	499	98.424	138.969	117.295	1.00	0.86	C
ATOM	3931	C	SER	A	499	97.676	139.837	118.280	1.00	0.86	C
ATOM	3932	O	SER	A	499	97.873	139.720	119.485	1.00	0.86	O
ATOM	3933	CB	SER	A	499	99.596	139.788	116.679	1.00	0.86	C
ATOM	3934	OG	SER	A	499	99.124	140.701	115.694	1.00	0.86	O
ATOM	3935	N	THR	A	500	96.733	140.670	117.797	1.00	0.82	N
ATOM	3936	CA	THR	A	500	95.860	141.503	118.628	1.00	0.82	C
ATOM	3937	C	THR	A	500	95.044	140.689	119.615	1.00	0.82	C
ATOM	3938	O	THR	A	500	95.020	140.979	120.810	1.00	0.82	O
ATOM	3939	CB	THR	A	500	94.903	142.334	117.778	1.00	0.82	C
ATOM	3940	OG1	THR	A	500	95.664	143.162	116.912	1.00	0.82	O
ATOM	3941	CG2	THR	A	500	94.028	143.272	118.624	1.00	0.82	C
ATOM	3942	N	ALA	A	501	94.417	139.583	119.159	1.00	0.86	N
ATOM	3943	CA	ALA	A	501	93.659	138.684	120.009	1.00	0.86	C
ATOM	3944	C	ALA	A	501	94.483	138.001	121.104	1.00	0.86	C
ATOM	3945	O	ALA	A	501	94.066	137.911	122.262	1.00	0.86	O
ATOM	3946	CB	ALA	A	501	92.989	137.614	119.123	1.00	0.86	C
ATOM	3947	N	LEU	A	502	95.698	137.512	120.774	1.00	0.84	N
ATOM	3948	CA	LEU	A	502	96.611	136.975	121.770	1.00	0.84	C
ATOM	3949	C	LEU	A	502	97.170	138.023	122.725	1.00	0.84	C
ATOM	3950	O	LEU	A	502	97.293	137.764	123.922	1.00	0.84	O
ATOM	3951	CB	LEU	A	502	97.756	136.131	121.164	1.00	0.84	C
ATOM	3952	CG	LEU	A	502	97.318	134.877	120.369	1.00	0.84	C
ATOM	3953	CD1	LEU	A	502	98.530	133.962	120.142	1.00	0.84	C
ATOM	3954	CD2	LEU	A	502	96.199	134.063	121.042	1.00	0.84	C



ATOM	3955	N	ASN	A	503	97.489	139.246	122.250	1.00	0.86	N
ATOM	3956	CA	ASN	A	503	97.923	140.344	123.105	1.00	0.86	C
ATOM	3957	C	ASN	A	503	96.870	140.751	124.130	1.00	0.86	C
ATOM	3958	O	ASN	A	503	97.173	140.887	125.314	1.00	0.86	O
ATOM	3959	CB	ASN	A	503	98.287	141.603	122.280	1.00	0.86	C
ATOM	3960	CG	ASN	A	503	99.530	141.353	121.435	1.00	0.86	C
ATOM	3961	OD1	ASN	A	503	100.358	140.479	121.703	1.00	0.86	O
ATOM	3962	ND2	ASN	A	503	99.686	142.182	120.377	1.00	0.86	N
ATOM	3963	N	ASP	A	504	95.593	140.894	123.723	1.00	0.83	N
ATOM	3964	CA	ASP	A	504	94.493	141.139	124.640	1.00	0.83	C
ATOM	3965	C	ASP	A	504	94.209	139.971	125.584	1.00	0.83	C
ATOM	3966	O	ASP	A	504	93.813	140.169	126.732	1.00	0.83	O
ATOM	3967	CB	ASP	A	504	93.224	141.591	123.874	1.00	0.83	C
ATOM	3968	CG	ASP	A	504	93.217	143.100	123.647	1.00	0.83	C
ATOM	3969	OD1	ASP	A	504	94.053	143.817	124.258	1.00	0.83	O
ATOM	3970	OD2	ASP	A	504	92.322	143.554	122.897	1.00	0.83	O
ATOM	3971	N	SER	A	505	94.429	138.707	125.163	1.00	0.86	N
ATOM	3972	CA	SER	A	505	94.426	137.568	126.086	1.00	0.86	C
ATOM	3973	C	SER	A	505	95.537	137.620	127.133	1.00	0.86	C
ATOM	3974	O	SER	A	505	95.303	137.415	128.325	1.00	0.86	O
ATOM	3975	CB	SER	A	505	94.485	136.209	125.347	1.00	0.86	C
ATOM	3976	OG	SER	A	505	94.124	135.134	126.220	1.00	0.86	O
ATOM	3977	N	PHE	A	506	96.776	137.971	126.725	1.00	0.86	N
ATOM	3978	CA	PHE	A	506	97.902	138.192	127.620	1.00	0.86	C
ATOM	3979	C	PHE	A	506	97.637	139.325	128.614	1.00	0.86	C
ATOM	3980	O	PHE	A	506	97.843	139.187	129.819	1.00	0.86	O
ATOM	3981	CB	PHE	A	506	99.175	138.485	126.769	1.00	0.86	C
ATOM	3982	CG	PHE	A	506	100.382	138.746	127.629	1.00	0.86	C
ATOM	3983	CD1	PHE	A	506	100.984	137.702	128.349	1.00	0.86	C
ATOM	3984	CD2	PHE	A	506	100.866	140.056	127.788	1.00	0.86	C
ATOM	3985	CE1	PHE	A	506	102.050	137.964	129.218	1.00	0.86	C
ATOM	3986	CE2	PHE	A	506	101.931	140.322	128.657	1.00	0.86	C
ATOM	3987	CZ	PHE	A	506	102.522	139.273	129.373	1.00	0.86	C
ATOM	3988	N	LYS	A	507	97.105	140.459	128.128	1.00	0.84	N
ATOM	3989	CA	LYS	A	507	96.697	141.582	128.947	1.00	0.84	C
ATOM	3990	C	LYS	A	507	95.596	141.244	129.938	1.00	0.84	C
ATOM	3991	O	LYS	A	507	95.659	141.625	131.099	1.00	0.84	O
ATOM	3992	CB	LYS	A	507	96.238	142.733	128.028	1.00	0.84	C
ATOM	3993	CG	LYS	A	507	97.427	143.442	127.363	1.00	0.84	C
ATOM	3994	CD	LYS	A	507	97.066	144.264	126.109	1.00	0.84	C
ATOM	3995	CE	LYS	A	507	95.834	145.164	126.213	1.00	0.84	C
ATOM	3996	NZ	LYS	A	507	95.980	146.055	127.374	1.00	0.84	N
ATOM	3997	N	ARG	A	508	94.577	140.479	129.519	1.00	0.78	N
ATOM	3998	CA	ARG	A	508	93.528	139.977	130.386	1.00	0.78	C
ATOM	3999	C	ARG	A	508	94.015	139.027	131.477	1.00	0.78	C
ATOM	4000	O	ARG	A	508	93.595	139.126	132.627	1.00	0.78	O
ATOM	4001	CB	ARG	A	508	92.432	139.371	129.492	1.00	0.78	C
ATOM	4002	CG	ARG	A	508	91.263	138.669	130.211	1.00	0.78	C
ATOM	4003	CD	ARG	A	508	89.949	138.586	129.409	1.00	0.78	C
ATOM	4004	NE	ARG	A	508	90.271	138.593	127.935	1.00	0.78	N
ATOM	4005	CZ	ARG	A	508	90.328	137.532	127.120	1.00	0.78	C
ATOM	4006	NH1	ARG	A	508	90.005	136.311	127.527	1.00	0.78	N
ATOM	4007	NH2	ARG	A	508	90.709	137.711	125.855	1.00	0.78	N
ATOM	4008	N	ASN	A	509	94.978	138.129	131.175	1.00	0.82	N
ATOM	4009	CA	ASN	A	509	95.688	137.362	132.194	1.00	0.82	C
ATOM	4010	C	ASN	A	509	96.447	138.267	133.183	1.00	0.82	C
ATOM	4011	O	ASN	A	509	96.440	138.033	134.392	1.00	0.82	O
ATOM	4012	CB	ASN	A	509	96.696	136.368	131.548	1.00	0.82	C
ATOM	4013	CG	ASN	A	509	96.025	135.148	130.917	1.00	0.82	C
ATOM	4014	OD1	ASN	A	509	94.835	134.850	131.026	1.00	0.82	O
ATOM	4015	ND2	ASN	A	509	96.869	134.333	130.236	1.00	0.82	N
ATOM	4016	N	PHE	A	510	97.084	139.351	132.689	1.00	0.84	N
ATOM	4017	CA	PHE	A	510	97.815	140.327	133.485	1.00	0.84	C
ATOM	4018	C	PHE	A	510	96.932	141.208	134.389	1.00	0.84	C
ATOM	4019	O	PHE	A	510	97.394	141.760	135.388	1.00	0.84	O

ATOM	4020	CB	PHE	A	510	98.686	141.202	132.537	1.00	0.84	C
ATOM	4021	CG	PHE	A	510	99.772	141.957	133.261	1.00	0.84	C
ATOM	4022	CD1	PHE	A	510	99.795	143.362	133.253	1.00	0.84	C
ATOM	4023	CD2	PHE	A	510	100.796	141.265	133.931	1.00	0.84	C
ATOM	4024	CE1	PHE	A	510	100.825	144.061	133.894	1.00	0.84	C
ATOM	4025	CE2	PHE	A	510	101.823	141.961	134.582	1.00	0.84	C
ATOM	4026	CZ	PHE	A	510	101.835	143.360	134.560	1.00	0.84	C
ATOM	4027	N	ASN	A	511	95.624	141.345	134.095	1.00	0.82	N
ATOM	4028	CA	ASN	A	511	94.694	142.097	134.933	1.00	0.82	C
ATOM	4029	C	ASN	A	511	94.297	141.371	136.212	1.00	0.82	C
ATOM	4030	O	ASN	A	511	93.811	141.975	137.168	1.00	0.82	O
ATOM	4031	CB	ASN	A	511	93.352	142.337	134.214	1.00	0.82	C
ATOM	4032	CG	ASN	A	511	93.491	143.155	132.946	1.00	0.82	C
ATOM	4033	OD1	ASN	A	511	94.464	143.860	132.665	1.00	0.82	O
ATOM	4034	ND2	ASN	A	511	92.403	143.095	132.142	1.00	0.82	N
ATOM	4035	N	THR	A	512	94.465	140.037	136.265	1.00	0.83	N
ATOM	4036	CA	THR	A	512	94.047	139.224	137.406	1.00	0.83	C
ATOM	4037	C	THR	A	512	94.698	139.614	138.729	1.00	0.83	C
ATOM	4038	O	THR	A	512	95.851	140.038	138.804	1.00	0.83	O
ATOM	4039	CB	THR	A	512	94.162	137.716	137.196	1.00	0.83	C
ATOM	4040	OG1	THR	A	512	95.500	137.265	137.005	1.00	0.83	O
ATOM	4041	CG2	THR	A	512	93.364	137.301	135.956	1.00	0.83	C
ATOM	4042	N	ASN	A	513	93.952	139.524	139.851	1.00	0.82	N
ATOM	4043	CA	ASN	A	513	94.436	140.005	141.145	1.00	0.82	C
ATOM	4044	C	ASN	A	513	95.691	139.319	141.690	1.00	0.82	C
ATOM	4045	O	ASN	A	513	96.512	139.967	142.341	1.00	0.82	O
ATOM	4046	CB	ASN	A	513	93.325	140.147	142.221	1.00	0.82	C
ATOM	4047	CG	ASN	A	513	92.350	138.985	142.168	1.00	0.82	C
ATOM	4048	OD1	ASN	A	513	92.751	137.827	142.184	1.00	0.82	O
ATOM	4049	ND2	ASN	A	513	91.037	139.289	142.080	1.00	0.82	N
ATOM	4050	N	VAL	A	514	95.908	138.019	141.402	1.00	0.85	N
ATOM	4051	CA	VAL	A	514	97.129	137.311	141.770	1.00	0.85	C
ATOM	4052	C	VAL	A	514	98.424	137.919	141.215	1.00	0.85	C
ATOM	4053	O	VAL	A	514	99.388	138.125	141.953	1.00	0.85	O
ATOM	4054	CB	VAL	A	514	97.016	135.824	141.421	1.00	0.85	C
ATOM	4055	CG1	VAL	A	514	96.876	135.556	139.907	1.00	0.85	C
ATOM	4056	CG2	VAL	A	514	98.192	135.030	142.026	1.00	0.85	C
ATOM	4057	N	VAL	A	515	98.481	138.288	139.916	1.00	0.87	N
ATOM	4058	CA	VAL	A	515	99.641	138.939	139.315	1.00	0.87	C
ATOM	4059	C	VAL	A	515	99.808	140.380	139.763	1.00	0.87	C
ATOM	4060	O	VAL	A	515	100.930	140.843	139.961	1.00	0.87	O
ATOM	4061	CB	VAL	A	515	99.725	138.816	137.798	1.00	0.87	C
ATOM	4062	CG1	VAL	A	515	100.133	137.374	137.439	1.00	0.87	C
ATOM	4063	CG2	VAL	A	515	98.394	139.183	137.132	1.00	0.87	C
ATOM	4064	N	GLN	A	516	98.701	141.118	139.990	1.00	0.82	N
ATOM	4065	CA	GLN	A	516	98.741	142.461	140.553	1.00	0.82	C
ATOM	4066	C	GLN	A	516	99.323	142.513	141.969	1.00	0.82	C
ATOM	4067	O	GLN	A	516	100.167	143.355	142.273	1.00	0.82	O
ATOM	4068	CB	GLN	A	516	97.333	143.111	140.525	1.00	0.82	C
ATOM	4069	CG	GLN	A	516	96.781	143.356	139.095	1.00	0.82	C
ATOM	4070	CD	GLN	A	516	97.649	144.351	138.319	1.00	0.82	C
ATOM	4071	OE1	GLN	A	516	98.107	145.364	138.849	1.00	0.82	O
ATOM	4072	NE2	GLN	A	516	97.897	144.069	137.021	1.00	0.82	N
ATOM	4073	N	TRP	A	517	98.938	141.570	142.861	1.00	0.84	N
ATOM	4074	CA	TRP	A	517	99.563	141.405	144.170	1.00	0.84	C
ATOM	4075	C	TRP	A	517	101.034	140.995	144.071	1.00	0.84	C
ATOM	4076	O	TRP	A	517	101.921	141.549	144.716	1.00	0.84	O
ATOM	4077	CB	TRP	A	517	98.770	140.346	144.992	1.00	0.84	C
ATOM	4078	CG	TRP	A	517	99.216	140.152	146.435	1.00	0.84	C
ATOM	4079	CD1	TRP	A	517	98.861	140.861	147.551	1.00	0.84	C
ATOM	4080	CD2	TRP	A	517	100.140	139.137	146.895	1.00	0.84	C
ATOM	4081	NE1	TRP	A	517	99.493	140.355	148.677	1.00	0.84	N
ATOM	4082	CE2	TRP	A	517	100.274	139.295	148.274	1.00	0.84	C
ATOM	4083	CE3	TRP	A	517	100.837	138.140	146.205	1.00	0.84	C
ATOM	4084	CZ2	TRP	A	517	101.103	138.465	149.025	1.00	0.84	C

ATOM	4085	CZ3	TRP	A	517	101.699	137.318	146.953	1.00	0.84	C
ATOM	4086	CH2	TRP	A	517	101.826	137.472	148.340	1.00	0.84	C
ATOM	4087	N	SER	A	518	101.331	140.029	143.181	1.00	0.89	N
ATOM	4088	CA	SER	A	518	102.661	139.480	142.945	1.00	0.89	C
ATOM	4089	C	SER	A	518	103.685	140.519	142.511	1.00	0.89	C
ATOM	4090	O	SER	A	518	104.852	140.498	142.901	1.00	0.89	O
ATOM	4091	CB	SER	A	518	102.564	138.385	141.855	1.00	0.89	C
ATOM	4092	OG	SER	A	518	103.797	137.713	141.647	1.00	0.89	O
ATOM	4093	N	MET	A	519	103.262	141.485	141.685	1.00	0.84	N
ATOM	4094	CA	MET	A	519	104.121	142.528	141.176	1.00	0.84	C
ATOM	4095	C	MET	A	519	104.745	143.457	142.219	1.00	0.84	C
ATOM	4096	O	MET	A	519	105.944	143.739	142.178	1.00	0.84	O
ATOM	4097	CB	MET	A	519	103.306	143.351	140.163	1.00	0.84	C
ATOM	4098	CG	MET	A	519	104.149	144.380	139.399	1.00	0.84	C
ATOM	4099	SD	MET	A	519	105.568	143.701	138.488	1.00	0.84	S
ATOM	4100	CE	MET	A	519	104.582	142.997	137.142	1.00	0.84	C
ATOM	4101	N	TRP	A	520	103.971	143.944	143.218	1.00	0.85	N
ATOM	4102	CA	TRP	A	520	104.534	144.765	144.284	1.00	0.85	C
ATOM	4103	C	TRP	A	520	105.450	143.971	145.207	1.00	0.85	C
ATOM	4104	O	TRP	A	520	106.468	144.475	145.681	1.00	0.85	O
ATOM	4105	CB	TRP	A	520	103.483	145.613	145.057	1.00	0.85	C
ATOM	4106	CG	TRP	A	520	102.453	144.892	145.916	1.00	0.85	C
ATOM	4107	CD1	TRP	A	520	101.141	144.625	145.629	1.00	0.85	C
ATOM	4108	CD2	TRP	A	520	102.668	144.461	147.275	1.00	0.85	C
ATOM	4109	NE1	TRP	A	520	100.523	144.059	146.724	1.00	0.85	N
ATOM	4110	CE2	TRP	A	520	101.442	143.925	147.733	1.00	0.85	C
ATOM	4111	CE3	TRP	A	520	103.785	144.503	148.110	1.00	0.85	C
ATOM	4112	CZ2	TRP	A	520	101.324	143.410	149.015	1.00	0.85	C
ATOM	4113	CZ3	TRP	A	520	103.663	143.976	149.405	1.00	0.85	C
ATOM	4114	CH2	TRP	A	520	102.449	143.431	149.851	1.00	0.85	C
ATOM	4115	N	VAL	A	521	105.130	142.680	145.432	1.00	0.89	N
ATOM	4116	CA	VAL	A	521	105.974	141.717	146.127	1.00	0.89	C
ATOM	4117	C	VAL	A	521	107.317	141.510	145.428	1.00	0.89	C
ATOM	4118	O	VAL	A	521	108.370	141.509	146.065	1.00	0.89	O
ATOM	4119	CB	VAL	A	521	105.239	140.388	146.283	1.00	0.89	C
ATOM	4120	CG1	VAL	A	521	106.154	139.297	146.872	1.00	0.89	C
ATOM	4121	CG2	VAL	A	521	104.010	140.608	147.188	1.00	0.89	C
ATOM	4122	N	SER	A	522	107.327	141.388	144.084	1.00	0.88	N
ATOM	4123	CA	SER	A	522	108.553	141.334	143.288	1.00	0.88	C
ATOM	4124	C	SER	A	522	109.398	142.602	143.394	1.00	0.88	C
ATOM	4125	O	SER	A	522	110.601	142.538	143.639	1.00	0.88	O
ATOM	4126	CB	SER	A	522	108.261	141.018	141.796	1.00	0.88	C
ATOM	4127	OG	SER	A	522	109.468	140.840	141.054	1.00	0.88	O
ATOM	4128	N	CYS	A	523	108.774	143.803	143.315	1.00	0.85	N
ATOM	4129	CA	CYS	A	523	109.460	145.077	143.531	1.00	0.85	C
ATOM	4130	C	CYS	A	523	110.074	145.186	144.924	1.00	0.85	C
ATOM	4131	O	CYS	A	523	111.219	145.600	145.093	1.00	0.85	O
ATOM	4132	CB	CYS	A	523	108.496	146.279	143.313	1.00	0.85	C
ATOM	4133	SG	CYS	A	523	109.313	147.922	143.419	1.00	0.85	S
ATOM	4134	N	LEU	A	524	109.334	144.751	145.963	1.00	0.86	N
ATOM	4135	CA	LEU	A	524	109.823	144.662	147.325	1.00	0.86	C
ATOM	4136	C	LEU	A	524	111.025	143.737	147.450	1.00	0.86	C
ATOM	4137	O	LEU	A	524	112.033	144.097	148.051	1.00	0.86	O
ATOM	4138	CB	LEU	A	524	108.650	144.196	148.224	1.00	0.86	C
ATOM	4139	CG	LEU	A	524	108.900	144.101	149.744	1.00	0.86	C
ATOM	4140	CD1	LEU	A	524	107.558	144.258	150.466	1.00	0.86	C
ATOM	4141	CD2	LEU	A	524	109.525	142.769	150.194	1.00	0.86	C
ATOM	4142	N	ALA	A	525	110.981	142.542	146.830	1.00	0.87	N
ATOM	4143	CA	ALA	A	525	112.089	141.608	146.789	1.00	0.87	C
ATOM	4144	C	ALA	A	525	113.329	142.153	146.078	1.00	0.87	C
ATOM	4145	O	ALA	A	525	114.454	141.991	146.551	1.00	0.87	O
ATOM	4146	CB	ALA	A	525	111.619	140.297	146.131	1.00	0.87	C
ATOM	4147	N	GLN	A	526	113.148	142.863	144.945	1.00	0.77	N
ATOM	4148	CA	GLN	A	526	114.207	143.592	144.265	1.00	0.77	C
ATOM	4149	C	GLN	A	526	114.829	144.697	145.121	1.00	0.77	C

ATOM	4150	O	GLN	A	526	116.051	144.834	145.184	1.00	0.77	O
ATOM	4151	CB	GLN	A	526	113.692	144.186	142.927	1.00	0.77	C
ATOM	4152	CG	GLN	A	526	113.417	143.102	141.857	1.00	0.77	C
ATOM	4153	CD	GLN	A	526	112.914	143.655	140.522	1.00	0.77	C
ATOM	4154	OE1	GLN	A	526	111.856	143.276	140.026	1.00	0.77	O
ATOM	4155	NE2	GLN	A	526	113.700	144.552	139.885	1.00	0.77	N
ATOM	4156	N	GLU	A	527	114.004	145.486	145.836	1.00	0.79	N
ATOM	4157	CA	GLU	A	527	114.459	146.472	146.801	1.00	0.79	C
ATOM	4158	C	GLU	A	527	115.158	145.925	148.038	1.00	0.79	C
ATOM	4159	O	GLU	A	527	116.152	146.482	148.504	1.00	0.79	O
ATOM	4160	CB	GLU	A	527	113.316	147.435	147.224	1.00	0.79	C
ATOM	4161	CG	GLU	A	527	113.153	148.652	146.277	1.00	0.79	C
ATOM	4162	CD	GLU	A	527	114.298	149.654	146.416	1.00	0.79	C
ATOM	4163	OE1	GLU	A	527	115.490	149.251	146.413	1.00	0.79	O
ATOM	4164	OE2	GLU	A	527	114.025	150.855	146.634	1.00	0.79	O
ATOM	4165	N	LEU	A	528	114.685	144.808	148.622	1.00	0.81	N
ATOM	4166	CA	LEU	A	528	115.407	144.134	149.693	1.00	0.81	C
ATOM	4167	C	LEU	A	528	116.735	143.546	149.237	1.00	0.81	C
ATOM	4168	O	LEU	A	528	117.723	143.600	149.962	1.00	0.81	O
ATOM	4169	CB	LEU	A	528	114.580	143.051	150.425	1.00	0.81	C
ATOM	4170	CG	LEU	A	528	113.275	143.540	151.097	1.00	0.81	C
ATOM	4171	CD1	LEU	A	528	112.807	142.513	152.136	1.00	0.81	C
ATOM	4172	CD2	LEU	A	528	113.367	144.928	151.752	1.00	0.81	C
ATOM	4173	N	ALA	A	529	116.813	143.006	148.003	1.00	0.82	N
ATOM	4174	CA	ALA	A	529	118.065	142.599	147.392	1.00	0.82	C
ATOM	4175	C	ALA	A	529	119.046	143.762	147.183	1.00	0.82	C
ATOM	4176	O	ALA	A	529	120.243	143.631	147.433	1.00	0.82	O
ATOM	4177	CB	ALA	A	529	117.782	141.875	146.059	1.00	0.82	C
ATOM	4178	N	SER	A	530	118.553	144.950	146.748	1.00	0.76	N
ATOM	4179	CA	SER	A	530	119.340	146.187	146.636	1.00	0.76	C
ATOM	4180	C	SER	A	530	119.880	146.689	147.974	1.00	0.76	C
ATOM	4181	O	SER	A	530	120.977	147.239	148.063	1.00	0.76	O
ATOM	4182	CB	SER	A	530	118.607	147.345	145.859	1.00	0.76	C
ATOM	4183	OG	SER	A	530	117.931	148.302	146.691	1.00	0.76	O
ATOM	4184	N	ALA	A	531	119.088	146.508	149.050	1.00	0.78	N
ATOM	4185	CA	ALA	A	531	119.375	146.960	150.394	1.00	0.78	C
ATOM	4186	C	ALA	A	531	119.968	145.877	151.301	1.00	0.78	C
ATOM	4187	O	ALA	A	531	120.011	146.022	152.522	1.00	0.78	O
ATOM	4188	CB	ALA	A	531	118.076	147.501	151.019	1.00	0.78	C
ATOM	4189	N	LEU	A	532	120.432	144.755	150.717	1.00	0.74	N
ATOM	4190	CA	LEU	A	532	121.082	143.658	151.416	1.00	0.74	C
ATOM	4191	C	LEU	A	532	122.436	144.005	152.031	1.00	0.74	C
ATOM	4192	O	LEU	A	532	122.783	143.529	153.111	1.00	0.74	O
ATOM	4193	CB	LEU	A	532	121.243	142.455	150.445	1.00	0.74	C
ATOM	4194	CG	LEU	A	532	121.944	141.197	151.015	1.00	0.74	C
ATOM	4195	CD1	LEU	A	532	121.190	140.587	152.209	1.00	0.74	C
ATOM	4196	CD2	LEU	A	532	122.139	140.145	149.913	1.00	0.74	C
ATOM	4197	N	LYS	A	533	123.260	144.818	151.341	1.00	0.65	N
ATOM	4198	CA	LYS	A	533	124.647	145.024	151.715	1.00	0.65	C
ATOM	4199	C	LYS	A	533	124.979	146.505	151.797	1.00	0.65	C
ATOM	4200	O	LYS	A	533	125.564	147.107	150.897	1.00	0.65	O
ATOM	4201	CB	LYS	A	533	125.583	144.290	150.720	1.00	0.65	C
ATOM	4202	CG	LYS	A	533	127.066	144.253	151.131	1.00	0.65	C
ATOM	4203	CD	LYS	A	533	127.922	143.509	150.090	1.00	0.65	C
ATOM	4204	CE	LYS	A	533	129.420	143.504	150.410	1.00	0.65	C
ATOM	4205	NZ	LYS	A	533	130.181	142.898	149.293	1.00	0.65	N
ATOM	4206	N	GLN	A	534	124.627	147.117	152.939	1.00	0.60	N
ATOM	4207	CA	GLN	A	534	124.887	148.504	153.251	1.00	0.60	C
ATOM	4208	C	GLN	A	534	125.680	148.532	154.548	1.00	0.60	C
ATOM	4209	O	GLN	A	534	125.932	147.509	155.180	1.00	0.60	O
ATOM	4210	CB	GLN	A	534	123.578	149.347	153.369	1.00	0.60	C
ATOM	4211	CG	GLN	A	534	123.125	150.040	152.051	1.00	0.60	C
ATOM	4212	CD	GLN	A	534	122.521	149.076	151.026	1.00	0.60	C
ATOM	4213	OE1	GLN	A	534	122.249	147.912	151.302	1.00	0.60	O
ATOM	4214	NE2	GLN	A	534	122.258	149.572	149.794	1.00	0.60	N

ATOM	4215	N	HIS	A	535	126.146	149.725	154.958	1.00	0.52	N
ATOM	4216	CA	HIS	A	535	126.939	149.893	156.162	1.00	0.52	C
ATOM	4217	C	HIS	A	535	126.009	150.270	157.297	1.00	0.52	C
ATOM	4218	O	HIS	A	535	125.246	151.219	157.152	1.00	0.52	O
ATOM	4219	CB	HIS	A	535	127.984	151.013	155.968	1.00	0.52	C
ATOM	4220	CG	HIS	A	535	129.197	150.908	156.832	1.00	0.52	C
ATOM	4221	ND1	HIS	A	535	129.067	150.702	158.188	1.00	0.52	N
ATOM	4222	CD2	HIS	A	535	130.506	151.020	156.495	1.00	0.52	C
ATOM	4223	CE1	HIS	A	535	130.298	150.685	158.654	1.00	0.52	C
ATOM	4224	NE2	HIS	A	535	131.210	150.876	157.671	1.00	0.52	N
ATOM	4225	N	CYS	A	536	126.057	149.524	158.417	1.00	0.60	N
ATOM	4226	CA	CYS	A	536	124.992	149.457	159.402	1.00	0.60	C
ATOM	4227	C	CYS	A	536	125.367	150.152	160.708	1.00	0.60	C
ATOM	4228	O	CYS	A	536	126.112	149.609	161.530	1.00	0.60	O
ATOM	4229	CB	CYS	A	536	124.704	147.940	159.657	1.00	0.60	C
ATOM	4230	SG	CYS	A	536	123.392	147.533	160.868	1.00	0.60	S
ATOM	4231	N	LYS	A	537	124.815	151.364	160.962	1.00	0.70	N
ATOM	4232	CA	LYS	A	537	124.975	152.065	162.227	1.00	0.70	C
ATOM	4233	C	LYS	A	537	124.155	151.413	163.363	1.00	0.70	C
ATOM	4234	O	LYS	A	537	123.101	150.799	163.126	1.00	0.70	O
ATOM	4235	CB	LYS	A	537	124.619	153.587	162.152	1.00	0.70	C
ATOM	4236	CG	LYS	A	537	125.361	154.400	161.073	1.00	0.70	C
ATOM	4237	CD	LYS	A	537	124.705	155.766	160.757	1.00	0.70	C
ATOM	4238	CE	LYS	A	537	124.841	156.846	161.838	1.00	0.70	C
ATOM	4239	NZ	LYS	A	537	124.326	158.132	161.355	1.00	0.70	N
ATOM	4240	N	PRO	A	538	124.573	151.517	164.630	1.00	0.74	N
ATOM	4241	CA	PRO	A	538	123.729	151.218	165.787	1.00	0.74	C
ATOM	4242	C	PRO	A	538	122.407	151.973	165.785	1.00	0.74	C
ATOM	4243	O	PRO	A	538	122.402	153.200	165.748	1.00	0.74	O
ATOM	4244	CB	PRO	A	538	124.599	151.600	166.998	1.00	0.74	C
ATOM	4245	CG	PRO	A	538	126.034	151.463	166.481	1.00	0.74	C
ATOM	4246	CD	PRO	A	538	125.917	151.932	165.033	1.00	0.74	C
ATOM	4247	N	GLY	A	539	121.265	151.257	165.812	1.00	0.74	N
ATOM	4248	CA	GLY	A	539	119.945	151.881	165.825	1.00	0.74	C
ATOM	4249	C	GLY	A	539	119.450	152.421	164.503	1.00	0.74	C
ATOM	4250	O	GLY	A	539	118.365	152.986	164.444	1.00	0.74	O
ATOM	4251	N	GLU	A	540	120.212	152.271	163.396	1.00	0.71	N
ATOM	4252	CA	GLU	A	540	119.762	152.740	162.092	1.00	0.71	C
ATOM	4253	C	GLU	A	540	118.642	151.933	161.491	1.00	0.71	C
ATOM	4254	O	GLU	A	540	118.505	150.743	161.774	1.00	0.71	O
ATOM	4255	CB	GLU	A	540	120.872	152.838	161.021	1.00	0.71	C
ATOM	4256	CG	GLU	A	540	121.166	151.572	160.173	1.00	0.71	C
ATOM	4257	CD	GLU	A	540	122.161	151.844	159.054	1.00	0.71	C
ATOM	4258	OE1	GLU	A	540	123.020	152.747	159.225	1.00	0.71	O
ATOM	4259	OE2	GLU	A	540	122.099	151.082	158.060	1.00	0.71	O
ATOM	4260	N	PHE	A	541	117.875	152.574	160.595	1.00	0.78	N
ATOM	4261	CA	PHE	A	541	116.894	151.940	159.752	1.00	0.78	C
ATOM	4262	C	PHE	A	541	116.991	152.645	158.410	1.00	0.78	C
ATOM	4263	O	PHE	A	541	117.595	153.710	158.317	1.00	0.78	O
ATOM	4264	CB	PHE	A	541	115.454	152.126	160.290	1.00	0.78	C
ATOM	4265	CG	PHE	A	541	115.296	151.539	161.664	1.00	0.78	C
ATOM	4266	CD1	PHE	A	541	115.091	150.160	161.831	1.00	0.78	C
ATOM	4267	CD2	PHE	A	541	115.370	152.360	162.802	1.00	0.78	C
ATOM	4268	CE1	PHE	A	541	114.974	149.609	163.115	1.00	0.78	C
ATOM	4269	CE2	PHE	A	541	115.258	151.814	164.086	1.00	0.78	C
ATOM	4270	CZ	PHE	A	541	115.061	150.437	164.242	1.00	0.78	C
ATOM	4271	N	ILE	A	542	116.405	152.079	157.341	1.00	0.82	N
ATOM	4272	CA	ILE	A	542	116.270	152.755	156.056	1.00	0.82	C
ATOM	4273	C	ILE	A	542	114.797	152.734	155.684	1.00	0.82	C
ATOM	4274	O	ILE	A	542	114.146	151.697	155.778	1.00	0.82	O
ATOM	4275	CB	ILE	A	542	117.117	152.104	154.955	1.00	0.82	C
ATOM	4276	CG1	ILE	A	542	118.620	152.205	155.320	1.00	0.82	C
ATOM	4277	CG2	ILE	A	542	116.835	152.770	153.585	1.00	0.82	C
ATOM	4278	CD1	ILE	A	542	119.563	151.501	154.336	1.00	0.82	C
ATOM	4279	N	ILE	A	543	114.226	153.882	155.258	1.00	0.81	N

ATOM	4280	CA	ILE	A	543	112.833	154.015	154.847	1.00	0.81	C
ATOM	4281	C	ILE	A	543	112.770	154.215	153.336	1.00	0.81	C
ATOM	4282	O	ILE	A	543	113.490	155.032	152.761	1.00	0.81	O
ATOM	4283	CB	ILE	A	543	112.112	155.142	155.604	1.00	0.81	C
ATOM	4284	CG1	ILE	A	543	110.682	155.466	155.091	1.00	0.81	C
ATOM	4285	CG2	ILE	A	543	112.965	156.431	155.637	1.00	0.81	C
ATOM	4286	CD1	ILE	A	543	109.663	154.334	155.253	1.00	0.81	C
ATOM	4287	N	LYS	A	544	111.923	153.425	152.640	1.00	0.76	N
ATOM	4288	CA	LYS	A	544	111.770	153.475	151.196	1.00	0.76	C
ATOM	4289	C	LYS	A	544	110.297	153.376	150.790	1.00	0.76	C
ATOM	4290	O	LYS	A	544	109.441	152.975	151.579	1.00	0.76	O
ATOM	4291	CB	LYS	A	544	112.526	152.307	150.514	1.00	0.76	C
ATOM	4292	CG	LYS	A	544	114.054	152.286	150.721	1.00	0.76	C
ATOM	4293	CD	LYS	A	544	114.662	151.203	149.814	1.00	0.76	C
ATOM	4294	CE	LYS	A	544	116.187	151.129	149.726	1.00	0.76	C
ATOM	4295	NZ	LYS	A	544	116.572	150.250	148.602	1.00	0.76	N
ATOM	4296	N	LYS	A	545	109.973	153.736	149.526	1.00	0.77	N
ATOM	4297	CA	LYS	A	545	108.650	153.608	148.930	1.00	0.77	C
ATOM	4298	C	LYS	A	545	108.798	152.786	147.657	1.00	0.77	C
ATOM	4299	O	LYS	A	545	109.717	153.017	146.880	1.00	0.77	O
ATOM	4300	CB	LYS	A	545	108.060	154.993	148.530	1.00	0.77	C
ATOM	4301	CG	LYS	A	545	106.619	154.943	147.979	1.00	0.77	C
ATOM	4302	CD	LYS	A	545	106.318	156.052	146.957	1.00	0.77	C
ATOM	4303	CE	LYS	A	545	105.089	155.728	146.100	1.00	0.77	C
ATOM	4304	NZ	LYS	A	545	104.991	156.655	144.960	1.00	0.77	N
ATOM	4305	N	LEU	A	546	107.892	151.830	147.362	1.00	0.78	N
ATOM	4306	CA	LEU	A	546	108.018	150.924	146.220	1.00	0.78	C
ATOM	4307	C	LEU	A	546	107.658	151.523	144.852	1.00	0.78	C
ATOM	4308	O	LEU	A	546	107.180	150.827	143.957	1.00	0.78	O
ATOM	4309	CB	LEU	A	546	107.119	149.681	146.441	1.00	0.78	C
ATOM	4310	CG	LEU	A	546	107.390	148.903	147.743	1.00	0.78	C
ATOM	4311	CD1	LEU	A	546	106.402	147.734	147.862	1.00	0.78	C
ATOM	4312	CD2	LEU	A	546	108.832	148.376	147.808	1.00	0.78	C
ATOM	4313	N	MET	A	547	107.857	152.844	144.665	1.00	0.65	N
ATOM	4314	CA	MET	A	547	107.795	153.550	143.389	1.00	0.65	C
ATOM	4315	C	MET	A	547	106.401	153.770	142.809	1.00	0.65	C
ATOM	4316	O	MET	A	547	105.940	154.904	142.677	1.00	0.65	O
ATOM	4317	CB	MET	A	547	108.817	153.026	142.349	1.00	0.65	C
ATOM	4318	CG	MET	A	547	110.262	153.273	142.825	1.00	0.65	C
ATOM	4319	SD	MET	A	547	111.589	152.693	141.734	1.00	0.65	S
ATOM	4320	CE	MET	A	547	111.337	153.711	140.256	1.00	0.65	C
ATOM	4321	N	HIS	A	548	105.693	152.681	142.458	1.00	0.71	N
ATOM	4322	CA	HIS	A	548	104.423	152.719	141.745	1.00	0.71	C
ATOM	4323	C	HIS	A	548	103.207	152.568	142.653	1.00	0.71	C
ATOM	4324	O	HIS	A	548	102.070	152.760	142.227	1.00	0.71	O
ATOM	4325	CB	HIS	A	548	104.367	151.550	140.733	1.00	0.71	C
ATOM	4326	CG	HIS	A	548	105.521	151.535	139.775	1.00	0.71	C
ATOM	4327	ND1	HIS	A	548	105.521	152.404	138.701	1.00	0.71	N
ATOM	4328	CD2	HIS	A	548	106.639	150.759	139.752	1.00	0.71	C
ATOM	4329	CE1	HIS	A	548	106.630	152.136	138.044	1.00	0.71	C
ATOM	4330	NE2	HIS	A	548	107.347	151.151	138.634	1.00	0.71	N
ATOM	4331	N	TRP	A	549	103.406	152.242	143.946	1.00	0.77	N
ATOM	4332	CA	TRP	A	549	102.313	151.916	144.850	1.00	0.77	C
ATOM	4333	C	TRP	A	549	102.446	152.714	146.144	1.00	0.77	C
ATOM	4334	O	TRP	A	549	103.572	153.052	146.518	1.00	0.77	O
ATOM	4335	CB	TRP	A	549	102.320	150.401	145.198	1.00	0.77	C
ATOM	4336	CG	TRP	A	549	102.180	149.493	143.983	1.00	0.77	C
ATOM	4337	CD1	TRP	A	549	101.061	149.153	143.274	1.00	0.77	C
ATOM	4338	CD2	TRP	A	549	103.287	148.884	143.301	1.00	0.77	C
ATOM	4339	NE1	TRP	A	549	101.395	148.338	142.214	1.00	0.77	N
ATOM	4340	CE2	TRP	A	549	102.757	148.177	142.199	1.00	0.77	C
ATOM	4341	CE3	TRP	A	549	104.654	148.916	143.540	1.00	0.77	C
ATOM	4342	CZ2	TRP	A	549	103.588	147.499	141.322	1.00	0.77	C
ATOM	4343	CZ3	TRP	A	549	105.494	148.250	142.640	1.00	0.77	C
ATOM	4344	CH2	TRP	A	549	104.972	147.544	141.547	1.00	0.77	C

ATOM	4345	N	PRO	A	550	101.388	153.047	146.890	1.00	0.80	N
ATOM	4346	CA	PRO	A	550	101.501	153.830	148.124	1.00	0.80	C
ATOM	4347	C	PRO	A	550	101.833	152.945	149.324	1.00	0.80	C
ATOM	4348	O	PRO	A	550	101.139	153.001	150.340	1.00	0.80	O
ATOM	4349	CB	PRO	A	550	100.096	154.458	148.249	1.00	0.80	C
ATOM	4350	CG	PRO	A	550	99.165	153.426	147.610	1.00	0.80	C
ATOM	4351	CD	PRO	A	550	99.999	152.937	146.430	1.00	0.80	C
ATOM	4352	N	ILE	A	551	102.922	152.163	149.220	1.00	0.84	N
ATOM	4353	CA	ILE	A	551	103.406	151.229	150.221	1.00	0.84	C
ATOM	4354	C	ILE	A	551	104.789	151.689	150.639	1.00	0.84	C
ATOM	4355	O	ILE	A	551	105.626	152.037	149.800	1.00	0.84	O
ATOM	4356	CB	ILE	A	551	103.498	149.795	149.683	1.00	0.84	C
ATOM	4357	CG1	ILE	A	551	102.110	149.302	149.203	1.00	0.84	C
ATOM	4358	CG2	ILE	A	551	104.077	148.842	150.761	1.00	0.84	C
ATOM	4359	CD1	ILE	A	551	102.151	147.956	148.467	1.00	0.84	C
ATOM	4360	N	PHE	A	552	105.049	151.702	151.959	1.00	0.84	N
ATOM	4361	CA	PHE	A	552	106.303	152.131	152.542	1.00	0.84	C
ATOM	4362	C	PHE	A	552	106.938	150.968	153.277	1.00	0.84	C
ATOM	4363	O	PHE	A	552	106.253	150.129	153.861	1.00	0.84	O
ATOM	4364	CB	PHE	A	552	106.102	153.292	153.547	1.00	0.84	C
ATOM	4365	CG	PHE	A	552	105.581	154.497	152.826	1.00	0.84	C
ATOM	4366	CD1	PHE	A	552	106.458	155.293	152.077	1.00	0.84	C
ATOM	4367	CD2	PHE	A	552	104.215	154.821	152.854	1.00	0.84	C
ATOM	4368	CE1	PHE	A	552	105.977	156.393	151.358	1.00	0.84	C
ATOM	4369	CE2	PHE	A	552	103.732	155.931	152.149	1.00	0.84	C
ATOM	4370	CZ	PHE	A	552	104.616	156.718	151.398	1.00	0.84	C
ATOM	4371	N	ALA	A	553	108.278	150.878	153.246	1.00	0.91	N
ATOM	4372	CA	ALA	A	553	109.015	149.813	153.891	1.00	0.91	C
ATOM	4373	C	ALA	A	553	110.136	150.370	154.751	1.00	0.91	C
ATOM	4374	O	ALA	A	553	110.933	151.188	154.295	1.00	0.91	O
ATOM	4375	CB	ALA	A	553	109.618	148.872	152.829	1.00	0.91	C
ATOM	4376	N	ILE	A	554	110.228	149.918	156.019	1.00	0.88	N
ATOM	4377	CA	ILE	A	554	111.357	150.199	156.894	1.00	0.88	C
ATOM	4378	C	ILE	A	554	112.220	148.950	156.924	1.00	0.88	C
ATOM	4379	O	ILE	A	554	111.734	147.845	157.166	1.00	0.88	O
ATOM	4380	CB	ILE	A	554	110.963	150.601	158.319	1.00	0.88	C
ATOM	4381	CG1	ILE	A	554	110.209	151.949	158.307	1.00	0.88	C
ATOM	4382	CG2	ILE	A	554	112.218	150.740	159.207	1.00	0.88	C
ATOM	4383	CD1	ILE	A	554	109.635	152.335	159.678	1.00	0.88	C
ATOM	4384	N	ILE	A	555	113.528	149.104	156.649	1.00	0.86	N
ATOM	4385	CA	ILE	A	555	114.490	148.025	156.510	1.00	0.86	C
ATOM	4386	C	ILE	A	555	115.563	148.158	157.582	1.00	0.86	C
ATOM	4387	O	ILE	A	555	116.034	149.256	157.874	1.00	0.86	O
ATOM	4388	CB	ILE	A	555	115.159	148.069	155.128	1.00	0.86	C
ATOM	4389	CG1	ILE	A	555	114.099	148.001	153.997	1.00	0.86	C
ATOM	4390	CG2	ILE	A	555	116.201	146.935	154.987	1.00	0.86	C
ATOM	4391	CD1	ILE	A	555	114.686	148.172	152.589	1.00	0.86	C
ATOM	4392	N	LYS	A	556	115.993	147.031	158.192	1.00	0.79	N
ATOM	4393	CA	LYS	A	556	117.200	146.968	158.998	1.00	0.79	C
ATOM	4394	C	LYS	A	556	118.174	145.946	158.397	1.00	0.79	C
ATOM	4395	O	LYS	A	556	117.860	144.750	158.389	1.00	0.79	O
ATOM	4396	CB	LYS	A	556	116.893	146.567	160.467	1.00	0.79	C
ATOM	4397	CG	LYS	A	556	118.133	146.366	161.364	1.00	0.79	C
ATOM	4398	CD	LYS	A	556	118.931	147.666	161.486	1.00	0.79	C
ATOM	4399	CE	LYS	A	556	120.097	147.668	162.469	1.00	0.79	C
ATOM	4400	NZ	LYS	A	556	120.764	148.976	162.323	1.00	0.79	N
ATOM	4401	N	PRO	A	557	119.355	146.329	157.896	1.00	0.79	N
ATOM	4402	CA	PRO	A	557	120.371	145.373	157.463	1.00	0.79	C
ATOM	4403	C	PRO	A	557	121.188	144.823	158.628	1.00	0.79	C
ATOM	4404	O	PRO	A	557	121.138	145.336	159.749	1.00	0.79	O
ATOM	4405	CB	PRO	A	557	121.247	146.192	156.498	1.00	0.79	C
ATOM	4406	CG	PRO	A	557	121.137	147.630	157.008	1.00	0.79	C
ATOM	4407	CD	PRO	A	557	119.691	147.704	157.496	1.00	0.79	C
ATOM	4408	N	THR	A	558	121.947	143.739	158.376	1.00	0.69	N
ATOM	4409	CA	THR	A	558	122.737	143.012	159.365	1.00	0.69	C

ATOM	4410	C	THR	A	558	124.191	143.004	158.925	1.00	0.69	C
ATOM	4411	O	THR	A	558	124.543	143.581	157.905	1.00	0.69	O
ATOM	4412	CB	THR	A	558	122.270	141.570	159.621	1.00	0.69	C
ATOM	4413	OG1	THR	A	558	122.495	140.703	158.517	1.00	0.69	O
ATOM	4414	CG2	THR	A	558	120.763	141.546	159.911	1.00	0.69	C
ATOM	4415	N	LYS	A	559	125.097	142.368	159.701	1.00	0.49	N
ATOM	4416	CA	LYS	A	559	126.486	142.205	159.287	1.00	0.49	C
ATOM	4417	C	LYS	A	559	126.774	140.787	158.813	1.00	0.49	C
ATOM	4418	O	LYS	A	559	127.902	140.455	158.464	1.00	0.49	O
ATOM	4419	CB	LYS	A	559	127.464	142.494	160.455	1.00	0.49	C
ATOM	4420	CG	LYS	A	559	127.352	143.909	161.042	1.00	0.49	C
ATOM	4421	CD	LYS	A	559	128.430	144.139	162.117	1.00	0.49	C
ATOM	4422	CE	LYS	A	559	128.403	145.510	162.802	1.00	0.49	C
ATOM	4423	NZ	LYS	A	559	127.151	145.671	163.573	1.00	0.49	N
ATOM	4424	N	SER	A	560	125.769	139.888	158.795	1.00	0.53	N
ATOM	4425	CA	SER	A	560	125.994	138.512	158.369	1.00	0.53	C
ATOM	4426	C	SER	A	560	125.669	138.332	156.903	1.00	0.53	C
ATOM	4427	O	SER	A	560	126.196	137.428	156.247	1.00	0.53	O
ATOM	4428	CB	SER	A	560	125.119	137.510	159.178	1.00	0.53	C
ATOM	4429	OG	SER	A	560	123.726	137.820	159.079	1.00	0.53	O
ATOM	4430	N	SER	A	561	124.788	139.206	156.375	1.00	0.60	N
ATOM	4431	CA	SER	A	561	124.306	139.252	155.000	1.00	0.60	C
ATOM	4432	C	SER	A	561	123.597	137.984	154.569	1.00	0.60	C
ATOM	4433	O	SER	A	561	123.588	137.608	153.399	1.00	0.60	O
ATOM	4434	CB	SER	A	561	125.388	139.639	153.960	1.00	0.60	C
ATOM	4435	OG	SER	A	561	125.995	140.878	154.325	1.00	0.60	O
ATOM	4436	N	SER	A	562	122.955	137.290	155.530	1.00	0.63	N
ATOM	4437	CA	SER	A	562	122.282	136.022	155.278	1.00	0.63	C
ATOM	4438	C	SER	A	562	120.779	136.181	155.291	1.00	0.63	C
ATOM	4439	O	SER	A	562	120.040	135.321	154.811	1.00	0.63	O
ATOM	4440	CB	SER	A	562	122.602	134.965	156.371	1.00	0.63	C
ATOM	4441	OG	SER	A	562	124.004	134.699	156.463	1.00	0.63	O
ATOM	4442	N	HIS	A	563	120.293	137.302	155.839	1.00	0.62	N
ATOM	4443	CA	HIS	A	563	118.891	137.596	156.012	1.00	0.62	C
ATOM	4444	C	HIS	A	563	118.776	139.072	156.316	1.00	0.62	C
ATOM	4445	O	HIS	A	563	119.767	139.717	156.659	1.00	0.62	O
ATOM	4446	CB	HIS	A	563	118.234	136.779	157.157	1.00	0.62	C
ATOM	4447	CG	HIS	A	563	119.005	136.856	158.435	1.00	0.62	C
ATOM	4448	ND1	HIS	A	563	120.002	135.930	158.698	1.00	0.62	N
ATOM	4449	CD2	HIS	A	563	118.981	137.815	159.398	1.00	0.62	C
ATOM	4450	CE1	HIS	A	563	120.561	136.354	159.808	1.00	0.62	C
ATOM	4451	NE2	HIS	A	563	119.983	137.483	160.280	1.00	0.62	N
ATOM	4452	N	ILE	A	564	117.559	139.630	156.205	1.00	0.74	N
ATOM	4453	CA	ILE	A	564	117.303	141.044	156.411	1.00	0.74	C
ATOM	4454	C	ILE	A	564	116.027	141.178	157.221	1.00	0.74	C
ATOM	4455	O	ILE	A	564	115.190	140.277	157.197	1.00	0.74	O
ATOM	4456	CB	ILE	A	564	117.197	141.760	155.063	1.00	0.74	C
ATOM	4457	CG1	ILE	A	564	117.495	143.272	155.171	1.00	0.74	C
ATOM	4458	CG2	ILE	A	564	115.854	141.449	154.355	1.00	0.74	C
ATOM	4459	CD1	ILE	A	564	117.600	143.942	153.796	1.00	0.74	C
ATOM	4460	N	PHE	A	565	115.842	142.290	157.965	1.00	0.72	N
ATOM	4461	CA	PHE	A	565	114.657	142.512	158.779	1.00	0.72	C
ATOM	4462	C	PHE	A	565	113.864	143.663	158.183	1.00	0.72	C
ATOM	4463	O	PHE	A	565	114.432	144.700	157.836	1.00	0.72	O
ATOM	4464	CB	PHE	A	565	115.011	142.912	160.236	1.00	0.72	C
ATOM	4465	CG	PHE	A	565	115.646	141.785	160.995	1.00	0.72	C
ATOM	4466	CD1	PHE	A	565	114.845	140.837	161.652	1.00	0.72	C
ATOM	4467	CD2	PHE	A	565	117.044	141.698	161.111	1.00	0.72	C
ATOM	4468	CE1	PHE	A	565	115.430	139.819	162.416	1.00	0.72	C
ATOM	4469	CE2	PHE	A	565	117.632	140.678	161.871	1.00	0.72	C
ATOM	4470	CZ	PHE	A	565	116.824	139.738	162.523	1.00	0.72	C
ATOM	4471	N	TYR	A	566	112.530	143.520	158.045	1.00	0.81	N
ATOM	4472	CA	TYR	A	566	111.724	144.549	157.407	1.00	0.81	C
ATOM	4473	C	TYR	A	566	110.298	144.639	157.952	1.00	0.81	C
ATOM	4474	O	TYR	A	566	109.691	143.658	158.385	1.00	0.81	O



ATOM	4475	CB	TYR	A	566	111.717	144.419	155.848	1.00	0.81	C
ATOM	4476	CG	TYR	A	566	110.953	143.207	155.374	1.00	0.81	C
ATOM	4477	CD1	TYR	A	566	111.506	141.921	155.478	1.00	0.81	C
ATOM	4478	CD2	TYR	A	566	109.639	143.347	154.892	1.00	0.81	C
ATOM	4479	CE1	TYR	A	566	110.747	140.793	155.147	1.00	0.81	C
ATOM	4480	CE2	TYR	A	566	108.880	142.218	154.550	1.00	0.81	C
ATOM	4481	CZ	TYR	A	566	109.435	140.940	154.692	1.00	0.81	C
ATOM	4482	OH	TYR	A	566	108.664	139.796	154.418	1.00	0.81	O
ATOM	4483	N	SER	A	567	109.726	145.856	157.915	1.00	0.88	N
ATOM	4484	CA	SER	A	567	108.368	146.137	158.365	1.00	0.88	C
ATOM	4485	C	SER	A	567	107.702	147.020	157.341	1.00	0.88	C
ATOM	4486	O	SER	A	567	108.308	147.961	156.831	1.00	0.88	O
ATOM	4487	CB	SER	A	567	108.303	146.882	159.723	1.00	0.88	C
ATOM	4488	OG	SER	A	567	108.714	146.016	160.778	1.00	0.88	O
ATOM	4489	N	LEU	A	568	106.434	146.732	156.991	1.00	0.87	N
ATOM	4490	CA	LEU	A	568	105.710	147.455	155.963	1.00	0.87	C
ATOM	4491	C	LEU	A	568	104.658	148.373	156.544	1.00	0.87	C
ATOM	4492	O	LEU	A	568	104.213	148.217	157.680	1.00	0.87	O
ATOM	4493	CB	LEU	A	568	104.996	146.503	154.969	1.00	0.87	C
ATOM	4494	CG	LEU	A	568	105.927	145.525	154.228	1.00	0.87	C
ATOM	4495	CD1	LEU	A	568	105.114	144.716	153.203	1.00	0.87	C
ATOM	4496	CD2	LEU	A	568	107.098	146.248	153.542	1.00	0.87	C
ATOM	4497	N	ALA	A	569	104.239	149.357	155.732	1.00	0.88	N
ATOM	4498	CA	ALA	A	569	103.186	150.276	156.065	1.00	0.88	C
ATOM	4499	C	ALA	A	569	102.400	150.690	154.852	1.00	0.88	C
ATOM	4500	O	ALA	A	569	102.906	150.770	153.732	1.00	0.88	O
ATOM	4501	CB	ALA	A	569	103.772	151.578	156.609	1.00	0.88	C
ATOM	4502	N	ILE	A	570	101.125	151.017	155.086	1.00	0.81	N
ATOM	4503	CA	ILE	A	570	100.229	151.448	154.049	1.00	0.81	C
ATOM	4504	C	ILE	A	570	99.234	152.403	154.673	1.00	0.81	C
ATOM	4505	O	ILE	A	570	98.923	152.319	155.859	1.00	0.81	O
ATOM	4506	CB	ILE	A	570	99.560	150.245	153.393	1.00	0.81	C
ATOM	4507	CG1	ILE	A	570	98.776	150.624	152.125	1.00	0.81	C
ATOM	4508	CG2	ILE	A	570	98.677	149.482	154.404	1.00	0.81	C
ATOM	4509	CD1	ILE	A	570	98.465	149.408	151.253	1.00	0.81	C
ATOM	4510	N	LYS	A	571	98.692	153.356	153.886	1.00	0.71	N
ATOM	4511	CA	LYS	A	571	97.907	154.469	154.401	1.00	0.71	C
ATOM	4512	C	LYS	A	571	96.445	154.106	154.637	1.00	0.71	C
ATOM	4513	O	LYS	A	571	95.602	154.987	154.768	1.00	0.71	O
ATOM	4514	CB	LYS	A	571	97.858	155.618	153.356	1.00	0.71	C
ATOM	4515	CG	LYS	A	571	99.201	156.124	152.807	1.00	0.71	C
ATOM	4516	CD	LYS	A	571	98.924	157.137	151.680	1.00	0.71	C
ATOM	4517	CE	LYS	A	571	100.157	157.616	150.915	1.00	0.71	C
ATOM	4518	NZ	LYS	A	571	99.726	158.405	149.734	1.00	0.71	N
ATOM	4519	N	LYS	A	572	96.115	152.795	154.623	1.00	0.72	N
ATOM	4520	CA	LYS	A	572	94.854	152.175	155.012	1.00	0.72	C
ATOM	4521	C	LYS	A	572	93.595	152.527	154.205	1.00	0.72	C
ATOM	4522	O	LYS	A	572	92.700	151.705	154.038	1.00	0.72	O
ATOM	4523	CB	LYS	A	572	94.657	152.377	156.531	1.00	0.72	C
ATOM	4524	CG	LYS	A	572	93.883	151.263	157.248	1.00	0.72	C
ATOM	4525	CD	LYS	A	572	92.675	151.784	158.037	1.00	0.72	C
ATOM	4526	CE	LYS	A	572	92.188	150.748	159.056	1.00	0.72	C
ATOM	4527	NZ	LYS	A	572	91.364	151.389	160.097	1.00	0.72	N
ATOM	4528	N	ALA	A	573	93.540	153.730	153.605	1.00	0.76	N
ATOM	4529	CA	ALA	A	573	92.443	154.247	152.813	1.00	0.76	C
ATOM	4530	C	ALA	A	573	92.617	153.973	151.322	1.00	0.76	C
ATOM	4531	O	ALA	A	573	91.707	154.175	150.526	1.00	0.76	O
ATOM	4532	CB	ALA	A	573	92.397	155.774	153.035	1.00	0.76	C
ATOM	4533	N	ASN	A	574	93.794	153.453	150.914	1.00	0.72	N
ATOM	4534	CA	ASN	A	574	94.065	153.092	149.528	1.00	0.72	C
ATOM	4535	C	ASN	A	574	94.099	151.581	149.343	1.00	0.72	C
ATOM	4536	O	ASN	A	574	94.449	151.087	148.272	1.00	0.72	O
ATOM	4537	CB	ASN	A	574	95.411	153.676	149.019	1.00	0.72	C
ATOM	4538	CG	ASN	A	574	95.274	155.177	148.812	1.00	0.72	C
ATOM	4539	OD1	ASN	A	574	94.556	155.648	147.936	1.00	0.72	O

ATOM	4540	ND2	ASN	A	574	96.007	155.983	149.613	1.00	0.72	N
ATOM	4541	N	ILE	A	575	93.710	150.790	150.367	1.00	0.78	N
ATOM	4542	CA	ILE	A	575	93.607	149.342	150.230	1.00	0.78	C
ATOM	4543	C	ILE	A	575	92.261	149.021	149.603	1.00	0.78	C
ATOM	4544	O	ILE	A	575	91.248	148.866	150.279	1.00	0.78	O
ATOM	4545	CB	ILE	A	575	93.745	148.576	151.545	1.00	0.78	C
ATOM	4546	CG1	ILE	A	575	95.030	148.970	152.303	1.00	0.78	C
ATOM	4547	CG2	ILE	A	575	93.759	147.057	151.238	1.00	0.78	C
ATOM	4548	CD1	ILE	A	575	95.043	148.453	153.746	1.00	0.78	C
ATOM	4549	N	LYS	A	576	92.211	148.964	148.259	1.00	0.74	N
ATOM	4550	CA	LYS	A	576	90.970	148.767	147.541	1.00	0.74	C
ATOM	4551	C	LYS	A	576	90.402	147.365	147.658	1.00	0.74	C
ATOM	4552	O	LYS	A	576	89.192	147.174	147.778	1.00	0.74	O
ATOM	4553	CB	LYS	A	576	91.139	149.110	146.039	1.00	0.74	C
ATOM	4554	CG	LYS	A	576	89.817	149.092	145.243	1.00	0.74	C
ATOM	4555	CD	LYS	A	576	88.840	150.208	145.651	1.00	0.74	C
ATOM	4556	CE	LYS	A	576	87.537	150.175	144.849	1.00	0.74	C
ATOM	4557	NZ	LYS	A	576	86.641	151.259	145.307	1.00	0.74	N
ATOM	4558	N	ARG	A	577	91.269	146.341	147.575	1.00	0.69	N
ATOM	4559	CA	ARG	A	577	90.843	144.962	147.619	1.00	0.69	C
ATOM	4560	C	ARG	A	577	91.832	144.170	148.449	1.00	0.69	C
ATOM	4561	O	ARG	A	577	92.927	144.622	148.781	1.00	0.69	O
ATOM	4562	CB	ARG	A	577	90.698	144.313	146.205	1.00	0.69	C
ATOM	4563	CG	ARG	A	577	89.947	145.188	145.176	1.00	0.69	C
ATOM	4564	CD	ARG	A	577	89.755	144.535	143.801	1.00	0.69	C
ATOM	4565	NE	ARG	A	577	89.018	145.511	142.916	1.00	0.69	N
ATOM	4566	CZ	ARG	A	577	87.687	145.662	142.902	1.00	0.69	C
ATOM	4567	NH1	ARG	A	577	86.901	145.026	143.765	1.00	0.69	N
ATOM	4568	NH2	ARG	A	577	87.111	146.460	142.005	1.00	0.69	N
ATOM	4569	N	ARG	A	578	91.450	142.939	148.815	1.00	0.70	N
ATOM	4570	CA	ARG	A	578	92.302	142.009	149.514	1.00	0.70	C
ATOM	4571	C	ARG	A	578	92.080	140.698	148.778	1.00	0.70	C
ATOM	4572	O	ARG	A	578	91.121	140.573	148.018	1.00	0.70	O
ATOM	4573	CB	ARG	A	578	91.948	141.893	151.031	1.00	0.70	C
ATOM	4574	CG	ARG	A	578	91.687	143.260	151.716	1.00	0.70	C
ATOM	4575	CD	ARG	A	578	91.454	143.223	153.237	1.00	0.70	C
ATOM	4576	NE	ARG	A	578	92.766	143.430	153.945	1.00	0.70	N
ATOM	4577	CZ	ARG	A	578	93.145	144.565	154.555	1.00	0.70	C
ATOM	4578	NH1	ARG	A	578	92.521	145.723	154.388	1.00	0.70	N
ATOM	4579	NH2	ARG	A	578	94.204	144.562	155.355	1.00	0.70	N
ATOM	4580	N	LEU	A	579	92.948	139.684	148.951	1.00	0.79	N
ATOM	4581	CA	LEU	A	579	92.840	138.440	148.193	1.00	0.79	C
ATOM	4582	C	LEU	A	579	91.747	137.500	148.696	1.00	0.79	C
ATOM	4583	O	LEU	A	579	91.367	136.554	148.013	1.00	0.79	O
ATOM	4584	CB	LEU	A	579	94.195	137.692	148.174	1.00	0.79	C
ATOM	4585	CG	LEU	A	579	95.328	138.441	147.437	1.00	0.79	C
ATOM	4586	CD1	LEU	A	579	96.653	137.686	147.609	1.00	0.79	C
ATOM	4587	CD2	LEU	A	579	95.023	138.621	145.940	1.00	0.79	C
ATOM	4588	N	ILE	A	580	91.198	137.763	149.904	1.00	0.69	N
ATOM	4589	CA	ILE	A	580	90.099	137.009	150.507	1.00	0.69	C
ATOM	4590	C	ILE	A	580	90.448	135.530	150.702	1.00	0.69	C
ATOM	4591	O	ILE	A	580	89.827	134.605	150.186	1.00	0.69	O
ATOM	4592	CB	ILE	A	580	88.724	137.295	149.880	1.00	0.69	C
ATOM	4593	CG1	ILE	A	580	88.492	138.825	149.745	1.00	0.69	C
ATOM	4594	CG2	ILE	A	580	87.596	136.680	150.745	1.00	0.69	C
ATOM	4595	CD1	ILE	A	580	87.234	139.204	148.950	1.00	0.69	C
ATOM	4596	N	GLY	A	581	91.529	135.303	151.472	1.00	0.76	N
ATOM	4597	CA	GLY	A	581	91.907	134.006	151.999	1.00	0.76	C
ATOM	4598	C	GLY	A	581	92.416	134.263	153.382	1.00	0.76	C
ATOM	4599	O	GLY	A	581	92.619	135.417	153.755	1.00	0.76	O
ATOM	4600	N	ASP	A	582	92.642	133.207	154.169	1.00	0.77	N
ATOM	4601	CA	ASP	A	582	92.953	133.298	155.576	1.00	0.77	C
ATOM	4602	C	ASP	A	582	94.381	132.891	155.927	1.00	0.77	C
ATOM	4603	O	ASP	A	582	94.895	133.219	156.991	1.00	0.77	O
ATOM	4604	CB	ASP	A	582	91.942	132.386	156.319	1.00	0.77	C

ATOM	4605	CG	ASP	A	582	91.994	130.924	155.891	1.00	0.77	C
ATOM	4606	OD1	ASP	A	582	91.493	130.098	156.690	1.00	0.77	O
ATOM	4607	OD2	ASP	A	582	92.555	130.605	154.811	1.00	0.77	O
ATOM	4608	N	VAL	A	583	95.104	132.204	155.023	1.00	0.80	N
ATOM	4609	CA	VAL	A	583	96.442	131.685	155.284	1.00	0.80	C
ATOM	4610	C	VAL	A	583	97.553	132.728	155.157	1.00	0.80	C
ATOM	4611	O	VAL	A	583	98.695	132.417	154.812	1.00	0.80	O
ATOM	4612	CB	VAL	A	583	96.752	130.468	154.413	1.00	0.80	C
ATOM	4613	CG1	VAL	A	583	95.869	129.293	154.873	1.00	0.80	C
ATOM	4614	CG2	VAL	A	583	96.520	130.770	152.918	1.00	0.80	C
ATOM	4615	N	PHE	A	584	97.245	133.990	155.487	1.00	0.77	N
ATOM	4616	CA	PHE	A	584	98.093	135.154	155.375	1.00	0.77	C
ATOM	4617	C	PHE	A	584	98.520	135.604	156.753	1.00	0.77	C
ATOM	4618	O	PHE	A	584	97.947	135.217	157.763	1.00	0.77	O
ATOM	4619	CB	PHE	A	584	97.334	136.339	154.726	1.00	0.77	C
ATOM	4620	CG	PHE	A	584	97.110	136.079	153.267	1.00	0.77	C
ATOM	4621	CD1	PHE	A	584	98.106	136.406	152.336	1.00	0.77	C
ATOM	4622	CD2	PHE	A	584	95.910	135.511	152.812	1.00	0.77	C
ATOM	4623	CE1	PHE	A	584	97.913	136.163	150.970	1.00	0.77	C
ATOM	4624	CE2	PHE	A	584	95.711	135.263	151.448	1.00	0.77	C
ATOM	4625	CZ	PHE	A	584	96.717	135.585	150.528	1.00	0.77	C
ATOM	4626	N	THR	A	585	99.579	136.425	156.843	1.00	0.73	N
ATOM	4627	CA	THR	A	585	99.951	137.100	158.085	1.00	0.73	C
ATOM	4628	C	THR	A	585	98.936	138.148	158.504	1.00	0.73	C
ATOM	4629	O	THR	A	585	98.736	139.126	157.783	1.00	0.73	O
ATOM	4630	CB	THR	A	585	101.286	137.828	157.951	1.00	0.73	C
ATOM	4631	OG1	THR	A	585	102.366	136.909	157.834	1.00	0.73	O
ATOM	4632	CG2	THR	A	585	101.616	138.708	159.163	1.00	0.73	C
ATOM	4633	N	ASP	A	586	98.324	137.994	159.700	1.00	0.77	N
ATOM	4634	CA	ASP	A	586	97.566	139.033	160.372	1.00	0.77	C
ATOM	4635	C	ASP	A	586	98.400	140.271	160.691	1.00	0.77	C
ATOM	4636	O	ASP	A	586	99.530	140.179	161.164	1.00	0.77	O
ATOM	4637	CB	ASP	A	586	96.988	138.509	161.705	1.00	0.77	C
ATOM	4638	CG	ASP	A	586	96.084	137.327	161.439	1.00	0.77	C
ATOM	4639	OD1	ASP	A	586	95.010	137.543	160.824	1.00	0.77	O
ATOM	4640	OD2	ASP	A	586	96.472	136.203	161.849	1.00	0.77	O
ATOM	4641	N	THR	A	587	97.838	141.458	160.429	1.00	0.81	N
ATOM	4642	CA	THR	A	587	98.492	142.750	160.549	1.00	0.81	C
ATOM	4643	C	THR	A	587	97.925	143.518	161.720	1.00	0.81	C
ATOM	4644	O	THR	A	587	96.906	143.157	162.308	1.00	0.81	O
ATOM	4645	CB	THR	A	587	98.299	143.603	159.300	1.00	0.81	C
ATOM	4646	OG1	THR	A	587	96.970	143.471	158.803	1.00	0.81	O
ATOM	4647	CG2	THR	A	587	99.241	143.098	158.203	1.00	0.81	C
ATOM	4648	N	ILE	A	588	98.593	144.620	162.116	1.00	0.74	N
ATOM	4649	CA	ILE	A	588	98.151	145.435	163.236	1.00	0.74	C
ATOM	4650	C	ILE	A	588	97.582	146.779	162.777	1.00	0.74	C
ATOM	4651	O	ILE	A	588	98.191	147.525	162.004	1.00	0.74	O
ATOM	4652	CB	ILE	A	588	99.246	145.610	164.296	1.00	0.74	C
ATOM	4653	CG1	ILE	A	588	100.551	146.220	163.725	1.00	0.74	C
ATOM	4654	CG2	ILE	A	588	99.503	144.222	164.928	1.00	0.74	C
ATOM	4655	CD1	ILE	A	588	101.627	146.489	164.786	1.00	0.74	C
ATOM	4656	N	ASP	A	589	96.354	147.114	163.250	1.00	0.74	N
ATOM	4657	CA	ASP	A	589	95.732	148.423	163.112	1.00	0.74	C
ATOM	4658	C	ASP	A	589	96.519	149.537	163.803	1.00	0.74	C
ATOM	4659	O	ASP	A	589	97.118	149.375	164.866	1.00	0.74	O
ATOM	4660	CB	ASP	A	589	94.267	148.443	163.662	1.00	0.74	C
ATOM	4661	CG	ASP	A	589	93.221	148.615	162.565	1.00	0.74	C
ATOM	4662	OD1	ASP	A	589	93.088	149.756	162.034	1.00	0.74	O
ATOM	4663	OD2	ASP	A	589	92.502	147.631	162.277	1.00	0.74	O
ATOM	4664	N	ALA	A	590	96.482	150.733	163.204	1.00	0.79	N
ATOM	4665	CA	ALA	A	590	97.027	151.932	163.788	1.00	0.79	C
ATOM	4666	C	ALA	A	590	96.159	153.109	163.371	1.00	0.79	C
ATOM	4667	O	ALA	A	590	96.626	154.214	163.099	1.00	0.79	O
ATOM	4668	CB	ALA	A	590	98.495	152.091	163.368	1.00	0.79	C
ATOM	4669	N	GLY	A	591	94.830	152.871	163.291	1.00	0.71	N

ATOM	4670	CA	GLY	A	591	93.821	153.896	163.037	1.00	0.71	C
ATOM	4671	C	GLY	A	591	93.687	154.219	161.577	1.00	0.71	C
ATOM	4672	O	GLY	A	591	92.842	153.658	160.874	1.00	0.71	O
ATOM	4673	N	GLU	A	592	94.553	155.130	161.096	1.00	0.65	N
ATOM	4674	CA	GLU	A	592	94.652	155.565	159.715	1.00	0.65	C
ATOM	4675	C	GLU	A	592	95.801	154.853	158.999	1.00	0.65	C
ATOM	4676	O	GLU	A	592	96.080	155.093	157.829	1.00	0.65	O
ATOM	4677	CB	GLU	A	592	94.781	157.119	159.640	1.00	0.65	C
ATOM	4678	CG	GLU	A	592	96.040	157.728	160.320	1.00	0.65	C
ATOM	4679	CD	GLU	A	592	96.066	159.261	160.430	1.00	0.65	C
ATOM	4680	OE1	GLU	A	592	95.573	159.950	159.503	1.00	0.65	O
ATOM	4681	OE2	GLU	A	592	96.632	159.760	161.446	1.00	0.65	O
ATOM	4682	N	TRP	A	593	96.453	153.883	159.675	1.00	0.71	N
ATOM	4683	CA	TRP	A	593	97.516	153.075	159.102	1.00	0.71	C
ATOM	4684	C	TRP	A	593	97.296	151.606	159.405	1.00	0.71	C
ATOM	4685	O	TRP	A	593	96.573	151.239	160.331	1.00	0.71	O
ATOM	4686	CB	TRP	A	593	98.903	153.450	159.678	1.00	0.71	C
ATOM	4687	CG	TRP	A	593	99.369	154.831	159.317	1.00	0.71	C
ATOM	4688	CD1	TRP	A	593	99.072	156.015	159.924	1.00	0.71	C
ATOM	4689	CD2	TRP	A	593	100.235	155.155	158.212	1.00	0.71	C
ATOM	4690	NE1	TRP	A	593	99.677	157.068	159.269	1.00	0.71	N
ATOM	4691	CE2	TRP	A	593	100.388	156.540	158.206	1.00	0.71	C
ATOM	4692	CE3	TRP	A	593	100.860	154.343	157.263	1.00	0.71	C
ATOM	4693	CZ2	TRP	A	593	101.159	157.170	157.234	1.00	0.71	C
ATOM	4694	CZ3	TRP	A	593	101.632	154.975	156.274	1.00	0.71	C
ATOM	4695	CH2	TRP	A	593	101.772	156.368	156.253	1.00	0.71	C
ATOM	4696	N	GLU	A	594	97.950	150.738	158.612	1.00	0.79	N
ATOM	4697	CA	GLU	A	594	98.028	149.308	158.833	1.00	0.79	C
ATOM	4698	C	GLU	A	594	99.508	148.943	158.707	1.00	0.79	C
ATOM	4699	O	GLU	A	594	100.179	149.413	157.784	1.00	0.79	O
ATOM	4700	CB	GLU	A	594	97.149	148.536	157.810	1.00	0.79	C
ATOM	4701	CG	GLU	A	594	96.790	147.099	158.254	1.00	0.79	C
ATOM	4702	CD	GLU	A	594	96.032	146.313	157.195	1.00	0.79	C
ATOM	4703	OE1	GLU	A	594	94.994	146.770	156.643	1.00	0.79	O
ATOM	4704	OE2	GLU	A	594	96.482	145.176	156.889	1.00	0.79	O
ATOM	4705	N	PHE	A	595	100.072	148.161	159.656	1.00	0.83	N
ATOM	4706	CA	PHE	A	595	101.513	147.934	159.760	1.00	0.83	C
ATOM	4707	C	PHE	A	595	101.844	146.452	159.910	1.00	0.83	C
ATOM	4708	O	PHE	A	595	100.962	145.631	160.158	1.00	0.83	O
ATOM	4709	CB	PHE	A	595	102.136	148.650	161.001	1.00	0.83	C
ATOM	4710	CG	PHE	A	595	102.055	150.150	160.944	1.00	0.83	C
ATOM	4711	CD1	PHE	A	595	102.579	150.839	159.843	1.00	0.83	C
ATOM	4712	CD2	PHE	A	595	101.560	150.893	162.031	1.00	0.83	C
ATOM	4713	CE1	PHE	A	595	102.585	152.238	159.808	1.00	0.83	C
ATOM	4714	CE2	PHE	A	595	101.560	152.295	161.997	1.00	0.83	C
ATOM	4715	CZ	PHE	A	595	102.066	152.965	160.880	1.00	0.83	C
ATOM	4716	N	SER	A	596	103.144	146.078	159.766	1.00	0.82	N
ATOM	4717	CA	SER	A	596	103.613	144.709	159.989	1.00	0.82	C
ATOM	4718	C	SER	A	596	104.797	144.603	160.947	1.00	0.82	C
ATOM	4719	O	SER	A	596	105.484	145.575	161.256	1.00	0.82	O
ATOM	4720	CB	SER	A	596	103.939	143.920	158.684	1.00	0.82	C
ATOM	4721	OG	SER	A	596	105.149	144.339	158.037	1.00	0.82	O
ATOM	4722	N	GLU	A	597	105.024	143.377	161.470	1.00	0.71	N
ATOM	4723	CA	GLU	A	597	105.794	143.098	162.669	1.00	0.71	C
ATOM	4724	C	GLU	A	597	107.185	142.506	162.409	1.00	0.71	C
ATOM	4725	O	GLU	A	597	107.408	141.327	162.677	1.00	0.71	O
ATOM	4726	CB	GLU	A	597	105.022	142.120	163.617	1.00	0.71	C
ATOM	4727	CG	GLU	A	597	103.478	142.298	163.693	1.00	0.71	C
ATOM	4728	CD	GLU	A	597	102.782	141.834	162.417	1.00	0.71	C
ATOM	4729	OE1	GLU	A	597	103.265	140.831	161.834	1.00	0.71	O
ATOM	4730	OE2	GLU	A	597	101.888	142.551	161.923	1.00	0.71	O
ATOM	4731	N	PHE	A	598	108.152	143.293	161.871	1.00	0.71	N
ATOM	4732	CA	PHE	A	598	109.566	142.926	161.698	1.00	0.71	C
ATOM	4733	C	PHE	A	598	109.885	141.507	161.222	1.00	0.71	C
ATOM	4734	O	PHE	A	598	110.522	140.704	161.904	1.00	0.71	O

ATOM	4735	CB	PHE	A	598	110.455	143.317	162.916	1.00	0.71	C
ATOM	4736	CG	PHE	A	598	110.821	144.773	162.863	1.00	0.71	C
ATOM	4737	CD1	PHE	A	598	111.801	145.211	161.955	1.00	0.71	C
ATOM	4738	CD2	PHE	A	598	110.198	145.714	163.696	1.00	0.71	C
ATOM	4739	CE1	PHE	A	598	112.140	146.567	161.868	1.00	0.71	C
ATOM	4740	CE2	PHE	A	598	110.525	147.073	163.606	1.00	0.71	C
ATOM	4741	CZ	PHE	A	598	111.497	147.499	162.691	1.00	0.71	C
ATOM	4742	N	LYS	A	599	109.443	141.162	160.000	1.00	0.68	N
ATOM	4743	CA	LYS	A	599	109.702	139.862	159.415	1.00	0.68	C
ATOM	4744	C	LYS	A	599	111.144	139.707	158.976	1.00	0.68	C
ATOM	4745	O	LYS	A	599	111.816	140.678	158.631	1.00	0.68	O
ATOM	4746	CB	LYS	A	599	108.788	139.551	158.203	1.00	0.68	C
ATOM	4747	CG	LYS	A	599	107.295	139.799	158.443	1.00	0.68	C
ATOM	4748	CD	LYS	A	599	106.682	139.006	159.607	1.00	0.68	C
ATOM	4749	CE	LYS	A	599	105.276	139.523	159.877	1.00	0.68	C
ATOM	4750	NZ	LYS	A	599	104.657	138.862	161.035	1.00	0.68	N
ATOM	4751	N	SER	A	600	111.643	138.458	158.965	1.00	0.71	N
ATOM	4752	CA	SER	A	600	112.979	138.156	158.488	1.00	0.71	C
ATOM	4753	C	SER	A	600	112.892	137.219	157.308	1.00	0.71	C
ATOM	4754	O	SER	A	600	112.231	136.179	157.355	1.00	0.71	O
ATOM	4755	CB	SER	A	600	113.871	137.532	159.585	1.00	0.71	C
ATOM	4756	OG	SER	A	600	115.234	137.395	159.165	1.00	0.71	O
ATOM	4757	N	LEU	A	601	113.555	137.599	156.203	1.00	0.71	N
ATOM	4758	CA	LEU	A	601	113.618	136.829	154.978	1.00	0.71	C
ATOM	4759	C	LEU	A	601	115.081	136.571	154.682	1.00	0.71	C
ATOM	4760	O	LEU	A	601	115.919	137.472	154.705	1.00	0.71	O
ATOM	4761	CB	LEU	A	601	112.949	137.565	153.783	1.00	0.71	C
ATOM	4762	CG	LEU	A	601	111.604	136.969	153.306	1.00	0.71	C
ATOM	4763	CD1	LEU	A	601	110.559	136.828	154.425	1.00	0.71	C
ATOM	4764	CD2	LEU	A	601	111.035	137.827	152.164	1.00	0.71	C
ATOM	4765	N	LYS	A	602	115.436	135.297	154.433	1.00	0.66	N
ATOM	4766	CA	LYS	A	602	116.763	134.903	154.011	1.00	0.66	C
ATOM	4767	C	LYS	A	602	117.131	135.309	152.595	1.00	0.66	C
ATOM	4768	O	LYS	A	602	116.304	135.316	151.689	1.00	0.66	O
ATOM	4769	CB	LYS	A	602	116.982	133.388	154.184	1.00	0.66	C
ATOM	4770	CG	LYS	A	602	117.086	132.997	155.658	1.00	0.66	C
ATOM	4771	CD	LYS	A	602	117.456	131.519	155.816	1.00	0.66	C
ATOM	4772	CE	LYS	A	602	117.886	131.139	157.227	1.00	0.66	C
ATOM	4773	NZ	LYS	A	602	119.134	131.849	157.558	1.00	0.66	N
ATOM	4774	N	THR	A	603	118.433	135.594	152.374	1.00	0.69	N
ATOM	4775	CA	THR	A	603	119.010	136.012	151.089	1.00	0.69	C
ATOM	4776	C	THR	A	603	118.810	134.985	149.979	1.00	0.69	C
ATOM	4777	O	THR	A	603	118.565	135.302	148.816	1.00	0.69	O
ATOM	4778	CB	THR	A	603	120.483	136.403	151.238	1.00	0.69	C
ATOM	4779	OG1	THR	A	603	121.004	137.004	150.065	1.00	0.69	O
ATOM	4780	CG2	THR	A	603	121.388	135.209	151.578	1.00	0.69	C
ATOM	4781	N	CYS	A	604	118.830	133.689	150.354	1.00	0.61	N
ATOM	4782	CA	CYS	A	604	118.546	132.546	149.507	1.00	0.61	C
ATOM	4783	C	CYS	A	604	117.154	132.595	148.899	1.00	0.61	C
ATOM	4784	O	CYS	A	604	116.924	132.194	147.761	1.00	0.61	O
ATOM	4785	CB	CYS	A	604	118.634	131.242	150.344	1.00	0.61	C
ATOM	4786	SG	CYS	A	604	120.124	131.169	151.383	1.00	0.61	S
ATOM	4787	N	LYS	A	605	116.179	133.100	149.677	1.00	0.71	N
ATOM	4788	CA	LYS	A	605	114.767	133.080	149.363	1.00	0.71	C
ATOM	4789	C	LYS	A	605	114.333	134.378	148.713	1.00	0.71	C
ATOM	4790	O	LYS	A	605	113.291	134.931	149.045	1.00	0.71	O
ATOM	4791	CB	LYS	A	605	113.920	132.827	150.642	1.00	0.71	C
ATOM	4792	CG	LYS	A	605	114.404	131.649	151.512	1.00	0.71	C
ATOM	4793	CD	LYS	A	605	114.580	130.344	150.718	1.00	0.71	C
ATOM	4794	CE	LYS	A	605	115.041	129.136	151.530	1.00	0.71	C
ATOM	4795	NZ	LYS	A	605	113.910	128.681	152.347	1.00	0.71	N
ATOM	4796	N	LEU	A	606	115.133	134.912	147.770	1.00	0.78	N
ATOM	4797	CA	LEU	A	606	114.813	136.169	147.114	1.00	0.78	C
ATOM	4798	C	LEU	A	606	114.537	136.017	145.633	1.00	0.78	C
ATOM	4799	O	LEU	A	606	113.652	136.684	145.103	1.00	0.78	O

ATOM	4800	CB	LEU	A	606	115.962	137.189	147.292	1.00	0.78	C
ATOM	4801	CG	LEU	A	606	116.077	137.764	148.719	1.00	0.78	C
ATOM	4802	CD1	LEU	A	606	117.307	138.677	148.814	1.00	0.78	C
ATOM	4803	CD2	LEU	A	606	114.821	138.543	149.144	1.00	0.78	C
ATOM	4804	N	THR	A	607	115.231	135.113	144.907	1.00	0.76	N
ATOM	4805	CA	THR	A	607	115.039	134.954	143.462	1.00	0.76	C
ATOM	4806	C	THR	A	607	113.635	134.502	143.108	1.00	0.76	C
ATOM	4807	O	THR	A	607	112.989	135.044	142.219	1.00	0.76	O
ATOM	4808	CB	THR	A	607	116.065	134.030	142.807	1.00	0.76	C
ATOM	4809	OG1	THR	A	607	116.101	132.742	143.415	1.00	0.76	O
ATOM	4810	CG2	THR	A	607	117.464	134.634	143.015	1.00	0.76	C
ATOM	4811	N	ASN	A	608	113.092	133.547	143.883	1.00	0.77	N
ATOM	4812	CA	ASN	A	608	111.762	132.978	143.746	1.00	0.77	C
ATOM	4813	C	ASN	A	608	110.655	134.031	143.852	1.00	0.77	C
ATOM	4814	O	ASN	A	608	109.713	134.046	143.064	1.00	0.77	O
ATOM	4815	CB	ASN	A	608	111.540	131.889	144.838	1.00	0.77	C
ATOM	4816	CG	ASN	A	608	112.569	130.756	144.752	1.00	0.77	C
ATOM	4817	OD1	ASN	A	608	113.748	130.954	144.449	1.00	0.77	O
ATOM	4818	ND2	ASN	A	608	112.125	129.523	145.071	1.00	0.77	N
ATOM	4819	N	LEU	A	609	110.777	134.976	144.810	1.00	0.85	N
ATOM	4820	CA	LEU	A	609	109.885	136.118	144.951	1.00	0.85	C
ATOM	4821	C	LEU	A	609	109.981	137.090	143.778	1.00	0.85	C
ATOM	4822	O	LEU	A	609	108.976	137.588	143.279	1.00	0.85	O
ATOM	4823	CB	LEU	A	609	110.132	136.893	146.275	1.00	0.85	C
ATOM	4824	CG	LEU	A	609	109.556	136.256	147.565	1.00	0.85	C
ATOM	4825	CD1	LEU	A	609	108.030	136.104	147.515	1.00	0.85	C
ATOM	4826	CD2	LEU	A	609	110.194	134.913	147.936	1.00	0.85	C
ATOM	4827	N	ILE	A	610	111.200	137.367	143.275	1.00	0.83	N
ATOM	4828	CA	ILE	A	610	111.413	138.207	142.100	1.00	0.83	C
ATOM	4829	C	ILE	A	610	110.784	137.610	140.840	1.00	0.83	C
ATOM	4830	O	ILE	A	610	110.133	138.298	140.053	1.00	0.83	O
ATOM	4831	CB	ILE	A	610	112.893	138.526	141.905	1.00	0.83	C
ATOM	4832	CG1	ILE	A	610	113.398	139.331	143.128	1.00	0.83	C
ATOM	4833	CG2	ILE	A	610	113.115	139.320	140.594	1.00	0.83	C
ATOM	4834	CD1	ILE	A	610	114.923	139.414	143.223	1.00	0.83	C
ATOM	4835	N	ASN	A	611	110.884	136.279	140.644	1.00	0.82	N
ATOM	4836	CA	ASN	A	611	110.364	135.620	139.455	1.00	0.82	C
ATOM	4837	C	ASN	A	611	108.884	135.240	139.590	1.00	0.82	C
ATOM	4838	O	ASN	A	611	108.298	134.630	138.691	1.00	0.82	O
ATOM	4839	CB	ASN	A	611	111.175	134.325	139.154	1.00	0.82	C
ATOM	4840	CG	ASN	A	611	112.658	134.608	138.926	1.00	0.82	C
ATOM	4841	OD1	ASN	A	611	113.542	134.040	139.566	1.00	0.82	O
ATOM	4842	ND2	ASN	A	611	112.972	135.498	137.960	1.00	0.82	N
ATOM	4843	N	LEU	A	612	108.221	135.645	140.694	1.00	0.85	N
ATOM	4844	CA	LEU	A	612	106.837	135.326	141.001	1.00	0.85	C
ATOM	4845	C	LEU	A	612	105.785	135.777	139.971	1.00	0.85	C
ATOM	4846	O	LEU	A	612	104.890	134.971	139.698	1.00	0.85	O
ATOM	4847	CB	LEU	A	612	106.472	135.796	142.433	1.00	0.85	C
ATOM	4848	CG	LEU	A	612	105.181	135.201	143.040	1.00	0.85	C
ATOM	4849	CD1	LEU	A	612	105.295	133.695	143.301	1.00	0.85	C
ATOM	4850	CD2	LEU	A	612	104.829	135.939	144.340	1.00	0.85	C
ATOM	4851	N	PRO	A	613	105.768	136.955	139.319	1.00	0.90	N
ATOM	4852	CA	PRO	A	613	104.728	137.286	138.341	1.00	0.90	C
ATOM	4853	C	PRO	A	613	104.800	136.414	137.109	1.00	0.90	C
ATOM	4854	O	PRO	A	613	103.771	136.017	136.567	1.00	0.90	O
ATOM	4855	CB	PRO	A	613	104.989	138.763	137.982	1.00	0.90	C
ATOM	4856	CG	PRO	A	613	105.740	139.322	139.195	1.00	0.90	C
ATOM	4857	CD	PRO	A	613	106.568	138.131	139.676	1.00	0.90	C
ATOM	4858	N	CYS	A	614	106.024	136.124	136.646	1.00	0.87	N
ATOM	4859	CA	CYS	A	614	106.288	135.395	135.423	1.00	0.87	C
ATOM	4860	C	CYS	A	614	105.988	133.911	135.545	1.00	0.87	C
ATOM	4861	O	CYS	A	614	105.466	133.295	134.620	1.00	0.87	O
ATOM	4862	CB	CYS	A	614	107.723	135.682	134.921	1.00	0.87	C
ATOM	4863	SG	CYS	A	614	107.984	137.488	134.770	1.00	0.87	S
ATOM	4864	N	THR	A	615	106.259	133.285	136.715	1.00	0.84	N

ATOM	4865	CA	THR	A	615	105.769	131.927	136.991	1.00	0.84	C
ATOM	4866	C	THR	A	615	104.243	131.861	137.086	1.00	0.84	C
ATOM	4867	O	THR	A	615	103.621	130.969	136.514	1.00	0.84	O
ATOM	4868	CB	THR	A	615	106.471	131.218	138.159	1.00	0.84	C
ATOM	4869	OG1	THR	A	615	106.117	129.845	138.234	1.00	0.84	O
ATOM	4870	CG2	THR	A	615	106.159	131.847	139.518	1.00	0.84	C
ATOM	4871	N	MET	A	616	103.580	132.848	137.738	1.00	0.85	N
ATOM	4872	CA	MET	A	616	102.124	132.931	137.801	1.00	0.85	C
ATOM	4873	C	MET	A	616	101.436	133.101	136.450	1.00	0.85	C
ATOM	4874	O	MET	A	616	100.448	132.433	136.160	1.00	0.85	O
ATOM	4875	CB	MET	A	616	101.671	134.055	138.767	1.00	0.85	C
ATOM	4876	CG	MET	A	616	101.831	133.696	140.260	1.00	0.85	C
ATOM	4877	SD	MET	A	616	100.586	132.507	140.859	1.00	0.85	S
ATOM	4878	CE	MET	A	616	101.630	131.026	140.941	1.00	0.85	C
ATOM	4879	N	LEU	A	617	101.954	133.962	135.549	1.00	0.88	N
ATOM	4880	CA	LEU	A	617	101.441	134.050	134.186	1.00	0.88	C
ATOM	4881	C	LEU	A	617	101.578	132.751	133.399	1.00	0.88	C
ATOM	4882	O	LEU	A	617	100.640	132.319	132.728	1.00	0.88	O
ATOM	4883	CB	LEU	A	617	102.149	135.175	133.392	1.00	0.88	C
ATOM	4884	CG	LEU	A	617	101.722	136.599	133.795	1.00	0.88	C
ATOM	4885	CD1	LEU	A	617	102.681	137.629	133.182	1.00	0.88	C
ATOM	4886	CD2	LEU	A	617	100.274	136.905	133.372	1.00	0.88	C
ATOM	4887	N	ASN	A	618	102.741	132.073	133.500	1.00	0.86	N
ATOM	4888	CA	ASN	A	618	102.962	130.778	132.878	1.00	0.86	C
ATOM	4889	C	ASN	A	618	102.043	129.682	133.416	1.00	0.86	C
ATOM	4890	O	ASN	A	618	101.479	128.914	132.640	1.00	0.86	O
ATOM	4891	CB	ASN	A	618	104.435	130.315	133.053	1.00	0.86	C
ATOM	4892	CG	ASN	A	618	105.374	131.120	132.161	1.00	0.86	C
ATOM	4893	OD1	ASN	A	618	104.978	131.979	131.375	1.00	0.86	O
ATOM	4894	ND2	ASN	A	618	106.690	130.807	132.242	1.00	0.86	N
ATOM	4895	N	SER	A	619	101.843	129.586	134.751	1.00	0.88	N
ATOM	4896	CA	SER	A	619	100.950	128.597	135.354	1.00	0.88	C
ATOM	4897	C	SER	A	619	99.487	128.795	134.986	1.00	0.88	C
ATOM	4898	O	SER	A	619	98.799	127.837	134.634	1.00	0.88	O
ATOM	4899	CB	SER	A	619	101.111	128.455	136.898	1.00	0.88	C
ATOM	4900	OG	SER	A	619	100.649	129.597	137.620	1.00	0.88	O
ATOM	4901	N	ILE	A	620	98.987	130.052	134.995	1.00	0.87	N
ATOM	4902	CA	ILE	A	620	97.644	130.395	134.534	1.00	0.87	C
ATOM	4903	C	ILE	A	620	97.442	130.073	133.062	1.00	0.87	C
ATOM	4904	O	ILE	A	620	96.454	129.444	132.688	1.00	0.87	O
ATOM	4905	CB	ILE	A	620	97.322	131.874	134.787	1.00	0.87	C
ATOM	4906	CG1	ILE	A	620	97.214	132.124	136.309	1.00	0.87	C
ATOM	4907	CG2	ILE	A	620	96.021	132.323	134.068	1.00	0.87	C
ATOM	4908	CD1	ILE	A	620	97.158	133.610	136.680	1.00	0.87	C
ATOM	4909	N	ALA	A	621	98.388	130.459	132.180	1.00	0.90	N
ATOM	4910	CA	ALA	A	621	98.288	130.183	130.760	1.00	0.90	C
ATOM	4911	C	ALA	A	621	98.335	128.698	130.411	1.00	0.90	C
ATOM	4912	O	ALA	A	621	97.515	128.209	129.634	1.00	0.90	O
ATOM	4913	CB	ALA	A	621	99.403	130.941	130.011	1.00	0.90	C
ATOM	4914	N	PHE	A	622	99.271	127.939	131.021	1.00	0.87	N
ATOM	4915	CA	PHE	A	622	99.400	126.506	130.833	1.00	0.87	C
ATOM	4916	C	PHE	A	622	98.178	125.729	131.318	1.00	0.87	C
ATOM	4917	O	PHE	A	622	97.602	124.937	130.577	1.00	0.87	O
ATOM	4918	CB	PHE	A	622	100.692	126.032	131.569	1.00	0.87	C
ATOM	4919	CG	PHE	A	622	100.877	124.537	131.558	1.00	0.87	C
ATOM	4920	CD1	PHE	A	622	101.025	123.851	130.345	1.00	0.87	C
ATOM	4921	CD2	PHE	A	622	100.812	123.802	132.756	1.00	0.87	C
ATOM	4922	CE1	PHE	A	622	101.114	122.456	130.323	1.00	0.87	C
ATOM	4923	CE2	PHE	A	622	100.895	122.404	132.737	1.00	0.87	C
ATOM	4924	CZ	PHE	A	622	101.057	121.735	131.518	1.00	0.87	C
ATOM	4925	N	TRP	A	623	97.705	125.970	132.558	1.00	0.86	N
ATOM	4926	CA	TRP	A	623	96.544	125.267	133.077	1.00	0.86	C
ATOM	4927	C	TRP	A	623	95.251	125.649	132.363	1.00	0.86	C
ATOM	4928	O	TRP	A	623	94.376	124.810	132.164	1.00	0.86	O
ATOM	4929	CB	TRP	A	623	96.432	125.368	134.624	1.00	0.86	C

ATOM	4930	CG	TRP	A	623	97.483	124.543	135.370	1.00	0.86	C
ATOM	4931	CD1	TRP	A	623	98.514	124.963	136.169	1.00	0.86	C
ATOM	4932	CD2	TRP	A	623	97.554	123.103	135.347	1.00	0.86	C
ATOM	4933	NE1	TRP	A	623	99.232	123.878	136.635	1.00	0.86	N
ATOM	4934	CE2	TRP	A	623	98.666	122.727	136.136	1.00	0.86	C
ATOM	4935	CE3	TRP	A	623	96.765	122.139	134.721	1.00	0.86	C
ATOM	4936	CZ2	TRP	A	623	99.007	121.390	136.300	1.00	0.86	C
ATOM	4937	CZ3	TRP	A	623	97.100	120.789	134.902	1.00	0.86	C
ATOM	4938	CH2	TRP	A	623	98.206	120.418	135.681	1.00	0.86	C
ATOM	4939	N	ARG	A	624	95.097	126.913	131.911	1.00	0.81	N
ATOM	4940	CA	ARG	A	624	93.980	127.306	131.063	1.00	0.81	C
ATOM	4941	C	ARG	A	624	93.962	126.628	129.688	1.00	0.81	C
ATOM	4942	O	ARG	A	624	92.903	126.197	129.232	1.00	0.81	O
ATOM	4943	CB	ARG	A	624	93.844	128.854	131.002	1.00	0.81	C
ATOM	4944	CG	ARG	A	624	92.417	129.353	130.678	1.00	0.81	C
ATOM	4945	CD	ARG	A	624	92.087	130.777	131.176	1.00	0.81	C
ATOM	4946	NE	ARG	A	624	92.573	131.812	130.192	1.00	0.81	N
ATOM	4947	CZ	ARG	A	624	91.899	132.223	129.104	1.00	0.81	C
ATOM	4948	NH1	ARG	A	624	90.711	131.723	128.778	1.00	0.81	N
ATOM	4949	NH2	ARG	A	624	92.427	133.163	128.321	1.00	0.81	N
ATOM	4950	N	GLU	A	625	95.130	126.454	129.016	1.00	0.84	N
ATOM	4951	CA	GLU	A	625	95.229	125.645	127.801	1.00	0.84	C
ATOM	4952	C	GLU	A	625	94.885	124.178	128.042	1.00	0.84	C
ATOM	4953	O	GLU	A	625	94.082	123.570	127.332	1.00	0.84	O
ATOM	4954	CB	GLU	A	625	96.664	125.697	127.191	1.00	0.84	C
ATOM	4955	CG	GLU	A	625	96.751	125.077	125.762	1.00	0.84	C
ATOM	4956	CD	GLU	A	625	97.777	123.956	125.534	1.00	0.84	C
ATOM	4957	OE1	GLU	A	625	97.842	122.983	126.328	1.00	0.84	O
ATOM	4958	OE2	GLU	A	625	98.473	124.042	124.482	1.00	0.84	O
ATOM	4959	N	LYS	A	626	95.449	123.594	129.119	1.00	0.84	N
ATOM	4960	CA	LYS	A	626	95.440	122.163	129.345	1.00	0.84	C
ATOM	4961	C	LYS	A	626	94.092	121.585	129.761	1.00	0.84	C
ATOM	4962	O	LYS	A	626	93.831	120.397	129.589	1.00	0.84	O
ATOM	4963	CB	LYS	A	626	96.544	121.780	130.371	1.00	0.84	C
ATOM	4964	CG	LYS	A	626	97.173	120.408	130.087	1.00	0.84	C
ATOM	4965	CD	LYS	A	626	98.060	120.423	128.826	1.00	0.84	C
ATOM	4966	CE	LYS	A	626	98.192	119.040	128.192	1.00	0.84	C
ATOM	4967	NZ	LYS	A	626	98.668	119.150	126.801	1.00	0.84	N
ATOM	4968	N	MET	A	627	93.174	122.443	130.251	1.00	0.83	N
ATOM	4969	CA	MET	A	627	91.804	122.071	130.571	1.00	0.83	C
ATOM	4970	C	MET	A	627	90.875	122.266	129.370	1.00	0.83	C
ATOM	4971	O	MET	A	627	89.660	122.108	129.474	1.00	0.83	O
ATOM	4972	CB	MET	A	627	91.245	122.943	131.732	1.00	0.83	C
ATOM	4973	CG	MET	A	627	91.952	122.770	133.093	1.00	0.83	C
ATOM	4974	SD	MET	A	627	91.651	121.182	133.915	1.00	0.83	S
ATOM	4975	CE	MET	A	627	93.308	120.524	133.594	1.00	0.83	C
ATOM	4976	N	GLY	A	628	91.412	122.614	128.178	1.00	0.87	N
ATOM	4977	CA	GLY	A	628	90.614	122.743	126.961	1.00	0.87	C
ATOM	4978	C	GLY	A	628	89.819	124.019	126.875	1.00	0.87	C
ATOM	4979	O	GLY	A	628	88.682	124.042	126.406	1.00	0.87	O
ATOM	4980	N	VAL	A	629	90.395	125.146	127.325	1.00	0.85	N
ATOM	4981	CA	VAL	A	629	89.730	126.435	127.259	1.00	0.85	C
ATOM	4982	C	VAL	A	629	90.379	127.262	126.168	1.00	0.85	C
ATOM	4983	O	VAL	A	629	91.587	127.483	126.163	1.00	0.85	O
ATOM	4984	CB	VAL	A	629	89.773	127.201	128.579	1.00	0.85	C
ATOM	4985	CG1	VAL	A	629	88.842	128.430	128.503	1.00	0.85	C
ATOM	4986	CG2	VAL	A	629	89.344	126.265	129.727	1.00	0.85	C
ATOM	4987	N	ALA	A	630	89.586	127.743	125.184	1.00	0.83	N
ATOM	4988	CA	ALA	A	630	90.088	128.535	124.080	1.00	0.83	C
ATOM	4989	C	ALA	A	630	90.784	129.836	124.526	1.00	0.83	C
ATOM	4990	O	ALA	A	630	90.171	130.607	125.272	1.00	0.83	O
ATOM	4991	CB	ALA	A	630	88.933	128.894	123.129	1.00	0.83	C
ATOM	4992	N	PRO	A	631	92.017	130.160	124.114	1.00	0.84	N
ATOM	4993	CA	PRO	A	631	92.762	131.281	124.684	1.00	0.84	C
ATOM	4994	C	PRO	A	631	92.121	132.627	124.441	1.00	0.84	C



ATOM	4995	O	PRO	A	631	92.222	133.512	125.291	1.00	0.84	O
ATOM	4996	CB	PRO	A	631	94.142	131.176	124.018	1.00	0.84	C
ATOM	4997	CG	PRO	A	631	94.330	129.667	123.875	1.00	0.84	C
ATOM	4998	CD	PRO	A	631	92.929	129.188	123.505	1.00	0.84	C
ATOM	4999	N	TRP	A	632	91.460	132.803	123.288	1.00	0.79	N
ATOM	5000	CA	TRP	A	632	90.847	134.048	122.881	1.00	0.79	C
ATOM	5001	C	TRP	A	632	89.473	134.270	123.509	1.00	0.79	C
ATOM	5002	O	TRP	A	632	88.973	135.391	123.534	1.00	0.79	O
ATOM	5003	CB	TRP	A	632	90.814	134.139	121.327	1.00	0.79	C
ATOM	5004	CG	TRP	A	632	90.244	132.936	120.580	1.00	0.79	C
ATOM	5005	CD1	TRP	A	632	88.972	132.739	120.117	1.00	0.79	C
ATOM	5006	CD2	TRP	A	632	91.006	131.781	120.174	1.00	0.79	C
ATOM	5007	NE1	TRP	A	632	88.880	131.519	119.479	1.00	0.79	N
ATOM	5008	CE2	TRP	A	632	90.116	130.918	119.493	1.00	0.79	C
ATOM	5009	CE3	TRP	A	632	92.350	131.443	120.333	1.00	0.79	C
ATOM	5010	CZ2	TRP	A	632	90.554	129.710	118.968	1.00	0.79	C
ATOM	5011	CZ3	TRP	A	632	92.788	130.218	119.806	1.00	0.79	C
ATOM	5012	CH2	TRP	A	632	91.904	129.364	119.129	1.00	0.79	C
ATOM	5013	N	ILE	A	633	88.857	133.227	124.102	1.00	0.76	N
ATOM	5014	CA	ILE	A	633	87.522	133.302	124.679	1.00	0.76	C
ATOM	5015	C	ILE	A	633	87.641	133.555	126.179	1.00	0.76	C
ATOM	5016	O	ILE	A	633	88.558	133.087	126.862	1.00	0.76	O
ATOM	5017	CB	ILE	A	633	86.669	132.073	124.323	1.00	0.76	C
ATOM	5018	CG1	ILE	A	633	86.553	131.975	122.776	1.00	0.76	C
ATOM	5019	CG2	ILE	A	633	85.264	132.144	124.970	1.00	0.76	C
ATOM	5020	CD1	ILE	A	633	85.771	130.766	122.240	1.00	0.76	C
ATOM	5021	N	SER	A	634	86.722	134.376	126.729	1.00	0.75	N
ATOM	5022	CA	SER	A	634	86.626	134.635	128.156	1.00	0.75	C
ATOM	5023	C	SER	A	634	85.536	133.764	128.742	1.00	0.75	C
ATOM	5024	O	SER	A	634	84.486	133.577	128.135	1.00	0.75	O
ATOM	5025	CB	SER	A	634	86.320	136.117	128.486	1.00	0.75	C
ATOM	5026	OG	SER	A	634	86.774	136.434	129.803	1.00	0.75	O
ATOM	5027	N	ARG	A	635	85.777	133.178	129.924	1.00	0.60	N
ATOM	5028	CA	ARG	A	635	84.890	132.222	130.547	1.00	0.60	C
ATOM	5029	C	ARG	A	635	85.168	132.284	132.033	1.00	0.60	C
ATOM	5030	O	ARG	A	635	86.226	132.735	132.463	1.00	0.60	O
ATOM	5031	CB	ARG	A	635	85.156	130.763	130.059	1.00	0.60	C
ATOM	5032	CG	ARG	A	635	84.297	130.322	128.851	1.00	0.60	C
ATOM	5033	CD	ARG	A	635	84.748	129.028	128.153	1.00	0.60	C
ATOM	5034	NE	ARG	A	635	84.819	127.944	129.189	1.00	0.60	N
ATOM	5035	CZ	ARG	A	635	85.308	126.714	128.974	1.00	0.60	C
ATOM	5036	NH1	ARG	A	635	85.600	126.279	127.752	1.00	0.60	N
ATOM	5037	NH2	ARG	A	635	85.514	125.900	130.008	1.00	0.60	N
ATOM	5038	N	LYS	A	636	84.210	131.822	132.859	1.00	0.64	N
ATOM	5039	CA	LYS	A	636	84.405	131.628	134.283	1.00	0.64	C
ATOM	5040	C	LYS	A	636	85.467	130.590	134.625	1.00	0.64	C
ATOM	5041	O	LYS	A	636	85.663	129.603	133.915	1.00	0.64	O
ATOM	5042	CB	LYS	A	636	83.083	131.200	134.979	1.00	0.64	C
ATOM	5043	CG	LYS	A	636	81.955	132.248	134.917	1.00	0.64	C
ATOM	5044	CD	LYS	A	636	82.239	133.562	135.677	1.00	0.64	C
ATOM	5045	CE	LYS	A	636	82.516	133.432	137.182	1.00	0.64	C
ATOM	5046	NZ	LYS	A	636	81.372	132.778	137.855	1.00	0.64	N
ATOM	5047	N	ALA	A	637	86.158	130.780	135.772	1.00	0.77	N
ATOM	5048	CA	ALA	A	637	86.998	129.764	136.372	1.00	0.77	C
ATOM	5049	C	ALA	A	637	86.226	128.470	136.655	1.00	0.77	C
ATOM	5050	O	ALA	A	637	85.219	128.470	137.361	1.00	0.77	O
ATOM	5051	CB	ALA	A	637	87.632	130.294	137.677	1.00	0.77	C
ATOM	5052	N	CYS	A	638	86.708	127.343	136.085	1.00	0.65	N
ATOM	5053	CA	CYS	A	638	85.989	126.083	135.925	1.00	0.65	C
ATOM	5054	C	CYS	A	638	85.497	125.452	137.215	1.00	0.65	C
ATOM	5055	O	CYS	A	638	84.447	124.821	137.241	1.00	0.65	O
ATOM	5056	CB	CYS	A	638	86.914	125.070	135.180	1.00	0.65	C
ATOM	5057	SG	CYS	A	638	86.079	123.570	134.550	1.00	0.65	S
ATOM	5058	N	SER	A	639	86.291	125.608	138.294	1.00	0.63	N
ATOM	5059	CA	SER	A	639	86.132	124.983	139.605	1.00	0.63	C

ATOM	5060	C	SER	A	639	86.797	123.635	139.685	1.00	0.63	C
ATOM	5061	O	SER	A	639	86.547	122.874	140.608	1.00	0.63	O
ATOM	5062	CB	SER	A	639	84.694	124.946	140.217	1.00	0.63	C
ATOM	5063	OG	SER	A	639	83.830	123.945	139.662	1.00	0.63	O
ATOM	5064	N	GLU	A	640	87.695	123.356	138.721	1.00	0.65	N
ATOM	5065	CA	GLU	A	640	88.757	122.368	138.819	1.00	0.65	C
ATOM	5066	C	GLU	A	640	90.120	123.044	138.611	1.00	0.65	C
ATOM	5067	O	GLU	A	640	91.194	122.516	138.891	1.00	0.65	O
ATOM	5068	CB	GLU	A	640	88.508	121.294	137.734	1.00	0.65	C
ATOM	5069	CG	GLU	A	640	89.461	120.077	137.795	1.00	0.65	C
ATOM	5070	CD	GLU	A	640	88.992	118.952	136.878	1.00	0.65	C
ATOM	5071	OE1	GLU	A	640	88.660	119.248	135.705	1.00	0.65	O
ATOM	5072	OE2	GLU	A	640	88.940	117.791	137.363	1.00	0.65	O
ATOM	5073	N	LEU	A	641	90.104	124.306	138.126	1.00	0.77	N
ATOM	5074	CA	LEU	A	641	91.304	125.025	137.733	1.00	0.77	C
ATOM	5075	C	LEU	A	641	91.841	125.896	138.861	1.00	0.77	C
ATOM	5076	O	LEU	A	641	93.030	126.208	138.924	1.00	0.77	O
ATOM	5077	CB	LEU	A	641	90.953	125.876	136.477	1.00	0.77	C
ATOM	5078	CG	LEU	A	641	92.135	126.545	135.738	1.00	0.77	C
ATOM	5079	CD1	LEU	A	641	91.841	126.659	134.236	1.00	0.77	C
ATOM	5080	CD2	LEU	A	641	92.463	127.955	136.244	1.00	0.77	C
ATOM	5081	N	ARG	A	642	90.978	126.270	139.833	1.00	0.74	N
ATOM	5082	CA	ARG	A	642	91.353	127.106	140.964	1.00	0.74	C
ATOM	5083	C	ARG	A	642	92.342	126.412	141.868	1.00	0.74	C
ATOM	5084	O	ARG	A	642	93.334	127.004	142.290	1.00	0.74	O
ATOM	5085	CB	ARG	A	642	90.115	127.527	141.796	1.00	0.74	C
ATOM	5086	CG	ARG	A	642	89.699	128.991	141.558	1.00	0.74	C
ATOM	5087	CD	ARG	A	642	88.614	129.505	142.518	1.00	0.74	C
ATOM	5088	NE	ARG	A	642	87.256	129.252	141.917	1.00	0.74	N
ATOM	5089	CZ	ARG	A	642	86.506	128.163	142.135	1.00	0.74	C
ATOM	5090	NH1	ARG	A	642	86.970	127.088	142.754	1.00	0.74	N
ATOM	5091	NH2	ARG	A	642	85.239	128.151	141.723	1.00	0.74	N
ATOM	5092	N	GLU	A	643	92.109	125.115	142.129	1.00	0.78	N
ATOM	5093	CA	GLU	A	643	92.974	124.263	142.906	1.00	0.78	C
ATOM	5094	C	GLU	A	643	94.395	124.208	142.361	1.00	0.78	C
ATOM	5095	O	GLU	A	643	95.360	124.424	143.086	1.00	0.78	O
ATOM	5096	CB	GLU	A	643	92.383	122.835	142.925	1.00	0.78	C
ATOM	5097	CG	GLU	A	643	90.946	122.770	143.490	1.00	0.78	C
ATOM	5098	CD	GLU	A	643	89.880	122.817	142.399	1.00	0.78	C
ATOM	5099	OE1	GLU	A	643	89.253	121.744	142.230	1.00	0.78	O
ATOM	5100	OE2	GLU	A	643	89.679	123.870	141.733	1.00	0.78	O
ATOM	5101	N	GLN	A	644	94.559	124.003	141.040	1.00	0.81	N
ATOM	5102	CA	GLN	A	644	95.853	123.941	140.382	1.00	0.81	C
ATOM	5103	C	GLN	A	644	96.669	125.231	140.473	1.00	0.81	C
ATOM	5104	O	GLN	A	644	97.870	125.218	140.761	1.00	0.81	O
ATOM	5105	CB	GLN	A	644	95.653	123.561	138.890	1.00	0.81	C
ATOM	5106	CG	GLN	A	644	94.983	122.176	138.661	1.00	0.81	C
ATOM	5107	CD	GLN	A	644	95.771	120.990	139.233	1.00	0.81	C
ATOM	5108	OE1	GLN	A	644	95.213	120.012	139.735	1.00	0.81	O
ATOM	5109	NE2	GLN	A	644	97.115	121.067	139.123	1.00	0.81	N
ATOM	5110	N	VAL	A	645	96.025	126.398	140.260	1.00	0.87	N
ATOM	5111	CA	VAL	A	645	96.665	127.699	140.415	1.00	0.87	C
ATOM	5112	C	VAL	A	645	97.000	128.009	141.873	1.00	0.87	C
ATOM	5113	O	VAL	A	645	98.112	128.426	142.197	1.00	0.87	O
ATOM	5114	CB	VAL	A	645	95.831	128.821	139.800	1.00	0.87	C
ATOM	5115	CG1	VAL	A	645	96.543	130.182	139.958	1.00	0.87	C
ATOM	5116	CG2	VAL	A	645	95.633	128.520	138.300	1.00	0.87	C
ATOM	5117	N	ALA	A	646	96.057	127.761	142.806	1.00	0.88	N
ATOM	5118	CA	ALA	A	646	96.230	127.986	144.228	1.00	0.88	C
ATOM	5119	C	ALA	A	646	97.299	127.104	144.881	1.00	0.88	C
ATOM	5120	O	ALA	A	646	98.100	127.581	145.685	1.00	0.88	O
ATOM	5121	CB	ALA	A	646	94.871	127.842	144.937	1.00	0.88	C
ATOM	5122	N	ILE	A	647	97.384	125.803	144.515	1.00	0.85	N
ATOM	5123	CA	ILE	A	647	98.464	124.905	144.931	1.00	0.85	C
ATOM	5124	C	ILE	A	647	99.818	125.398	144.434	1.00	0.85	C

ATOM	5125	O	ILE	A	647	100.781	125.480	145.197	1.00	0.85	O
ATOM	5126	CB	ILE	A	647	98.207	123.461	144.475	1.00	0.85	C
ATOM	5127	CG1	ILE	A	647	97.012	122.865	145.257	1.00	0.85	C
ATOM	5128	CG2	ILE	A	647	99.452	122.563	144.663	1.00	0.85	C
ATOM	5129	CD1	ILE	A	647	96.453	121.582	144.628	1.00	0.85	C
ATOM	5130	N	THR	A	648	99.905	125.828	143.153	1.00	0.85	N
ATOM	5131	CA	THR	A	648	101.118	126.426	142.576	1.00	0.85	C
ATOM	5132	C	THR	A	648	101.547	127.686	143.317	1.00	0.85	C
ATOM	5133	O	THR	A	648	102.718	127.874	143.639	1.00	0.85	O
ATOM	5134	CB	THR	A	648	100.984	126.785	141.095	1.00	0.85	C
ATOM	5135	OG1	THR	A	648	100.608	125.646	140.326	1.00	0.85	O
ATOM	5136	CG2	THR	A	648	102.329	127.278	140.527	1.00	0.85	C
ATOM	5137	N	PHE	A	649	100.589	128.574	143.656	1.00	0.86	N
ATOM	5138	CA	PHE	A	649	100.817	129.777	144.443	1.00	0.86	C
ATOM	5139	C	PHE	A	649	101.360	129.496	145.849	1.00	0.86	C
ATOM	5140	O	PHE	A	649	102.356	130.087	146.267	1.00	0.86	O
ATOM	5141	CB	PHE	A	649	99.476	130.569	144.503	1.00	0.86	C
ATOM	5142	CG	PHE	A	649	99.550	131.861	145.280	1.00	0.86	C
ATOM	5143	CD1	PHE	A	649	100.250	132.967	144.773	1.00	0.86	C
ATOM	5144	CD2	PHE	A	649	98.908	131.974	146.526	1.00	0.86	C
ATOM	5145	CE1	PHE	A	649	100.289	134.173	145.485	1.00	0.86	C
ATOM	5146	CE2	PHE	A	649	98.950	133.175	147.245	1.00	0.86	C
ATOM	5147	CZ	PHE	A	649	99.632	134.279	146.718	1.00	0.86	C
ATOM	5148	N	LEU	A	650	100.755	128.547	146.599	1.00	0.86	N
ATOM	5149	CA	LEU	A	650	101.229	128.175	147.926	1.00	0.86	C
ATOM	5150	C	LEU	A	650	102.608	127.545	147.941	1.00	0.86	C
ATOM	5151	O	LEU	A	650	103.452	127.908	148.756	1.00	0.86	O
ATOM	5152	CB	LEU	A	650	100.266	127.187	148.631	1.00	0.86	C
ATOM	5153	CG	LEU	A	650	98.917	127.794	149.060	1.00	0.86	C
ATOM	5154	CD1	LEU	A	650	98.028	126.698	149.663	1.00	0.86	C
ATOM	5155	CD2	LEU	A	650	99.076	128.948	150.066	1.00	0.86	C
ATOM	5156	N	MET	A	651	102.879	126.599	147.022	1.00	0.83	N
ATOM	5157	CA	MET	A	651	104.176	125.956	146.901	1.00	0.83	C
ATOM	5158	C	MET	A	651	105.286	126.893	146.451	1.00	0.83	C
ATOM	5159	O	MET	A	651	106.423	126.778	146.892	1.00	0.83	O
ATOM	5160	CB	MET	A	651	104.097	124.736	145.960	1.00	0.83	C
ATOM	5161	CG	MET	A	651	103.216	123.609	146.533	1.00	0.83	C
ATOM	5162	SD	MET	A	651	102.946	122.230	145.383	1.00	0.83	S
ATOM	5163	CE	MET	A	651	104.666	121.666	145.320	1.00	0.83	C
ATOM	5164	N	SER	A	652	104.979	127.859	145.559	1.00	0.85	N
ATOM	5165	CA	SER	A	652	105.916	128.912	145.169	1.00	0.85	C
ATOM	5166	C	SER	A	652	106.302	129.835	146.326	1.00	0.85	C
ATOM	5167	O	SER	A	652	107.470	130.166	146.522	1.00	0.85	O
ATOM	5168	CB	SER	A	652	105.328	129.767	144.011	1.00	0.85	C
ATOM	5169	OG	SER	A	652	106.305	130.628	143.423	1.00	0.85	O
ATOM	5170	N	LEU	A	653	105.321	130.270	147.148	1.00	0.86	N
ATOM	5171	CA	LEU	A	653	105.592	131.078	148.329	1.00	0.86	C
ATOM	5172	C	LEU	A	653	106.224	130.345	149.519	1.00	0.86	C
ATOM	5173	O	LEU	A	653	107.114	130.888	150.176	1.00	0.86	O
ATOM	5174	CB	LEU	A	653	104.335	131.864	148.783	1.00	0.86	C
ATOM	5175	CG	LEU	A	653	103.916	133.012	147.834	1.00	0.86	C
ATOM	5176	CD1	LEU	A	653	102.656	133.703	148.365	1.00	0.86	C
ATOM	5177	CD2	LEU	A	653	105.015	134.073	147.647	1.00	0.86	C
ATOM	5178	N	GLU	A	654	105.809	129.102	149.857	1.00	0.82	N
ATOM	5179	CA	GLU	A	654	106.405	128.340	150.954	1.00	0.82	C
ATOM	5180	C	GLU	A	654	107.676	127.605	150.534	1.00	0.82	C
ATOM	5181	O	GLU	A	654	107.787	126.388	150.624	1.00	0.82	O
ATOM	5182	CB	GLU	A	654	105.377	127.378	151.618	1.00	0.82	C
ATOM	5183	CG	GLU	A	654	105.563	127.173	153.154	1.00	0.82	C
ATOM	5184	CD	GLU	A	654	106.212	125.871	153.662	1.00	0.82	C
ATOM	5185	OE1	GLU	A	654	107.040	125.980	154.613	1.00	0.82	O
ATOM	5186	OE2	GLU	A	654	105.782	124.761	153.253	1.00	0.82	O
ATOM	5187	N	ASP	A	655	108.695	128.345	150.043	1.00	0.78	N
ATOM	5188	CA	ASP	A	655	109.934	127.763	149.562	1.00	0.78	C
ATOM	5189	C	ASP	A	655	110.761	127.051	150.649	1.00	0.78	C

ATOM	5190	O	ASP	A	655	111.449	127.655	151.490	1.00	0.78	O
ATOM	5191	CB	ASP	A	655	110.770	128.806	148.774	1.00	0.78	C
ATOM	5192	CG	ASP	A	655	112.016	128.142	148.210	1.00	0.78	C
ATOM	5193	OD1	ASP	A	655	111.912	127.400	147.201	1.00	0.78	O
ATOM	5194	OD2	ASP	A	655	113.086	128.281	148.853	1.00	0.78	O
ATOM	5195	N	LYS	A	656	110.724	125.710	150.599	1.00	0.66	N
ATOM	5196	CA	LYS	A	656	111.501	124.818	151.413	1.00	0.66	C
ATOM	5197	C	LYS	A	656	111.639	123.511	150.678	1.00	0.66	C
ATOM	5198	O	LYS	A	656	110.809	123.153	149.853	1.00	0.66	O
ATOM	5199	CB	LYS	A	656	110.823	124.487	152.774	1.00	0.66	C
ATOM	5200	CG	LYS	A	656	110.760	125.674	153.735	1.00	0.66	C
ATOM	5201	CD	LYS	A	656	110.291	125.284	155.145	1.00	0.66	C
ATOM	5202	CE	LYS	A	656	110.084	126.487	156.062	1.00	0.66	C
ATOM	5203	NZ	LYS	A	656	111.304	127.310	155.985	1.00	0.66	N
ATOM	5204	N	SER	A	657	112.685	122.739	151.020	1.00	0.69	N
ATOM	5205	CA	SER	A	657	112.696	121.301	150.800	1.00	0.69	C
ATOM	5206	C	SER	A	657	111.765	120.648	151.813	1.00	0.69	C
ATOM	5207	O	SER	A	657	111.572	121.186	152.905	1.00	0.69	O
ATOM	5208	CB	SER	A	657	114.124	120.710	150.945	1.00	0.69	C
ATOM	5209	OG	SER	A	657	114.200	119.298	150.707	1.00	0.69	O
ATOM	5210	N	THR	A	658	111.152	119.498	151.465	1.00	0.74	N
ATOM	5211	CA	THR	A	658	110.343	118.647	152.365	1.00	0.74	C
ATOM	5212	C	THR	A	658	108.895	119.123	152.380	1.00	0.74	C
ATOM	5213	O	THR	A	658	108.043	118.662	153.134	1.00	0.74	O
ATOM	5214	CB	THR	A	658	110.903	118.463	153.792	1.00	0.74	C
ATOM	5215	OG1	THR	A	658	112.282	118.121	153.727	1.00	0.74	O
ATOM	5216	CG2	THR	A	658	110.249	117.328	154.597	1.00	0.74	C
ATOM	5217	N	THR	A	659	108.545	120.047	151.469	1.00	0.84	N
ATOM	5218	CA	THR	A	659	107.169	120.515	151.297	1.00	0.84	C
ATOM	5219	C	THR	A	659	106.779	120.296	149.850	1.00	0.84	C
ATOM	5220	O	THR	A	659	105.707	119.778	149.546	1.00	0.84	O
ATOM	5221	CB	THR	A	659	106.981	121.961	151.794	1.00	0.84	C
ATOM	5222	OG1	THR	A	659	105.626	122.357	151.926	1.00	0.84	O
ATOM	5223	CG2	THR	A	659	107.672	123.016	150.935	1.00	0.84	C
ATOM	5224	N	GLU	A	660	107.703	120.541	148.893	1.00	0.74	N
ATOM	5225	CA	GLU	A	660	107.505	120.194	147.502	1.00	0.74	C
ATOM	5226	C	GLU	A	660	107.919	118.757	147.202	1.00	0.74	C
ATOM	5227	O	GLU	A	660	107.422	118.157	146.248	1.00	0.74	O
ATOM	5228	CB	GLU	A	660	108.240	121.203	146.576	1.00	0.74	C
ATOM	5229	CG	GLU	A	660	109.660	121.647	147.025	1.00	0.74	C
ATOM	5230	CD	GLU	A	660	110.613	120.503	147.345	1.00	0.74	C
ATOM	5231	OE1	GLU	A	660	111.265	119.987	146.405	1.00	0.74	O
ATOM	5232	OE2	GLU	A	660	110.638	120.092	148.544	1.00	0.74	O
ATOM	5233	N	GLU	A	661	108.767	118.153	148.068	1.00	0.73	N
ATOM	5234	CA	GLU	A	661	109.288	116.796	147.972	1.00	0.73	C
ATOM	5235	C	GLU	A	661	108.168	115.778	147.878	1.00	0.73	C
ATOM	5236	O	GLU	A	661	108.130	114.949	146.976	1.00	0.73	O
ATOM	5237	CB	GLU	A	661	110.260	116.480	149.140	1.00	0.73	C
ATOM	5238	CG	GLU	A	661	111.278	115.332	148.858	1.00	0.73	C
ATOM	5239	CD	GLU	A	661	110.771	113.891	148.986	1.00	0.73	C
ATOM	5240	OE1	GLU	A	661	111.508	112.986	148.501	1.00	0.73	O
ATOM	5241	OE2	GLU	A	661	109.682	113.676	149.573	1.00	0.73	O
ATOM	5242	N	LEU	A	662	107.125	115.945	148.716	1.00	0.80	N
ATOM	5243	CA	LEU	A	662	105.916	115.143	148.709	1.00	0.80	C
ATOM	5244	C	LEU	A	662	105.188	115.137	147.363	1.00	0.80	C
ATOM	5245	O	LEU	A	662	104.679	114.114	146.908	1.00	0.80	O
ATOM	5246	CB	LEU	A	662	104.939	115.684	149.791	1.00	0.80	C
ATOM	5247	CG	LEU	A	662	105.477	115.630	151.237	1.00	0.80	C
ATOM	5248	CD1	LEU	A	662	104.494	116.295	152.214	1.00	0.80	C
ATOM	5249	CD2	LEU	A	662	105.761	114.191	151.681	1.00	0.80	C
ATOM	5250	N	VAL	A	663	105.130	116.297	146.681	1.00	0.81	N
ATOM	5251	CA	VAL	A	663	104.553	116.444	145.353	1.00	0.81	C
ATOM	5252	C	VAL	A	663	105.387	115.806	144.246	1.00	0.81	C
ATOM	5253	O	VAL	A	663	104.857	115.103	143.393	1.00	0.81	O
ATOM	5254	CB	VAL	A	663	104.265	117.909	145.042	1.00	0.81	C

ATOM	5255	CG1	VAL	A	663	103.627	118.068	143.645	1.00	0.81	C
ATOM	5256	CG2	VAL	A	663	103.308	118.439	146.128	1.00	0.81	C
ATOM	5257	N	THR	A	664	106.724	115.987	144.229	1.00	0.75	N
ATOM	5258	CA	THR	A	664	107.594	115.293	143.263	1.00	0.75	C
ATOM	5259	C	THR	A	664	107.643	113.784	143.518	1.00	0.75	C
ATOM	5260	O	THR	A	664	107.614	112.962	142.602	1.00	0.75	O
ATOM	5261	CB	THR	A	664	108.979	115.943	143.112	1.00	0.75	C
ATOM	5262	OG1	THR	A	664	109.796	115.334	142.123	1.00	0.75	O
ATOM	5263	CG2	THR	A	664	109.776	115.945	144.415	1.00	0.75	C
ATOM	5264	N	LEU	A	665	107.634	113.356	144.798	1.00	0.76	N
ATOM	5265	CA	LEU	A	665	107.648	111.961	145.188	1.00	0.76	C
ATOM	5266	C	LEU	A	665	106.325	111.236	144.930	1.00	0.76	C
ATOM	5267	O	LEU	A	665	106.294	110.014	144.771	1.00	0.76	O
ATOM	5268	CB	LEU	A	665	108.054	111.832	146.676	1.00	0.76	C
ATOM	5269	CG	LEU	A	665	108.478	110.425	147.151	1.00	0.76	C
ATOM	5270	CD1	LEU	A	665	109.688	109.903	146.365	1.00	0.76	C
ATOM	5271	CD2	LEU	A	665	108.849	110.484	148.636	1.00	0.76	C
ATOM	5272	N	THR	A	666	105.188	111.970	144.798	1.00	0.81	N
ATOM	5273	CA	THR	A	666	103.866	111.381	144.525	1.00	0.81	C
ATOM	5274	C	THR	A	666	103.796	110.673	143.185	1.00	0.81	C
ATOM	5275	O	THR	A	666	103.046	109.715	143.007	1.00	0.81	O
ATOM	5276	CB	THR	A	666	102.660	112.322	144.697	1.00	0.81	C
ATOM	5277	OG1	THR	A	666	101.468	111.601	145.020	1.00	0.81	O
ATOM	5278	CG2	THR	A	666	102.313	113.121	143.437	1.00	0.81	C
ATOM	5279	N	ARG	A	667	104.680	111.050	142.231	1.00	0.75	N
ATOM	5280	CA	ARG	A	667	104.897	110.341	140.978	1.00	0.75	C
ATOM	5281	C	ARG	A	667	105.179	108.859	141.189	1.00	0.75	C
ATOM	5282	O	ARG	A	667	104.615	108.009	140.516	1.00	0.75	O
ATOM	5283	CB	ARG	A	667	106.106	110.984	140.235	1.00	0.75	C
ATOM	5284	CG	ARG	A	667	106.804	110.120	139.154	1.00	0.75	C
ATOM	5285	CD	ARG	A	667	107.926	110.853	138.402	1.00	0.75	C
ATOM	5286	NE	ARG	A	667	108.793	109.795	137.786	1.00	0.75	N
ATOM	5287	CZ	ARG	A	667	110.061	109.969	137.397	1.00	0.75	C
ATOM	5288	NH1	ARG	A	667	110.564	111.166	137.136	1.00	0.75	N
ATOM	5289	NH2	ARG	A	667	110.797	108.891	137.135	1.00	0.75	N
ATOM	5290	N	TYR	A	668	106.023	108.494	142.171	1.00	0.79	N
ATOM	5291	CA	TYR	A	668	106.428	107.113	142.384	1.00	0.79	C
ATOM	5292	C	TYR	A	668	105.359	106.294	143.105	1.00	0.79	C
ATOM	5293	O	TYR	A	668	105.315	105.068	143.014	1.00	0.79	O
ATOM	5294	CB	TYR	A	668	107.754	107.057	143.181	1.00	0.79	C
ATOM	5295	CG	TYR	A	668	108.849	107.788	142.446	1.00	0.79	C
ATOM	5296	CD1	TYR	A	668	109.655	107.140	141.496	1.00	0.79	C
ATOM	5297	CD2	TYR	A	668	109.097	109.140	142.723	1.00	0.79	C
ATOM	5298	CE1	TYR	A	668	110.726	107.815	140.884	1.00	0.79	C
ATOM	5299	CE2	TYR	A	668	110.177	109.810	142.141	1.00	0.79	C
ATOM	5300	CZ	TYR	A	668	111.000	109.142	141.238	1.00	0.79	C
ATOM	5301	OH	TYR	A	668	112.106	109.841	140.716	1.00	0.79	O
ATOM	5302	N	SER	A	669	104.430	106.968	143.815	1.00	0.88	N
ATOM	5303	CA	SER	A	669	103.192	106.367	144.301	1.00	0.88	C
ATOM	5304	C	SER	A	669	102.166	106.150	143.201	1.00	0.88	C
ATOM	5305	O	SER	A	669	101.503	105.119	143.151	1.00	0.88	O
ATOM	5306	CB	SER	A	669	102.490	107.194	145.408	1.00	0.88	C
ATOM	5307	OG	SER	A	669	103.346	107.343	146.542	1.00	0.88	O
ATOM	5308	N	GLN	A	670	102.015	107.122	142.277	1.00	0.82	N
ATOM	5309	CA	GLN	A	670	100.987	107.132	141.244	1.00	0.82	C
ATOM	5310	C	GLN	A	670	101.458	106.526	139.924	1.00	0.82	C
ATOM	5311	O	GLN	A	670	100.734	106.541	138.932	1.00	0.82	O
ATOM	5312	CB	GLN	A	670	100.554	108.595	140.957	1.00	0.82	C
ATOM	5313	CG	GLN	A	670	99.796	109.284	142.123	1.00	0.82	C
ATOM	5314	CD	GLN	A	670	98.282	109.424	141.917	1.00	0.82	C
ATOM	5315	OE1	GLN	A	670	97.483	109.069	142.781	1.00	0.82	O
ATOM	5316	NE2	GLN	A	670	97.872	110.002	140.763	1.00	0.82	N
ATOM	5317	N	MET	A	671	102.676	105.949	139.886	1.00	0.82	N
ATOM	5318	CA	MET	A	671	103.164	105.190	138.744	1.00	0.82	C
ATOM	5319	C	MET	A	671	102.874	103.704	138.944	1.00	0.82	C

ATOM	5320	O	MET	A	671	103.066	102.864	138.065	1.00	0.82	O
ATOM	5321	CB	MET	A	671	104.680	105.446	138.541	1.00	0.82	C
ATOM	5322	CG	MET	A	671	105.196	105.127	137.124	1.00	0.82	C
ATOM	5323	SD	MET	A	671	104.463	106.167	135.824	1.00	0.82	S
ATOM	5324	CE	MET	A	671	105.285	105.257	134.488	1.00	0.82	C
ATOM	5325	N	GLU	A	672	102.300	103.366	140.116	1.00	0.84	N
ATOM	5326	CA	GLU	A	672	101.628	102.113	140.371	1.00	0.84	C
ATOM	5327	C	GLU	A	672	100.264	102.100	139.706	1.00	0.84	C
ATOM	5328	O	GLU	A	672	99.758	103.108	139.226	1.00	0.84	O
ATOM	5329	CB	GLU	A	672	101.429	101.879	141.887	1.00	0.84	C
ATOM	5330	CG	GLU	A	672	102.759	101.754	142.654	1.00	0.84	C
ATOM	5331	CD	GLU	A	672	103.522	100.510	142.230	1.00	0.84	C
ATOM	5332	OE1	GLU	A	672	102.990	99.392	142.425	1.00	0.84	O
ATOM	5333	OE2	GLU	A	672	104.695	100.668	141.804	1.00	0.84	O
ATOM	5334	N	GLY	A	673	99.627	100.919	139.630	1.00	0.85	N
ATOM	5335	CA	GLY	A	673	98.301	100.784	139.030	1.00	0.85	C
ATOM	5336	C	GLY	A	673	98.339	100.433	137.568	1.00	0.85	C
ATOM	5337	O	GLY	A	673	97.328	100.046	136.997	1.00	0.85	O
ATOM	5338	N	PHE	A	674	99.532	100.488	136.948	1.00	0.84	N
ATOM	5339	CA	PHE	A	674	99.774	100.076	135.573	1.00	0.84	C
ATOM	5340	C	PHE	A	674	100.293	98.633	135.524	1.00	0.84	C
ATOM	5341	O	PHE	A	674	100.549	98.065	134.461	1.00	0.84	O
ATOM	5342	CB	PHE	A	674	100.856	101.003	134.945	1.00	0.84	C
ATOM	5343	CG	PHE	A	674	100.347	102.403	134.715	1.00	0.84	C
ATOM	5344	CD1	PHE	A	674	100.504	103.407	135.687	1.00	0.84	C
ATOM	5345	CD2	PHE	A	674	99.747	102.741	133.490	1.00	0.84	C
ATOM	5346	CE1	PHE	A	674	100.072	104.716	135.442	1.00	0.84	C
ATOM	5347	CE2	PHE	A	674	99.307	104.048	133.240	1.00	0.84	C
ATOM	5348	CZ	PHE	A	674	99.472	105.037	134.217	1.00	0.84	C
ATOM	5349	N	VAL	A	675	100.454	98.023	136.714	1.00	0.86	N
ATOM	5350	CA	VAL	A	675	100.991	96.697	136.966	1.00	0.86	C
ATOM	5351	C	VAL	A	675	100.149	95.549	136.389	1.00	0.86	C
ATOM	5352	O	VAL	A	675	98.923	95.519	136.484	1.00	0.86	O
ATOM	5353	CB	VAL	A	675	101.243	96.505	138.465	1.00	0.86	C
ATOM	5354	CG1	VAL	A	675	102.108	95.254	138.701	1.00	0.86	C
ATOM	5355	CG2	VAL	A	675	101.974	97.741	139.037	1.00	0.86	C
ATOM	5356	N	SER	A	676	100.806	94.563	135.743	1.00	0.79	N
ATOM	5357	CA	SER	A	676	100.194	93.355	135.193	1.00	0.79	C
ATOM	5358	C	SER	A	676	99.586	92.376	136.231	1.00	0.79	C
ATOM	5359	O	SER	A	676	100.203	92.184	137.277	1.00	0.79	O
ATOM	5360	CB	SER	A	676	101.288	92.606	134.389	1.00	0.79	C
ATOM	5361	OG	SER	A	676	100.850	91.437	133.686	1.00	0.79	O
ATOM	5362	N	PRO	A	677	98.445	91.691	135.984	1.00	0.73	N
ATOM	5363	CA	PRO	A	677	97.799	90.695	136.865	1.00	0.73	C
ATOM	5364	C	PRO	A	677	98.588	89.683	137.711	1.00	0.73	C
ATOM	5365	O	PRO	A	677	98.066	89.395	138.794	1.00	0.73	O
ATOM	5366	CB	PRO	A	677	96.802	89.979	135.940	1.00	0.73	C
ATOM	5367	CG	PRO	A	677	96.397	91.055	134.936	1.00	0.73	C
ATOM	5368	CD	PRO	A	677	97.677	91.867	134.749	1.00	0.73	C
ATOM	5369	N	PRO	A	678	99.727	89.060	137.367	1.00	0.78	N
ATOM	5370	CA	PRO	A	678	100.525	88.265	138.303	1.00	0.78	C
ATOM	5371	C	PRO	A	678	100.935	89.032	139.551	1.00	0.78	C
ATOM	5372	O	PRO	A	678	100.962	88.446	140.634	1.00	0.78	O
ATOM	5373	CB	PRO	A	678	101.733	87.780	137.461	1.00	0.78	C
ATOM	5374	CG	PRO	A	678	101.692	88.625	136.179	1.00	0.78	C
ATOM	5375	CD	PRO	A	678	100.201	88.879	135.998	1.00	0.78	C
ATOM	5376	N	LEU	A	679	101.234	90.335	139.427	1.00	0.82	N
ATOM	5377	CA	LEU	A	679	101.665	91.171	140.525	1.00	0.82	C
ATOM	5378	C	LEU	A	679	100.551	92.125	140.922	1.00	0.82	C
ATOM	5379	O	LEU	A	679	99.577	92.335	140.203	1.00	0.82	O
ATOM	5380	CB	LEU	A	679	102.937	91.977	140.162	1.00	0.82	C
ATOM	5381	CG	LEU	A	679	104.149	91.132	139.712	1.00	0.82	C
ATOM	5382	CD1	LEU	A	679	105.342	92.055	139.420	1.00	0.82	C
ATOM	5383	CD2	LEU	A	679	104.557	90.070	140.744	1.00	0.82	C
ATOM	5384	N	LEU	A	680	100.653	92.718	142.121	1.00	0.86	N

ATOM	5385	CA	LEU	A	680	99.679	93.666	142.618	1.00	0.86	C
ATOM	5386	C	LEU	A	680	100.346	95.025	142.758	1.00	0.86	C
ATOM	5387	O	LEU	A	680	101.528	95.062	143.112	1.00	0.86	O
ATOM	5388	CB	LEU	A	680	99.136	93.230	144.003	1.00	0.86	C
ATOM	5389	CG	LEU	A	680	98.512	91.819	144.016	1.00	0.86	C
ATOM	5390	CD1	LEU	A	680	98.085	91.434	145.440	1.00	0.86	C
ATOM	5391	CD2	LEU	A	680	97.329	91.691	143.042	1.00	0.86	C
ATOM	5392	N	PRO	A	681	99.687	96.162	142.490	1.00	0.91	N
ATOM	5393	CA	PRO	A	681	100.233	97.478	142.809	1.00	0.91	C
ATOM	5394	C	PRO	A	681	100.592	97.633	144.280	1.00	0.91	C
ATOM	5395	O	PRO	A	681	99.759	97.395	145.159	1.00	0.91	O
ATOM	5396	CB	PRO	A	681	99.139	98.456	142.347	1.00	0.91	C
ATOM	5397	CG	PRO	A	681	97.841	97.669	142.526	1.00	0.91	C
ATOM	5398	CD	PRO	A	681	98.259	96.244	142.151	1.00	0.91	C
ATOM	5399	N	LYS	A	682	101.834	98.048	144.567	1.00	0.87	N
ATOM	5400	CA	LYS	A	682	102.291	98.264	145.921	1.00	0.87	C
ATOM	5401	C	LYS	A	682	102.955	99.636	146.038	1.00	0.87	C
ATOM	5402	O	LYS	A	682	104.169	99.800	145.857	1.00	0.87	O
ATOM	5403	CB	LYS	A	682	103.202	97.122	146.449	1.00	0.87	C
ATOM	5404	CG	LYS	A	682	102.403	95.849	146.814	1.00	0.87	C
ATOM	5405	CD	LYS	A	682	103.209	94.870	147.688	1.00	0.87	C
ATOM	5406	CE	LYS	A	682	102.499	93.565	148.101	1.00	0.87	C
ATOM	5407	NZ	LYS	A	682	101.424	93.800	149.089	1.00	0.87	N
ATOM	5408	N	PRO	A	683	102.189	100.675	146.388	1.00	0.89	N
ATOM	5409	CA	PRO	A	683	102.737	101.989	146.695	1.00	0.89	C
ATOM	5410	C	PRO	A	683	103.254	102.036	148.124	1.00	0.89	C
ATOM	5411	O	PRO	A	683	103.920	103.005	148.477	1.00	0.89	O
ATOM	5412	CB	PRO	A	683	101.555	102.944	146.456	1.00	0.89	C
ATOM	5413	CG	PRO	A	683	100.318	102.088	146.734	1.00	0.89	C
ATOM	5414	CD	PRO	A	683	100.731	100.716	146.213	1.00	0.89	C
ATOM	5415	N	GLN	A	684	103.012	101.001	148.968	1.00	0.81	N
ATOM	5416	CA	GLN	A	684	103.504	100.918	150.343	1.00	0.81	C
ATOM	5417	C	GLN	A	684	105.020	100.742	150.474	1.00	0.81	C
ATOM	5418	O	GLN	A	684	105.540	100.553	151.575	1.00	0.81	O
ATOM	5419	CB	GLN	A	684	102.872	99.749	151.161	1.00	0.81	C
ATOM	5420	CG	GLN	A	684	101.328	99.618	151.122	1.00	0.81	C
ATOM	5421	CD	GLN	A	684	100.880	98.624	150.047	1.00	0.81	C
ATOM	5422	OE1	GLN	A	684	101.411	98.645	148.938	1.00	0.81	O
ATOM	5423	NE2	GLN	A	684	99.923	97.722	150.361	1.00	0.81	N
ATOM	5424	N	LYS	A	685	105.753	100.793	149.346	1.00	0.81	N
ATOM	5425	CA	LYS	A	685	107.196	100.884	149.273	1.00	0.81	C
ATOM	5426	C	LYS	A	685	107.682	102.322	149.407	1.00	0.81	C
ATOM	5427	O	LYS	A	685	108.860	102.562	149.638	1.00	0.81	O
ATOM	5428	CB	LYS	A	685	107.705	100.287	147.936	1.00	0.81	C
ATOM	5429	CG	LYS	A	685	107.268	101.045	146.668	1.00	0.81	C
ATOM	5430	CD	LYS	A	685	107.659	100.295	145.381	1.00	0.81	C
ATOM	5431	CE	LYS	A	685	107.392	101.065	144.081	1.00	0.81	C
ATOM	5432	NZ	LYS	A	685	105.956	101.324	143.964	1.00	0.81	N
ATOM	5433	N	MET	A	686	106.767	103.316	149.316	1.00	0.80	N
ATOM	5434	CA	MET	A	686	107.086	104.716	149.537	1.00	0.80	C
ATOM	5435	C	MET	A	686	106.698	105.138	150.952	1.00	0.80	C
ATOM	5436	O	MET	A	686	106.500	106.313	151.245	1.00	0.80	O
ATOM	5437	CB	MET	A	686	106.402	105.646	148.498	1.00	0.80	C
ATOM	5438	CG	MET	A	686	106.627	105.271	147.013	1.00	0.80	C
ATOM	5439	SD	MET	A	686	108.329	104.835	146.511	1.00	0.80	S
ATOM	5440	CE	MET	A	686	109.190	106.350	147.009	1.00	0.80	C
ATOM	5441	N	VAL	A	687	106.592	104.162	151.877	1.00	0.78	N
ATOM	5442	CA	VAL	A	687	106.616	104.402	153.311	1.00	0.78	C
ATOM	5443	C	VAL	A	687	108.039	104.085	153.741	1.00	0.78	C
ATOM	5444	O	VAL	A	687	108.523	102.984	153.493	1.00	0.78	O
ATOM	5445	CB	VAL	A	687	105.615	103.560	154.099	1.00	0.78	C
ATOM	5446	CG1	VAL	A	687	105.778	103.806	155.616	1.00	0.78	C
ATOM	5447	CG2	VAL	A	687	104.185	103.930	153.652	1.00	0.78	C
ATOM	5448	N	GLU	A	688	108.703	105.096	154.345	1.00	0.68	N
ATOM	5449	CA	GLU	A	688	110.139	105.371	154.357	1.00	0.68	C

ATOM	5450	C	GLU	A	688	110.346	106.519	153.373	1.00	0.68	C
ATOM	5451	O	GLU	A	688	109.621	106.646	152.392	1.00	0.68	O
ATOM	5452	CB	GLU	A	688	111.162	104.219	154.131	1.00	0.68	C
ATOM	5453	CG	GLU	A	688	112.636	104.644	154.399	1.00	0.68	C
ATOM	5454	CD	GLU	A	688	113.689	103.601	154.017	1.00	0.68	C
ATOM	5455	OE1	GLU	A	688	113.605	102.447	154.497	1.00	0.68	O
ATOM	5456	OE2	GLU	A	688	114.619	103.993	153.253	1.00	0.68	O
ATOM	5457	N	LYS	A	689	111.246	107.479	153.692	1.00	0.62	N
ATOM	5458	CA	LYS	A	689	111.396	108.787	153.046	1.00	0.62	C
ATOM	5459	C	LYS	A	689	110.320	109.775	153.457	1.00	0.62	C
ATOM	5460	O	LYS	A	689	110.560	110.971	153.553	1.00	0.62	O
ATOM	5461	CB	LYS	A	689	111.594	108.763	151.504	1.00	0.62	C
ATOM	5462	CG	LYS	A	689	112.783	107.879	151.109	1.00	0.62	C
ATOM	5463	CD	LYS	A	689	113.242	108.086	149.658	1.00	0.62	C
ATOM	5464	CE	LYS	A	689	114.440	107.213	149.266	1.00	0.62	C
ATOM	5465	NZ	LYS	A	689	115.537	107.388	150.242	1.00	0.62	N
ATOM	5466	N	LEU	A	690	109.133	109.268	153.823	1.00	0.74	N
ATOM	5467	CA	LEU	A	690	108.025	110.047	154.321	1.00	0.74	C
ATOM	5468	C	LEU	A	690	108.023	110.187	155.847	1.00	0.74	C
ATOM	5469	O	LEU	A	690	107.074	110.703	156.427	1.00	0.74	O
ATOM	5470	CB	LEU	A	690	106.703	109.373	153.864	1.00	0.74	C
ATOM	5471	CG	LEU	A	690	106.401	109.446	152.348	1.00	0.74	C
ATOM	5472	CD1	LEU	A	690	104.920	109.126	152.082	1.00	0.74	C
ATOM	5473	CD2	LEU	A	690	106.727	110.805	151.717	1.00	0.74	C
ATOM	5474	N	GLU	A	691	109.101	109.772	156.545	1.00	0.71	N
ATOM	5475	CA	GLU	A	691	109.259	109.991	157.978	1.00	0.71	C
ATOM	5476	C	GLU	A	691	110.325	111.051	158.219	1.00	0.71	C
ATOM	5477	O	GLU	A	691	111.478	110.864	157.836	1.00	0.71	O
ATOM	5478	CB	GLU	A	691	109.708	108.713	158.730	1.00	0.71	C
ATOM	5479	CG	GLU	A	691	108.636	107.598	158.747	1.00	0.71	C
ATOM	5480	CD	GLU	A	691	108.985	106.396	159.629	1.00	0.71	C
ATOM	5481	OE1	GLU	A	691	108.110	105.495	159.747	1.00	0.71	O
ATOM	5482	OE2	GLU	A	691	110.101	106.369	160.202	1.00	0.71	O
ATOM	5483	N	VAL	A	692	109.956	112.195	158.848	1.00	0.70	N
ATOM	5484	CA	VAL	A	692	110.837	113.330	159.113	1.00	0.70	C
ATOM	5485	C	VAL	A	692	110.002	114.361	159.899	1.00	0.70	C
ATOM	5486	O	VAL	A	692	108.777	114.293	159.781	1.00	0.70	O
ATOM	5487	CB	VAL	A	692	111.457	113.928	157.835	1.00	0.70	C
ATOM	5488	CG1	VAL	A	692	110.443	114.767	157.043	1.00	0.70	C
ATOM	5489	CG2	VAL	A	692	112.736	114.738	158.121	1.00	0.70	C
ATOM	5490	N	PRO	A	693	110.497	115.295	160.727	1.00	0.77	N
ATOM	5491	CA	PRO	A	693	109.635	116.262	161.423	1.00	0.77	C
ATOM	5492	C	PRO	A	693	108.930	117.316	160.559	1.00	0.77	C
ATOM	5493	O	PRO	A	693	109.567	117.920	159.694	1.00	0.77	O
ATOM	5494	CB	PRO	A	693	110.608	116.952	162.395	1.00	0.77	C
ATOM	5495	CG	PRO	A	693	111.674	115.903	162.697	1.00	0.77	C
ATOM	5496	CD	PRO	A	693	111.823	115.209	161.348	1.00	0.77	C
ATOM	5497	N	LEU	A	694	107.635	117.593	160.833	1.00	0.76	N
ATOM	5498	CA	LEU	A	694	106.768	118.489	160.077	1.00	0.76	C
ATOM	5499	C	LEU	A	694	106.685	119.850	160.758	1.00	0.76	C
ATOM	5500	O	LEU	A	694	106.569	119.947	161.977	1.00	0.76	O
ATOM	5501	CB	LEU	A	694	105.324	117.927	159.947	1.00	0.76	C
ATOM	5502	CG	LEU	A	694	105.219	116.502	159.356	1.00	0.76	C
ATOM	5503	CD1	LEU	A	694	103.745	116.077	159.261	1.00	0.76	C
ATOM	5504	CD2	LEU	A	694	105.886	116.366	157.978	1.00	0.76	C
ATOM	5505	N	ARG	A	695	106.781	120.962	159.997	1.00	0.67	N
ATOM	5506	CA	ARG	A	695	106.939	122.288	160.587	1.00	0.67	C
ATOM	5507	C	ARG	A	695	106.027	123.358	159.991	1.00	0.67	C
ATOM	5508	O	ARG	A	695	105.982	124.495	160.475	1.00	0.67	O
ATOM	5509	CB	ARG	A	695	108.408	122.750	160.414	1.00	0.67	C
ATOM	5510	CG	ARG	A	695	109.417	121.839	161.145	1.00	0.67	C
ATOM	5511	CD	ARG	A	695	110.865	122.267	160.922	1.00	0.67	C
ATOM	5512	NE	ARG	A	695	111.766	121.288	161.621	1.00	0.67	N
ATOM	5513	CZ	ARG	A	695	112.263	120.182	161.047	1.00	0.67	C
ATOM	5514	NH1	ARG	A	695	111.778	119.710	159.906	1.00	0.67	N



ATOM	5515	NH2	ARG	A	695	113.253	119.520	161.643	1.00	0.67	N
ATOM	5516	N	THR	A	696	105.230	123.034	158.958	1.00	0.75	N
ATOM	5517	CA	THR	A	696	104.336	123.996	158.314	1.00	0.75	C
ATOM	5518	C	THR	A	696	102.991	123.320	158.130	1.00	0.75	C
ATOM	5519	O	THR	A	696	102.916	122.119	157.892	1.00	0.75	O
ATOM	5520	CB	THR	A	696	104.852	124.547	156.972	1.00	0.75	C
ATOM	5521	OG1	THR	A	696	106.083	125.244	157.130	1.00	0.75	O
ATOM	5522	CG2	THR	A	696	103.899	125.588	156.366	1.00	0.75	C
ATOM	5523	N	LYS	A	697	101.868	124.080	158.242	1.00	0.77	N
ATOM	5524	CA	LYS	A	697	100.495	123.592	158.114	1.00	0.77	C
ATOM	5525	C	LYS	A	697	100.229	122.901	156.774	1.00	0.77	C
ATOM	5526	O	LYS	A	697	99.505	121.911	156.688	1.00	0.77	O
ATOM	5527	CB	LYS	A	697	99.468	124.760	158.287	1.00	0.77	C
ATOM	5528	CG	LYS	A	697	99.466	125.405	159.689	1.00	0.77	C
ATOM	5529	CD	LYS	A	697	98.409	126.518	159.921	1.00	0.77	C
ATOM	5530	CE	LYS	A	697	96.970	126.029	160.188	1.00	0.77	C
ATOM	5531	NZ	LYS	A	697	96.130	127.104	160.776	1.00	0.77	N
ATOM	5532	N	LEU	A	698	100.858	123.413	155.695	1.00	0.85	N
ATOM	5533	CA	LEU	A	698	100.823	122.860	154.355	1.00	0.85	C
ATOM	5534	C	LEU	A	698	101.365	121.443	154.262	1.00	0.85	C
ATOM	5535	O	LEU	A	698	100.752	120.578	153.642	1.00	0.85	O
ATOM	5536	CB	LEU	A	698	101.635	123.792	153.419	1.00	0.85	C
ATOM	5537	CG	LEU	A	698	101.540	123.471	151.912	1.00	0.85	C
ATOM	5538	CD1	LEU	A	698	100.110	123.642	151.375	1.00	0.85	C
ATOM	5539	CD2	LEU	A	698	102.526	124.346	151.121	1.00	0.85	C
ATOM	5540	N	GLN	A	699	102.496	121.147	154.937	1.00	0.83	N
ATOM	5541	CA	GLN	A	699	103.147	119.848	154.910	1.00	0.83	C
ATOM	5542	C	GLN	A	699	102.250	118.739	155.427	1.00	0.83	C
ATOM	5543	O	GLN	A	699	102.158	117.674	154.825	1.00	0.83	O
ATOM	5544	CB	GLN	A	699	104.457	119.880	155.734	1.00	0.83	C
ATOM	5545	CG	GLN	A	699	105.493	120.868	155.150	1.00	0.83	C
ATOM	5546	CD	GLN	A	699	106.713	121.035	156.054	1.00	0.83	C
ATOM	5547	OE1	GLN	A	699	106.732	120.678	157.236	1.00	0.83	O
ATOM	5548	NE2	GLN	A	699	107.777	121.652	155.496	1.00	0.83	N
ATOM	5549	N	VAL	A	700	101.506	118.996	156.525	1.00	0.87	N
ATOM	5550	CA	VAL	A	700	100.506	118.074	157.045	1.00	0.87	C
ATOM	5551	C	VAL	A	700	99.374	117.820	156.054	1.00	0.87	C
ATOM	5552	O	VAL	A	700	99.008	116.675	155.801	1.00	0.87	O
ATOM	5553	CB	VAL	A	700	99.906	118.551	158.366	1.00	0.87	C
ATOM	5554	CG1	VAL	A	700	98.921	117.486	158.894	1.00	0.87	C
ATOM	5555	CG2	VAL	A	700	101.023	118.780	159.404	1.00	0.87	C
ATOM	5556	N	PHE	A	701	98.824	118.876	155.415	1.00	0.86	N
ATOM	5557	CA	PHE	A	701	97.774	118.757	154.411	1.00	0.86	C
ATOM	5558	C	PHE	A	701	98.205	117.908	153.208	1.00	0.86	C
ATOM	5559	O	PHE	A	701	97.511	116.970	152.808	1.00	0.86	O
ATOM	5560	CB	PHE	A	701	97.341	120.196	153.980	1.00	0.86	C
ATOM	5561	CG	PHE	A	701	96.438	120.206	152.773	1.00	0.86	C
ATOM	5562	CD1	PHE	A	701	96.960	120.525	151.506	1.00	0.86	C
ATOM	5563	CD2	PHE	A	701	95.100	119.804	152.878	1.00	0.86	C
ATOM	5564	CE1	PHE	A	701	96.155	120.447	150.362	1.00	0.86	C
ATOM	5565	CE2	PHE	A	701	94.298	119.718	151.735	1.00	0.86	C
ATOM	5566	CZ	PHE	A	701	94.820	120.045	150.478	1.00	0.86	C
ATOM	5567	N	LEU	A	702	99.405	118.182	152.653	1.00	0.86	N
ATOM	5568	CA	LEU	A	702	99.976	117.427	151.551	1.00	0.86	C
ATOM	5569	C	LEU	A	702	100.236	115.975	151.925	1.00	0.86	C
ATOM	5570	O	LEU	A	702	99.944	115.057	151.161	1.00	0.86	O
ATOM	5571	CB	LEU	A	702	101.289	118.074	151.039	1.00	0.86	C
ATOM	5572	CG	LEU	A	702	101.161	119.527	150.525	1.00	0.86	C
ATOM	5573	CD1	LEU	A	702	102.545	120.082	150.162	1.00	0.86	C
ATOM	5574	CD2	LEU	A	702	100.202	119.684	149.335	1.00	0.86	C
ATOM	5575	N	PHE	A	703	100.751	115.727	153.146	1.00	0.86	N
ATOM	5576	CA	PHE	A	703	100.973	114.397	153.674	1.00	0.86	C
ATOM	5577	C	PHE	A	703	99.704	113.570	153.824	1.00	0.86	C
ATOM	5578	O	PHE	A	703	99.635	112.426	153.381	1.00	0.86	O
ATOM	5579	CB	PHE	A	703	101.646	114.534	155.060	1.00	0.86	C

ATOM	5580	CG	PHE	A	703	102.373	113.289	155.435	1.00	0.86	C
ATOM	5581	CD1	PHE	A	703	101.885	112.365	156.375	1.00	0.86	C
ATOM	5582	CD2	PHE	A	703	103.611	113.071	154.828	1.00	0.86	C
ATOM	5583	CE1	PHE	A	703	102.649	111.237	156.709	1.00	0.86	C
ATOM	5584	CE2	PHE	A	703	104.375	111.957	155.164	1.00	0.86	C
ATOM	5585	CZ	PHE	A	703	103.895	111.035	156.101	1.00	0.86	C
ATOM	5586	N	ARG	A	704	98.637	114.147	154.418	1.00	0.80	N
ATOM	5587	CA	ARG	A	704	97.374	113.451	154.587	1.00	0.80	C
ATOM	5588	C	ARG	A	704	96.713	113.108	153.264	1.00	0.80	C
ATOM	5589	O	ARG	A	704	96.252	111.986	153.081	1.00	0.80	O
ATOM	5590	CB	ARG	A	704	96.376	114.233	155.483	1.00	0.80	C
ATOM	5591	CG	ARG	A	704	96.845	114.487	156.937	1.00	0.80	C
ATOM	5592	CD	ARG	A	704	97.255	113.261	157.764	1.00	0.80	C
ATOM	5593	NE	ARG	A	704	96.043	112.393	157.911	1.00	0.80	N
ATOM	5594	CZ	ARG	A	704	95.084	112.587	158.826	1.00	0.80	C
ATOM	5595	NH1	ARG	A	704	95.213	113.448	159.831	1.00	0.80	N
ATOM	5596	NH2	ARG	A	704	93.955	111.885	158.734	1.00	0.80	N
ATOM	5597	N	ARG	A	705	96.704	114.045	152.296	1.00	0.79	N
ATOM	5598	CA	ARG	A	705	96.231	113.789	150.947	1.00	0.79	C
ATOM	5599	C	ARG	A	705	97.054	112.772	150.166	1.00	0.79	C
ATOM	5600	O	ARG	A	705	96.503	111.938	149.454	1.00	0.79	O
ATOM	5601	CB	ARG	A	705	96.130	115.110	150.150	1.00	0.79	C
ATOM	5602	CG	ARG	A	705	94.979	116.030	150.612	1.00	0.79	C
ATOM	5603	CD	ARG	A	705	93.596	115.407	150.387	1.00	0.79	C
ATOM	5604	NE	ARG	A	705	92.563	116.387	150.835	1.00	0.79	N
ATOM	5605	CZ	ARG	A	705	91.258	116.095	150.873	1.00	0.79	C
ATOM	5606	NH1	ARG	A	705	90.799	114.862	150.663	1.00	0.79	N
ATOM	5607	NH2	ARG	A	705	90.395	117.070	151.133	1.00	0.79	N
ATOM	5608	N	HIS	A	706	98.395	112.782	150.288	1.00	0.84	N
ATOM	5609	CA	HIS	A	706	99.248	111.761	149.691	1.00	0.84	C
ATOM	5610	C	HIS	A	706	98.969	110.361	150.244	1.00	0.84	C
ATOM	5611	O	HIS	A	706	98.831	109.398	149.495	1.00	0.84	O
ATOM	5612	CB	HIS	A	706	100.738	112.165	149.858	1.00	0.84	C
ATOM	5613	CG	HIS	A	706	101.753	111.335	149.128	1.00	0.84	C
ATOM	5614	ND1	HIS	A	706	101.475	110.850	147.865	1.00	0.84	N
ATOM	5615	CD2	HIS	A	706	103.019	110.998	149.491	1.00	0.84	C
ATOM	5616	CE1	HIS	A	706	102.568	110.213	147.494	1.00	0.84	C
ATOM	5617	NE2	HIS	A	706	103.537	110.277	148.436	1.00	0.84	N
ATOM	5618	N	LEU	A	707	98.789	110.203	151.575	1.00	0.87	N
ATOM	5619	CA	LEU	A	707	98.364	108.929	152.152	1.00	0.87	C
ATOM	5620	C	LEU	A	707	96.972	108.464	151.704	1.00	0.87	C
ATOM	5621	O	LEU	A	707	96.770	107.278	151.439	1.00	0.87	O
ATOM	5622	CB	LEU	A	707	98.435	108.920	153.701	1.00	0.87	C
ATOM	5623	CG	LEU	A	707	99.842	109.129	154.310	1.00	0.87	C
ATOM	5624	CD1	LEU	A	707	99.788	108.933	155.832	1.00	0.87	C
ATOM	5625	CD2	LEU	A	707	100.925	108.213	153.714	1.00	0.87	C
ATOM	5626	N	ASP	A	708	96.002	109.398	151.579	1.00	0.85	N
ATOM	5627	CA	ASP	A	708	94.655	109.194	151.055	1.00	0.85	C
ATOM	5628	C	ASP	A	708	94.687	108.669	149.605	1.00	0.85	C
ATOM	5629	O	ASP	A	708	94.050	107.680	149.235	1.00	0.85	O
ATOM	5630	CB	ASP	A	708	93.956	110.585	151.160	1.00	0.85	C
ATOM	5631	CG	ASP	A	708	92.436	110.600	151.134	1.00	0.85	C
ATOM	5632	OD1	ASP	A	708	91.817	109.535	151.364	1.00	0.85	O
ATOM	5633	OD2	ASP	A	708	91.894	111.726	150.920	1.00	0.85	O
ATOM	5634	N	ALA	A	709	95.540	109.276	148.752	1.00	0.87	N
ATOM	5635	CA	ALA	A	709	95.819	108.802	147.411	1.00	0.87	C
ATOM	5636	C	ALA	A	709	96.458	107.410	147.363	1.00	0.87	C
ATOM	5637	O	ALA	A	709	96.028	106.545	146.603	1.00	0.87	O
ATOM	5638	CB	ALA	A	709	96.712	109.828	146.684	1.00	0.87	C
ATOM	5639	N	ILE	A	710	97.464	107.128	148.220	1.00	0.85	N
ATOM	5640	CA	ILE	A	710	98.131	105.828	148.310	1.00	0.85	C
ATOM	5641	C	ILE	A	710	97.180	104.687	148.667	1.00	0.85	C
ATOM	5642	O	ILE	A	710	97.193	103.632	148.031	1.00	0.85	O
ATOM	5643	CB	ILE	A	710	99.304	105.897	149.300	1.00	0.85	C
ATOM	5644	CG1	ILE	A	710	100.453	106.727	148.677	1.00	0.85	C

ATOM	5645	CG2	ILE	A	710	99.818	104.499	149.724	1.00	0.85	C
ATOM	5646	CD1	ILE	A	710	101.533	107.126	149.689	1.00	0.85	C
ATOM	5647	N	VAL	A	711	96.291	104.872	149.668	1.00	0.87	N
ATOM	5648	CA	VAL	A	711	95.282	103.879	150.026	1.00	0.87	C
ATOM	5649	C	VAL	A	711	94.204	103.694	148.953	1.00	0.87	C
ATOM	5650	O	VAL	A	711	93.715	102.586	148.721	1.00	0.87	O
ATOM	5651	CB	VAL	A	711	94.714	104.100	151.430	1.00	0.87	C
ATOM	5652	CG1	VAL	A	711	93.865	105.379	151.530	1.00	0.87	C
ATOM	5653	CG2	VAL	A	711	93.919	102.865	151.897	1.00	0.87	C
ATOM	5654	N	ARG	A	712	93.826	104.773	148.230	1.00	0.78	N
ATOM	5655	CA	ARG	A	712	92.963	104.702	147.059	1.00	0.78	C
ATOM	5656	C	ARG	A	712	93.560	103.898	145.896	1.00	0.78	C
ATOM	5657	O	ARG	A	712	92.883	103.042	145.331	1.00	0.78	O
ATOM	5658	CB	ARG	A	712	92.594	106.143	146.602	1.00	0.78	C
ATOM	5659	CG	ARG	A	712	91.661	106.248	145.373	1.00	0.78	C
ATOM	5660	CD	ARG	A	712	91.298	107.701	145.023	1.00	0.78	C
ATOM	5661	NE	ARG	A	712	90.535	107.676	143.725	1.00	0.78	N
ATOM	5662	CZ	ARG	A	712	90.218	108.770	143.015	1.00	0.78	C
ATOM	5663	NH1	ARG	A	712	90.499	109.994	143.444	1.00	0.78	N
ATOM	5664	NH2	ARG	A	712	89.625	108.644	141.828	1.00	0.78	N
ATOM	5665	N	VAL	A	713	94.849	104.117	145.541	1.00	0.84	N
ATOM	5666	CA	VAL	A	713	95.570	103.353	144.513	1.00	0.84	C
ATOM	5667	C	VAL	A	713	95.762	101.885	144.881	1.00	0.84	C
ATOM	5668	O	VAL	A	713	95.616	100.986	144.057	1.00	0.84	O
ATOM	5669	CB	VAL	A	713	96.932	103.970	144.170	1.00	0.84	C
ATOM	5670	CG1	VAL	A	713	97.705	103.125	143.130	1.00	0.84	C
ATOM	5671	CG2	VAL	A	713	96.716	105.369	143.568	1.00	0.84	C
ATOM	5672	N	ALA	A	714	96.080	101.580	146.155	1.00	0.89	N
ATOM	5673	CA	ALA	A	714	96.373	100.225	146.590	1.00	0.89	C
ATOM	5674	C	ALA	A	714	95.168	99.283	146.594	1.00	0.89	C
ATOM	5675	O	ALA	A	714	95.318	98.061	146.609	1.00	0.89	O
ATOM	5676	CB	ALA	A	714	96.968	100.277	148.012	1.00	0.89	C
ATOM	5677	N	ALA	A	715	93.945	99.850	146.587	1.00	0.89	N
ATOM	5678	CA	ALA	A	715	92.697	99.133	146.460	1.00	0.89	C
ATOM	5679	C	ALA	A	715	92.410	98.522	145.088	1.00	0.89	C
ATOM	5680	O	ALA	A	715	91.907	97.404	145.005	1.00	0.89	O
ATOM	5681	CB	ALA	A	715	91.549	100.091	146.838	1.00	0.89	C
ATOM	5682	N	SER	A	716	92.681	99.242	143.977	1.00	0.85	N
ATOM	5683	CA	SER	A	716	92.359	98.744	142.642	1.00	0.85	C
ATOM	5684	C	SER	A	716	93.345	99.303	141.620	1.00	0.85	C
ATOM	5685	O	SER	A	716	93.667	100.487	141.724	1.00	0.85	O
ATOM	5686	CB	SER	A	716	90.922	99.126	142.193	1.00	0.85	C
ATOM	5687	OG	SER	A	716	90.515	98.374	141.047	1.00	0.85	O
ATOM	5688	N	PRO	A	717	93.874	98.570	140.631	1.00	0.86	N
ATOM	5689	CA	PRO	A	717	94.689	99.142	139.561	1.00	0.86	C
ATOM	5690	C	PRO	A	717	93.893	99.996	138.577	1.00	0.86	C
ATOM	5691	O	PRO	A	717	92.674	100.125	138.684	1.00	0.86	O
ATOM	5692	CB	PRO	A	717	95.286	97.905	138.842	1.00	0.86	C
ATOM	5693	CG	PRO	A	717	94.926	96.695	139.715	1.00	0.86	C
ATOM	5694	CD	PRO	A	717	93.654	97.142	140.425	1.00	0.86	C
ATOM	5695	N	PHE	A	718	94.566	100.576	137.566	1.00	0.80	N
ATOM	5696	CA	PHE	A	718	93.917	101.335	136.515	1.00	0.80	C
ATOM	5697	C	PHE	A	718	93.355	100.384	135.448	1.00	0.80	C
ATOM	5698	O	PHE	A	718	94.114	99.560	134.933	1.00	0.80	O
ATOM	5699	CB	PHE	A	718	94.903	102.341	135.856	1.00	0.80	C
ATOM	5700	CG	PHE	A	718	95.387	103.443	136.782	1.00	0.80	C
ATOM	5701	CD1	PHE	A	718	94.746	103.808	137.986	1.00	0.80	C
ATOM	5702	CD2	PHE	A	718	96.520	104.177	136.388	1.00	0.80	C
ATOM	5703	CE1	PHE	A	718	95.227	104.868	138.765	1.00	0.80	C
ATOM	5704	CE2	PHE	A	718	96.998	105.243	137.162	1.00	0.80	C
ATOM	5705	CZ	PHE	A	718	96.351	105.588	138.352	1.00	0.80	C
ATOM	5706	N	PRO	A	719	92.067	100.405	135.075	1.00	0.80	N
ATOM	5707	CA	PRO	A	719	91.533	99.490	134.068	1.00	0.80	C
ATOM	5708	C	PRO	A	719	92.091	99.731	132.677	1.00	0.80	C
ATOM	5709	O	PRO	A	719	92.442	100.861	132.347	1.00	0.80	O

ATOM	5710	CB	PRO	A	719	90.012	99.716	134.097	1.00	0.80	C
ATOM	5711	CG	PRO	A	719	89.733	100.311	135.480	1.00	0.80	C
ATOM	5712	CD	PRO	A	719	91.001	101.103	135.794	1.00	0.80	C
ATOM	5713	N	ILE	A	720	92.195	98.662	131.869	1.00	0.70	N
ATOM	5714	CA	ILE	A	720	92.885	98.662	130.593	1.00	0.70	C
ATOM	5715	C	ILE	A	720	91.906	98.159	129.551	1.00	0.70	C
ATOM	5716	O	ILE	A	720	91.569	96.974	129.552	1.00	0.70	O
ATOM	5717	CB	ILE	A	720	94.079	97.697	130.653	1.00	0.70	C
ATOM	5718	CG1	ILE	A	720	94.987	98.029	131.864	1.00	0.70	C
ATOM	5719	CG2	ILE	A	720	94.860	97.735	129.318	1.00	0.70	C
ATOM	5720	CD1	ILE	A	720	96.130	97.034	132.087	1.00	0.70	C
ATOM	5721	N	VAL	A	721	91.396	99.018	128.641	1.00	0.74	N
ATOM	5722	CA	VAL	A	721	90.389	98.575	127.682	1.00	0.74	C
ATOM	5723	C	VAL	A	721	90.819	98.855	126.252	1.00	0.74	C
ATOM	5724	O	VAL	A	721	90.722	99.963	125.730	1.00	0.74	O
ATOM	5725	CB	VAL	A	721	89.020	99.206	127.950	1.00	0.74	C
ATOM	5726	CG1	VAL	A	721	87.962	98.660	126.965	1.00	0.74	C
ATOM	5727	CG2	VAL	A	721	88.590	98.893	129.399	1.00	0.74	C
ATOM	5728	N	ALA	A	722	91.245	97.807	125.519	1.00	0.71	N
ATOM	5729	CA	ALA	A	722	91.470	97.914	124.093	1.00	0.71	C
ATOM	5730	C	ALA	A	722	90.130	97.752	123.382	1.00	0.71	C
ATOM	5731	O	ALA	A	722	89.596	96.654	123.257	1.00	0.71	O
ATOM	5732	CB	ALA	A	722	92.497	96.866	123.614	1.00	0.71	C
ATOM	5733	N	ARG	A	723	89.520	98.884	122.977	1.00	0.42	N
ATOM	5734	CA	ARG	A	723	88.173	98.927	122.428	1.00	0.42	C
ATOM	5735	C	ARG	A	723	88.146	99.024	120.913	1.00	0.42	C
ATOM	5736	O	ARG	A	723	87.106	98.866	120.278	1.00	0.42	O
ATOM	5737	CB	ARG	A	723	87.452	100.194	122.965	1.00	0.42	C
ATOM	5738	CG	ARG	A	723	88.222	101.509	122.700	1.00	0.42	C
ATOM	5739	CD	ARG	A	723	87.356	102.770	122.743	1.00	0.42	C
ATOM	5740	NE	ARG	A	723	86.979	103.036	124.167	1.00	0.42	N
ATOM	5741	CZ	ARG	A	723	87.753	103.712	125.021	1.00	0.42	C
ATOM	5742	NH1	ARG	A	723	88.908	104.254	124.657	1.00	0.42	N
ATOM	5743	NH2	ARG	A	723	87.446	103.777	126.311	1.00	0.42	N
ATOM	5744	N	ASP	A	724	89.308	99.303	120.320	1.00	0.51	N
ATOM	5745	CA	ASP	A	724	89.547	99.372	118.909	1.00	0.51	C
ATOM	5746	C	ASP	A	724	90.935	98.776	118.752	1.00	0.51	C
ATOM	5747	O	ASP	A	724	91.348	97.929	119.541	1.00	0.51	O
ATOM	5748	CB	ASP	A	724	89.361	100.827	118.342	1.00	0.51	C
ATOM	5749	CG	ASP	A	724	90.077	101.959	119.076	1.00	0.51	C
ATOM	5750	OD1	ASP	A	724	89.769	103.139	118.748	1.00	0.51	O
ATOM	5751	OD2	ASP	A	724	90.915	101.710	119.972	1.00	0.51	O
ATOM	5752	N	GLY	A	725	91.725	99.228	117.762	1.00	0.54	N
ATOM	5753	CA	GLY	A	725	93.093	98.750	117.589	1.00	0.54	C
ATOM	5754	C	GLY	A	725	94.064	99.339	118.579	1.00	0.54	C
ATOM	5755	O	GLY	A	725	95.251	99.024	118.571	1.00	0.54	O
ATOM	5756	N	ARG	A	726	93.592	100.238	119.454	1.00	0.56	N
ATOM	5757	CA	ARG	A	726	94.426	100.991	120.351	1.00	0.56	C
ATOM	5758	C	ARG	A	726	94.124	100.701	121.804	1.00	0.56	C
ATOM	5759	O	ARG	A	726	93.083	100.160	122.172	1.00	0.56	O
ATOM	5760	CB	ARG	A	726	94.245	102.488	120.071	1.00	0.56	C
ATOM	5761	CG	ARG	A	726	94.482	102.795	118.585	1.00	0.56	C
ATOM	5762	CD	ARG	A	726	94.951	104.216	118.393	1.00	0.56	C
ATOM	5763	NE	ARG	A	726	95.149	104.431	116.934	1.00	0.56	N
ATOM	5764	CZ	ARG	A	726	95.268	105.670	116.454	1.00	0.56	C
ATOM	5765	NH1	ARG	A	726	95.482	106.672	117.302	1.00	0.56	N
ATOM	5766	NH2	ARG	A	726	95.140	105.913	115.158	1.00	0.56	N
ATOM	5767	N	VAL	A	727	95.082	101.042	122.685	1.00	0.69	N
ATOM	5768	CA	VAL	A	727	95.027	100.710	124.095	1.00	0.69	C
ATOM	5769	C	VAL	A	727	95.033	102.001	124.895	1.00	0.69	C
ATOM	5770	O	VAL	A	727	95.569	103.020	124.464	1.00	0.69	O
ATOM	5771	CB	VAL	A	727	96.181	99.800	124.519	1.00	0.69	C
ATOM	5772	CG1	VAL	A	727	95.886	99.166	125.894	1.00	0.69	C
ATOM	5773	CG2	VAL	A	727	96.373	98.682	123.472	1.00	0.69	C
ATOM	5774	N	GLU	A	728	94.394	101.995	126.074	1.00	0.69	N

ATOM	5775	CA	GLU	A	728	94.121	103.172	126.861	1.00	0.69	C
ATOM	5776	C	GLU	A	728	93.906	102.729	128.297	1.00	0.69	C
ATOM	5777	O	GLU	A	728	93.924	101.533	128.592	1.00	0.69	O
ATOM	5778	CB	GLU	A	728	92.882	103.918	126.317	1.00	0.69	C
ATOM	5779	CG	GLU	A	728	91.647	102.999	126.203	1.00	0.69	C
ATOM	5780	CD	GLU	A	728	90.599	103.301	127.259	1.00	0.69	C
ATOM	5781	OE1	GLU	A	728	90.381	102.475	128.168	1.00	0.69	O
ATOM	5782	OE2	GLU	A	728	89.928	104.359	127.090	1.00	0.69	O
ATOM	5783	N	TRP	A	729	93.788	103.701	129.226	1.00	0.74	N
ATOM	5784	CA	TRP	A	729	93.793	103.449	130.655	1.00	0.74	C
ATOM	5785	C	TRP	A	729	92.660	104.257	131.277	1.00	0.74	C
ATOM	5786	O	TRP	A	729	92.710	105.486	131.306	1.00	0.74	O
ATOM	5787	CB	TRP	A	729	95.164	103.844	131.298	1.00	0.74	C
ATOM	5788	CG	TRP	A	729	96.378	103.372	130.502	1.00	0.74	C
ATOM	5789	CD1	TRP	A	729	96.905	103.931	129.367	1.00	0.74	C
ATOM	5790	CD2	TRP	A	729	97.108	102.151	130.720	1.00	0.74	C
ATOM	5791	NE1	TRP	A	729	97.892	103.129	128.843	1.00	0.74	N
ATOM	5792	CE2	TRP	A	729	98.016	102.021	129.649	1.00	0.74	C
ATOM	5793	CE3	TRP	A	729	97.025	101.179	131.714	1.00	0.74	C
ATOM	5794	CZ2	TRP	A	729	98.831	100.906	129.536	1.00	0.74	C
ATOM	5795	CZ3	TRP	A	729	97.894	100.078	131.626	1.00	0.74	C
ATOM	5796	CH2	TRP	A	729	98.775	99.934	130.546	1.00	0.74	C
ATOM	5797	N	THR	A	730	91.597	103.583	131.760	1.00	0.69	N
ATOM	5798	CA	THR	A	730	90.311	104.198	132.111	1.00	0.69	C
ATOM	5799	C	THR	A	730	90.310	105.178	133.274	1.00	0.69	C
ATOM	5800	O	THR	A	730	89.688	106.236	133.224	1.00	0.69	O
ATOM	5801	CB	THR	A	730	89.268	103.142	132.500	1.00	0.69	C
ATOM	5802	OG1	THR	A	730	89.167	102.143	131.505	1.00	0.69	O
ATOM	5803	CG2	THR	A	730	87.849	103.709	132.671	1.00	0.69	C
ATOM	5804	N	GLY	A	731	90.958	104.822	134.403	1.00	0.81	N
ATOM	5805	CA	GLY	A	731	90.628	105.408	135.708	1.00	0.81	C
ATOM	5806	C	GLY	A	731	91.713	106.233	136.328	1.00	0.81	C
ATOM	5807	O	GLY	A	731	92.289	105.846	137.338	1.00	0.81	O
ATOM	5808	N	THR	A	732	91.986	107.413	135.761	1.00	0.80	N
ATOM	5809	CA	THR	A	732	93.140	108.232	136.120	1.00	0.80	C
ATOM	5810	C	THR	A	732	92.706	109.457	136.910	1.00	0.80	C
ATOM	5811	O	THR	A	732	91.640	110.024	136.678	1.00	0.80	O
ATOM	5812	CB	THR	A	732	93.893	108.658	134.865	1.00	0.80	C
ATOM	5813	OG1	THR	A	732	94.475	107.515	134.253	1.00	0.80	O
ATOM	5814	CG2	THR	A	732	95.052	109.613	135.162	1.00	0.80	C
ATOM	5815	N	PHE	A	733	93.512	109.901	137.905	1.00	0.79	N
ATOM	5816	CA	PHE	A	733	93.171	111.047	138.724	1.00	0.79	C
ATOM	5817	C	PHE	A	733	94.385	111.867	139.148	1.00	0.79	C
ATOM	5818	O	PHE	A	733	95.478	111.351	139.373	1.00	0.79	O
ATOM	5819	CB	PHE	A	733	92.342	110.636	139.977	1.00	0.79	C
ATOM	5820	CG	PHE	A	733	93.015	109.670	140.917	1.00	0.79	C
ATOM	5821	CD1	PHE	A	733	92.978	108.284	140.682	1.00	0.79	C
ATOM	5822	CD2	PHE	A	733	93.625	110.146	142.089	1.00	0.79	C
ATOM	5823	CE1	PHE	A	733	93.529	107.391	141.610	1.00	0.79	C
ATOM	5824	CE2	PHE	A	733	94.186	109.259	143.014	1.00	0.79	C
ATOM	5825	CZ	PHE	A	733	94.128	107.881	142.777	1.00	0.79	C
ATOM	5826	N	ASN	A	734	94.207	113.202	139.276	1.00	0.78	N
ATOM	5827	CA	ASN	A	734	95.178	114.107	139.878	1.00	0.78	C
ATOM	5828	C	ASN	A	734	95.443	113.764	141.354	1.00	0.78	C
ATOM	5829	O	ASN	A	734	94.508	113.601	142.128	1.00	0.78	O
ATOM	5830	CB	ASN	A	734	94.665	115.574	139.825	1.00	0.78	C
ATOM	5831	CG	ASN	A	734	94.497	116.122	138.410	1.00	0.78	C
ATOM	5832	OD1	ASN	A	734	94.883	115.530	137.402	1.00	0.78	O
ATOM	5833	ND2	ASN	A	734	93.881	117.323	138.331	1.00	0.78	N
ATOM	5834	N	ALA	A	735	96.726	113.662	141.771	1.00	0.84	N
ATOM	5835	CA	ALA	A	735	97.130	113.094	143.051	1.00	0.84	C
ATOM	5836	C	ALA	A	735	96.637	113.784	144.330	1.00	0.84	C
ATOM	5837	O	ALA	A	735	96.134	113.141	145.246	1.00	0.84	O
ATOM	5838	CB	ALA	A	735	98.673	113.056	143.063	1.00	0.84	C
ATOM	5839	N	ILE	A	736	96.749	115.124	144.426	1.00	0.80	N

ATOM	5840	CA	ILE	A	736	96.404	115.862	145.638	1.00	0.80	C
ATOM	5841	C	ILE	A	736	95.087	116.591	145.423	1.00	0.80	C
ATOM	5842	O	ILE	A	736	95.053	117.810	145.283	1.00	0.80	O
ATOM	5843	CB	ILE	A	736	97.528	116.804	146.089	1.00	0.80	C
ATOM	5844	CG1	ILE	A	736	98.846	115.998	146.231	1.00	0.80	C
ATOM	5845	CG2	ILE	A	736	97.168	117.493	147.431	1.00	0.80	C
ATOM	5846	CD1	ILE	A	736	100.000	116.784	146.859	1.00	0.80	C
ATOM	5847	N	THR	A	737	93.968	115.827	145.376	1.00	0.70	N
ATOM	5848	CA	THR	A	737	92.603	116.295	145.103	1.00	0.70	C
ATOM	5849	C	THR	A	737	91.738	115.085	144.765	1.00	0.70	C
ATOM	5850	O	THR	A	737	92.227	113.976	144.568	1.00	0.70	O
ATOM	5851	CB	THR	A	737	92.441	117.357	143.996	1.00	0.70	C
ATOM	5852	OG1	THR	A	737	91.127	117.900	143.917	1.00	0.70	O
ATOM	5853	CG2	THR	A	737	92.807	116.767	142.629	1.00	0.70	C
ATOM	5854	N	GLY	A	738	90.402	115.261	144.727	1.00	0.58	N
ATOM	5855	CA	GLY	A	738	89.432	114.238	144.355	1.00	0.58	C
ATOM	5856	C	GLY	A	738	88.854	114.518	142.995	1.00	0.58	C
ATOM	5857	O	GLY	A	738	87.748	115.032	142.877	1.00	0.58	O
ATOM	5858	N	ARG	A	739	89.596	114.186	141.924	1.00	0.64	N
ATOM	5859	CA	ARG	A	739	89.202	114.464	140.550	1.00	0.64	C
ATOM	5860	C	ARG	A	739	89.358	113.223	139.694	1.00	0.64	C
ATOM	5861	O	ARG	A	739	89.808	112.187	140.180	1.00	0.64	O
ATOM	5862	CB	ARG	A	739	90.024	115.635	139.945	1.00	0.64	C
ATOM	5863	CG	ARG	A	739	89.757	116.996	140.625	1.00	0.64	C
ATOM	5864	CD	ARG	A	739	88.305	117.463	140.499	1.00	0.64	C
ATOM	5865	NE	ARG	A	739	88.189	118.790	141.172	1.00	0.64	N
ATOM	5866	CZ	ARG	A	739	87.057	119.498	141.164	1.00	0.64	C
ATOM	5867	NH1	ARG	A	739	86.027	119.164	140.398	1.00	0.64	N
ATOM	5868	NH2	ARG	A	739	86.974	120.607	141.877	1.00	0.64	N
ATOM	5869	N	SER	A	740	88.937	113.301	138.415	1.00	0.78	N
ATOM	5870	CA	SER	A	740	89.094	112.245	137.421	1.00	0.78	C
ATOM	5871	C	SER	A	740	89.493	112.916	136.128	1.00	0.78	C
ATOM	5872	O	SER	A	740	88.753	113.754	135.624	1.00	0.78	O
ATOM	5873	CB	SER	A	740	87.780	111.478	137.113	1.00	0.78	C
ATOM	5874	OG	SER	A	740	87.349	110.712	138.239	1.00	0.78	O
ATOM	5875	N	THR	A	741	90.665	112.589	135.554	1.00	0.76	N
ATOM	5876	CA	THR	A	741	91.264	113.387	134.484	1.00	0.76	C
ATOM	5877	C	THR	A	741	92.065	112.494	133.551	1.00	0.76	C
ATOM	5878	O	THR	A	741	92.560	111.439	133.931	1.00	0.76	O
ATOM	5879	CB	THR	A	741	92.207	114.497	134.977	1.00	0.76	C
ATOM	5880	OG1	THR	A	741	93.079	114.016	135.996	1.00	0.76	O
ATOM	5881	CG2	THR	A	741	91.404	115.668	135.560	1.00	0.76	C
ATOM	5882	N	GLY	A	742	92.196	112.871	132.254	1.00	0.81	N
ATOM	5883	CA	GLY	A	742	93.021	112.137	131.284	1.00	0.81	C
ATOM	5884	C	GLY	A	742	94.512	112.116	131.571	1.00	0.81	C
ATOM	5885	O	GLY	A	742	95.032	112.940	132.318	1.00	0.81	O
ATOM	5886	N	LEU	A	743	95.278	111.202	130.928	1.00	0.78	N
ATOM	5887	CA	LEU	A	743	96.681	110.973	131.272	1.00	0.78	C
ATOM	5888	C	LEU	A	743	97.598	112.183	131.180	1.00	0.78	C
ATOM	5889	O	LEU	A	743	98.342	112.462	132.114	1.00	0.78	O
ATOM	5890	CB	LEU	A	743	97.329	109.867	130.400	1.00	0.78	C
ATOM	5891	CG	LEU	A	743	96.973	108.418	130.779	1.00	0.78	C
ATOM	5892	CD1	LEU	A	743	97.689	107.480	129.802	1.00	0.78	C
ATOM	5893	CD2	LEU	A	743	97.403	108.049	132.208	1.00	0.78	C
ATOM	5894	N	GLU	A	744	97.541	112.983	130.095	1.00	0.77	N
ATOM	5895	CA	GLU	A	744	98.424	114.130	129.952	1.00	0.77	C
ATOM	5896	C	GLU	A	744	98.146	115.239	130.962	1.00	0.77	C
ATOM	5897	O	GLU	A	744	99.013	116.041	131.286	1.00	0.77	O
ATOM	5898	CB	GLU	A	744	98.409	114.689	128.508	1.00	0.77	C
ATOM	5899	CG	GLU	A	744	97.031	115.145	127.972	1.00	0.77	C
ATOM	5900	CD	GLU	A	744	97.132	115.794	126.588	1.00	0.77	C
ATOM	5901	OE1	GLU	A	744	98.114	116.549	126.347	1.00	0.77	O
ATOM	5902	OE2	GLU	A	744	96.193	115.590	125.787	1.00	0.77	O
ATOM	5903	N	ASN	A	745	96.934	115.271	131.551	1.00	0.78	N
ATOM	5904	CA	ASN	A	745	96.620	116.162	132.651	1.00	0.78	C

ATOM	5905	C	ASN	A	745	97.351	115.738	133.931	1.00	0.78	C
ATOM	5906	O	ASN	A	745	97.949	116.559	134.623	1.00	0.78	O
ATOM	5907	CB	ASN	A	745	95.090	116.196	132.907	1.00	0.78	C
ATOM	5908	CG	ASN	A	745	94.297	116.882	131.793	1.00	0.78	C
ATOM	5909	OD1	ASN	A	745	93.639	117.880	132.061	1.00	0.78	O
ATOM	5910	ND2	ASN	A	745	94.303	116.370	130.544	1.00	0.78	N
ATOM	5911	N	MET	A	746	97.349	114.422	134.246	1.00	0.78	N
ATOM	5912	CA	MET	A	746	98.044	113.867	135.398	1.00	0.78	C
ATOM	5913	C	MET	A	746	99.569	113.916	135.319	1.00	0.78	C
ATOM	5914	O	MET	A	746	100.228	114.298	136.285	1.00	0.78	O
ATOM	5915	CB	MET	A	746	97.625	112.394	135.660	1.00	0.78	C
ATOM	5916	CG	MET	A	746	98.338	111.761	136.883	1.00	0.78	C
ATOM	5917	SD	MET	A	746	97.943	110.028	137.252	1.00	0.78	S
ATOM	5918	CE	MET	A	746	98.684	109.275	135.773	1.00	0.78	C
ATOM	5919	N	VAL	A	747	100.186	113.534	134.177	1.00	0.83	N
ATOM	5920	CA	VAL	A	747	101.638	113.332	134.073	1.00	0.83	C
ATOM	5921	C	VAL	A	747	102.449	114.590	134.381	1.00	0.83	C
ATOM	5922	O	VAL	A	747	103.458	114.561	135.086	1.00	0.83	O
ATOM	5923	CB	VAL	A	747	102.044	112.746	132.717	1.00	0.83	C
ATOM	5924	CG1	VAL	A	747	103.574	112.576	132.612	1.00	0.83	C
ATOM	5925	CG2	VAL	A	747	101.408	111.353	132.545	1.00	0.83	C
ATOM	5926	N	ASN	A	748	101.987	115.769	133.922	1.00	0.79	N
ATOM	5927	CA	ASN	A	748	102.638	117.028	134.248	1.00	0.79	C
ATOM	5928	C	ASN	A	748	102.087	117.680	135.516	1.00	0.79	C
ATOM	5929	O	ASN	A	748	102.400	118.825	135.820	1.00	0.79	O
ATOM	5930	CB	ASN	A	748	102.655	118.016	133.047	1.00	0.79	C
ATOM	5931	CG	ASN	A	748	101.337	118.143	132.292	1.00	0.79	C
ATOM	5932	OD1	ASN	A	748	101.331	118.017	131.068	1.00	0.79	O
ATOM	5933	ND2	ASN	A	748	100.222	118.437	132.992	1.00	0.79	N
ATOM	5934	N	ASN	A	749	101.298	116.958	136.334	1.00	0.81	N
ATOM	5935	CA	ASN	A	749	100.835	117.451	137.620	1.00	0.81	C
ATOM	5936	C	ASN	A	749	101.760	116.959	138.736	1.00	0.81	C
ATOM	5937	O	ASN	A	749	101.609	117.296	139.907	1.00	0.81	O
ATOM	5938	CB	ASN	A	749	99.378	116.970	137.848	1.00	0.81	C
ATOM	5939	CG	ASN	A	749	98.741	117.725	139.003	1.00	0.81	C
ATOM	5940	OD1	ASN	A	749	98.871	118.941	139.122	1.00	0.81	O
ATOM	5941	ND2	ASN	A	749	98.029	117.002	139.893	1.00	0.81	N
ATOM	5942	N	TRP	A	750	102.802	116.185	138.388	1.00	0.78	N
ATOM	5943	CA	TRP	A	750	103.779	115.693	139.344	1.00	0.78	C
ATOM	5944	C	TRP	A	750	104.993	116.613	139.433	1.00	0.78	C
ATOM	5945	O	TRP	A	750	105.946	116.360	140.163	1.00	0.78	O
ATOM	5946	CB	TRP	A	750	104.255	114.286	138.900	1.00	0.78	C
ATOM	5947	CG	TRP	A	750	103.178	113.207	138.862	1.00	0.78	C
ATOM	5948	CD1	TRP	A	750	102.059	113.074	139.640	1.00	0.78	C
ATOM	5949	CD2	TRP	A	750	103.208	112.055	137.997	1.00	0.78	C
ATOM	5950	NE1	TRP	A	750	101.391	111.908	139.324	1.00	0.78	N
ATOM	5951	CE2	TRP	A	750	102.084	111.264	138.323	1.00	0.78	C
ATOM	5952	CE3	TRP	A	750	104.104	111.655	137.005	1.00	0.78	C
ATOM	5953	CZ2	TRP	A	750	101.847	110.059	137.676	1.00	0.78	C
ATOM	5954	CZ3	TRP	A	750	103.865	110.433	136.356	1.00	0.78	C
ATOM	5955	CH2	TRP	A	750	102.754	109.645	136.689	1.00	0.78	C
ATOM	5956	N	TYR	A	751	104.979	117.732	138.685	1.00	0.76	N
ATOM	5957	CA	TYR	A	751	106.126	118.604	138.515	1.00	0.76	C
ATOM	5958	C	TYR	A	751	105.804	120.048	138.911	1.00	0.76	C
ATOM	5959	O	TYR	A	751	106.481	120.978	138.483	1.00	0.76	O
ATOM	5960	CB	TYR	A	751	106.606	118.544	137.037	1.00	0.76	C
ATOM	5961	CG	TYR	A	751	107.358	117.274	136.727	1.00	0.76	C
ATOM	5962	CD1	TYR	A	751	106.690	116.111	136.301	1.00	0.76	C
ATOM	5963	CD2	TYR	A	751	108.761	117.254	136.811	1.00	0.76	C
ATOM	5964	CE1	TYR	A	751	107.411	114.950	135.979	1.00	0.76	C
ATOM	5965	CE2	TYR	A	751	109.484	116.100	136.473	1.00	0.76	C
ATOM	5966	CZ	TYR	A	751	108.809	114.946	136.060	1.00	0.76	C
ATOM	5967	OH	TYR	A	751	109.539	113.789	135.709	1.00	0.76	O
ATOM	5968	N	ILE	A	752	104.776	120.275	139.763	1.00	0.78	N
ATOM	5969	CA	ILE	A	752	104.265	121.600	140.150	1.00	0.78	C

ATOM	5970	C	ILE	A	752	105.308	122.542	140.755	1.00	0.78	C
ATOM	5971	O	ILE	A	752	105.370	123.722	140.422	1.00	0.78	O
ATOM	5972	CB	ILE	A	752	103.105	121.443	141.150	1.00	0.78	C
ATOM	5973	CG1	ILE	A	752	101.862	120.790	140.494	1.00	0.78	C
ATOM	5974	CG2	ILE	A	752	102.710	122.775	141.837	1.00	0.78	C
ATOM	5975	CD1	ILE	A	752	101.063	121.721	139.570	1.00	0.78	C
ATOM	5976	N	GLY	A	753	106.174	122.041	141.661	1.00	0.66	N
ATOM	5977	CA	GLY	A	753	107.145	122.867	142.381	1.00	0.66	C
ATOM	5978	C	GLY	A	753	108.492	122.990	141.720	1.00	0.66	C
ATOM	5979	O	GLY	A	753	109.437	123.476	142.329	1.00	0.66	O
ATOM	5980	N	TYR	A	754	108.645	122.488	140.483	1.00	0.69	N
ATOM	5981	CA	TYR	A	754	109.928	122.416	139.806	1.00	0.69	C
ATOM	5982	C	TYR	A	754	110.534	123.774	139.418	1.00	0.69	C
ATOM	5983	O	TYR	A	754	109.876	124.622	138.822	1.00	0.69	O
ATOM	5984	CB	TYR	A	754	109.789	121.502	138.555	1.00	0.69	C
ATOM	5985	CG	TYR	A	754	111.088	120.823	138.216	1.00	0.69	C
ATOM	5986	CD1	TYR	A	754	112.035	121.442	137.386	1.00	0.69	C
ATOM	5987	CD2	TYR	A	754	111.377	119.560	138.758	1.00	0.69	C
ATOM	5988	CE1	TYR	A	754	113.253	120.808	137.102	1.00	0.69	C
ATOM	5989	CE2	TYR	A	754	112.592	118.920	138.470	1.00	0.69	C
ATOM	5990	CZ	TYR	A	754	113.529	119.547	137.640	1.00	0.69	C
ATOM	5991	OH	TYR	A	754	114.755	118.916	137.343	1.00	0.69	O
ATOM	5992	N	TYR	A	755	111.837	123.988	139.695	1.00	0.53	N
ATOM	5993	CA	TYR	A	755	112.553	125.166	139.245	1.00	0.53	C
ATOM	5994	C	TYR	A	755	114.032	124.833	139.119	1.00	0.53	C
ATOM	5995	O	TYR	A	755	114.456	123.714	139.400	1.00	0.53	O
ATOM	5996	CB	TYR	A	755	112.282	126.452	140.091	1.00	0.53	C
ATOM	5997	CG	TYR	A	755	112.762	126.419	141.524	1.00	0.53	C
ATOM	5998	CD1	TYR	A	755	114.028	126.932	141.858	1.00	0.53	C
ATOM	5999	CD2	TYR	A	755	111.902	126.013	142.561	1.00	0.53	C
ATOM	6000	CE1	TYR	A	755	114.414	127.064	143.198	1.00	0.53	C
ATOM	6001	CE2	TYR	A	755	112.283	126.158	143.906	1.00	0.53	C
ATOM	6002	CZ	TYR	A	755	113.538	126.694	144.220	1.00	0.53	C
ATOM	6003	OH	TYR	A	755	113.932	126.944	145.550	1.00	0.53	O
ATOM	6004	N	LYS	A	756	114.862	125.779	138.631	1.00	0.50	N
ATOM	6005	CA	LYS	A	756	116.287	125.562	138.469	1.00	0.50	C
ATOM	6006	C	LYS	A	756	117.033	126.836	138.800	1.00	0.50	C
ATOM	6007	O	LYS	A	756	116.566	127.934	138.509	1.00	0.50	O
ATOM	6008	CB	LYS	A	756	116.682	125.182	137.017	1.00	0.50	C
ATOM	6009	CG	LYS	A	756	116.029	123.885	136.517	1.00	0.50	C
ATOM	6010	CD	LYS	A	756	116.627	123.383	135.193	1.00	0.50	C
ATOM	6011	CE	LYS	A	756	118.070	122.874	135.294	1.00	0.50	C
ATOM	6012	NZ	LYS	A	756	118.158	121.815	136.326	1.00	0.50	N
ATOM	6013	N	ASN	A	757	118.238	126.721	139.393	1.00	0.52	N
ATOM	6014	CA	ASN	A	757	119.045	127.872	139.737	1.00	0.52	C
ATOM	6015	C	ASN	A	757	120.508	127.440	139.810	1.00	0.52	C
ATOM	6016	O	ASN	A	757	120.831	126.259	139.691	1.00	0.52	O
ATOM	6017	CB	ASN	A	757	118.587	128.525	141.071	1.00	0.52	C
ATOM	6018	CG	ASN	A	757	118.945	130.004	141.119	1.00	0.52	C
ATOM	6019	OD1	ASN	A	757	119.612	130.503	140.209	1.00	0.52	O
ATOM	6020	ND2	ASN	A	757	118.543	130.698	142.203	1.00	0.52	N
ATOM	6021	N	LYS	A	758	121.432	128.412	139.939	1.00	0.55	N
ATOM	6022	CA	LYS	A	758	122.872	128.221	139.885	1.00	0.55	C
ATOM	6023	C	LYS	A	758	123.573	129.201	140.835	1.00	0.55	C
ATOM	6024	O	LYS	A	758	124.781	129.385	140.745	1.00	0.55	O
ATOM	6025	CB	LYS	A	758	123.396	128.484	138.437	1.00	0.55	C
ATOM	6026	CG	LYS	A	758	122.923	127.466	137.376	1.00	0.55	C
ATOM	6027	CD	LYS	A	758	122.943	127.978	135.918	1.00	0.55	C
ATOM	6028	CE	LYS	A	758	122.063	129.206	135.605	1.00	0.55	C
ATOM	6029	NZ	LYS	A	758	120.663	129.013	136.050	1.00	0.55	N
ATOM	6030	N	GLU	A	759	122.825	129.819	141.780	1.00	0.57	N
ATOM	6031	CA	GLU	A	759	123.219	130.994	142.563	1.00	0.57	C
ATOM	6032	C	GLU	A	759	124.304	130.764	143.623	1.00	0.57	C
ATOM	6033	O	GLU	A	759	124.947	131.705	144.077	1.00	0.57	O
ATOM	6034	CB	GLU	A	759	121.933	131.532	143.261	1.00	0.57	C



ATOM	6035	CG	GLU	A	759	122.004	132.947	143.914	1.00	0.57	C
ATOM	6036	CD	GLU	A	759	121.968	134.123	142.933	1.00	0.57	C
ATOM	6037	OE1	GLU	A	759	121.732	133.885	141.722	1.00	0.57	O
ATOM	6038	OE2	GLU	A	759	122.128	135.283	143.407	1.00	0.57	O
ATOM	6039	N	GLU	A	760	124.535	129.493	144.027	1.00	0.56	N
ATOM	6040	CA	GLU	A	760	125.438	129.103	145.108	1.00	0.56	C
ATOM	6041	C	GLU	A	760	124.876	129.395	146.501	1.00	0.56	C
ATOM	6042	O	GLU	A	760	125.209	130.367	147.172	1.00	0.56	O
ATOM	6043	CB	GLU	A	760	126.907	129.574	144.943	1.00	0.56	C
ATOM	6044	CG	GLU	A	760	127.917	128.846	145.866	1.00	0.56	C
ATOM	6045	CD	GLU	A	760	129.355	129.267	145.616	1.00	0.56	C
ATOM	6046	OE1	GLU	A	760	129.631	130.132	144.744	1.00	0.56	O
ATOM	6047	OE2	GLU	A	760	130.262	128.669	146.251	1.00	0.56	O
ATOM	6048	N	SER	A	761	123.952	128.537	146.990	1.00	0.55	N
ATOM	6049	CA	SER	A	761	123.345	128.741	148.303	1.00	0.55	C
ATOM	6050	C	SER	A	761	124.237	128.250	149.425	1.00	0.55	C
ATOM	6051	O	SER	A	761	124.579	127.072	149.520	1.00	0.55	O
ATOM	6052	CB	SER	A	761	121.951	128.080	148.469	1.00	0.55	C
ATOM	6053	OG	SER	A	761	121.365	128.377	149.743	1.00	0.55	O
ATOM	6054	N	THR	A	762	124.593	129.177	150.330	1.00	0.63	N
ATOM	6055	CA	THR	A	762	125.498	128.975	151.450	1.00	0.63	C
ATOM	6056	C	THR	A	762	124.739	128.792	152.753	1.00	0.63	C
ATOM	6057	O	THR	A	762	125.290	128.879	153.850	1.00	0.63	O
ATOM	6058	CB	THR	A	762	126.466	130.145	151.581	1.00	0.63	C
ATOM	6059	OG1	THR	A	762	125.780	131.391	151.651	1.00	0.63	O
ATOM	6060	CG2	THR	A	762	127.332	130.204	150.313	1.00	0.63	C
ATOM	6061	N	GLU	A	763	123.420	128.505	152.673	1.00	0.57	N
ATOM	6062	CA	GLU	A	763	122.580	128.199	153.820	1.00	0.57	C
ATOM	6063	C	GLU	A	763	123.048	126.950	154.564	1.00	0.57	C
ATOM	6064	O	GLU	A	763	123.052	125.836	154.036	1.00	0.57	O
ATOM	6065	CB	GLU	A	763	121.094	128.097	153.387	1.00	0.57	C
ATOM	6066	CG	GLU	A	763	120.029	128.148	154.519	1.00	0.57	C
ATOM	6067	CD	GLU	A	763	118.614	128.475	154.010	1.00	0.57	C
ATOM	6068	OE1	GLU	A	763	117.676	128.484	154.849	1.00	0.57	O
ATOM	6069	OE2	GLU	A	763	118.447	128.764	152.796	1.00	0.57	O
ATOM	6070	N	LEU	A	764	123.489	127.126	155.832	1.00	0.68	N
ATOM	6071	CA	LEU	A	764	124.252	126.154	156.601	1.00	0.68	C
ATOM	6072	C	LEU	A	764	123.563	124.817	156.771	1.00	0.68	C
ATOM	6073	O	LEU	A	764	124.188	123.760	156.794	1.00	0.68	O
ATOM	6074	CB	LEU	A	764	124.588	126.673	158.024	1.00	0.68	C
ATOM	6075	CG	LEU	A	764	125.137	128.112	158.079	1.00	0.68	C
ATOM	6076	CD1	LEU	A	764	124.043	129.107	158.499	1.00	0.68	C
ATOM	6077	CD2	LEU	A	764	126.327	128.189	159.045	1.00	0.68	C
ATOM	6078	N	ASN	A	765	122.228	124.850	156.910	1.00	0.61	N
ATOM	6079	CA	ASN	A	765	121.385	123.680	157.009	1.00	0.61	C
ATOM	6080	C	ASN	A	765	121.426	122.841	155.743	1.00	0.61	C
ATOM	6081	O	ASN	A	765	121.767	121.665	155.771	1.00	0.61	O
ATOM	6082	CB	ASN	A	765	119.931	124.138	157.292	1.00	0.61	C
ATOM	6083	CG	ASN	A	765	119.963	125.099	158.474	1.00	0.61	C
ATOM	6084	OD1	ASN	A	765	120.101	126.312	158.333	1.00	0.61	O
ATOM	6085	ND2	ASN	A	765	119.928	124.538	159.702	1.00	0.61	N
ATOM	6086	N	ALA	A	766	121.192	123.465	154.573	1.00	0.72	N
ATOM	6087	CA	ALA	A	766	121.228	122.802	153.290	1.00	0.72	C
ATOM	6088	C	ALA	A	766	122.614	122.278	152.929	1.00	0.72	C
ATOM	6089	O	ALA	A	766	122.766	121.204	152.340	1.00	0.72	O
ATOM	6090	CB	ALA	A	766	120.726	123.774	152.205	1.00	0.72	C
ATOM	6091	N	LEU	A	767	123.662	123.045	153.269	1.00	0.77	N
ATOM	6092	CA	LEU	A	767	125.048	122.641	153.171	1.00	0.77	C
ATOM	6093	C	LEU	A	767	125.425	121.467	154.081	1.00	0.77	C
ATOM	6094	O	LEU	A	767	126.101	120.532	153.656	1.00	0.77	O
ATOM	6095	CB	LEU	A	767	125.934	123.879	153.423	1.00	0.77	C
ATOM	6096	CG	LEU	A	767	127.429	123.703	153.104	1.00	0.77	C
ATOM	6097	CD1	LEU	A	767	127.694	123.155	151.691	1.00	0.77	C
ATOM	6098	CD2	LEU	A	767	128.137	125.051	153.276	1.00	0.77	C
ATOM	6099	N	GLY	A	768	124.938	121.440	155.342	1.00	0.83	N

ATOM	6100	CA	GLY	A	768	125.151	120.330	156.272	1.00	0.83	C
ATOM	6101	C	GLY	A	768	124.500	119.030	155.869	1.00	0.83	C
ATOM	6102	O	GLY	A	768	125.099	117.966	156.018	1.00	0.83	O
ATOM	6103	N	GLU	A	769	123.286	119.088	155.285	1.00	0.72	N
ATOM	6104	CA	GLU	A	769	122.630	117.937	154.678	1.00	0.72	C
ATOM	6105	C	GLU	A	769	123.392	117.393	153.476	1.00	0.72	C
ATOM	6106	O	GLU	A	769	123.423	116.191	153.218	1.00	0.72	O
ATOM	6107	CB	GLU	A	769	121.163	118.221	154.254	1.00	0.72	C
ATOM	6108	CG	GLU	A	769	120.235	118.730	155.389	1.00	0.72	C
ATOM	6109	CD	GLU	A	769	120.489	118.062	156.743	1.00	0.72	C
ATOM	6110	OE1	GLU	A	769	120.863	118.803	157.693	1.00	0.72	O
ATOM	6111	OE2	GLU	A	769	120.328	116.813	156.834	1.00	0.72	O
ATOM	6112	N	MET	A	770	124.059	118.275	152.694	1.00	0.75	N
ATOM	6113	CA	MET	A	770	124.974	117.821	151.657	1.00	0.75	C
ATOM	6114	C	MET	A	770	126.185	117.094	152.215	1.00	0.75	C
ATOM	6115	O	MET	A	770	126.507	116.004	151.756	1.00	0.75	O
ATOM	6116	CB	MET	A	770	125.484	118.974	150.762	1.00	0.75	C
ATOM	6117	CG	MET	A	770	126.285	118.487	149.535	1.00	0.75	C
ATOM	6118	SD	MET	A	770	126.925	119.829	148.498	1.00	0.75	S
ATOM	6119	CE	MET	A	770	128.383	120.191	149.509	1.00	0.75	C
ATOM	6120	N	TYR	A	771	126.849	117.643	153.261	1.00	0.79	N
ATOM	6121	CA	TYR	A	771	128.002	117.010	153.891	1.00	0.79	C
ATOM	6122	C	TYR	A	771	127.676	115.638	154.452	1.00	0.79	C
ATOM	6123	O	TYR	A	771	128.450	114.701	154.289	1.00	0.79	O
ATOM	6124	CB	TYR	A	771	128.605	117.862	155.043	1.00	0.79	C
ATOM	6125	CG	TYR	A	771	129.186	119.184	154.603	1.00	0.79	C
ATOM	6126	CD1	TYR	A	771	129.834	119.378	153.365	1.00	0.79	C
ATOM	6127	CD2	TYR	A	771	129.122	120.262	155.501	1.00	0.79	C
ATOM	6128	CE1	TYR	A	771	130.364	120.634	153.028	1.00	0.79	C
ATOM	6129	CE2	TYR	A	771	129.661	121.510	155.169	1.00	0.79	C
ATOM	6130	CZ	TYR	A	771	130.278	121.694	153.931	1.00	0.79	C
ATOM	6131	OH	TYR	A	771	130.763	122.966	153.573	1.00	0.79	O
ATOM	6132	N	LYS	A	772	126.487	115.476	155.067	1.00	0.78	N
ATOM	6133	CA	LYS	A	772	125.970	114.185	155.482	1.00	0.78	C
ATOM	6134	C	LYS	A	772	125.831	113.181	154.345	1.00	0.78	C
ATOM	6135	O	LYS	A	772	126.312	112.055	154.442	1.00	0.78	O
ATOM	6136	CB	LYS	A	772	124.569	114.394	156.098	1.00	0.78	C
ATOM	6137	CG	LYS	A	772	123.841	113.104	156.500	1.00	0.78	C
ATOM	6138	CD	LYS	A	772	122.451	113.416	157.058	1.00	0.78	C
ATOM	6139	CE	LYS	A	772	121.549	112.187	157.066	1.00	0.78	C
ATOM	6140	NZ	LYS	A	772	120.211	112.610	157.520	1.00	0.78	N
ATOM	6141	N	LYS	A	773	125.217	113.587	153.212	1.00	0.77	N
ATOM	6142	CA	LYS	A	773	124.994	112.733	152.055	1.00	0.77	C
ATOM	6143	C	LYS	A	773	126.282	112.192	151.446	1.00	0.77	C
ATOM	6144	O	LYS	A	773	126.349	111.044	151.005	1.00	0.77	O
ATOM	6145	CB	LYS	A	773	124.170	113.483	150.973	1.00	0.77	C
ATOM	6146	CG	LYS	A	773	123.930	112.661	149.692	1.00	0.77	C
ATOM	6147	CD	LYS	A	773	123.109	113.402	148.625	1.00	0.77	C
ATOM	6148	CE	LYS	A	773	123.124	112.665	147.280	1.00	0.77	C
ATOM	6149	NZ	LYS	A	773	122.539	113.503	146.216	1.00	0.77	N
ATOM	6150	N	ILE	A	774	127.356	113.007	151.425	1.00	0.80	N
ATOM	6151	CA	ILE	A	774	128.670	112.590	150.953	1.00	0.80	C
ATOM	6152	C	ILE	A	774	129.245	111.423	151.758	1.00	0.80	C
ATOM	6153	O	ILE	A	774	129.816	110.487	151.198	1.00	0.80	O
ATOM	6154	CB	ILE	A	774	129.668	113.755	150.935	1.00	0.80	C
ATOM	6155	CG1	ILE	A	774	129.191	114.973	150.098	1.00	0.80	C
ATOM	6156	CG2	ILE	A	774	131.043	113.289	150.410	1.00	0.80	C
ATOM	6157	CD1	ILE	A	774	128.568	114.646	148.736	1.00	0.80	C
ATOM	6158	N	VAL	A	775	129.081	111.431	153.097	1.00	0.80	N
ATOM	6159	CA	VAL	A	775	129.731	110.484	153.990	1.00	0.80	C
ATOM	6160	C	VAL	A	775	128.750	109.549	154.706	1.00	0.80	C
ATOM	6161	O	VAL	A	775	128.924	109.129	155.846	1.00	0.80	O
ATOM	6162	CB	VAL	A	775	130.768	111.179	154.871	1.00	0.80	C
ATOM	6163	CG1	VAL	A	775	130.148	112.194	155.849	1.00	0.80	C
ATOM	6164	CG2	VAL	A	775	131.663	110.156	155.586	1.00	0.80	C

ATOM	6165	N	GLU	A	776	127.669	109.127	154.019	1.00	0.77	N
ATOM	6166	CA	GLU	A	776	126.797	108.079	154.537	1.00	0.77	C
ATOM	6167	C	GLU	A	776	127.457	106.697	154.676	1.00	0.77	C
ATOM	6168	O	GLU	A	776	127.368	106.045	155.711	1.00	0.77	O
ATOM	6169	CB	GLU	A	776	125.559	107.894	153.616	1.00	0.77	C
ATOM	6170	CG	GLU	A	776	124.551	109.073	153.624	1.00	0.77	C
ATOM	6171	CD	GLU	A	776	123.160	108.677	154.123	1.00	0.77	C
ATOM	6172	OE1	GLU	A	776	122.620	107.678	153.561	1.00	0.77	O
ATOM	6173	OE2	GLU	A	776	122.611	109.361	155.025	1.00	0.77	O
ATOM	6174	N	ILE	A	777	128.157	106.201	153.631	1.00	0.77	N
ATOM	6175	CA	ILE	A	777	128.507	104.781	153.545	1.00	0.77	C
ATOM	6176	C	ILE	A	777	129.969	104.469	153.830	1.00	0.77	C
ATOM	6177	O	ILE	A	777	130.403	103.329	153.689	1.00	0.77	O
ATOM	6178	CB	ILE	A	777	128.124	104.168	152.193	1.00	0.77	C
ATOM	6179	CG1	ILE	A	777	128.618	104.940	150.945	1.00	0.77	C
ATOM	6180	CG2	ILE	A	777	126.584	104.041	152.137	1.00	0.77	C
ATOM	6181	CD1	ILE	A	777	130.128	105.181	150.818	1.00	0.77	C
ATOM	6182	N	GLU	A	778	130.790	105.457	154.246	1.00	0.73	N
ATOM	6183	CA	GLU	A	778	132.229	105.283	154.467	1.00	0.73	C
ATOM	6184	C	GLU	A	778	132.527	104.264	155.568	1.00	0.73	C
ATOM	6185	O	GLU	A	778	133.422	103.426	155.486	1.00	0.73	O
ATOM	6186	CB	GLU	A	778	132.884	106.658	154.760	1.00	0.73	C
ATOM	6187	CG	GLU	A	778	134.431	106.665	154.918	1.00	0.73	C
ATOM	6188	CD	GLU	A	778	135.192	106.255	153.658	1.00	0.73	C
ATOM	6189	OE1	GLU	A	778	135.072	106.964	152.624	1.00	0.73	O
ATOM	6190	OE2	GLU	A	778	135.937	105.247	153.703	1.00	0.73	O
ATOM	6191	N	ALA	A	779	131.682	104.242	156.616	1.00	0.72	N
ATOM	6192	CA	ALA	A	779	131.776	103.274	157.690	1.00	0.72	C
ATOM	6193	C	ALA	A	779	131.230	101.886	157.325	1.00	0.72	C
ATOM	6194	O	ALA	A	779	131.345	100.949	158.109	1.00	0.72	O
ATOM	6195	CB	ALA	A	779	131.053	103.811	158.941	1.00	0.72	C
ATOM	6196	N	GLU	A	780	130.674	101.705	156.105	1.00	0.72	N
ATOM	6197	CA	GLU	A	780	130.253	100.410	155.592	1.00	0.72	C
ATOM	6198	C	GLU	A	780	131.376	99.749	154.791	1.00	0.72	C
ATOM	6199	O	GLU	A	780	131.163	98.753	154.097	1.00	0.72	O
ATOM	6200	CB	GLU	A	780	129.022	100.518	154.647	1.00	0.72	C
ATOM	6201	CG	GLU	A	780	127.717	101.081	155.266	1.00	0.72	C
ATOM	6202	CD	GLU	A	780	126.573	101.111	154.257	1.00	0.72	C
ATOM	6203	OE1	GLU	A	780	126.754	100.660	153.094	1.00	0.72	O
ATOM	6204	OE2	GLU	A	780	125.453	101.556	154.595	1.00	0.72	O
ATOM	6205	N	LYS	A	781	132.623	100.274	154.867	1.00	0.73	N
ATOM	6206	CA	LYS	A	781	133.800	99.650	154.284	1.00	0.73	C
ATOM	6207	C	LYS	A	781	134.026	98.207	154.759	1.00	0.73	C
ATOM	6208	O	LYS	A	781	133.854	97.928	155.944	1.00	0.73	O
ATOM	6209	CB	LYS	A	781	135.097	100.445	154.614	1.00	0.73	C
ATOM	6210	CG	LYS	A	781	135.562	101.374	153.487	1.00	0.73	C
ATOM	6211	CD	LYS	A	781	137.060	101.731	153.571	1.00	0.73	C
ATOM	6212	CE	LYS	A	781	137.996	100.592	153.125	1.00	0.73	C
ATOM	6213	NZ	LYS	A	781	139.324	101.108	152.752	1.00	0.73	N
ATOM	6214	N	PRO	A	782	134.452	97.255	153.925	1.00	0.75	N
ATOM	6215	CA	PRO	A	782	134.456	95.841	154.305	1.00	0.75	C
ATOM	6216	C	PRO	A	782	135.635	95.495	155.194	1.00	0.75	C
ATOM	6217	O	PRO	A	782	135.693	94.380	155.701	1.00	0.75	O
ATOM	6218	CB	PRO	A	782	134.558	95.113	152.951	1.00	0.75	C
ATOM	6219	CG	PRO	A	782	135.281	96.105	152.038	1.00	0.75	C
ATOM	6220	CD	PRO	A	782	134.716	97.446	152.497	1.00	0.75	C
ATOM	6221	N	ALA	A	783	136.620	96.411	155.329	1.00	0.73	N
ATOM	6222	CA	ALA	A	783	137.825	96.267	156.136	1.00	0.73	C
ATOM	6223	C	ALA	A	783	138.751	95.126	155.706	1.00	0.73	C
ATOM	6224	O	ALA	A	783	139.695	94.753	156.395	1.00	0.73	O
ATOM	6225	CB	ALA	A	783	137.476	96.206	157.637	1.00	0.73	C
ATOM	6226	N	SER	A	784	138.525	94.601	154.493	1.00	0.70	N
ATOM	6227	CA	SER	A	784	139.250	93.495	153.918	1.00	0.70	C
ATOM	6228	C	SER	A	784	139.421	93.836	152.461	1.00	0.70	C
ATOM	6229	O	SER	A	784	138.499	94.321	151.811	1.00	0.70	O

ATOM	6230	CB	SER	A	784	138.470	92.155	154.039	1.00	0.70	C
ATOM	6231	OG	SER	A	784	139.187	91.066	153.449	1.00	0.70	O
ATOM	6232	N	SER	A	785	140.621	93.602	151.906	1.00	0.67	N
ATOM	6233	CA	SER	A	785	140.958	93.965	150.534	1.00	0.67	C
ATOM	6234	C	SER	A	785	140.723	92.810	149.579	1.00	0.67	C
ATOM	6235	O	SER	A	785	141.279	92.778	148.488	1.00	0.67	O
ATOM	6236	CB	SER	A	785	142.437	94.426	150.394	1.00	0.67	C
ATOM	6237	OG	SER	A	785	142.676	95.562	151.227	1.00	0.67	O
ATOM	6238	N	GLU	A	786	139.898	91.818	149.976	1.00	0.70	N
ATOM	6239	CA	GLU	A	786	139.751	90.547	149.284	1.00	0.70	C
ATOM	6240	C	GLU	A	786	138.584	90.528	148.282	1.00	0.70	C
ATOM	6241	O	GLU	A	786	138.792	90.488	147.067	1.00	0.70	O
ATOM	6242	CB	GLU	A	786	139.643	89.458	150.382	1.00	0.70	C
ATOM	6243	CG	GLU	A	786	139.936	88.015	149.912	1.00	0.70	C
ATOM	6244	CD	GLU	A	786	138.678	87.251	149.523	1.00	0.70	C
ATOM	6245	OE1	GLU	A	786	138.004	86.747	150.458	1.00	0.70	O
ATOM	6246	OE2	GLU	A	786	138.401	87.152	148.299	1.00	0.70	O
ATOM	6247	N	TYR	A	787	137.315	90.688	148.728	1.00	0.77	N
ATOM	6248	CA	TYR	A	787	136.137	90.679	147.852	1.00	0.77	C
ATOM	6249	C	TYR	A	787	135.907	91.980	147.067	1.00	0.77	C
ATOM	6250	O	TYR	A	787	134.797	92.304	146.648	1.00	0.77	O
ATOM	6251	CB	TYR	A	787	134.834	90.406	148.657	1.00	0.77	C
ATOM	6252	CG	TYR	A	787	134.813	89.068	149.339	1.00	0.77	C
ATOM	6253	CD1	TYR	A	787	135.189	87.890	148.671	1.00	0.77	C
ATOM	6254	CD2	TYR	A	787	134.371	88.980	150.671	1.00	0.77	C
ATOM	6255	CE1	TYR	A	787	135.188	86.663	149.346	1.00	0.77	C
ATOM	6256	CE2	TYR	A	787	134.362	87.752	151.344	1.00	0.77	C
ATOM	6257	CZ	TYR	A	787	134.796	86.601	150.685	1.00	0.77	C
ATOM	6258	OH	TYR	A	787	134.995	85.408	151.395	1.00	0.77	O
ATOM	6259	N	LEU	A	788	136.977	92.752	146.806	1.00	0.83	N
ATOM	6260	CA	LEU	A	788	136.931	94.011	146.079	1.00	0.83	C
ATOM	6261	C	LEU	A	788	137.589	93.874	144.725	1.00	0.83	C
ATOM	6262	O	LEU	A	788	138.023	94.860	144.110	1.00	0.83	O
ATOM	6263	CB	LEU	A	788	137.607	95.145	146.882	1.00	0.83	C
ATOM	6264	CG	LEU	A	788	136.905	95.463	148.217	1.00	0.83	C
ATOM	6265	CD1	LEU	A	788	137.593	96.650	148.897	1.00	0.83	C
ATOM	6266	CD2	LEU	A	788	135.413	95.768	148.014	1.00	0.83	C
ATOM	6267	N	GLY	A	789	137.666	92.632	144.219	1.00	0.86	N
ATOM	6268	CA	GLY	A	789	138.272	92.342	142.939	1.00	0.86	C
ATOM	6269	C	GLY	A	789	138.974	91.029	142.842	1.00	0.86	C
ATOM	6270	O	GLY	A	789	139.261	90.605	141.730	1.00	0.86	O
ATOM	6271	N	TRP	A	790	139.305	90.344	143.954	1.00	0.78	N
ATOM	6272	CA	TRP	A	790	140.053	89.100	143.865	1.00	0.78	C
ATOM	6273	C	TRP	A	790	139.145	87.867	143.764	1.00	0.78	C
ATOM	6274	O	TRP	A	790	139.188	87.133	142.775	1.00	0.78	O
ATOM	6275	CB	TRP	A	790	141.003	88.974	145.089	1.00	0.78	C
ATOM	6276	CG	TRP	A	790	142.018	90.111	145.216	1.00	0.78	C
ATOM	6277	CD1	TRP	A	790	141.841	91.367	145.733	1.00	0.78	C
ATOM	6278	CD2	TRP	A	790	143.403	90.035	144.824	1.00	0.78	C
ATOM	6279	NE1	TRP	A	790	143.020	92.081	145.680	1.00	0.78	N
ATOM	6280	CE2	TRP	A	790	143.990	91.283	145.130	1.00	0.78	C
ATOM	6281	CE3	TRP	A	790	144.156	89.005	144.265	1.00	0.78	C
ATOM	6282	CZ2	TRP	A	790	145.336	91.522	144.885	1.00	0.78	C
ATOM	6283	CZ3	TRP	A	790	145.517	89.248	144.024	1.00	0.78	C
ATOM	6284	CH2	TRP	A	790	146.101	90.485	144.333	1.00	0.78	C
ATOM	6285	N	GLY	A	791	138.292	87.616	144.779	1.00	0.82	N
ATOM	6286	CA	GLY	A	791	137.411	86.449	144.846	1.00	0.82	C
ATOM	6287	C	GLY	A	791	136.022	86.629	144.276	1.00	0.82	C
ATOM	6288	O	GLY	A	791	135.670	87.664	143.710	1.00	0.82	O
ATOM	6289	N	ASP	A	792	135.194	85.575	144.436	1.00	0.83	N
ATOM	6290	CA	ASP	A	792	133.849	85.472	143.901	1.00	0.83	C
ATOM	6291	C	ASP	A	792	132.869	85.064	145.016	1.00	0.83	C
ATOM	6292	O	ASP	A	792	133.129	84.133	145.772	1.00	0.83	O
ATOM	6293	CB	ASP	A	792	133.834	84.422	142.759	1.00	0.83	C
ATOM	6294	CG	ASP	A	792	134.763	84.878	141.647	1.00	0.83	C

ATOM	6295	OD1	ASP	A	792	134.484	85.967	141.090	1.00	0.83	O
ATOM	6296	OD2	ASP	A	792	135.758	84.187	141.306	1.00	0.83	O
ATOM	6297	N	THR	A	793	131.713	85.766	145.160	1.00	0.82	N
ATOM	6298	CA	THR	A	793	130.870	85.694	146.370	1.00	0.82	C
ATOM	6299	C	THR	A	793	129.377	85.665	146.047	1.00	0.82	C
ATOM	6300	O	THR	A	793	128.886	86.478	145.271	1.00	0.82	O
ATOM	6301	CB	THR	A	793	131.159	86.872	147.317	1.00	0.82	C
ATOM	6302	OG1	THR	A	793	132.337	86.583	148.041	1.00	0.82	O
ATOM	6303	CG2	THR	A	793	130.090	87.133	148.386	1.00	0.82	C
ATOM	6304	N	SER	A	794	128.599	84.710	146.639	1.00	0.85	N
ATOM	6305	CA	SER	A	794	127.124	84.612	146.511	1.00	0.85	C
ATOM	6306	C	SER	A	794	126.327	85.713	147.242	1.00	0.85	C
ATOM	6307	O	SER	A	794	125.322	86.244	146.751	1.00	0.85	O
ATOM	6308	CB	SER	A	794	126.550	83.210	146.933	1.00	0.85	C
ATOM	6309	OG	SER	A	794	125.132	83.129	146.724	1.00	0.85	O
ATOM	6310	N	SER	A	795	126.753	86.090	148.470	1.00	0.84	N
ATOM	6311	CA	SER	A	795	126.068	87.078	149.311	1.00	0.84	C
ATOM	6312	C	SER	A	795	126.977	88.270	149.618	1.00	0.84	C
ATOM	6313	O	SER	A	795	127.546	88.326	150.718	1.00	0.84	O
ATOM	6314	CB	SER	A	795	125.547	86.441	150.634	1.00	0.84	C
ATOM	6315	OG	SER	A	795	124.738	87.346	151.393	1.00	0.84	O
ATOM	6316	N	PRO	A	796	127.179	89.203	148.673	1.00	0.85	N
ATOM	6317	CA	PRO	A	796	128.172	90.269	148.779	1.00	0.85	C
ATOM	6318	C	PRO	A	796	127.791	91.312	149.807	1.00	0.85	C
ATOM	6319	O	PRO	A	796	126.610	91.536	150.077	1.00	0.85	O
ATOM	6320	CB	PRO	A	796	128.209	90.869	147.361	1.00	0.85	C
ATOM	6321	CG	PRO	A	796	126.786	90.674	146.839	1.00	0.85	C
ATOM	6322	CD	PRO	A	796	126.402	89.319	147.431	1.00	0.85	C
ATOM	6323	N	LYS	A	797	128.794	91.937	150.438	1.00	0.77	N
ATOM	6324	CA	LYS	A	797	128.590	93.039	151.350	1.00	0.77	C
ATOM	6325	C	LYS	A	797	128.596	94.368	150.618	1.00	0.77	C
ATOM	6326	O	LYS	A	797	128.701	94.463	149.400	1.00	0.77	O
ATOM	6327	CB	LYS	A	797	129.583	93.038	152.543	1.00	0.77	C
ATOM	6328	CG	LYS	A	797	129.833	91.645	153.157	1.00	0.77	C
ATOM	6329	CD	LYS	A	797	128.573	90.869	153.572	1.00	0.77	C
ATOM	6330	CE	LYS	A	797	128.859	89.373	153.718	1.00	0.77	C
ATOM	6331	NZ	LYS	A	797	127.586	88.625	153.680	1.00	0.77	N
ATOM	6332	N	ARG	A	798	128.432	95.460	151.378	1.00	0.70	N
ATOM	6333	CA	ARG	A	798	127.989	96.763	150.925	1.00	0.70	C
ATOM	6334	C	ARG	A	798	128.823	97.460	149.846	1.00	0.70	C
ATOM	6335	O	ARG	A	798	128.306	98.293	149.105	1.00	0.70	O
ATOM	6336	CB	ARG	A	798	127.868	97.659	152.179	1.00	0.70	C
ATOM	6337	CG	ARG	A	798	126.922	97.112	153.282	1.00	0.70	C
ATOM	6338	CD	ARG	A	798	125.430	97.094	152.922	1.00	0.70	C
ATOM	6339	NE	ARG	A	798	125.051	98.528	152.803	1.00	0.70	N
ATOM	6340	CZ	ARG	A	798	124.349	99.075	151.810	1.00	0.70	C
ATOM	6341	NH1	ARG	A	798	123.585	98.362	150.994	1.00	0.70	N
ATOM	6342	NH2	ARG	A	798	124.488	100.384	151.631	1.00	0.70	N
ATOM	6343	N	HIS	A	799	130.119	97.125	149.707	1.00	0.79	N
ATOM	6344	CA	HIS	A	799	130.979	97.675	148.665	1.00	0.79	C
ATOM	6345	C	HIS	A	799	131.589	96.591	147.781	1.00	0.79	C
ATOM	6346	O	HIS	A	799	132.508	96.854	147.008	1.00	0.79	O
ATOM	6347	CB	HIS	A	799	132.115	98.497	149.314	1.00	0.79	C
ATOM	6348	CG	HIS	A	799	131.601	99.769	149.920	1.00	0.79	C
ATOM	6349	ND1	HIS	A	799	131.773	100.950	149.226	1.00	0.79	N
ATOM	6350	CD2	HIS	A	799	130.869	99.987	151.044	1.00	0.79	C
ATOM	6351	CE1	HIS	A	799	131.133	101.861	149.933	1.00	0.79	C
ATOM	6352	NE2	HIS	A	799	130.575	101.334	151.048	1.00	0.79	N
ATOM	6353	N	GLU	A	800	131.099	95.339	147.872	1.00	0.82	N
ATOM	6354	CA	GLU	A	800	131.717	94.190	147.232	1.00	0.82	C
ATOM	6355	C	GLU	A	800	131.127	93.878	145.868	1.00	0.82	C
ATOM	6356	O	GLU	A	800	130.098	94.411	145.455	1.00	0.82	O
ATOM	6357	CB	GLU	A	800	131.609	92.941	148.133	1.00	0.82	C
ATOM	6358	CG	GLU	A	800	132.327	93.115	149.491	1.00	0.82	C
ATOM	6359	CD	GLU	A	800	132.134	91.918	150.410	1.00	0.82	C

ATOM	6360	OE1	GLU	A	800	131.366	90.985	150.053	1.00	0.82	O
ATOM	6361	OE2	GLU	A	800	132.703	91.970	151.529	1.00	0.82	O
ATOM	6362	N	PHE	A	801	131.806	93.005	145.099	1.00	0.85	N
ATOM	6363	CA	PHE	A	801	131.307	92.556	143.817	1.00	0.85	C
ATOM	6364	C	PHE	A	801	131.998	91.255	143.444	1.00	0.85	C
ATOM	6365	O	PHE	A	801	133.053	90.917	143.971	1.00	0.85	O
ATOM	6366	CB	PHE	A	801	131.430	93.631	142.689	1.00	0.85	C
ATOM	6367	CG	PHE	A	801	132.845	94.102	142.477	1.00	0.85	C
ATOM	6368	CD1	PHE	A	801	133.405	95.115	143.277	1.00	0.85	C
ATOM	6369	CD2	PHE	A	801	133.635	93.506	141.482	1.00	0.85	C
ATOM	6370	CE1	PHE	A	801	134.730	95.524	143.084	1.00	0.85	C
ATOM	6371	CE2	PHE	A	801	134.961	93.908	141.291	1.00	0.85	C
ATOM	6372	CZ	PHE	A	801	135.504	94.925	142.082	1.00	0.85	C
ATOM	6373	N	SER	A	802	131.401	90.471	142.527	1.00	0.87	N
ATOM	6374	CA	SER	A	802	131.958	89.193	142.097	1.00	0.87	C
ATOM	6375	C	SER	A	802	132.790	89.374	140.830	1.00	0.87	C
ATOM	6376	O	SER	A	802	132.309	89.886	139.816	1.00	0.87	O
ATOM	6377	CB	SER	A	802	130.821	88.153	141.883	1.00	0.87	C
ATOM	6378	OG	SER	A	802	131.313	86.862	141.524	1.00	0.87	O
ATOM	6379	N	ARG	A	803	134.084	88.978	140.861	1.00	0.80	N
ATOM	6380	CA	ARG	A	803	135.033	89.138	139.764	1.00	0.80	C
ATOM	6381	C	ARG	A	803	134.645	88.347	138.515	1.00	0.80	C
ATOM	6382	O	ARG	A	803	134.713	88.836	137.384	1.00	0.80	O
ATOM	6383	CB	ARG	A	803	136.449	88.696	140.232	1.00	0.80	C
ATOM	6384	CG	ARG	A	803	137.541	88.788	139.137	1.00	0.80	C
ATOM	6385	CD	ARG	A	803	138.937	88.251	139.502	1.00	0.80	C
ATOM	6386	NE	ARG	A	803	138.780	86.860	140.027	1.00	0.80	N
ATOM	6387	CZ	ARG	A	803	138.526	85.769	139.295	1.00	0.80	C
ATOM	6388	NH1	ARG	A	803	138.758	85.746	137.984	1.00	0.80	N
ATOM	6389	NH2	ARG	A	803	138.047	84.675	139.878	1.00	0.80	N
ATOM	6390	N	SER	A	804	134.197	87.093	138.713	1.00	0.87	N
ATOM	6391	CA	SER	A	804	133.719	86.155	137.707	1.00	0.87	C
ATOM	6392	C	SER	A	804	132.527	86.712	136.939	1.00	0.87	C
ATOM	6393	O	SER	A	804	132.494	86.710	135.709	1.00	0.87	O
ATOM	6394	CB	SER	A	804	133.355	84.800	138.389	1.00	0.87	C
ATOM	6395	OG	SER	A	804	132.969	83.788	137.455	1.00	0.87	O
ATOM	6396	N	PHE	A	805	131.546	87.309	137.651	1.00	0.87	N
ATOM	6397	CA	PHE	A	805	130.400	87.963	137.030	1.00	0.87	C
ATOM	6398	C	PHE	A	805	130.782	89.176	136.186	1.00	0.87	C
ATOM	6399	O	PHE	A	805	130.277	89.345	135.075	1.00	0.87	O
ATOM	6400	CB	PHE	A	805	129.313	88.364	138.068	1.00	0.87	C
ATOM	6401	CG	PHE	A	805	128.327	87.238	138.276	1.00	0.87	C
ATOM	6402	CD1	PHE	A	805	128.713	86.021	138.864	1.00	0.87	C
ATOM	6403	CD2	PHE	A	805	126.995	87.387	137.848	1.00	0.87	C
ATOM	6404	CE1	PHE	A	805	127.789	84.978	139.025	1.00	0.87	C
ATOM	6405	CE2	PHE	A	805	126.073	86.343	137.992	1.00	0.87	C
ATOM	6406	CZ	PHE	A	805	126.469	85.138	138.585	1.00	0.87	C
ATOM	6407	N	LEU	A	806	131.720	90.032	136.656	1.00	0.89	N
ATOM	6408	CA	LEU	A	806	132.230	91.141	135.855	1.00	0.89	C
ATOM	6409	C	LEU	A	806	132.898	90.696	134.565	1.00	0.89	C
ATOM	6410	O	LEU	A	806	132.673	91.286	133.510	1.00	0.89	O
ATOM	6411	CB	LEU	A	806	133.254	92.025	136.619	1.00	0.89	C
ATOM	6412	CG	LEU	A	806	132.674	93.260	137.339	1.00	0.89	C
ATOM	6413	CD1	LEU	A	806	133.836	94.063	137.940	1.00	0.89	C
ATOM	6414	CD2	LEU	A	806	131.873	94.183	136.405	1.00	0.89	C
ATOM	6415	N	LYS	A	807	133.717	89.625	134.599	1.00	0.86	N
ATOM	6416	CA	LYS	A	807	134.370	89.120	133.404	1.00	0.86	C
ATOM	6417	C	LYS	A	807	133.378	88.645	132.341	1.00	0.86	C
ATOM	6418	O	LYS	A	807	133.508	88.984	131.167	1.00	0.86	O
ATOM	6419	CB	LYS	A	807	135.402	88.017	133.740	1.00	0.86	C
ATOM	6420	CG	LYS	A	807	136.445	87.825	132.622	1.00	0.86	C
ATOM	6421	CD	LYS	A	807	137.450	86.704	132.927	1.00	0.86	C
ATOM	6422	CE	LYS	A	807	138.480	86.454	131.814	1.00	0.86	C
ATOM	6423	NZ	LYS	A	807	139.661	87.316	131.995	1.00	0.86	N
ATOM	6424	N	SER	A	808	132.308	87.925	132.745	1.00	0.88	N

ATOM	6425	CA	SER	A	808	131.204	87.529	131.867	1.00	0.88	C
ATOM	6426	C	SER	A	808	130.493	88.698	131.214	1.00	0.88	C
ATOM	6427	O	SER	A	808	130.188	88.684	130.022	1.00	0.88	O
ATOM	6428	CB	SER	A	808	130.093	86.773	132.639	1.00	0.88	C
ATOM	6429	OG	SER	A	808	130.606	85.560	133.172	1.00	0.88	O
ATOM	6430	N	ALA	A	809	130.224	89.766	131.989	1.00	0.92	N
ATOM	6431	CA	ALA	A	809	129.633	90.994	131.501	1.00	0.92	C
ATOM	6432	C	ALA	A	809	130.498	91.735	130.478	1.00	0.92	C
ATOM	6433	O	ALA	A	809	130.009	92.179	129.438	1.00	0.92	O
ATOM	6434	CB	ALA	A	809	129.300	91.888	132.710	1.00	0.92	C
ATOM	6435	N	CYS	A	810	131.823	91.837	130.722	1.00	0.89	N
ATOM	6436	CA	CYS	A	810	132.775	92.406	129.774	1.00	0.89	C
ATOM	6437	C	CYS	A	810	132.862	91.637	128.465	1.00	0.89	C
ATOM	6438	O	CYS	A	810	132.785	92.226	127.388	1.00	0.89	O
ATOM	6439	CB	CYS	A	810	134.208	92.471	130.364	1.00	0.89	C
ATOM	6440	SG	CYS	A	810	134.338	93.570	131.808	1.00	0.89	S
ATOM	6441	N	ILE	A	811	132.952	90.288	128.525	1.00	0.87	N
ATOM	6442	CA	ILE	A	811	132.969	89.418	127.351	1.00	0.87	C
ATOM	6443	C	ILE	A	811	131.671	89.538	126.555	1.00	0.87	C
ATOM	6444	O	ILE	A	811	131.679	89.617	125.329	1.00	0.87	O
ATOM	6445	CB	ILE	A	811	133.249	87.955	127.715	1.00	0.87	C
ATOM	6446	CG1	ILE	A	811	134.620	87.802	128.418	1.00	0.87	C
ATOM	6447	CG2	ILE	A	811	133.250	87.070	126.445	1.00	0.87	C
ATOM	6448	CD1	ILE	A	811	134.758	86.471	129.172	1.00	0.87	C
ATOM	6449	N	SER	A	812	130.502	89.615	127.232	1.00	0.89	N
ATOM	6450	CA	SER	A	812	129.212	89.834	126.574	1.00	0.89	C
ATOM	6451	C	SER	A	812	129.128	91.148	125.808	1.00	0.89	C
ATOM	6452	O	SER	A	812	128.695	91.189	124.655	1.00	0.89	O
ATOM	6453	CB	SER	A	812	128.031	89.777	127.585	1.00	0.89	C
ATOM	6454	OG	SER	A	812	126.764	89.636	126.935	1.00	0.89	O
ATOM	6455	N	LEU	A	813	129.586	92.272	126.405	1.00	0.87	N
ATOM	6456	CA	LEU	A	813	129.654	93.543	125.698	1.00	0.87	C
ATOM	6457	C	LEU	A	813	130.677	93.569	124.572	1.00	0.87	C
ATOM	6458	O	LEU	A	813	130.379	94.031	123.471	1.00	0.87	O
ATOM	6459	CB	LEU	A	813	129.893	94.735	126.656	1.00	0.87	C
ATOM	6460	CG	LEU	A	813	129.780	96.124	125.978	1.00	0.87	C
ATOM	6461	CD1	LEU	A	813	128.373	96.388	125.416	1.00	0.87	C
ATOM	6462	CD2	LEU	A	813	130.153	97.255	126.944	1.00	0.87	C
ATOM	6463	N	GLU	A	814	131.893	93.026	124.795	1.00	0.85	N
ATOM	6464	CA	GLU	A	814	132.923	92.931	123.775	1.00	0.85	C
ATOM	6465	C	GLU	A	814	132.474	92.091	122.585	1.00	0.85	C
ATOM	6466	O	GLU	A	814	132.642	92.474	121.427	1.00	0.85	O
ATOM	6467	CB	GLU	A	814	134.243	92.405	124.387	1.00	0.85	C
ATOM	6468	CG	GLU	A	814	135.442	92.488	123.413	1.00	0.85	C
ATOM	6469	CD	GLU	A	814	136.787	92.321	124.107	1.00	0.85	C
ATOM	6470	OE1	GLU	A	814	136.922	91.399	124.948	1.00	0.85	O
ATOM	6471	OE2	GLU	A	814	137.716	93.121	123.813	1.00	0.85	O
ATOM	6472	N	LYS	A	815	131.787	90.959	122.849	1.00	0.79	N
ATOM	6473	CA	LYS	A	815	131.152	90.165	121.819	1.00	0.79	C
ATOM	6474	C	LYS	A	815	130.041	90.878	121.035	1.00	0.79	C
ATOM	6475	O	LYS	A	815	129.984	90.786	119.812	1.00	0.79	O
ATOM	6476	CB	LYS	A	815	130.672	88.797	122.348	1.00	0.79	C
ATOM	6477	CG	LYS	A	815	130.358	87.818	121.203	1.00	0.79	C
ATOM	6478	CD	LYS	A	815	129.748	86.504	121.699	1.00	0.79	C
ATOM	6479	CE	LYS	A	815	129.107	85.664	120.591	1.00	0.79	C
ATOM	6480	NZ	LYS	A	815	130.128	84.908	119.851	1.00	0.79	N
ATOM	6481	N	GLU	A	816	129.129	91.640	121.688	1.00	0.77	N
ATOM	6482	CA	GLU	A	816	128.111	92.408	120.968	1.00	0.77	C
ATOM	6483	C	GLU	A	816	128.716	93.519	120.095	1.00	0.77	C
ATOM	6484	O	GLU	A	816	128.296	93.750	118.959	1.00	0.77	O
ATOM	6485	CB	GLU	A	816	126.966	92.905	121.906	1.00	0.77	C
ATOM	6486	CG	GLU	A	816	125.828	93.653	121.147	1.00	0.77	C
ATOM	6487	CD	GLU	A	816	124.387	93.442	121.616	1.00	0.77	C
ATOM	6488	OE1	GLU	A	816	123.507	93.235	120.737	1.00	0.77	O
ATOM	6489	OE2	GLU	A	816	124.060	93.541	122.824	1.00	0.77	O

ATOM	6490	N	ILE	A	817	129.781	94.195	120.577	1.00	0.82	N
ATOM	6491	CA	ILE	A	817	130.570	95.138	119.785	1.00	0.82	C
ATOM	6492	C	ILE	A	817	131.259	94.506	118.565	1.00	0.82	C
ATOM	6493	O	ILE	A	817	131.162	95.051	117.462	1.00	0.82	O
ATOM	6494	CB	ILE	A	817	131.553	95.906	120.678	1.00	0.82	C
ATOM	6495	CG1	ILE	A	817	130.752	96.905	121.554	1.00	0.82	C
ATOM	6496	CG2	ILE	A	817	132.643	96.640	119.857	1.00	0.82	C
ATOM	6497	CD1	ILE	A	817	131.575	97.546	122.676	1.00	0.82	C
ATOM	6498	N	GLU	A	818	131.910	93.321	118.692	1.00	0.72	N
ATOM	6499	CA	GLU	A	818	132.621	92.683	117.580	1.00	0.72	C
ATOM	6500	C	GLU	A	818	131.717	92.019	116.539	1.00	0.72	C
ATOM	6501	O	GLU	A	818	132.187	91.577	115.491	1.00	0.72	O
ATOM	6502	CB	GLU	A	818	133.713	91.654	118.022	1.00	0.72	C
ATOM	6503	CG	GLU	A	818	133.184	90.290	118.551	1.00	0.72	C
ATOM	6504	CD	GLU	A	818	134.099	89.083	118.383	1.00	0.72	C
ATOM	6505	OE1	GLU	A	818	135.301	89.223	118.037	1.00	0.72	O
ATOM	6506	OE2	GLU	A	818	133.566	87.933	118.456	1.00	0.72	O
ATOM	6507	N	MET	A	819	130.399	91.904	116.814	1.00	0.65	N
ATOM	6508	CA	MET	A	819	129.426	91.416	115.848	1.00	0.65	C
ATOM	6509	C	MET	A	819	128.617	92.535	115.195	1.00	0.65	C
ATOM	6510	O	MET	A	819	128.133	92.396	114.070	1.00	0.65	O
ATOM	6511	CB	MET	A	819	128.422	90.469	116.546	1.00	0.65	C
ATOM	6512	CG	MET	A	819	129.062	89.155	117.028	1.00	0.65	C
ATOM	6513	SD	MET	A	819	127.907	88.083	117.933	1.00	0.65	S
ATOM	6514	CE	MET	A	819	126.903	87.541	116.521	1.00	0.65	C
ATOM	6515	N	ARG	A	820	128.440	93.697	115.861	1.00	0.63	N
ATOM	6516	CA	ARG	A	820	127.844	94.868	115.231	1.00	0.63	C
ATOM	6517	C	ARG	A	820	128.780	95.515	114.214	1.00	0.63	C
ATOM	6518	O	ARG	A	820	128.384	95.846	113.090	1.00	0.63	O
ATOM	6519	CB	ARG	A	820	127.435	95.912	116.311	1.00	0.63	C
ATOM	6520	CG	ARG	A	820	127.090	97.337	115.803	1.00	0.63	C
ATOM	6521	CD	ARG	A	820	125.961	97.438	114.764	1.00	0.63	C
ATOM	6522	NE	ARG	A	820	124.645	97.407	115.494	1.00	0.63	N
ATOM	6523	CZ	ARG	A	820	123.957	98.498	115.866	1.00	0.63	C
ATOM	6524	NH1	ARG	A	820	124.423	99.725	115.658	1.00	0.63	N
ATOM	6525	NH2	ARG	A	820	122.771	98.365	116.455	1.00	0.63	N
ATOM	6526	N	HIS	A	821	130.048	95.685	114.618	1.00	0.65	N
ATOM	6527	CA	HIS	A	821	131.126	96.237	113.828	1.00	0.65	C
ATOM	6528	C	HIS	A	821	131.951	95.084	113.302	1.00	0.65	C
ATOM	6529	O	HIS	A	821	131.802	93.952	113.745	1.00	0.65	O
ATOM	6530	CB	HIS	A	821	132.040	97.133	114.693	1.00	0.65	C
ATOM	6531	CG	HIS	A	821	131.318	98.315	115.257	1.00	0.65	C
ATOM	6532	ND1	HIS	A	821	131.214	99.458	114.492	1.00	0.65	N
ATOM	6533	CD2	HIS	A	821	130.721	98.497	116.464	1.00	0.65	C
ATOM	6534	CE1	HIS	A	821	130.560	100.320	115.248	1.00	0.65	C
ATOM	6535	NE2	HIS	A	821	130.237	99.789	116.455	1.00	0.65	N
ATOM	6536	N	GLY	A	822	132.843	95.314	112.318	1.00	0.60	N
ATOM	6537	CA	GLY	A	822	133.822	94.293	111.951	1.00	0.60	C
ATOM	6538	C	GLY	A	822	134.838	93.990	113.035	1.00	0.60	C
ATOM	6539	O	GLY	A	822	135.181	94.837	113.858	1.00	0.60	O
ATOM	6540	N	LYS	A	823	135.387	92.762	113.029	1.00	0.65	N
ATOM	6541	CA	LYS	A	823	136.540	92.393	113.830	1.00	0.65	C
ATOM	6542	C	LYS	A	823	137.806	93.165	113.465	1.00	0.65	C
ATOM	6543	O	LYS	A	823	137.934	93.683	112.359	1.00	0.65	O
ATOM	6544	CB	LYS	A	823	136.779	90.866	113.833	1.00	0.65	C
ATOM	6545	CG	LYS	A	823	135.600	90.125	114.477	1.00	0.65	C
ATOM	6546	CD	LYS	A	823	135.855	88.629	114.707	1.00	0.65	C
ATOM	6547	CE	LYS	A	823	134.620	87.958	115.318	1.00	0.65	C
ATOM	6548	NZ	LYS	A	823	135.004	87.059	116.421	1.00	0.65	N
ATOM	6549	N	SER	A	824	138.741	93.293	114.437	1.00	0.60	N
ATOM	6550	CA	SER	A	824	139.938	94.139	114.356	1.00	0.60	C
ATOM	6551	C	SER	A	824	139.618	95.609	114.557	1.00	0.60	C
ATOM	6552	O	SER	A	824	140.162	96.502	113.912	1.00	0.60	O
ATOM	6553	CB	SER	A	824	140.844	93.936	113.111	1.00	0.60	C
ATOM	6554	OG	SER	A	824	141.318	92.588	113.063	1.00	0.60	O



ATOM	6555	N	TRP	A	825	138.715	95.893	115.515	1.00	0.64	N
ATOM	6556	CA	TRP	A	825	138.237	97.224	115.838	1.00	0.64	C
ATOM	6557	C	TRP	A	825	139.080	97.926	116.907	1.00	0.64	C
ATOM	6558	O	TRP	A	825	139.022	99.148	117.053	1.00	0.64	O
ATOM	6559	CB	TRP	A	825	136.759	97.110	116.322	1.00	0.64	C
ATOM	6560	CG	TRP	A	825	136.543	96.096	117.438	1.00	0.64	C
ATOM	6561	CD1	TRP	A	825	136.282	94.756	117.334	1.00	0.64	C
ATOM	6562	CD2	TRP	A	825	136.696	96.368	118.845	1.00	0.64	C
ATOM	6563	NE1	TRP	A	825	136.351	94.156	118.573	1.00	0.64	N
ATOM	6564	CE2	TRP	A	825	136.590	95.135	119.512	1.00	0.64	C
ATOM	6565	CE3	TRP	A	825	136.924	97.554	119.546	1.00	0.64	C
ATOM	6566	CZ2	TRP	A	825	136.723	95.057	120.890	1.00	0.64	C
ATOM	6567	CZ3	TRP	A	825	137.026	97.477	120.945	1.00	0.64	C
ATOM	6568	CH2	TRP	A	825	136.924	96.247	121.608	1.00	0.64	C
ATOM	6569	N	LYS	A	826	139.920	97.178	117.663	1.00	0.77	N
ATOM	6570	CA	LYS	A	826	140.807	97.722	118.689	1.00	0.77	C
ATOM	6571	C	LYS	A	826	141.864	98.655	118.118	1.00	0.77	C
ATOM	6572	O	LYS	A	826	142.180	99.687	118.701	1.00	0.77	O
ATOM	6573	CB	LYS	A	826	141.459	96.616	119.574	1.00	0.77	C
ATOM	6574	CG	LYS	A	826	140.489	96.129	120.666	1.00	0.77	C
ATOM	6575	CD	LYS	A	826	141.036	95.090	121.672	1.00	0.77	C
ATOM	6576	CE	LYS	A	826	140.020	94.887	122.814	1.00	0.77	C
ATOM	6577	NZ	LYS	A	826	140.251	93.700	123.668	1.00	0.77	N
ATOM	6578	N	GLN	A	827	142.406	98.323	116.934	1.00	0.72	N
ATOM	6579	CA	GLN	A	827	143.346	99.124	116.177	1.00	0.72	C
ATOM	6580	C	GLN	A	827	142.771	100.475	115.751	1.00	0.72	C
ATOM	6581	O	GLN	A	827	143.381	101.522	115.956	1.00	0.72	O
ATOM	6582	CB	GLN	A	827	143.783	98.329	114.913	1.00	0.72	C
ATOM	6583	CG	GLN	A	827	144.592	97.027	115.186	1.00	0.72	C
ATOM	6584	CD	GLN	A	827	143.780	95.807	115.649	1.00	0.72	C
ATOM	6585	OE1	GLN	A	827	142.564	95.808	115.842	1.00	0.72	O
ATOM	6586	NE2	GLN	A	827	144.503	94.681	115.855	1.00	0.72	N
ATOM	6587	N	SER	A	828	141.535	100.490	115.207	1.00	0.75	N
ATOM	6588	CA	SER	A	828	140.815	101.708	114.845	1.00	0.75	C
ATOM	6589	C	SER	A	828	140.505	102.590	116.040	1.00	0.75	C
ATOM	6590	O	SER	A	828	140.611	103.815	115.989	1.00	0.75	O
ATOM	6591	CB	SER	A	828	139.468	101.408	114.139	1.00	0.75	C
ATOM	6592	OG	SER	A	828	139.691	100.615	112.975	1.00	0.75	O
ATOM	6593	N	LEU	A	829	140.119	101.968	117.173	1.00	0.85	N
ATOM	6594	CA	LEU	A	829	139.953	102.631	118.453	1.00	0.85	C
ATOM	6595	C	LEU	A	829	141.246	103.241	118.993	1.00	0.85	C
ATOM	6596	O	LEU	A	829	141.251	104.392	119.434	1.00	0.85	O
ATOM	6597	CB	LEU	A	829	139.363	101.624	119.469	1.00	0.85	C
ATOM	6598	CG	LEU	A	829	139.186	102.130	120.917	1.00	0.85	C
ATOM	6599	CD1	LEU	A	829	138.188	103.294	121.030	1.00	0.85	C
ATOM	6600	CD2	LEU	A	829	138.761	100.962	121.815	1.00	0.85	C
ATOM	6601	N	GLU	A	830	142.386	102.513	118.927	1.00	0.84	N
ATOM	6602	CA	GLU	A	830	143.687	103.013	119.345	1.00	0.84	C
ATOM	6603	C	GLU	A	830	144.127	104.240	118.567	1.00	0.84	C
ATOM	6604	O	GLU	A	830	144.493	105.264	119.146	1.00	0.84	O
ATOM	6605	CB	GLU	A	830	144.790	101.931	119.192	1.00	0.84	C
ATOM	6606	CG	GLU	A	830	146.169	102.431	119.702	1.00	0.84	C
ATOM	6607	CD	GLU	A	830	147.282	101.406	119.796	1.00	0.84	C
ATOM	6608	OE1	GLU	A	830	148.449	101.841	120.005	1.00	0.84	O
ATOM	6609	OE2	GLU	A	830	147.066	100.173	119.713	1.00	0.84	O
ATOM	6610	N	GLU	A	831	144.015	104.196	117.221	1.00	0.81	N
ATOM	6611	CA	GLU	A	831	144.316	105.331	116.373	1.00	0.81	C
ATOM	6612	C	GLU	A	831	143.444	106.533	116.666	1.00	0.81	C
ATOM	6613	O	GLU	A	831	143.923	107.658	116.772	1.00	0.81	O
ATOM	6614	CB	GLU	A	831	144.143	105.002	114.878	1.00	0.81	C
ATOM	6615	CG	GLU	A	831	145.225	104.051	114.319	1.00	0.81	C
ATOM	6616	CD	GLU	A	831	145.454	104.356	112.851	1.00	0.81	C
ATOM	6617	OE1	GLU	A	831	144.469	104.666	112.125	1.00	0.81	O
ATOM	6618	OE2	GLU	A	831	146.636	104.494	112.437	1.00	0.81	O
ATOM	6619	N	ARG	A	832	142.130	106.325	116.847	1.00	0.78	N

ATOM	6620	CA	ARG	A	832	141.209	107.387	117.185	1.00	0.78	C
ATOM	6621	C	ARG	A	832	141.529	108.092	118.499	1.00	0.78	C
ATOM	6622	O	ARG	A	832	141.550	109.319	118.563	1.00	0.78	O
ATOM	6623	CB	ARG	A	832	139.787	106.799	117.247	1.00	0.78	C
ATOM	6624	CG	ARG	A	832	138.707	107.839	117.586	1.00	0.78	C
ATOM	6625	CD	ARG	A	832	137.313	107.229	117.623	1.00	0.78	C
ATOM	6626	NE	ARG	A	832	136.388	108.310	118.078	1.00	0.78	N
ATOM	6627	CZ	ARG	A	832	135.072	108.117	118.197	1.00	0.78	C
ATOM	6628	NH1	ARG	A	832	134.496	106.967	117.868	1.00	0.78	N
ATOM	6629	NH2	ARG	A	832	134.263	109.092	118.592	1.00	0.78	N
ATOM	6630	N	VAL	A	833	141.836	107.326	119.566	1.00	0.89	N
ATOM	6631	CA	VAL	A	833	142.261	107.861	120.852	1.00	0.89	C
ATOM	6632	C	VAL	A	833	143.583	108.613	120.773	1.00	0.89	C
ATOM	6633	O	VAL	A	833	143.702	109.724	121.288	1.00	0.89	O
ATOM	6634	CB	VAL	A	833	142.317	106.749	121.898	1.00	0.89	C
ATOM	6635	CG1	VAL	A	833	143.025	107.191	123.195	1.00	0.89	C
ATOM	6636	CG2	VAL	A	833	140.868	106.335	122.223	1.00	0.89	C
ATOM	6637	N	LEU	A	834	144.603	108.065	120.076	1.00	0.88	N
ATOM	6638	CA	LEU	A	834	145.884	108.732	119.891	1.00	0.88	C
ATOM	6639	C	LEU	A	834	145.780	110.044	119.131	1.00	0.88	C
ATOM	6640	O	LEU	A	834	146.384	111.046	119.506	1.00	0.88	O
ATOM	6641	CB	LEU	A	834	146.873	107.809	119.142	1.00	0.88	C
ATOM	6642	CG	LEU	A	834	147.408	106.646	119.999	1.00	0.88	C
ATOM	6643	CD1	LEU	A	834	148.026	105.574	119.094	1.00	0.88	C
ATOM	6644	CD2	LEU	A	834	148.427	107.123	121.046	1.00	0.88	C
ATOM	6645	N	LYS	A	835	144.985	110.081	118.048	1.00	0.83	N
ATOM	6646	CA	LYS	A	835	144.728	111.299	117.308	1.00	0.83	C
ATOM	6647	C	LYS	A	835	143.936	112.366	118.051	1.00	0.83	C
ATOM	6648	O	LYS	A	835	144.300	113.541	118.024	1.00	0.83	O
ATOM	6649	CB	LYS	A	835	143.959	110.972	116.019	1.00	0.83	C
ATOM	6650	CG	LYS	A	835	144.793	110.167	115.016	1.00	0.83	C
ATOM	6651	CD	LYS	A	835	144.129	110.172	113.642	1.00	0.83	C
ATOM	6652	CE	LYS	A	835	142.752	109.516	113.521	1.00	0.83	C
ATOM	6653	NZ	LYS	A	835	142.148	109.980	112.256	1.00	0.83	N
ATOM	6654	N	GLU	A	836	142.834	111.986	118.736	1.00	0.81	N
ATOM	6655	CA	GLU	A	836	142.019	112.913	119.507	1.00	0.81	C
ATOM	6656	C	GLU	A	836	142.770	113.500	120.701	1.00	0.81	C
ATOM	6657	O	GLU	A	836	142.681	114.689	121.005	1.00	0.81	O
ATOM	6658	CB	GLU	A	836	140.661	112.274	119.911	1.00	0.81	C
ATOM	6659	CG	GLU	A	836	139.716	113.298	120.585	1.00	0.81	C
ATOM	6660	CD	GLU	A	836	138.246	112.921	120.718	1.00	0.81	C
ATOM	6661	OE1	GLU	A	836	137.751	111.865	120.250	1.00	0.81	O
ATOM	6662	OE2	GLU	A	836	137.542	113.757	121.344	1.00	0.81	O
ATOM	6663	N	LEU	A	837	143.583	112.681	121.395	1.00	0.84	N
ATOM	6664	CA	LEU	A	837	144.495	113.155	122.417	1.00	0.84	C
ATOM	6665	C	LEU	A	837	145.662	114.006	121.906	1.00	0.84	C
ATOM	6666	O	LEU	A	837	146.008	115.040	122.479	1.00	0.84	O
ATOM	6667	CB	LEU	A	837	145.063	111.929	123.167	1.00	0.84	C
ATOM	6668	CG	LEU	A	837	145.956	112.250	124.380	1.00	0.84	C
ATOM	6669	CD1	LEU	A	837	145.213	113.069	125.444	1.00	0.84	C
ATOM	6670	CD2	LEU	A	837	146.482	110.953	125.002	1.00	0.84	C
ATOM	6671	N	GLY	A	838	146.324	113.583	120.807	1.00	0.86	N
ATOM	6672	CA	GLY	A	838	147.606	114.143	120.385	1.00	0.86	C
ATOM	6673	C	GLY	A	838	147.552	115.473	119.687	1.00	0.86	C
ATOM	6674	O	GLY	A	838	148.580	116.125	119.504	1.00	0.86	O
ATOM	6675	N	SER	A	839	146.350	115.927	119.298	1.00	0.81	N
ATOM	6676	CA	SER	A	839	146.141	117.197	118.621	1.00	0.81	C
ATOM	6677	C	SER	A	839	145.908	118.346	119.585	1.00	0.81	C
ATOM	6678	O	SER	A	839	145.947	119.509	119.189	1.00	0.81	O
ATOM	6679	CB	SER	A	839	144.916	117.113	117.667	1.00	0.81	C
ATOM	6680	OG	SER	A	839	143.723	116.761	118.372	1.00	0.81	O
ATOM	6681	N	LYS	A	840	145.685	118.053	120.882	1.00	0.76	N
ATOM	6682	CA	LYS	A	840	145.230	119.037	121.846	1.00	0.76	C
ATOM	6683	C	LYS	A	840	146.305	120.010	122.331	1.00	0.76	C
ATOM	6684	O	LYS	A	840	147.353	119.626	122.862	1.00	0.76	O

ATOM	6685	CB	LYS	A	840	144.531	118.326	123.035	1.00	0.76	C
ATOM	6686	CG	LYS	A	840	143.422	119.150	123.710	1.00	0.76	C
ATOM	6687	CD	LYS	A	840	142.196	119.313	122.795	1.00	0.76	C
ATOM	6688	CE	LYS	A	840	141.036	120.069	123.440	1.00	0.76	C
ATOM	6689	NZ	LYS	A	840	140.147	120.551	122.368	1.00	0.76	N
ATOM	6690	N	ASN	A	841	146.066	121.325	122.152	1.00	0.75	N
ATOM	6691	CA	ASN	A	841	146.973	122.383	122.529	1.00	0.75	C
ATOM	6692	C	ASN	A	841	146.664	122.784	123.970	1.00	0.75	C
ATOM	6693	O	ASN	A	841	145.614	122.475	124.529	1.00	0.75	O
ATOM	6694	CB	ASN	A	841	146.821	123.549	121.501	1.00	0.75	C
ATOM	6695	CG	ASN	A	841	147.918	124.604	121.564	1.00	0.75	C
ATOM	6696	OD1	ASN	A	841	147.909	125.489	122.419	1.00	0.75	O
ATOM	6697	ND2	ASN	A	841	148.880	124.546	120.616	1.00	0.75	N
ATOM	6698	N	LEU	A	842	147.593	123.476	124.652	1.00	0.77	N
ATOM	6699	CA	LEU	A	842	147.302	124.004	125.974	1.00	0.77	C
ATOM	6700	C	LEU	A	842	146.421	125.250	125.927	1.00	0.77	C
ATOM	6701	O	LEU	A	842	145.741	125.582	126.895	1.00	0.77	O
ATOM	6702	CB	LEU	A	842	148.619	124.282	126.737	1.00	0.77	C
ATOM	6703	CG	LEU	A	842	149.349	122.985	127.145	1.00	0.77	C
ATOM	6704	CD1	LEU	A	842	150.787	123.267	127.588	1.00	0.77	C
ATOM	6705	CD2	LEU	A	842	148.613	122.228	128.261	1.00	0.77	C
ATOM	6706	N	LEU	A	843	146.368	125.962	124.781	1.00	0.79	N
ATOM	6707	CA	LEU	A	843	145.533	127.139	124.642	1.00	0.79	C
ATOM	6708	C	LEU	A	843	144.055	126.860	124.358	1.00	0.79	C
ATOM	6709	O	LEU	A	843	143.204	127.669	124.735	1.00	0.79	O
ATOM	6710	CB	LEU	A	843	146.127	128.097	123.576	1.00	0.79	C
ATOM	6711	CG	LEU	A	843	145.496	129.510	123.550	1.00	0.79	C
ATOM	6712	CD1	LEU	A	843	146.572	130.589	123.386	1.00	0.79	C
ATOM	6713	CD2	LEU	A	843	144.441	129.669	122.442	1.00	0.79	C
ATOM	6714	N	ASP	A	844	143.667	125.719	123.730	1.00	0.75	N
ATOM	6715	CA	ASP	A	844	142.270	125.443	123.391	1.00	0.75	C
ATOM	6716	C	ASP	A	844	141.571	124.632	124.482	1.00	0.75	C
ATOM	6717	O	ASP	A	844	140.478	124.094	124.309	1.00	0.75	O
ATOM	6718	CB	ASP	A	844	142.075	124.870	121.953	1.00	0.75	C
ATOM	6719	CG	ASP	A	844	142.534	123.419	121.756	1.00	0.75	C
ATOM	6720	OD1	ASP	A	844	143.728	123.129	121.980	1.00	0.75	O
ATOM	6721	OD2	ASP	A	844	141.679	122.566	121.404	1.00	0.75	O
ATOM	6722	N	LEU	A	845	142.200	124.577	125.671	1.00	0.72	N
ATOM	6723	CA	LEU	A	845	141.678	123.992	126.884	1.00	0.72	C
ATOM	6724	C	LEU	A	845	140.475	124.747	127.456	1.00	0.72	C
ATOM	6725	O	LEU	A	845	140.183	125.884	127.083	1.00	0.72	O
ATOM	6726	CB	LEU	A	845	142.829	123.860	127.914	1.00	0.72	C
ATOM	6727	CG	LEU	A	845	142.689	122.768	128.996	1.00	0.72	C
ATOM	6728	CD1	LEU	A	845	142.460	121.372	128.391	1.00	0.72	C
ATOM	6729	CD2	LEU	A	845	143.959	122.754	129.858	1.00	0.72	C
ATOM	6730	N	ALA	A	846	139.715	124.104	128.370	1.00	0.54	N
ATOM	6731	CA	ALA	A	846	138.465	124.597	128.918	1.00	0.54	C
ATOM	6732	C	ALA	A	846	138.603	125.822	129.836	1.00	0.54	C
ATOM	6733	O	ALA	A	846	138.573	125.730	131.064	1.00	0.54	O
ATOM	6734	CB	ALA	A	846	137.757	123.443	129.663	1.00	0.54	C
ATOM	6735	N	THR	A	847	138.774	127.015	129.239	1.00	0.74	N
ATOM	6736	CA	THR	A	847	138.855	128.306	129.907	1.00	0.74	C
ATOM	6737	C	THR	A	847	137.596	128.719	130.643	1.00	0.74	C
ATOM	6738	O	THR	A	847	136.495	128.301	130.307	1.00	0.74	O
ATOM	6739	CB	THR	A	847	139.250	129.456	128.985	1.00	0.74	C
ATOM	6740	OG1	THR	A	847	138.418	129.567	127.838	1.00	0.74	O
ATOM	6741	CG2	THR	A	847	140.650	129.191	128.439	1.00	0.74	C
ATOM	6742	N	MET	A	848	137.745	129.551	131.699	1.00	0.67	N
ATOM	6743	CA	MET	A	848	136.664	130.095	132.522	1.00	0.67	C
ATOM	6744	C	MET	A	848	136.028	129.125	133.515	1.00	0.67	C
ATOM	6745	O	MET	A	848	135.303	129.546	134.425	1.00	0.67	O
ATOM	6746	CB	MET	A	848	135.595	130.898	131.722	1.00	0.67	C
ATOM	6747	CG	MET	A	848	135.991	132.370	131.510	1.00	0.67	C
ATOM	6748	SD	MET	A	848	135.985	133.350	133.045	1.00	0.67	S
ATOM	6749	CE	MET	A	848	134.180	133.474	133.217	1.00	0.67	C

ATOM	6750	N	LYS	A	849	136.363	127.821	133.417	1.00	0.71	N
ATOM	6751	CA	LYS	A	849	136.096	126.795	134.408	1.00	0.71	C
ATOM	6752	C	LYS	A	849	136.713	127.075	135.768	1.00	0.71	C
ATOM	6753	O	LYS	A	849	137.760	127.705	135.873	1.00	0.71	O
ATOM	6754	CB	LYS	A	849	136.644	125.422	133.948	1.00	0.71	C
ATOM	6755	CG	LYS	A	849	135.834	124.776	132.814	1.00	0.71	C
ATOM	6756	CD	LYS	A	849	135.141	123.462	133.223	1.00	0.71	C
ATOM	6757	CE	LYS	A	849	136.110	122.323	133.565	1.00	0.71	C
ATOM	6758	NZ	LYS	A	849	135.350	121.111	133.947	1.00	0.71	N
ATOM	6759	N	ALA	A	850	136.052	126.596	136.839	1.00	0.80	N
ATOM	6760	CA	ALA	A	850	136.517	126.684	138.206	1.00	0.80	C
ATOM	6761	C	ALA	A	850	137.637	125.702	138.564	1.00	0.80	C
ATOM	6762	O	ALA	A	850	137.720	124.595	138.027	1.00	0.80	O
ATOM	6763	CB	ALA	A	850	135.316	126.463	139.147	1.00	0.80	C
ATOM	6764	N	THR	A	851	138.499	126.115	139.511	1.00	0.85	N
ATOM	6765	CA	THR	A	851	139.615	125.356	140.072	1.00	0.85	C
ATOM	6766	C	THR	A	851	139.586	125.498	141.585	1.00	0.85	C
ATOM	6767	O	THR	A	851	138.790	126.253	142.143	1.00	0.85	O
ATOM	6768	CB	THR	A	851	140.982	125.826	139.574	1.00	0.85	C
ATOM	6769	OG1	THR	A	851	141.045	127.243	139.542	1.00	0.85	O
ATOM	6770	CG2	THR	A	851	141.173	125.338	138.137	1.00	0.85	C
ATOM	6771	N	SER	A	852	140.420	124.731	142.322	1.00	0.84	N
ATOM	6772	CA	SER	A	852	140.486	124.789	143.778	1.00	0.84	C
ATOM	6773	C	SER	A	852	141.859	125.234	144.271	1.00	0.84	C
ATOM	6774	O	SER	A	852	142.883	124.620	143.987	1.00	0.84	O
ATOM	6775	CB	SER	A	852	140.088	123.439	144.464	1.00	0.84	C
ATOM	6776	OG	SER	A	852	140.917	122.342	144.084	1.00	0.84	O
ATOM	6777	N	ASN	A	853	141.902	126.320	145.081	1.00	0.78	N
ATOM	6778	CA	ASN	A	853	143.109	126.837	145.721	1.00	0.78	C
ATOM	6779	C	ASN	A	853	143.346	126.160	147.071	1.00	0.78	C
ATOM	6780	O	ASN	A	853	143.745	126.780	148.053	1.00	0.78	O
ATOM	6781	CB	ASN	A	853	143.020	128.373	145.958	1.00	0.78	C
ATOM	6782	CG	ASN	A	853	143.075	129.117	144.633	1.00	0.78	C
ATOM	6783	OD1	ASN	A	853	143.674	128.664	143.660	1.00	0.78	O
ATOM	6784	ND2	ASN	A	853	142.457	130.318	144.577	1.00	0.78	N
ATOM	6785	N	PHE	A	854	143.102	124.844	147.157	1.00	0.77	N
ATOM	6786	CA	PHE	A	854	143.221	124.091	148.385	1.00	0.77	C
ATOM	6787	C	PHE	A	854	144.576	123.399	148.404	1.00	0.77	C
ATOM	6788	O	PHE	A	854	144.876	122.536	147.584	1.00	0.77	O
ATOM	6789	CB	PHE	A	854	142.028	123.098	148.498	1.00	0.77	C
ATOM	6790	CG	PHE	A	854	142.072	122.172	149.690	1.00	0.77	C
ATOM	6791	CD1	PHE	A	854	142.432	122.616	150.974	1.00	0.77	C
ATOM	6792	CD2	PHE	A	854	141.683	120.833	149.528	1.00	0.77	C
ATOM	6793	CE1	PHE	A	854	142.452	121.727	152.056	1.00	0.77	C
ATOM	6794	CE2	PHE	A	854	141.702	119.939	150.605	1.00	0.77	C
ATOM	6795	CZ	PHE	A	854	142.097	120.386	151.871	1.00	0.77	C
ATOM	6796	N	SER	A	855	145.432	123.783	149.367	1.00	0.76	N
ATOM	6797	CA	SER	A	855	146.790	123.282	149.509	1.00	0.76	C
ATOM	6798	C	SER	A	855	146.986	122.869	150.958	1.00	0.76	C
ATOM	6799	O	SER	A	855	146.088	123.012	151.785	1.00	0.76	O
ATOM	6800	CB	SER	A	855	147.857	124.332	149.077	1.00	0.76	C
ATOM	6801	OG	SER	A	855	149.181	123.787	149.066	1.00	0.76	O
ATOM	6802	N	LYS	A	856	148.162	122.313	151.300	1.00	0.73	N
ATOM	6803	CA	LYS	A	856	148.515	121.768	152.605	1.00	0.73	C
ATOM	6804	C	LYS	A	856	148.438	122.766	153.755	1.00	0.73	C
ATOM	6805	O	LYS	A	856	148.072	122.420	154.875	1.00	0.73	O
ATOM	6806	CB	LYS	A	856	149.917	121.119	152.522	1.00	0.73	C
ATOM	6807	CG	LYS	A	856	150.381	120.423	153.817	1.00	0.73	C
ATOM	6808	CD	LYS	A	856	151.087	119.077	153.567	1.00	0.73	C
ATOM	6809	CE	LYS	A	856	150.086	117.963	153.234	1.00	0.73	C
ATOM	6810	NZ	LYS	A	856	150.740	116.818	152.563	1.00	0.73	N
ATOM	6811	N	GLU	A	857	148.722	124.054	153.488	1.00	0.68	N
ATOM	6812	CA	GLU	A	857	148.552	125.148	154.429	1.00	0.68	C
ATOM	6813	C	GLU	A	857	147.131	125.286	154.968	1.00	0.68	C
ATOM	6814	O	GLU	A	857	146.906	125.620	156.128	1.00	0.68	O

ATOM	6815	CB	GLU	A	857	148.922	126.472	153.738	1.00	0.68	C
ATOM	6816	CG	GLU	A	857	150.381	126.523	153.234	1.00	0.68	C
ATOM	6817	CD	GLU	A	857	150.664	127.819	152.477	1.00	0.68	C
ATOM	6818	OE1	GLU	A	857	149.735	128.660	152.354	1.00	0.68	O
ATOM	6819	OE2	GLU	A	857	151.815	127.952	151.995	1.00	0.68	O
ATOM	6820	N	TRP	A	858	146.120	124.980	154.133	1.00	0.71	N
ATOM	6821	CA	TRP	A	858	144.719	125.100	154.479	1.00	0.71	C
ATOM	6822	C	TRP	A	858	144.166	123.822	155.093	1.00	0.71	C
ATOM	6823	O	TRP	A	858	142.976	123.554	154.997	1.00	0.71	O
ATOM	6824	CB	TRP	A	858	143.864	125.505	153.246	1.00	0.71	C
ATOM	6825	CG	TRP	A	858	144.150	126.896	152.696	1.00	0.71	C
ATOM	6826	CD1	TRP	A	858	145.254	127.334	152.018	1.00	0.71	C
ATOM	6827	CD2	TRP	A	858	143.256	128.026	152.786	1.00	0.71	C
ATOM	6828	NE1	TRP	A	858	145.113	128.660	151.678	1.00	0.71	N
ATOM	6829	CE2	TRP	A	858	143.893	129.105	152.133	1.00	0.71	C
ATOM	6830	CE3	TRP	A	858	141.991	128.179	153.357	1.00	0.71	C
ATOM	6831	CZ2	TRP	A	858	143.279	130.347	152.038	1.00	0.71	C
ATOM	6832	CZ3	TRP	A	858	141.375	129.439	153.266	1.00	0.71	C
ATOM	6833	CH2	TRP	A	858	142.011	130.508	152.617	1.00	0.71	C
ATOM	6834	N	GLU	A	859	144.996	122.990	155.757	1.00	0.74	N
ATOM	6835	CA	GLU	A	859	144.514	121.788	156.422	1.00	0.74	C
ATOM	6836	C	GLU	A	859	144.229	121.982	157.916	1.00	0.74	C
ATOM	6837	O	GLU	A	859	143.642	121.104	158.544	1.00	0.74	O
ATOM	6838	CB	GLU	A	859	145.500	120.602	156.191	1.00	0.74	C
ATOM	6839	CG	GLU	A	859	145.320	119.959	154.785	1.00	0.74	C
ATOM	6840	CD	GLU	A	859	146.107	118.677	154.535	1.00	0.74	C
ATOM	6841	OE1	GLU	A	859	145.908	117.673	155.266	1.00	0.74	O
ATOM	6842	OE2	GLU	A	859	146.831	118.600	153.498	1.00	0.74	O
ATOM	6843	N	ALA	A	860	144.546	123.151	158.515	1.00	0.81	N
ATOM	6844	CA	ALA	A	860	144.371	123.398	159.941	1.00	0.81	C
ATOM	6845	C	ALA	A	860	143.359	124.515	160.205	1.00	0.81	C
ATOM	6846	O	ALA	A	860	143.448	125.602	159.637	1.00	0.81	O
ATOM	6847	CB	ALA	A	860	145.731	123.787	160.556	1.00	0.81	C
ATOM	6848	N	PHE	A	861	142.348	124.282	161.075	1.00	0.73	N
ATOM	6849	CA	PHE	A	861	141.359	125.295	161.414	1.00	0.73	C
ATOM	6850	C	PHE	A	861	141.798	126.072	162.650	1.00	0.73	C
ATOM	6851	O	PHE	A	861	142.138	125.486	163.666	1.00	0.73	O
ATOM	6852	CB	PHE	A	861	139.961	124.669	161.692	1.00	0.73	C
ATOM	6853	CG	PHE	A	861	138.902	125.719	161.971	1.00	0.73	C
ATOM	6854	CD1	PHE	A	861	138.588	126.068	163.299	1.00	0.73	C
ATOM	6855	CD2	PHE	A	861	138.232	126.374	160.925	1.00	0.73	C
ATOM	6856	CE1	PHE	A	861	137.611	127.031	163.577	1.00	0.73	C
ATOM	6857	CE2	PHE	A	861	137.256	127.343	161.199	1.00	0.73	C
ATOM	6858	CZ	PHE	A	861	136.941	127.666	162.525	1.00	0.73	C
ATOM	6859	N	SER	A	862	141.728	127.417	162.565	1.00	0.68	N
ATOM	6860	CA	SER	A	862	142.146	128.420	163.547	1.00	0.68	C
ATOM	6861	C	SER	A	862	143.489	128.993	163.207	1.00	0.68	C
ATOM	6862	O	SER	A	862	143.637	130.213	163.188	1.00	0.68	O
ATOM	6863	CB	SER	A	862	142.021	128.153	165.083	1.00	0.68	C
ATOM	6864	OG	SER	A	862	140.834	128.764	165.613	1.00	0.68	O
ATOM	6865	N	GLU	A	863	144.466	128.145	162.852	1.00	0.59	N
ATOM	6866	CA	GLU	A	863	145.761	128.543	162.332	1.00	0.59	C
ATOM	6867	C	GLU	A	863	145.642	129.261	160.995	1.00	0.59	C
ATOM	6868	O	GLU	A	863	146.301	130.271	160.745	1.00	0.59	O
ATOM	6869	CB	GLU	A	863	146.717	127.328	162.240	1.00	0.59	C
ATOM	6870	CG	GLU	A	863	147.121	126.764	163.630	1.00	0.59	C
ATOM	6871	CD	GLU	A	863	145.961	126.097	164.364	1.00	0.59	C
ATOM	6872	OE1	GLU	A	863	145.520	126.646	165.405	1.00	0.59	O
ATOM	6873	OE2	GLU	A	863	145.471	125.069	163.836	1.00	0.59	O
ATOM	6874	N	VAL	A	864	144.736	128.795	160.111	1.00	0.59	N
ATOM	6875	CA	VAL	A	864	144.277	129.610	159.003	1.00	0.59	C
ATOM	6876	C	VAL	A	864	142.761	129.776	159.063	1.00	0.59	C
ATOM	6877	O	VAL	A	864	141.957	128.868	158.863	1.00	0.59	O
ATOM	6878	CB	VAL	A	864	144.844	129.158	157.660	1.00	0.59	C
ATOM	6879	CG1	VAL	A	864	144.470	127.712	157.305	1.00	0.59	C

ATOM	6880	CG2	VAL	A	864	144.452	130.131	156.532	1.00	0.59	C
ATOM	6881	N	ARG	A	865	142.333	131.007	159.393	1.00	0.54	N
ATOM	6882	CA	ARG	A	865	140.961	131.455	159.406	1.00	0.54	C
ATOM	6883	C	ARG	A	865	141.045	132.966	159.339	1.00	0.54	C
ATOM	6884	O	ARG	A	865	142.139	133.499	159.176	1.00	0.54	O
ATOM	6885	CB	ARG	A	865	140.096	130.970	160.603	1.00	0.54	C
ATOM	6886	CG	ARG	A	865	140.513	131.496	161.991	1.00	0.54	C
ATOM	6887	CD	ARG	A	865	139.505	131.116	163.086	1.00	0.54	C
ATOM	6888	NE	ARG	A	865	140.161	131.297	164.422	1.00	0.54	N
ATOM	6889	CZ	ARG	A	865	140.328	132.461	165.063	1.00	0.54	C
ATOM	6890	NH1	ARG	A	865	139.788	133.592	164.623	1.00	0.54	N
ATOM	6891	NH2	ARG	A	865	141.053	132.490	166.178	1.00	0.54	N
ATOM	6892	N	THR	A	866	139.888	133.670	159.376	1.00	0.55	N
ATOM	6893	CA	THR	A	866	139.754	135.125	159.195	1.00	0.55	C
ATOM	6894	C	THR	A	866	140.243	135.584	157.836	1.00	0.55	C
ATOM	6895	O	THR	A	866	140.858	136.636	157.688	1.00	0.55	O
ATOM	6896	CB	THR	A	866	140.225	136.066	160.323	1.00	0.55	C
ATOM	6897	OG1	THR	A	866	141.631	136.073	160.545	1.00	0.55	O
ATOM	6898	CG2	THR	A	866	139.585	135.649	161.652	1.00	0.55	C
ATOM	6899	N	LYS	A	867	139.944	134.765	156.809	1.00	0.54	N
ATOM	6900	CA	LYS	A	867	140.357	134.943	155.437	1.00	0.54	C
ATOM	6901	C	LYS	A	867	139.295	134.314	154.559	1.00	0.54	C
ATOM	6902	O	LYS	A	867	138.685	133.316	154.947	1.00	0.54	O
ATOM	6903	CB	LYS	A	867	141.666	134.166	155.129	1.00	0.54	C
ATOM	6904	CG	LYS	A	867	142.916	134.697	155.842	1.00	0.54	C
ATOM	6905	CD	LYS	A	867	144.167	133.928	155.394	1.00	0.54	C
ATOM	6906	CE	LYS	A	867	145.449	134.392	156.086	1.00	0.54	C
ATOM	6907	NZ	LYS	A	867	146.603	133.619	155.569	1.00	0.54	N
ATOM	6908	N	GLU	A	868	139.060	134.856	153.350	1.00	0.58	N
ATOM	6909	CA	GLU	A	868	138.228	134.212	152.357	1.00	0.58	C
ATOM	6910	C	GLU	A	868	138.987	133.137	151.565	1.00	0.58	C
ATOM	6911	O	GLU	A	868	140.167	133.269	151.254	1.00	0.58	O
ATOM	6912	CB	GLU	A	868	137.676	135.256	151.358	1.00	0.58	C
ATOM	6913	CG	GLU	A	868	136.991	136.499	151.990	1.00	0.58	C
ATOM	6914	CD	GLU	A	868	137.736	137.795	151.678	1.00	0.58	C
ATOM	6915	OE1	GLU	A	868	137.179	138.622	150.900	1.00	0.58	O
ATOM	6916	OE2	GLU	A	868	138.855	137.981	152.207	1.00	0.58	O
ATOM	6917	N	TYR	A	869	138.317	132.012	151.225	1.00	0.66	N
ATOM	6918	CA	TYR	A	869	138.875	130.945	150.398	1.00	0.66	C
ATOM	6919	C	TYR	A	869	139.088	131.329	148.923	1.00	0.66	C
ATOM	6920	O	TYR	A	869	140.067	130.920	148.306	1.00	0.66	O
ATOM	6921	CB	TYR	A	869	137.986	129.670	150.551	1.00	0.66	C
ATOM	6922	CG	TYR	A	869	138.452	128.517	149.698	1.00	0.66	C
ATOM	6923	CD1	TYR	A	869	139.694	127.894	149.918	1.00	0.66	C
ATOM	6924	CD2	TYR	A	869	137.655	128.092	148.623	1.00	0.66	C
ATOM	6925	CE1	TYR	A	869	140.127	126.855	149.077	1.00	0.66	C
ATOM	6926	CE2	TYR	A	869	138.089	127.062	147.783	1.00	0.66	C
ATOM	6927	CZ	TYR	A	869	139.314	126.439	148.019	1.00	0.66	C
ATOM	6928	OH	TYR	A	869	139.680	125.376	147.183	1.00	0.66	O
ATOM	6929	N	HIS	A	870	138.149	132.103	148.330	1.00	0.60	N
ATOM	6930	CA	HIS	A	870	138.133	132.547	146.935	1.00	0.60	C
ATOM	6931	C	HIS	A	870	138.701	131.642	145.845	1.00	0.60	C
ATOM	6932	O	HIS	A	870	139.773	131.883	145.291	1.00	0.60	O
ATOM	6933	CB	HIS	A	870	138.696	133.972	146.767	1.00	0.60	C
ATOM	6934	CG	HIS	A	870	137.720	135.006	147.216	1.00	0.60	C
ATOM	6935	ND1	HIS	A	870	138.124	135.923	148.150	1.00	0.60	N
ATOM	6936	CD2	HIS	A	870	136.398	135.164	146.941	1.00	0.60	C
ATOM	6937	CE1	HIS	A	870	137.049	136.615	148.451	1.00	0.60	C
ATOM	6938	NE2	HIS	A	870	135.969	136.199	147.744	1.00	0.60	N
ATOM	6939	N	ARG	A	871	137.946	130.585	145.477	1.00	0.65	N
ATOM	6940	CA	ARG	A	871	138.264	129.737	144.342	1.00	0.65	C
ATOM	6941	C	ARG	A	871	138.358	130.480	143.007	1.00	0.65	C
ATOM	6942	O	ARG	A	871	137.655	131.458	142.750	1.00	0.65	O
ATOM	6943	CB	ARG	A	871	137.273	128.551	144.227	1.00	0.65	C
ATOM	6944	CG	ARG	A	871	135.825	128.942	143.879	1.00	0.65	C

ATOM	6945	CD	ARG	A	871	134.899	127.739	143.675	1.00	0.65	C
ATOM	6946	NE	ARG	A	871	133.611	128.294	143.155	1.00	0.65	N
ATOM	6947	CZ	ARG	A	871	132.681	128.875	143.926	1.00	0.65	C
ATOM	6948	NH1	ARG	A	871	132.639	128.716	145.239	1.00	0.65	N
ATOM	6949	NH2	ARG	A	871	131.737	129.607	143.345	1.00	0.65	N
ATOM	6950	N	SER	A	872	139.282	130.040	142.140	1.00	0.71	N
ATOM	6951	CA	SER	A	872	139.718	130.776	140.972	1.00	0.71	C
ATOM	6952	C	SER	A	872	139.222	130.142	139.677	1.00	0.71	C
ATOM	6953	O	SER	A	872	138.181	129.482	139.628	1.00	0.71	O
ATOM	6954	CB	SER	A	872	141.268	130.916	141.020	1.00	0.71	C
ATOM	6955	OG	SER	A	872	141.863	129.648	141.291	1.00	0.71	O
ATOM	6956	N	LYS	A	873	139.932	130.402	138.562	1.00	0.72	N
ATOM	6957	CA	LYS	A	873	139.602	129.943	137.233	1.00	0.72	C
ATOM	6958	C	LYS	A	873	140.778	129.169	136.696	1.00	0.72	C
ATOM	6959	O	LYS	A	873	141.895	129.416	137.108	1.00	0.72	O
ATOM	6960	CB	LYS	A	873	139.416	131.127	136.246	1.00	0.72	C
ATOM	6961	CG	LYS	A	873	138.304	132.113	136.619	1.00	0.72	C
ATOM	6962	CD	LYS	A	873	136.944	131.424	136.728	1.00	0.72	C
ATOM	6963	CE	LYS	A	873	135.776	132.403	136.744	1.00	0.72	C
ATOM	6964	NZ	LYS	A	873	134.532	131.630	136.570	1.00	0.72	N
ATOM	6965	N	LEU	A	874	140.580	128.273	135.711	1.00	0.77	N
ATOM	6966	CA	LEU	A	874	141.641	127.442	135.143	1.00	0.77	C
ATOM	6967	C	LEU	A	874	142.611	128.195	134.219	1.00	0.77	C
ATOM	6968	O	LEU	A	874	143.662	127.707	133.804	1.00	0.77	O
ATOM	6969	CB	LEU	A	874	140.964	126.240	134.428	1.00	0.77	C
ATOM	6970	CG	LEU	A	874	141.845	124.983	134.249	1.00	0.77	C
ATOM	6971	CD1	LEU	A	874	141.026	123.717	134.533	1.00	0.77	C
ATOM	6972	CD2	LEU	A	874	142.460	124.870	132.847	1.00	0.77	C
ATOM	6973	N	LEU	A	875	142.271	129.452	133.869	1.00	0.75	N
ATOM	6974	CA	LEU	A	875	143.072	130.330	133.031	1.00	0.75	C
ATOM	6975	C	LEU	A	875	144.456	130.667	133.597	1.00	0.75	C
ATOM	6976	O	LEU	A	875	145.418	130.794	132.838	1.00	0.75	O
ATOM	6977	CB	LEU	A	875	142.263	131.601	132.650	1.00	0.75	C
ATOM	6978	CG	LEU	A	875	142.998	132.618	131.743	1.00	0.75	C
ATOM	6979	CD1	LEU	A	875	142.100	133.126	130.605	1.00	0.75	C
ATOM	6980	CD2	LEU	A	875	143.513	133.813	132.562	1.00	0.75	C
ATOM	6981	N	GLU	A	876	144.615	130.796	134.934	1.00	0.73	N
ATOM	6982	CA	GLU	A	876	145.915	131.045	135.545	1.00	0.73	C
ATOM	6983	C	GLU	A	876	146.923	129.924	135.298	1.00	0.73	C
ATOM	6984	O	GLU	A	876	148.052	130.169	134.875	1.00	0.73	O
ATOM	6985	CB	GLU	A	876	145.794	131.391	137.059	1.00	0.73	C
ATOM	6986	CG	GLU	A	876	144.777	130.570	137.903	1.00	0.73	C
ATOM	6987	CD	GLU	A	876	145.100	129.087	138.101	1.00	0.73	C
ATOM	6988	OE1	GLU	A	876	144.569	128.256	137.314	1.00	0.73	O
ATOM	6989	OE2	GLU	A	876	145.880	128.765	139.025	1.00	0.73	O
ATOM	6990	N	LYS	A	877	146.509	128.655	135.458	1.00	0.78	N
ATOM	6991	CA	LYS	A	877	147.339	127.493	135.258	1.00	0.78	C
ATOM	6992	C	LYS	A	877	147.875	127.346	133.851	1.00	0.78	C
ATOM	6993	O	LYS	A	877	149.049	127.035	133.650	1.00	0.78	O
ATOM	6994	CB	LYS	A	877	146.538	126.212	135.592	1.00	0.78	C
ATOM	6995	CG	LYS	A	877	147.369	124.917	135.553	1.00	0.78	C
ATOM	6996	CD	LYS	A	877	148.489	124.948	136.607	1.00	0.78	C
ATOM	6997	CE	LYS	A	877	148.898	123.587	137.160	1.00	0.78	C
ATOM	6998	NZ	LYS	A	877	149.291	122.674	136.069	1.00	0.78	N
ATOM	6999	N	MET	A	878	147.033	127.569	132.820	1.00	0.78	N
ATOM	7000	CA	MET	A	878	147.506	127.560	131.446	1.00	0.78	C
ATOM	7001	C	MET	A	878	148.455	128.709	131.144	1.00	0.78	C
ATOM	7002	O	MET	A	878	149.455	128.509	130.465	1.00	0.78	O
ATOM	7003	CB	MET	A	878	146.389	127.408	130.383	1.00	0.78	C
ATOM	7004	CG	MET	A	878	145.446	128.611	130.216	1.00	0.78	C
ATOM	7005	SD	MET	A	878	144.075	128.312	129.062	1.00	0.78	S
ATOM	7006	CE	MET	A	878	143.186	127.151	130.141	1.00	0.78	C
ATOM	7007	N	ALA	A	879	148.219	129.922	131.695	1.00	0.84	N
ATOM	7008	CA	ALA	A	879	149.134	131.043	131.560	1.00	0.84	C
ATOM	7009	C	ALA	A	879	150.519	130.761	132.137	1.00	0.84	C

ATOM	7010	O	ALA	A	879	151.537	130.967	131.478	1.00	0.84	O
ATOM	7011	CB	ALA	A	879	148.531	132.282	132.258	1.00	0.84	C
ATOM	7012	N	GLU	A	880	150.586	130.210	133.364	1.00	0.78	N
ATOM	7013	CA	GLU	A	880	151.831	129.772	133.969	1.00	0.78	C
ATOM	7014	C	GLU	A	880	152.495	128.593	133.248	1.00	0.78	C
ATOM	7015	O	GLU	A	880	153.706	128.575	133.046	1.00	0.78	O
ATOM	7016	CB	GLU	A	880	151.673	129.570	135.494	1.00	0.78	C
ATOM	7017	CG	GLU	A	880	151.285	130.905	136.193	1.00	0.78	C
ATOM	7018	CD	GLU	A	880	151.555	130.954	137.697	1.00	0.78	C
ATOM	7019	OE1	GLU	A	880	152.005	129.930	138.269	1.00	0.78	O
ATOM	7020	OE2	GLU	A	880	151.344	132.060	138.266	1.00	0.78	O
ATOM	7021	N	LEU	A	881	151.735	127.586	132.763	1.00	0.83	N
ATOM	7022	CA	LEU	A	881	152.284	126.536	131.901	1.00	0.83	C
ATOM	7023	C	LEU	A	881	152.853	127.027	130.567	1.00	0.83	C
ATOM	7024	O	LEU	A	881	153.904	126.560	130.128	1.00	0.83	O
ATOM	7025	CB	LEU	A	881	151.249	125.422	131.609	1.00	0.83	C
ATOM	7026	CG	LEU	A	881	150.956	124.478	132.794	1.00	0.83	C
ATOM	7027	CD1	LEU	A	881	149.821	123.526	132.397	1.00	0.83	C
ATOM	7028	CD2	LEU	A	881	152.186	123.658	133.214	1.00	0.83	C
ATOM	7029	N	ILE	A	882	152.189	127.995	129.901	1.00	0.82	N
ATOM	7030	CA	ILE	A	882	152.691	128.691	128.718	1.00	0.82	C
ATOM	7031	C	ILE	A	882	153.976	129.466	129.027	1.00	0.82	C
ATOM	7032	O	ILE	A	882	154.920	129.477	128.234	1.00	0.82	O
ATOM	7033	CB	ILE	A	882	151.600	129.571	128.092	1.00	0.82	C
ATOM	7034	CG1	ILE	A	882	150.503	128.674	127.456	1.00	0.82	C
ATOM	7035	CG2	ILE	A	882	152.181	130.538	127.032	1.00	0.82	C
ATOM	7036	CD1	ILE	A	882	149.196	129.416	127.139	1.00	0.82	C
ATOM	7037	N	GLU	A	883	154.087	130.091	130.226	1.00	0.75	N
ATOM	7038	CA	GLU	A	883	155.330	130.689	130.702	1.00	0.75	C
ATOM	7039	C	GLU	A	883	156.468	129.659	130.787	1.00	0.75	C
ATOM	7040	O	GLU	A	883	157.530	129.837	130.191	1.00	0.75	O
ATOM	7041	CB	GLU	A	883	155.112	131.396	132.070	1.00	0.75	C
ATOM	7042	CG	GLU	A	883	155.978	132.659	132.339	1.00	0.75	C
ATOM	7043	CD	GLU	A	883	157.463	132.471	132.074	1.00	0.75	C
ATOM	7044	OE1	GLU	A	883	157.980	133.203	131.181	1.00	0.75	O
ATOM	7045	OE2	GLU	A	883	158.092	131.577	132.680	1.00	0.75	O
ATOM	7046	N	HIS	A	884	156.227	128.479	131.396	1.00	0.77	N
ATOM	7047	CA	HIS	A	884	157.185	127.371	131.412	1.00	0.77	C
ATOM	7048	C	HIS	A	884	157.493	126.717	130.055	1.00	0.77	C
ATOM	7049	O	HIS	A	884	158.227	125.736	129.982	1.00	0.77	O
ATOM	7050	CB	HIS	A	884	156.767	126.285	132.433	1.00	0.77	C
ATOM	7051	CG	HIS	A	884	157.021	126.733	133.842	1.00	0.77	C
ATOM	7052	ND1	HIS	A	884	158.313	126.668	134.324	1.00	0.77	N
ATOM	7053	CD2	HIS	A	884	156.211	127.330	134.754	1.00	0.77	C
ATOM	7054	CE1	HIS	A	884	158.268	127.231	135.513	1.00	0.77	C
ATOM	7055	NE2	HIS	A	884	157.019	127.650	135.825	1.00	0.77	N
ATOM	7056	N	GLY	A	885	157.005	127.276	128.924	1.00	0.83	N
ATOM	7057	CA	GLY	A	885	157.475	126.925	127.587	1.00	0.83	C
ATOM	7058	C	GLY	A	885	156.780	125.769	126.933	1.00	0.83	C
ATOM	7059	O	GLY	A	885	157.210	125.297	125.885	1.00	0.83	O
ATOM	7060	N	LEU	A	886	155.682	125.286	127.527	1.00	0.81	N
ATOM	7061	CA	LEU	A	886	154.962	124.132	127.035	1.00	0.81	C
ATOM	7062	C	LEU	A	886	153.868	124.524	126.049	1.00	0.81	C
ATOM	7063	O	LEU	A	886	153.242	125.577	126.158	1.00	0.81	O
ATOM	7064	CB	LEU	A	886	154.363	123.343	128.221	1.00	0.81	C
ATOM	7065	CG	LEU	A	886	155.423	122.824	129.218	1.00	0.81	C
ATOM	7066	CD1	LEU	A	886	154.748	122.267	130.477	1.00	0.81	C
ATOM	7067	CD2	LEU	A	886	156.324	121.751	128.593	1.00	0.81	C
ATOM	7068	N	MET	A	887	153.615	123.667	125.035	1.00	0.75	N
ATOM	7069	CA	MET	A	887	152.731	124.005	123.928	1.00	0.75	C
ATOM	7070	C	MET	A	887	151.597	123.003	123.731	1.00	0.75	C
ATOM	7071	O	MET	A	887	150.483	123.359	123.345	1.00	0.75	O
ATOM	7072	CB	MET	A	887	153.590	124.038	122.638	1.00	0.75	C
ATOM	7073	CG	MET	A	887	152.865	124.567	121.384	1.00	0.75	C
ATOM	7074	SD	MET	A	887	153.826	124.412	119.844	1.00	0.75	S



ATOM	7075	CE	MET	A	887	155.150	125.584	120.261	1.00	0.75	C
ATOM	7076	N	TRP	A	888	151.833	121.711	124.025	1.00	0.75	N
ATOM	7077	CA	TRP	A	888	150.882	120.650	123.751	1.00	0.75	C
ATOM	7078	C	TRP	A	888	150.456	119.990	125.048	1.00	0.75	C
ATOM	7079	O	TRP	A	888	151.233	119.873	125.992	1.00	0.75	O
ATOM	7080	CB	TRP	A	888	151.483	119.582	122.797	1.00	0.75	C
ATOM	7081	CG	TRP	A	888	151.884	120.120	121.429	1.00	0.75	C
ATOM	7082	CD1	TRP	A	888	153.136	120.276	120.899	1.00	0.75	C
ATOM	7083	CD2	TRP	A	888	150.960	120.555	120.414	1.00	0.75	C
ATOM	7084	NE1	TRP	A	888	153.052	120.790	119.622	1.00	0.75	N
ATOM	7085	CE2	TRP	A	888	151.728	120.971	119.304	1.00	0.75	C
ATOM	7086	CE3	TRP	A	888	149.571	120.598	120.376	1.00	0.75	C
ATOM	7087	CZ2	TRP	A	888	151.115	121.435	118.145	1.00	0.75	C
ATOM	7088	CZ3	TRP	A	888	148.952	121.066	119.209	1.00	0.75	C
ATOM	7089	CH2	TRP	A	888	149.712	121.475	118.104	1.00	0.75	C
ATOM	7090	N	TYR	A	889	149.187	119.533	125.130	1.00	0.80	N
ATOM	7091	CA	TYR	A	889	148.588	118.968	126.333	1.00	0.80	C
ATOM	7092	C	TYR	A	889	149.343	117.756	126.889	1.00	0.80	C
ATOM	7093	O	TYR	A	889	149.535	117.619	128.096	1.00	0.80	O
ATOM	7094	CB	TYR	A	889	147.097	118.638	126.015	1.00	0.80	C
ATOM	7095	CG	TYR	A	889	146.415	117.845	127.098	1.00	0.80	C
ATOM	7096	CD1	TYR	A	889	145.921	118.457	128.263	1.00	0.80	C
ATOM	7097	CD2	TYR	A	889	146.354	116.446	126.977	1.00	0.80	C
ATOM	7098	CE1	TYR	A	889	145.385	117.672	129.298	1.00	0.80	C
ATOM	7099	CE2	TYR	A	889	145.841	115.667	128.017	1.00	0.80	C
ATOM	7100	CZ	TYR	A	889	145.366	116.277	129.174	1.00	0.80	C
ATOM	7101	OH	TYR	A	889	144.836	115.451	130.183	1.00	0.80	O
ATOM	7102	N	VAL	A	890	149.814	116.867	125.994	1.00	0.83	N
ATOM	7103	CA	VAL	A	890	150.508	115.631	126.320	1.00	0.83	C
ATOM	7104	C	VAL	A	890	151.773	115.835	127.156	1.00	0.83	C
ATOM	7105	O	VAL	A	890	152.081	115.048	128.046	1.00	0.83	O
ATOM	7106	CB	VAL	A	890	150.794	114.820	125.051	1.00	0.83	C
ATOM	7107	CG1	VAL	A	890	149.459	114.463	124.363	1.00	0.83	C
ATOM	7108	CG2	VAL	A	890	151.706	115.577	124.061	1.00	0.83	C
ATOM	7109	N	ASP	A	891	152.505	116.937	126.901	1.00	0.79	N
ATOM	7110	CA	ASP	A	891	153.712	117.349	127.582	1.00	0.79	C
ATOM	7111	C	ASP	A	891	153.473	117.708	129.058	1.00	0.79	C
ATOM	7112	O	ASP	A	891	154.136	117.241	129.986	1.00	0.79	O
ATOM	7113	CB	ASP	A	891	154.185	118.578	126.760	1.00	0.79	C
ATOM	7114	CG	ASP	A	891	155.690	118.735	126.695	1.00	0.79	C
ATOM	7115	OD1	ASP	A	891	156.416	117.989	127.392	1.00	0.79	O
ATOM	7116	OD2	ASP	A	891	156.107	119.625	125.909	1.00	0.79	O
ATOM	7117	N	ALA	A	892	152.414	118.510	129.315	1.00	0.84	N
ATOM	7118	CA	ALA	A	892	152.059	119.024	130.625	1.00	0.84	C
ATOM	7119	C	ALA	A	892	151.717	117.943	131.642	1.00	0.84	C
ATOM	7120	O	ALA	A	892	152.043	118.046	132.827	1.00	0.84	O
ATOM	7121	CB	ALA	A	892	150.879	120.006	130.491	1.00	0.84	C
ATOM	7122	N	ALA	A	893	151.067	116.857	131.176	1.00	0.84	N
ATOM	7123	CA	ALA	A	893	150.682	115.706	131.964	1.00	0.84	C
ATOM	7124	C	ALA	A	893	151.847	115.003	132.657	1.00	0.84	C
ATOM	7125	O	ALA	A	893	151.707	114.537	133.786	1.00	0.84	O
ATOM	7126	CB	ALA	A	893	149.914	114.703	131.081	1.00	0.84	C
ATOM	7127	N	GLY	A	894	153.040	114.938	132.019	1.00	0.80	N
ATOM	7128	CA	GLY	A	894	154.223	114.291	132.593	1.00	0.80	C
ATOM	7129	C	GLY	A	894	154.734	114.900	133.880	1.00	0.80	C
ATOM	7130	O	GLY	A	894	155.156	114.192	134.789	1.00	0.80	O
ATOM	7131	N	HIS	A	895	154.653	116.238	134.017	1.00	0.75	N
ATOM	7132	CA	HIS	A	895	155.049	116.912	135.247	1.00	0.75	C
ATOM	7133	C	HIS	A	895	153.869	117.150	136.168	1.00	0.75	C
ATOM	7134	O	HIS	A	895	154.013	117.161	137.390	1.00	0.75	O
ATOM	7135	CB	HIS	A	895	155.718	118.272	134.958	1.00	0.75	C
ATOM	7136	CG	HIS	A	895	156.997	118.109	134.208	1.00	0.75	C
ATOM	7137	ND1	HIS	A	895	158.099	117.597	134.865	1.00	0.75	N
ATOM	7138	CD2	HIS	A	895	157.293	118.355	132.906	1.00	0.75	C
ATOM	7139	CE1	HIS	A	895	159.046	117.543	133.949	1.00	0.75	C

ATOM	7140	NE2	HIS	A	895	158.611	117.990	132.746	1.00	0.75	N
ATOM	7141	N	ALA	A	896	152.643	117.297	135.616	1.00	0.80	N
ATOM	7142	CA	ALA	A	896	151.425	117.399	136.398	1.00	0.80	C
ATOM	7143	C	ALA	A	896	151.139	116.146	137.203	1.00	0.80	C
ATOM	7144	O	ALA	A	896	150.770	116.222	138.374	1.00	0.80	O
ATOM	7145	CB	ALA	A	896	150.225	117.725	135.487	1.00	0.80	C
ATOM	7146	N	TRP	A	897	151.361	114.953	136.612	1.00	0.78	N
ATOM	7147	CA	TRP	A	897	151.263	113.705	137.331	1.00	0.78	C
ATOM	7148	C	TRP	A	897	152.246	113.613	138.510	1.00	0.78	C
ATOM	7149	O	TRP	A	897	151.866	113.264	139.627	1.00	0.78	O
ATOM	7150	CB	TRP	A	897	151.448	112.505	136.341	1.00	0.78	C
ATOM	7151	CG	TRP	A	897	151.598	111.203	137.079	1.00	0.78	C
ATOM	7152	CD1	TRP	A	897	152.769	110.574	137.399	1.00	0.78	C
ATOM	7153	CD2	TRP	A	897	150.662	110.828	138.126	1.00	0.78	C
ATOM	7154	NE1	TRP	A	897	152.669	109.912	138.617	1.00	0.78	N
ATOM	7155	CE2	TRP	A	897	151.362	110.129	139.062	1.00	0.78	C
ATOM	7156	CE3	TRP	A	897	149.313	111.185	138.302	1.00	0.78	C
ATOM	7157	CZ2	TRP	A	897	150.764	109.724	140.267	1.00	0.78	C
ATOM	7158	CZ3	TRP	A	897	148.691	110.760	139.495	1.00	0.78	C
ATOM	7159	CH2	TRP	A	897	149.404	110.049	140.460	1.00	0.78	C
ATOM	7160	N	LYS	A	898	153.533	113.963	138.308	1.00	0.78	N
ATOM	7161	CA	LYS	A	898	154.518	113.894	139.371	1.00	0.78	C
ATOM	7162	C	LYS	A	898	154.180	114.810	140.541	1.00	0.78	C
ATOM	7163	O	LYS	A	898	154.301	114.427	141.701	1.00	0.78	O
ATOM	7164	CB	LYS	A	898	155.936	114.214	138.845	1.00	0.78	C
ATOM	7165	CG	LYS	A	898	156.995	114.101	139.955	1.00	0.78	C
ATOM	7166	CD	LYS	A	898	158.404	114.511	139.516	1.00	0.78	C
ATOM	7167	CE	LYS	A	898	159.404	114.587	140.680	1.00	0.78	C
ATOM	7168	NZ	LYS	A	898	158.989	115.589	141.683	1.00	0.78	N
ATOM	7169	N	ALA	A	899	153.689	116.031	140.252	1.00	0.80	N
ATOM	7170	CA	ALA	A	899	153.245	116.978	141.254	1.00	0.80	C
ATOM	7171	C	ALA	A	899	152.109	116.453	142.138	1.00	0.80	C
ATOM	7172	O	ALA	A	899	152.113	116.648	143.351	1.00	0.80	O
ATOM	7173	CB	ALA	A	899	152.828	118.286	140.551	1.00	0.80	C
ATOM	7174	N	VAL	A	900	151.131	115.724	141.554	1.00	0.80	N
ATOM	7175	CA	VAL	A	900	150.095	115.003	142.295	1.00	0.80	C
ATOM	7176	C	VAL	A	900	150.665	113.894	143.183	1.00	0.80	C
ATOM	7177	O	VAL	A	900	150.253	113.724	144.329	1.00	0.80	O
ATOM	7178	CB	VAL	A	900	149.018	114.447	141.357	1.00	0.80	C
ATOM	7179	CG1	VAL	A	900	147.966	113.609	142.120	1.00	0.80	C
ATOM	7180	CG2	VAL	A	900	148.312	115.629	140.664	1.00	0.80	C
ATOM	7181	N	LEU	A	901	151.666	113.130	142.695	1.00	0.79	N
ATOM	7182	CA	LEU	A	901	152.283	112.033	143.434	1.00	0.79	C
ATOM	7183	C	LEU	A	901	153.188	112.480	144.580	1.00	0.79	C
ATOM	7184	O	LEU	A	901	153.527	111.708	145.478	1.00	0.79	O
ATOM	7185	CB	LEU	A	901	153.120	111.158	142.464	1.00	0.79	C
ATOM	7186	CG	LEU	A	901	153.643	109.814	143.034	1.00	0.79	C
ATOM	7187	CD1	LEU	A	901	152.561	108.933	143.686	1.00	0.79	C
ATOM	7188	CD2	LEU	A	901	154.392	109.009	141.965	1.00	0.79	C
ATOM	7189	N	ASP	A	902	153.612	113.754	144.596	1.00	0.80	N
ATOM	7190	CA	ASP	A	902	154.411	114.285	145.681	1.00	0.80	C
ATOM	7191	C	ASP	A	902	153.530	114.860	146.810	1.00	0.80	C
ATOM	7192	O	ASP	A	902	154.030	115.146	147.899	1.00	0.80	O
ATOM	7193	CB	ASP	A	902	155.473	115.277	145.125	1.00	0.80	C
ATOM	7194	CG	ASP	A	902	156.555	114.559	144.328	1.00	0.80	C
ATOM	7195	OD1	ASP	A	902	156.878	113.378	144.632	1.00	0.80	O
ATOM	7196	OD2	ASP	A	902	157.140	115.204	143.418	1.00	0.80	O
ATOM	7197	N	ASP	A	903	152.185	114.931	146.627	1.00	0.77	N
ATOM	7198	CA	ASP	A	903	151.224	115.039	147.723	1.00	0.77	C
ATOM	7199	C	ASP	A	903	150.589	113.655	147.932	1.00	0.77	C
ATOM	7200	O	ASP	A	903	151.169	112.622	147.604	1.00	0.77	O
ATOM	7201	CB	ASP	A	903	150.158	116.157	147.479	1.00	0.77	C
ATOM	7202	CG	ASP	A	903	149.447	116.673	148.728	1.00	0.77	C
ATOM	7203	OD1	ASP	A	903	149.785	116.303	149.892	1.00	0.77	O
ATOM	7204	OD2	ASP	A	903	148.484	117.463	148.550	1.00	0.77	O

ATOM	7205	N	LYS	A	904	149.389	113.586	148.544	1.00	0.67	N
ATOM	7206	CA	LYS	A	904	148.750	112.324	148.892	1.00	0.67	C
ATOM	7207	C	LYS	A	904	147.232	112.426	148.782	1.00	0.67	C
ATOM	7208	O	LYS	A	904	146.502	111.678	149.429	1.00	0.67	O
ATOM	7209	CB	LYS	A	904	149.119	111.885	150.346	1.00	0.67	C
ATOM	7210	CG	LYS	A	904	150.621	111.606	150.548	1.00	0.67	C
ATOM	7211	CD	LYS	A	904	150.985	111.058	151.936	1.00	0.67	C
ATOM	7212	CE	LYS	A	904	152.481	110.733	152.046	1.00	0.67	C
ATOM	7213	NZ	LYS	A	904	152.797	110.132	153.362	1.00	0.67	N
ATOM	7214	N	CYS	A	905	146.701	113.378	147.983	1.00	0.75	N
ATOM	7215	CA	CYS	A	905	145.262	113.574	147.888	1.00	0.75	C
ATOM	7216	C	CYS	A	905	144.846	114.406	146.678	1.00	0.75	C
ATOM	7217	O	CYS	A	905	145.625	115.149	146.091	1.00	0.75	O
ATOM	7218	CB	CYS	A	905	144.674	114.207	149.187	1.00	0.75	C
ATOM	7219	SG	CYS	A	905	145.625	115.643	149.801	1.00	0.75	S
ATOM	7220	N	MET	A	906	143.557	114.307	146.288	1.00	0.81	N
ATOM	7221	CA	MET	A	906	142.976	114.976	145.127	1.00	0.81	C
ATOM	7222	C	MET	A	906	142.618	116.457	145.291	1.00	0.81	C
ATOM	7223	O	MET	A	906	142.316	117.129	144.307	1.00	0.81	O
ATOM	7224	CB	MET	A	906	141.685	114.218	144.726	1.00	0.81	C
ATOM	7225	CG	MET	A	906	141.953	112.988	143.837	1.00	0.81	C
ATOM	7226	SD	MET	A	906	141.978	113.360	142.054	1.00	0.81	S
ATOM	7227	CE	MET	A	906	140.197	113.685	141.866	1.00	0.81	C
ATOM	7228	N	ARG	A	907	142.615	117.006	146.525	1.00	0.79	N
ATOM	7229	CA	ARG	A	907	142.283	118.405	146.808	1.00	0.79	C
ATOM	7230	C	ARG	A	907	140.946	118.915	146.244	1.00	0.79	C
ATOM	7231	O	ARG	A	907	140.886	119.873	145.470	1.00	0.79	O
ATOM	7232	CB	ARG	A	907	143.428	119.389	146.432	1.00	0.79	C
ATOM	7233	CG	ARG	A	907	144.809	119.083	147.048	1.00	0.79	C
ATOM	7234	CD	ARG	A	907	144.833	119.355	148.548	1.00	0.79	C
ATOM	7235	NE	ARG	A	907	146.197	119.058	149.056	1.00	0.79	N
ATOM	7236	CZ	ARG	A	907	146.485	119.095	150.353	1.00	0.79	C
ATOM	7237	NH1	ARG	A	907	145.680	119.626	151.263	1.00	0.79	N
ATOM	7238	NH2	ARG	A	907	147.590	118.509	150.781	1.00	0.79	N
ATOM	7239	N	ILE	A	908	139.828	118.273	146.629	1.00	0.85	N
ATOM	7240	CA	ILE	A	908	138.510	118.564	146.089	1.00	0.85	C
ATOM	7241	C	ILE	A	908	137.839	119.652	146.919	1.00	0.85	C
ATOM	7242	O	ILE	A	908	137.972	119.718	148.140	1.00	0.85	O
ATOM	7243	CB	ILE	A	908	137.660	117.289	146.002	1.00	0.85	C
ATOM	7244	CG1	ILE	A	908	138.396	116.240	145.125	1.00	0.85	C
ATOM	7245	CG2	ILE	A	908	136.253	117.603	145.441	1.00	0.85	C
ATOM	7246	CD1	ILE	A	908	137.657	114.905	144.963	1.00	0.85	C
ATOM	7247	N	CYS	A	909	137.105	120.571	146.268	1.00	0.85	N
ATOM	7248	CA	CYS	A	909	136.301	121.561	146.951	1.00	0.85	C
ATOM	7249	C	CYS	A	909	134.871	121.408	146.464	1.00	0.85	C
ATOM	7250	O	CYS	A	909	134.613	121.004	145.333	1.00	0.85	O
ATOM	7251	CB	CYS	A	909	136.889	122.985	146.754	1.00	0.85	C
ATOM	7252	SG	CYS	A	909	135.989	124.305	147.637	1.00	0.85	S
ATOM	7253	N	LEU	A	910	133.891	121.659	147.345	1.00	0.83	N
ATOM	7254	CA	LEU	A	910	132.499	121.372	147.080	1.00	0.83	C
ATOM	7255	C	LEU	A	910	131.730	122.640	146.730	1.00	0.83	C
ATOM	7256	O	LEU	A	910	132.121	123.751	147.084	1.00	0.83	O
ATOM	7257	CB	LEU	A	910	131.879	120.646	148.303	1.00	0.83	C
ATOM	7258	CG	LEU	A	910	132.698	119.421	148.788	1.00	0.83	C
ATOM	7259	CD1	LEU	A	910	132.050	118.758	150.011	1.00	0.83	C
ATOM	7260	CD2	LEU	A	910	132.896	118.359	147.700	1.00	0.83	C
ATOM	7261	N	PHE	A	911	130.618	122.493	145.991	1.00	0.72	N
ATOM	7262	CA	PHE	A	911	129.790	123.586	145.525	1.00	0.72	C
ATOM	7263	C	PHE	A	911	128.350	123.094	145.565	1.00	0.72	C
ATOM	7264	O	PHE	A	911	128.074	121.918	145.320	1.00	0.72	O
ATOM	7265	CB	PHE	A	911	130.227	123.984	144.079	1.00	0.72	C
ATOM	7266	CG	PHE	A	911	129.376	125.047	143.416	1.00	0.72	C
ATOM	7267	CD1	PHE	A	911	128.154	124.717	142.798	1.00	0.72	C
ATOM	7268	CD2	PHE	A	911	129.800	126.384	143.389	1.00	0.72	C
ATOM	7269	CE1	PHE	A	911	127.375	125.696	142.170	1.00	0.72	C

ATOM	7270	CE2	PHE	A	911	129.027	127.365	142.753	1.00	0.72	C
ATOM	7271	CZ	PHE	A	911	127.816	127.022	142.142	1.00	0.72	C
ATOM	7272	N	LYS	A	912	127.389	123.985	145.887	1.00	0.70	N
ATOM	7273	CA	LYS	A	912	125.990	123.621	145.956	1.00	0.70	C
ATOM	7274	C	LYS	A	912	125.071	124.732	145.475	1.00	0.70	C
ATOM	7275	O	LYS	A	912	125.147	125.879	145.900	1.00	0.70	O
ATOM	7276	CB	LYS	A	912	125.611	123.246	147.408	1.00	0.70	C
ATOM	7277	CG	LYS	A	912	124.110	123.007	147.631	1.00	0.70	C
ATOM	7278	CD	LYS	A	912	123.833	121.991	148.742	1.00	0.70	C
ATOM	7279	CE	LYS	A	912	122.339	121.762	148.947	1.00	0.70	C
ATOM	7280	NZ	LYS	A	912	122.130	120.574	149.796	1.00	0.70	N
ATOM	7281	N	LYS	A	913	124.120	124.394	144.585	1.00	0.60	N
ATOM	7282	CA	LYS	A	913	123.118	125.312	144.078	1.00	0.60	C
ATOM	7283	C	LYS	A	913	121.719	124.935	144.564	1.00	0.60	C
ATOM	7284	O	LYS	A	913	121.416	123.796	144.923	1.00	0.60	O
ATOM	7285	CB	LYS	A	913	123.187	125.418	142.531	1.00	0.60	C
ATOM	7286	CG	LYS	A	913	123.479	124.079	141.848	1.00	0.60	C
ATOM	7287	CD	LYS	A	913	123.621	124.154	140.324	1.00	0.60	C
ATOM	7288	CE	LYS	A	913	124.234	122.847	139.817	1.00	0.60	C
ATOM	7289	NZ	LYS	A	913	124.353	122.830	138.347	1.00	0.60	N
ATOM	7290	N	ASN	A	914	120.832	125.943	144.639	1.00	0.57	N
ATOM	7291	CA	ASN	A	914	119.499	125.886	145.208	1.00	0.57	C
ATOM	7292	C	ASN	A	914	118.420	125.662	144.157	1.00	0.57	C
ATOM	7293	O	ASN	A	914	118.057	126.561	143.411	1.00	0.57	O
ATOM	7294	CB	ASN	A	914	119.169	127.189	146.012	1.00	0.57	C
ATOM	7295	CG	ASN	A	914	119.542	128.501	145.297	1.00	0.57	C
ATOM	7296	OD1	ASN	A	914	120.502	128.596	144.528	1.00	0.57	O
ATOM	7297	ND2	ASN	A	914	118.790	129.584	145.602	1.00	0.57	N
ATOM	7298	N	GLN	A	915	117.859	124.446	144.092	1.00	0.60	N
ATOM	7299	CA	GLN	A	915	116.816	124.126	143.132	1.00	0.60	C
ATOM	7300	C	GLN	A	915	115.978	122.967	143.655	1.00	0.60	C
ATOM	7301	O	GLN	A	915	115.321	122.259	142.898	1.00	0.60	O
ATOM	7302	CB	GLN	A	915	117.418	123.820	141.726	1.00	0.60	C
ATOM	7303	CG	GLN	A	915	118.586	122.806	141.737	1.00	0.60	C
ATOM	7304	CD	GLN	A	915	119.166	122.457	140.359	1.00	0.60	C
ATOM	7305	OE1	GLN	A	915	118.756	122.838	139.256	1.00	0.60	O
ATOM	7306	NE2	GLN	A	915	120.246	121.640	140.439	1.00	0.60	N
ATOM	7307	N	HIS	A	916	115.997	122.764	144.996	1.00	0.56	N
ATOM	7308	CA	HIS	A	916	115.523	121.610	145.763	1.00	0.56	C
ATOM	7309	C	HIS	A	916	115.862	120.201	145.278	1.00	0.56	C
ATOM	7310	O	HIS	A	916	116.513	119.447	146.000	1.00	0.56	O
ATOM	7311	CB	HIS	A	916	114.047	121.753	146.184	1.00	0.56	C
ATOM	7312	CG	HIS	A	916	113.794	123.021	146.949	1.00	0.56	C
ATOM	7313	ND1	HIS	A	916	114.715	123.489	147.882	1.00	0.56	N
ATOM	7314	CD2	HIS	A	916	112.754	123.886	146.837	1.00	0.56	C
ATOM	7315	CE1	HIS	A	916	114.203	124.633	148.305	1.00	0.56	C
ATOM	7316	NE2	HIS	A	916	113.024	124.917	147.707	1.00	0.56	N
ATOM	7317	N	GLY	A	917	115.454	119.800	144.060	1.00	0.60	N
ATOM	7318	CA	GLY	A	917	115.771	118.513	143.451	1.00	0.60	C
ATOM	7319	C	GLY	A	917	116.814	118.603	142.358	1.00	0.60	C
ATOM	7320	O	GLY	A	917	117.451	119.627	142.138	1.00	0.60	O
ATOM	7321	N	GLY	A	918	117.031	117.497	141.613	1.00	0.58	N
ATOM	7322	CA	GLY	A	918	118.034	117.441	140.548	1.00	0.58	C
ATOM	7323	C	GLY	A	918	119.476	117.500	141.000	1.00	0.58	C
ATOM	7324	O	GLY	A	918	119.795	117.354	142.177	1.00	0.58	O
ATOM	7325	N	LEU	A	919	120.407	117.665	140.036	1.00	0.55	N
ATOM	7326	CA	LEU	A	919	121.840	117.654	140.285	1.00	0.55	C
ATOM	7327	C	LEU	A	919	122.313	118.963	140.917	1.00	0.55	C
ATOM	7328	O	LEU	A	919	122.666	119.913	140.217	1.00	0.55	O
ATOM	7329	CB	LEU	A	919	122.649	117.399	138.980	1.00	0.55	C
ATOM	7330	CG	LEU	A	919	122.158	116.249	138.067	1.00	0.55	C
ATOM	7331	CD1	LEU	A	919	123.210	115.962	136.983	1.00	0.55	C
ATOM	7332	CD2	LEU	A	919	121.815	114.952	138.815	1.00	0.55	C
ATOM	7333	N	ARG	A	920	122.258	119.065	142.261	1.00	0.58	N
ATOM	7334	CA	ARG	A	920	122.579	120.269	143.011	1.00	0.58	C

ATOM	7335	C	ARG	A	920	124.056	120.385	143.337	1.00	0.58	C
ATOM	7336	O	ARG	A	920	124.652	121.455	143.207	1.00	0.58	O
ATOM	7337	CB	ARG	A	920	121.772	120.310	144.331	1.00	0.58	C
ATOM	7338	CG	ARG	A	920	120.248	120.222	144.122	1.00	0.58	C
ATOM	7339	CD	ARG	A	920	119.601	119.057	144.875	1.00	0.58	C
ATOM	7340	NE	ARG	A	920	119.581	119.414	146.330	1.00	0.58	N
ATOM	7341	CZ	ARG	A	920	119.056	118.611	147.265	1.00	0.58	C
ATOM	7342	NH1	ARG	A	920	118.767	117.342	147.009	1.00	0.58	N
ATOM	7343	NH2	ARG	A	920	118.713	119.114	148.449	1.00	0.58	N
ATOM	7344	N	GLU	A	921	124.660	119.275	143.788	1.00	0.66	N
ATOM	7345	CA	GLU	A	921	126.070	119.108	144.046	1.00	0.66	C
ATOM	7346	C	GLU	A	921	126.975	119.276	142.833	1.00	0.66	C
ATOM	7347	O	GLU	A	921	126.703	118.786	141.737	1.00	0.66	O
ATOM	7348	CB	GLU	A	921	126.339	117.705	144.651	1.00	0.66	C
ATOM	7349	CG	GLU	A	921	125.562	117.410	145.965	1.00	0.66	C
ATOM	7350	CD	GLU	A	921	124.184	116.761	145.814	1.00	0.66	C
ATOM	7351	OE1	GLU	A	921	123.992	115.648	146.370	1.00	0.66	O
ATOM	7352	OE2	GLU	A	921	123.273	117.351	145.177	1.00	0.66	O
ATOM	7353	N	ILE	A	922	128.120	119.952	143.031	1.00	0.72	N
ATOM	7354	CA	ILE	A	922	129.188	120.042	142.055	1.00	0.72	C
ATOM	7355	C	ILE	A	922	130.468	119.877	142.846	1.00	0.72	C
ATOM	7356	O	ILE	A	922	130.613	120.394	143.954	1.00	0.72	O
ATOM	7357	CB	ILE	A	922	129.173	121.369	141.275	1.00	0.72	C
ATOM	7358	CG1	ILE	A	922	128.077	121.345	140.179	1.00	0.72	C
ATOM	7359	CG2	ILE	A	922	130.556	121.721	140.671	1.00	0.72	C
ATOM	7360	CD1	ILE	A	922	127.938	122.661	139.400	1.00	0.72	C
ATOM	7361	N	TYR	A	923	131.436	119.123	142.296	1.00	0.83	N
ATOM	7362	CA	TYR	A	923	132.723	118.909	142.919	1.00	0.83	C
ATOM	7363	C	TYR	A	923	133.774	119.551	142.032	1.00	0.83	C
ATOM	7364	O	TYR	A	923	134.012	119.122	140.903	1.00	0.83	O
ATOM	7365	CB	TYR	A	923	133.009	117.390	143.090	1.00	0.83	C
ATOM	7366	CG	TYR	A	923	131.871	116.674	143.787	1.00	0.83	C
ATOM	7367	CD1	TYR	A	923	131.210	117.218	144.905	1.00	0.83	C
ATOM	7368	CD2	TYR	A	923	131.430	115.437	143.289	1.00	0.83	C
ATOM	7369	CE1	TYR	A	923	130.119	116.558	145.489	1.00	0.83	C
ATOM	7370	CE2	TYR	A	923	130.368	114.755	143.898	1.00	0.83	C
ATOM	7371	CZ	TYR	A	923	129.698	115.329	144.980	1.00	0.83	C
ATOM	7372	OH	TYR	A	923	128.569	114.687	145.520	1.00	0.83	O
ATOM	7373	N	VAL	A	924	134.425	120.627	142.516	1.00	0.86	N
ATOM	7374	CA	VAL	A	924	135.450	121.330	141.765	1.00	0.86	C
ATOM	7375	C	VAL	A	924	136.815	120.830	142.195	1.00	0.86	C
ATOM	7376	O	VAL	A	924	137.140	120.698	143.377	1.00	0.86	O
ATOM	7377	CB	VAL	A	924	135.369	122.859	141.818	1.00	0.86	C
ATOM	7378	CG1	VAL	A	924	134.137	123.325	141.022	1.00	0.86	C
ATOM	7379	CG2	VAL	A	924	135.292	123.384	143.261	1.00	0.86	C
ATOM	7380	N	THR	A	925	137.652	120.488	141.202	1.00	0.86	N
ATOM	7381	CA	THR	A	925	138.937	119.846	141.412	1.00	0.86	C
ATOM	7382	C	THR	A	925	140.044	120.791	141.025	1.00	0.86	C
ATOM	7383	O	THR	A	925	139.864	121.709	140.225	1.00	0.86	O
ATOM	7384	CB	THR	A	925	139.115	118.532	140.641	1.00	0.86	C
ATOM	7385	OG1	THR	A	925	139.053	118.687	139.223	1.00	0.86	O
ATOM	7386	CG2	THR	A	925	137.994	117.560	141.027	1.00	0.86	C
ATOM	7387	N	ASN	A	926	141.251	120.599	141.591	1.00	0.83	N
ATOM	7388	CA	ASN	A	926	142.400	121.403	141.223	1.00	0.83	C
ATOM	7389	C	ASN	A	926	142.838	121.165	139.779	1.00	0.83	C
ATOM	7390	O	ASN	A	926	142.538	120.139	139.162	1.00	0.83	O
ATOM	7391	CB	ASN	A	926	143.576	121.326	142.239	1.00	0.83	C
ATOM	7392	CG	ASN	A	926	144.381	120.041	142.115	1.00	0.83	C
ATOM	7393	OD1	ASN	A	926	145.327	119.978	141.326	1.00	0.83	O
ATOM	7394	ND2	ASN	A	926	144.009	118.989	142.866	1.00	0.83	N
ATOM	7395	N	ALA	A	927	143.568	122.128	139.198	1.00	0.86	N
ATOM	7396	CA	ALA	A	927	144.007	122.055	137.827	1.00	0.86	C
ATOM	7397	C	ALA	A	927	144.898	120.854	137.496	1.00	0.86	C
ATOM	7398	O	ALA	A	927	144.793	120.278	136.420	1.00	0.86	O
ATOM	7399	CB	ALA	A	927	144.700	123.371	137.454	1.00	0.86	C

ATOM	7400	N	ASN	A	928	145.782	120.416	138.421	1.00	0.80	N
ATOM	7401	CA	ASN	A	928	146.633	119.242	138.233	1.00	0.80	C
ATOM	7402	C	ASN	A	928	145.831	117.950	138.119	1.00	0.80	C
ATOM	7403	O	ASN	A	928	146.077	117.132	137.237	1.00	0.80	O
ATOM	7404	CB	ASN	A	928	147.683	119.094	139.362	1.00	0.80	C
ATOM	7405	CG	ASN	A	928	148.373	120.434	139.569	1.00	0.80	C
ATOM	7406	OD1	ASN	A	928	149.052	120.948	138.673	1.00	0.80	O
ATOM	7407	ND2	ASN	A	928	148.145	121.048	140.754	1.00	0.80	N
ATOM	7408	N	ALA	A	929	144.794	117.786	138.972	1.00	0.87	N
ATOM	7409	CA	ALA	A	929	143.828	116.703	138.899	1.00	0.87	C
ATOM	7410	C	ALA	A	929	143.046	116.705	137.582	1.00	0.87	C
ATOM	7411	O	ALA	A	929	142.815	115.669	136.960	1.00	0.87	O
ATOM	7412	CB	ALA	A	929	142.858	116.789	140.098	1.00	0.87	C
ATOM	7413	N	ARG	A	930	142.656	117.898	137.086	1.00	0.78	N
ATOM	7414	CA	ARG	A	930	142.056	118.061	135.769	1.00	0.78	C
ATOM	7415	C	ARG	A	930	142.940	117.653	134.591	1.00	0.78	C
ATOM	7416	O	ARG	A	930	142.443	117.064	133.631	1.00	0.78	O
ATOM	7417	CB	ARG	A	930	141.524	119.501	135.544	1.00	0.78	C
ATOM	7418	CG	ARG	A	930	140.294	119.796	136.430	1.00	0.78	C
ATOM	7419	CD	ARG	A	930	139.177	120.647	135.805	1.00	0.78	C
ATOM	7420	NE	ARG	A	930	138.723	119.967	134.536	1.00	0.78	N
ATOM	7421	CZ	ARG	A	930	138.127	118.768	134.516	1.00	0.78	C
ATOM	7422	NH1	ARG	A	930	137.490	118.255	135.563	1.00	0.78	N
ATOM	7423	NH2	ARG	A	930	138.167	118.036	133.407	1.00	0.78	N
ATOM	7424	N	LEU	A	931	144.259	117.936	134.641	1.00	0.83	N
ATOM	7425	CA	LEU	A	931	145.204	117.600	133.582	1.00	0.83	C
ATOM	7426	C	LEU	A	931	145.556	116.117	133.502	1.00	0.83	C
ATOM	7427	O	LEU	A	931	146.135	115.666	132.513	1.00	0.83	O
ATOM	7428	CB	LEU	A	931	146.532	118.401	133.686	1.00	0.83	C
ATOM	7429	CG	LEU	A	931	146.429	119.934	133.515	1.00	0.83	C
ATOM	7430	CD1	LEU	A	931	147.836	120.535	133.384	1.00	0.83	C
ATOM	7431	CD2	LEU	A	931	145.577	120.365	132.312	1.00	0.83	C
ATOM	7432	N	VAL	A	932	145.210	115.304	134.516	1.00	0.85	N
ATOM	7433	CA	VAL	A	932	145.300	113.855	134.398	1.00	0.85	C
ATOM	7434	C	VAL	A	932	143.927	113.234	134.130	1.00	0.85	C
ATOM	7435	O	VAL	A	932	143.807	112.299	133.340	1.00	0.85	O
ATOM	7436	CB	VAL	A	932	146.044	113.254	135.592	1.00	0.85	C
ATOM	7437	CG1	VAL	A	932	145.396	113.634	136.933	1.00	0.85	C
ATOM	7438	CG2	VAL	A	932	146.199	111.728	135.442	1.00	0.85	C
ATOM	7439	N	GLN	A	933	142.825	113.781	134.698	1.00	0.82	N
ATOM	7440	CA	GLN	A	933	141.470	113.288	134.465	1.00	0.82	C
ATOM	7441	C	GLN	A	933	140.970	113.422	133.033	1.00	0.82	C
ATOM	7442	O	GLN	A	933	140.350	112.505	132.497	1.00	0.82	O
ATOM	7443	CB	GLN	A	933	140.465	113.945	135.447	1.00	0.82	C
ATOM	7444	CG	GLN	A	933	139.002	113.429	135.334	1.00	0.82	C
ATOM	7445	CD	GLN	A	933	138.072	114.335	134.518	1.00	0.82	C
ATOM	7446	OE1	GLN	A	933	138.236	115.559	134.428	1.00	0.82	O
ATOM	7447	NE2	GLN	A	933	137.008	113.747	133.935	1.00	0.82	N
ATOM	7448	N	PHE	A	934	141.253	114.556	132.351	1.00	0.82	N
ATOM	7449	CA	PHE	A	934	140.825	114.795	130.975	1.00	0.82	C
ATOM	7450	C	PHE	A	934	141.359	113.732	130.009	1.00	0.82	C
ATOM	7451	O	PHE	A	934	140.634	113.211	129.159	1.00	0.82	O
ATOM	7452	CB	PHE	A	934	141.262	116.232	130.552	1.00	0.82	C
ATOM	7453	CG	PHE	A	934	140.889	116.575	129.129	1.00	0.82	C
ATOM	7454	CD1	PHE	A	934	139.552	116.769	128.741	1.00	0.82	C
ATOM	7455	CD2	PHE	A	934	141.891	116.649	128.149	1.00	0.82	C
ATOM	7456	CE1	PHE	A	934	139.231	117.030	127.400	1.00	0.82	C
ATOM	7457	CE2	PHE	A	934	141.579	116.900	126.810	1.00	0.82	C
ATOM	7458	CZ	PHE	A	934	140.245	117.092	126.434	1.00	0.82	C
ATOM	7459	N	GLY	A	935	142.640	113.346	130.181	1.00	0.87	N
ATOM	7460	CA	GLY	A	935	143.304	112.317	129.395	1.00	0.87	C
ATOM	7461	C	GLY	A	935	142.721	110.935	129.527	1.00	0.87	C
ATOM	7462	O	GLY	A	935	142.784	110.151	128.589	1.00	0.87	O
ATOM	7463	N	VAL	A	936	142.126	110.591	130.683	1.00	0.86	N
ATOM	7464	CA	VAL	A	936	141.448	109.314	130.874	1.00	0.86	C

ATOM	7465	C	VAL	A	936	140.006	109.360	130.383	1.00	0.86	C
ATOM	7466	O	VAL	A	936	139.529	108.447	129.710	1.00	0.86	O
ATOM	7467	CB	VAL	A	936	141.506	108.850	132.328	1.00	0.86	C
ATOM	7468	CG1	VAL	A	936	140.846	107.462	132.482	1.00	0.86	C
ATOM	7469	CG2	VAL	A	936	142.984	108.765	132.761	1.00	0.86	C
ATOM	7470	N	GLU	A	937	139.260	110.446	130.672	1.00	0.85	N
ATOM	7471	CA	GLU	A	937	137.847	110.555	130.327	1.00	0.85	C
ATOM	7472	C	GLU	A	937	137.572	110.575	128.822	1.00	0.85	C
ATOM	7473	O	GLU	A	937	136.574	110.043	128.334	1.00	0.85	O
ATOM	7474	CB	GLU	A	937	137.193	111.756	131.052	1.00	0.85	C
ATOM	7475	CG	GLU	A	937	135.650	111.639	131.205	1.00	0.85	C
ATOM	7476	CD	GLU	A	937	135.182	110.513	132.135	1.00	0.85	C
ATOM	7477	OE1	GLU	A	937	136.021	109.858	132.798	1.00	0.85	O
ATOM	7478	OE2	GLU	A	937	133.940	110.300	132.192	1.00	0.85	O
ATOM	7479	N	THR	A	938	138.505	111.141	128.019	1.00	0.88	N
ATOM	7480	CA	THR	A	938	138.477	111.034	126.553	1.00	0.88	C
ATOM	7481	C	THR	A	938	138.533	109.584	126.065	1.00	0.88	C
ATOM	7482	O	THR	A	938	137.763	109.172	125.197	1.00	0.88	O
ATOM	7483	CB	THR	A	938	139.532	111.907	125.855	1.00	0.88	C
ATOM	7484	OG1	THR	A	938	139.364	111.903	124.445	1.00	0.88	O
ATOM	7485	CG2	THR	A	938	140.975	111.478	126.152	1.00	0.88	C
ATOM	7486	N	MET	A	939	139.384	108.730	126.683	1.00	0.87	N
ATOM	7487	CA	MET	A	939	139.457	107.309	126.385	1.00	0.87	C
ATOM	7488	C	MET	A	939	138.161	106.588	126.699	1.00	0.87	C
ATOM	7489	O	MET	A	939	137.650	105.812	125.894	1.00	0.87	O
ATOM	7490	CB	MET	A	939	140.551	106.606	127.225	1.00	0.87	C
ATOM	7491	CG	MET	A	939	141.958	107.191	127.069	1.00	0.87	C
ATOM	7492	SD	MET	A	939	143.140	106.383	128.179	1.00	0.87	S
ATOM	7493	CE	MET	A	939	144.516	107.426	127.643	1.00	0.87	C
ATOM	7494	N	ALA	A	940	137.577	106.881	127.879	1.00	0.92	N
ATOM	7495	CA	ALA	A	940	136.321	106.319	128.324	1.00	0.92	C
ATOM	7496	C	ALA	A	940	135.162	106.663	127.396	1.00	0.92	C
ATOM	7497	O	ALA	A	940	134.383	105.798	127.004	1.00	0.92	O
ATOM	7498	CB	ALA	A	940	136.021	106.818	129.751	1.00	0.92	C
ATOM	7499	N	ARG	A	941	135.061	107.936	126.966	1.00	0.83	N
ATOM	7500	CA	ARG	A	941	134.084	108.380	125.990	1.00	0.83	C
ATOM	7501	C	ARG	A	941	134.250	107.753	124.605	1.00	0.83	C
ATOM	7502	O	ARG	A	941	133.271	107.357	123.977	1.00	0.83	O
ATOM	7503	CB	ARG	A	941	134.079	109.925	125.914	1.00	0.83	C
ATOM	7504	CG	ARG	A	941	132.909	110.517	125.093	1.00	0.83	C
ATOM	7505	CD	ARG	A	941	133.283	110.979	123.680	1.00	0.83	C
ATOM	7506	NE	ARG	A	941	134.200	112.143	123.874	1.00	0.83	N
ATOM	7507	CZ	ARG	A	941	135.117	112.565	122.995	1.00	0.83	C
ATOM	7508	NH1	ARG	A	941	135.331	111.976	121.825	1.00	0.83	N
ATOM	7509	NH2	ARG	A	941	135.889	113.596	123.308	1.00	0.83	N
ATOM	7510	N	CYS	A	942	135.490	107.618	124.088	1.00	0.88	N
ATOM	7511	CA	CYS	A	942	135.768	106.924	122.832	1.00	0.88	C
ATOM	7512	C	CYS	A	942	135.443	105.434	122.839	1.00	0.88	C
ATOM	7513	O	CYS	A	942	134.901	104.917	121.866	1.00	0.88	O
ATOM	7514	CB	CYS	A	942	137.234	107.131	122.383	1.00	0.88	C
ATOM	7515	SG	CYS	A	942	137.496	108.831	121.783	1.00	0.88	S
ATOM	7516	N	VAL	A	943	135.735	104.704	123.939	1.00	0.89	N
ATOM	7517	CA	VAL	A	943	135.281	103.324	124.128	1.00	0.89	C
ATOM	7518	C	VAL	A	943	133.756	103.230	124.181	1.00	0.89	C
ATOM	7519	O	VAL	A	943	133.136	102.371	123.557	1.00	0.89	O
ATOM	7520	CB	VAL	A	943	135.881	102.707	125.398	1.00	0.89	C
ATOM	7521	CG1	VAL	A	943	135.323	101.292	125.667	1.00	0.89	C
ATOM	7522	CG2	VAL	A	943	137.409	102.604	125.240	1.00	0.89	C
ATOM	7523	N	CYS	A	944	133.110	104.158	124.915	1.00	0.86	N
ATOM	7524	CA	CYS	A	944	131.668	104.233	125.080	1.00	0.86	C
ATOM	7525	C	CYS	A	944	130.888	104.495	123.789	1.00	0.86	C
ATOM	7526	O	CYS	A	944	129.868	103.860	123.544	1.00	0.86	O
ATOM	7527	CB	CYS	A	944	131.342	105.309	126.153	1.00	0.86	C
ATOM	7528	SG	CYS	A	944	129.657	105.213	126.827	1.00	0.86	S
ATOM	7529	N	GLU	A	945	131.368	105.400	122.904	1.00	0.81	N

ATOM	7530	CA	GLU	A	945	130.653	105.877	121.716	1.00	0.81	C
ATOM	7531	C	GLU	A	945	130.229	104.790	120.729	1.00	0.81	C
ATOM	7532	O	GLU	A	945	129.195	104.870	120.077	1.00	0.81	O
ATOM	7533	CB	GLU	A	945	131.467	106.996	121.001	1.00	0.81	C
ATOM	7534	CG	GLU	A	945	130.622	107.997	120.154	1.00	0.81	C
ATOM	7535	CD	GLU	A	945	130.776	107.886	118.634	1.00	0.81	C
ATOM	7536	OE1	GLU	A	945	131.954	107.818	118.181	1.00	0.81	O
ATOM	7537	OE2	GLU	A	945	129.758	107.961	117.904	1.00	0.81	O
ATOM	7538	N	LEU	A	946	130.992	103.687	120.629	1.00	0.79	N
ATOM	7539	CA	LEU	A	946	130.694	102.609	119.704	1.00	0.79	C
ATOM	7540	C	LEU	A	946	129.846	101.494	120.332	1.00	0.79	C
ATOM	7541	O	LEU	A	946	129.554	100.479	119.695	1.00	0.79	O
ATOM	7542	CB	LEU	A	946	132.010	102.121	119.033	1.00	0.79	C
ATOM	7543	CG	LEU	A	946	133.211	101.805	119.957	1.00	0.79	C
ATOM	7544	CD1	LEU	A	946	133.102	100.419	120.604	1.00	0.79	C
ATOM	7545	CD2	LEU	A	946	134.530	101.919	119.170	1.00	0.79	C
ATOM	7546	N	SER	A	947	129.370	101.697	121.587	1.00	0.86	N
ATOM	7547	CA	SER	A	947	128.339	100.897	122.260	1.00	0.86	C
ATOM	7548	C	SER	A	947	126.993	100.927	121.523	1.00	0.86	C
ATOM	7549	O	SER	A	947	126.646	101.973	120.975	1.00	0.86	O
ATOM	7550	CB	SER	A	947	128.080	101.393	123.719	1.00	0.86	C
ATOM	7551	OG	SER	A	947	127.182	100.558	124.465	1.00	0.86	O
ATOM	7552	N	PRO	A	948	126.167	99.876	121.465	1.00	0.86	N
ATOM	7553	CA	PRO	A	948	124.843	99.991	120.862	1.00	0.86	C
ATOM	7554	C	PRO	A	948	123.803	100.516	121.838	1.00	0.86	C
ATOM	7555	O	PRO	A	948	122.774	100.999	121.373	1.00	0.86	O
ATOM	7556	CB	PRO	A	948	124.484	98.549	120.438	1.00	0.86	C
ATOM	7557	CG	PRO	A	948	125.815	97.792	120.454	1.00	0.86	C
ATOM	7558	CD	PRO	A	948	126.582	98.477	121.583	1.00	0.86	C
ATOM	7559	N	HIS	A	949	124.004	100.362	123.167	1.00	0.83	N
ATOM	7560	CA	HIS	A	949	122.903	100.482	124.125	1.00	0.83	C
ATOM	7561	C	HIS	A	949	122.866	101.812	124.868	1.00	0.83	C
ATOM	7562	O	HIS	A	949	121.854	102.158	125.481	1.00	0.83	O
ATOM	7563	CB	HIS	A	949	122.989	99.393	125.235	1.00	0.83	C
ATOM	7564	CG	HIS	A	949	123.322	98.000	124.784	1.00	0.83	C
ATOM	7565	ND1	HIS	A	949	122.753	97.454	123.645	1.00	0.83	N
ATOM	7566	CD2	HIS	A	949	124.183	97.110	125.349	1.00	0.83	C
ATOM	7567	CE1	HIS	A	949	123.288	96.258	123.538	1.00	0.83	C
ATOM	7568	NE2	HIS	A	949	124.152	95.994	124.542	1.00	0.83	N
ATOM	7569	N	GLU	A	950	123.978	102.575	124.804	1.00	0.83	N
ATOM	7570	CA	GLU	A	950	124.219	103.776	125.595	1.00	0.83	C
ATOM	7571	C	GLU	A	950	123.689	105.010	124.865	1.00	0.83	C
ATOM	7572	O	GLU	A	950	123.516	104.998	123.645	1.00	0.83	O
ATOM	7573	CB	GLU	A	950	125.737	103.903	125.934	1.00	0.83	C
ATOM	7574	CG	GLU	A	950	126.077	104.576	127.293	1.00	0.83	C
ATOM	7575	CD	GLU	A	950	125.908	106.086	127.319	1.00	0.83	C
ATOM	7576	OE1	GLU	A	950	124.939	106.546	127.978	1.00	0.83	O
ATOM	7577	OE2	GLU	A	950	126.704	106.826	126.685	1.00	0.83	O
ATOM	7578	N	THR	A	951	123.363	106.110	125.583	1.00	0.83	N
ATOM	7579	CA	THR	A	951	122.745	107.284	124.960	1.00	0.83	C
ATOM	7580	C	THR	A	951	123.364	108.616	125.330	1.00	0.83	C
ATOM	7581	O	THR	A	951	123.000	109.635	124.748	1.00	0.83	O
ATOM	7582	CB	THR	A	951	121.243	107.424	125.215	1.00	0.83	C
ATOM	7583	OG1	THR	A	951	120.913	107.775	126.558	1.00	0.83	O
ATOM	7584	CG2	THR	A	951	120.533	106.104	124.899	1.00	0.83	C
ATOM	7585	N	ILE	A	952	124.316	108.682	126.276	1.00	0.80	N
ATOM	7586	CA	ILE	A	952	124.980	109.925	126.637	1.00	0.80	C
ATOM	7587	C	ILE	A	952	126.055	110.249	125.618	1.00	0.80	C
ATOM	7588	O	ILE	A	952	126.176	111.381	125.149	1.00	0.80	O
ATOM	7589	CB	ILE	A	952	125.527	109.859	128.064	1.00	0.80	C
ATOM	7590	CG1	ILE	A	952	124.346	109.666	129.050	1.00	0.80	C
ATOM	7591	CG2	ILE	A	952	126.325	111.138	128.410	1.00	0.80	C
ATOM	7592	CD1	ILE	A	952	124.768	109.407	130.498	1.00	0.80	C
ATOM	7593	N	ALA	A	953	126.851	109.245	125.197	1.00	0.87	N
ATOM	7594	CA	ALA	A	953	127.750	109.401	124.070	1.00	0.87	C



ATOM	7595	C	ALA	A	953	127.015	109.529	122.732	1.00	0.87	C
ATOM	7596	O	ALA	A	953	127.400	110.308	121.861	1.00	0.87	O
ATOM	7597	CB	ALA	A	953	128.766	108.243	124.034	1.00	0.87	C
ATOM	7598	N	ASN	A	954	125.928	108.750	122.553	1.00	0.79	N
ATOM	7599	CA	ASN	A	954	125.194	108.598	121.310	1.00	0.79	C
ATOM	7600	C	ASN	A	954	123.799	109.278	121.353	1.00	0.79	C
ATOM	7601	O	ASN	A	954	122.790	108.567	121.366	1.00	0.79	O
ATOM	7602	CB	ASN	A	954	125.005	107.086	120.914	1.00	0.79	C
ATOM	7603	CG	ASN	A	954	126.049	106.075	121.422	1.00	0.79	C
ATOM	7604	OD1	ASN	A	954	126.484	106.052	122.571	1.00	0.79	O
ATOM	7605	ND2	ASN	A	954	126.390	105.112	120.537	1.00	0.79	N
ATOM	7606	N	PRO	A	955	123.601	110.602	121.353	1.00	0.80	N
ATOM	7607	CA	PRO	A	955	122.392	111.227	121.907	1.00	0.80	C
ATOM	7608	C	PRO	A	955	121.144	111.051	121.062	1.00	0.80	C
ATOM	7609	O	PRO	A	955	120.048	111.325	121.541	1.00	0.80	O
ATOM	7610	CB	PRO	A	955	122.779	112.713	122.018	1.00	0.80	C
ATOM	7611	CG	PRO	A	955	123.832	112.902	120.925	1.00	0.80	C
ATOM	7612	CD	PRO	A	955	124.620	111.598	121.031	1.00	0.80	C
ATOM	7613	N	ARG	A	956	121.251	110.585	119.804	1.00	0.66	N
ATOM	7614	CA	ARG	A	956	120.090	110.285	118.982	1.00	0.66	C
ATOM	7615	C	ARG	A	956	119.416	108.970	119.365	1.00	0.66	C
ATOM	7616	O	ARG	A	956	118.238	108.762	119.074	1.00	0.66	O
ATOM	7617	CB	ARG	A	956	120.428	110.278	117.464	1.00	0.66	C
ATOM	7618	CG	ARG	A	956	121.716	109.520	117.077	1.00	0.66	C
ATOM	7619	CD	ARG	A	956	121.858	109.277	115.564	1.00	0.66	C
ATOM	7620	NE	ARG	A	956	123.307	108.978	115.308	1.00	0.66	N
ATOM	7621	CZ	ARG	A	956	123.780	108.690	114.087	1.00	0.66	C
ATOM	7622	NH1	ARG	A	956	122.987	108.304	113.097	1.00	0.66	N
ATOM	7623	NH2	ARG	A	956	125.091	108.791	113.865	1.00	0.66	N
ATOM	7624	N	LEU	A	957	120.113	108.064	120.091	1.00	0.76	N
ATOM	7625	CA	LEU	A	957	119.582	106.748	120.421	1.00	0.76	C
ATOM	7626	C	LEU	A	957	118.509	106.798	121.507	1.00	0.76	C
ATOM	7627	O	LEU	A	957	117.684	105.897	121.653	1.00	0.76	O
ATOM	7628	CB	LEU	A	957	120.702	105.739	120.775	1.00	0.76	C
ATOM	7629	CG	LEU	A	957	121.768	105.524	119.671	1.00	0.76	C
ATOM	7630	CD1	LEU	A	957	122.731	104.401	120.085	1.00	0.76	C
ATOM	7631	CD2	LEU	A	957	121.175	105.195	118.291	1.00	0.76	C
ATOM	7632	N	LYS	A	958	118.428	107.949	122.207	1.00	0.77	N
ATOM	7633	CA	LYS	A	958	117.394	108.350	123.148	1.00	0.77	C
ATOM	7634	C	LYS	A	958	115.962	108.210	122.632	1.00	0.77	C
ATOM	7635	O	LYS	A	958	115.043	107.946	123.405	1.00	0.77	O
ATOM	7636	CB	LYS	A	958	117.630	109.848	123.502	1.00	0.77	C
ATOM	7637	CG	LYS	A	958	118.227	110.103	124.896	1.00	0.77	C
ATOM	7638	CD	LYS	A	958	117.182	110.101	126.026	1.00	0.77	C
ATOM	7639	CE	LYS	A	958	116.202	111.281	125.967	1.00	0.77	C
ATOM	7640	NZ	LYS	A	958	115.290	111.244	127.119	1.00	0.77	N
ATOM	7641	N	SER	A	959	115.737	108.416	121.317	1.00	0.75	N
ATOM	7642	CA	SER	A	959	114.421	108.283	120.703	1.00	0.75	C
ATOM	7643	C	SER	A	959	114.384	107.246	119.599	1.00	0.75	C
ATOM	7644	O	SER	A	959	113.438	107.207	118.823	1.00	0.75	O
ATOM	7645	CB	SER	A	959	113.861	109.632	120.164	1.00	0.75	C
ATOM	7646	OG	SER	A	959	114.744	110.291	119.249	1.00	0.75	O
ATOM	7647	N	SER	A	960	115.386	106.344	119.499	1.00	0.75	N
ATOM	7648	CA	SER	A	960	115.374	105.333	118.441	1.00	0.75	C
ATOM	7649	C	SER	A	960	115.123	103.932	118.967	1.00	0.75	C
ATOM	7650	O	SER	A	960	114.288	103.210	118.426	1.00	0.75	O
ATOM	7651	CB	SER	A	960	116.661	105.353	117.562	1.00	0.75	C
ATOM	7652	OG	SER	A	960	117.815	104.844	118.232	1.00	0.75	O
ATOM	7653	N	ILE	A	961	115.800	103.508	120.059	1.00	0.80	N
ATOM	7654	CA	ILE	A	961	115.740	102.135	120.559	1.00	0.80	C
ATOM	7655	C	ILE	A	961	114.334	101.747	121.039	1.00	0.80	C
ATOM	7656	O	ILE	A	961	113.834	100.663	120.751	1.00	0.80	O
ATOM	7657	CB	ILE	A	961	116.860	101.840	121.574	1.00	0.80	C
ATOM	7658	CG1	ILE	A	961	118.221	102.381	121.034	1.00	0.80	C
ATOM	7659	CG2	ILE	A	961	116.925	100.317	121.835	1.00	0.80	C

ATOM	7660	CD1	ILE	A	961	119.486	101.950	121.796	1.00	0.80	C
ATOM	7661	N	ILE	A	962	113.616	102.661	121.732	1.00	0.85	N
ATOM	7662	CA	ILE	A	962	112.219	102.444	122.113	1.00	0.85	C
ATOM	7663	C	ILE	A	962	111.235	102.459	120.945	1.00	0.85	C
ATOM	7664	O	ILE	A	962	110.420	101.551	120.797	1.00	0.85	O
ATOM	7665	CB	ILE	A	962	111.732	103.464	123.150	1.00	0.85	C
ATOM	7666	CG1	ILE	A	962	112.700	103.493	124.356	1.00	0.85	C
ATOM	7667	CG2	ILE	A	962	110.287	103.116	123.590	1.00	0.85	C
ATOM	7668	CD1	ILE	A	962	112.321	104.492	125.456	1.00	0.85	C
ATOM	7669	N	GLU	A	963	111.266	103.488	120.065	1.00	0.72	N
ATOM	7670	CA	GLU	A	963	110.255	103.632	119.023	1.00	0.72	C
ATOM	7671	C	GLU	A	963	110.342	102.548	117.947	1.00	0.72	C
ATOM	7672	O	GLU	A	963	109.338	101.978	117.522	1.00	0.72	O
ATOM	7673	CB	GLU	A	963	110.212	105.065	118.411	1.00	0.72	C
ATOM	7674	CG	GLU	A	963	110.157	106.200	119.480	1.00	0.72	C
ATOM	7675	CD	GLU	A	963	109.444	107.475	119.019	1.00	0.72	C
ATOM	7676	OE1	GLU	A	963	108.214	107.386	118.780	1.00	0.72	O
ATOM	7677	OE2	GLU	A	963	110.076	108.570	118.942	1.00	0.72	O
ATOM	7678	N	ASN	A	964	111.572	102.175	117.531	1.00	0.72	N
ATOM	7679	CA	ASN	A	964	111.796	101.209	116.465	1.00	0.72	C
ATOM	7680	C	ASN	A	964	111.599	99.750	116.889	1.00	0.72	C
ATOM	7681	O	ASN	A	964	111.467	98.856	116.050	1.00	0.72	O
ATOM	7682	CB	ASN	A	964	113.222	101.346	115.883	1.00	0.72	C
ATOM	7683	CG	ASN	A	964	113.416	102.721	115.253	1.00	0.72	C
ATOM	7684	OD1	ASN	A	964	112.520	103.292	114.636	1.00	0.72	O
ATOM	7685	ND2	ASN	A	964	114.648	103.268	115.358	1.00	0.72	N
ATOM	7686	N	HIS	A	965	111.533	99.476	118.209	1.00	0.78	N
ATOM	7687	CA	HIS	A	965	111.288	98.165	118.806	1.00	0.78	C
ATOM	7688	C	HIS	A	965	109.988	97.516	118.331	1.00	0.78	C
ATOM	7689	O	HIS	A	965	109.907	96.307	118.122	1.00	0.78	O
ATOM	7690	CB	HIS	A	965	111.267	98.307	120.349	1.00	0.78	C
ATOM	7691	CG	HIS	A	965	110.735	97.135	121.108	1.00	0.78	C
ATOM	7692	ND1	HIS	A	965	111.546	96.046	121.316	1.00	0.78	N
ATOM	7693	CD2	HIS	A	965	109.513	96.929	121.664	1.00	0.78	C
ATOM	7694	CE1	HIS	A	965	110.817	95.195	122.004	1.00	0.78	C
ATOM	7695	NE2	HIS	A	965	109.575	95.679	122.240	1.00	0.78	N
ATOM	7696	N	GLY	A	966	108.921	98.311	118.107	1.00	0.79	N
ATOM	7697	CA	GLY	A	966	107.664	97.789	117.573	1.00	0.79	C
ATOM	7698	C	GLY	A	966	107.732	97.276	116.156	1.00	0.79	C
ATOM	7699	O	GLY	A	966	107.117	96.270	115.816	1.00	0.79	O
ATOM	7700	N	LEU	A	967	108.531	97.931	115.293	1.00	0.68	N
ATOM	7701	CA	LEU	A	967	108.806	97.465	113.945	1.00	0.68	C
ATOM	7702	C	LEU	A	967	109.612	96.170	113.918	1.00	0.68	C
ATOM	7703	O	LEU	A	967	109.362	95.277	113.110	1.00	0.68	O
ATOM	7704	CB	LEU	A	967	109.535	98.541	113.106	1.00	0.68	C
ATOM	7705	CG	LEU	A	967	108.820	99.908	113.044	1.00	0.68	C
ATOM	7706	CD1	LEU	A	967	109.622	100.875	112.162	1.00	0.68	C
ATOM	7707	CD2	LEU	A	967	107.376	99.813	112.524	1.00	0.68	C
ATOM	7708	N	LYS	A	968	110.603	96.027	114.825	1.00	0.71	N
ATOM	7709	CA	LYS	A	968	111.316	94.777	115.036	1.00	0.71	C
ATOM	7710	C	LYS	A	968	110.442	93.644	115.561	1.00	0.71	C
ATOM	7711	O	LYS	A	968	110.484	92.529	115.045	1.00	0.71	O
ATOM	7712	CB	LYS	A	968	112.446	94.939	116.075	1.00	0.71	C
ATOM	7713	CG	LYS	A	968	113.635	95.811	115.645	1.00	0.71	C
ATOM	7714	CD	LYS	A	968	114.699	95.924	116.761	1.00	0.71	C
ATOM	7715	CE	LYS	A	968	115.181	94.559	117.284	1.00	0.71	C
ATOM	7716	NZ	LYS	A	968	116.201	94.683	118.332	1.00	0.71	N
ATOM	7717	N	SER	A	969	109.603	93.904	116.592	1.00	0.79	N
ATOM	7718	CA	SER	A	969	108.741	92.880	117.186	1.00	0.79	C
ATOM	7719	C	SER	A	969	107.710	92.345	116.207	1.00	0.79	C
ATOM	7720	O	SER	A	969	107.446	91.147	116.149	1.00	0.79	O
ATOM	7721	CB	SER	A	969	108.113	93.257	118.568	1.00	0.79	C
ATOM	7722	OG	SER	A	969	106.930	94.057	118.493	1.00	0.79	O
ATOM	7723	N	ALA	A	970	107.154	93.224	115.352	1.00	0.76	N
ATOM	7724	CA	ALA	A	970	106.368	92.840	114.200	1.00	0.76	C

ATOM	7725	C	ALA	A	970	107.123	92.016	113.144	1.00	0.76	C
ATOM	7726	O	ALA	A	970	106.572	91.074	112.579	1.00	0.76	O
ATOM	7727	CB	ALA	A	970	105.810	94.119	113.546	1.00	0.76	C
ATOM	7728	N	ARG	A	971	108.400	92.349	112.841	1.00	0.68	N
ATOM	7729	CA	ARG	A	971	109.190	91.729	111.778	1.00	0.68	C
ATOM	7730	C	ARG	A	971	109.454	90.229	111.926	1.00	0.68	C
ATOM	7731	O	ARG	A	971	109.332	89.507	110.939	1.00	0.68	O
ATOM	7732	CB	ARG	A	971	110.513	92.525	111.511	1.00	0.68	C
ATOM	7733	CG	ARG	A	971	111.445	91.948	110.408	1.00	0.68	C
ATOM	7734	CD	ARG	A	971	112.285	92.950	109.575	1.00	0.68	C
ATOM	7735	NE	ARG	A	971	111.362	93.605	108.584	1.00	0.68	N
ATOM	7736	CZ	ARG	A	971	111.722	94.206	107.433	1.00	0.68	C
ATOM	7737	NH1	ARG	A	971	112.978	94.403	107.046	1.00	0.68	N
ATOM	7738	NH2	ARG	A	971	110.766	94.636	106.610	1.00	0.68	N
ATOM	7739	N	GLN	A	972	109.797	89.705	113.126	1.00	0.68	N
ATOM	7740	CA	GLN	A	972	110.097	88.277	113.276	1.00	0.68	C
ATOM	7741	C	GLN	A	972	109.083	87.488	114.107	1.00	0.68	C
ATOM	7742	O	GLN	A	972	109.258	86.295	114.347	1.00	0.68	O
ATOM	7743	CB	GLN	A	972	111.540	88.052	113.804	1.00	0.68	C
ATOM	7744	CG	GLN	A	972	112.650	88.422	112.783	1.00	0.68	C
ATOM	7745	CD	GLN	A	972	112.543	87.603	111.493	1.00	0.68	C
ATOM	7746	OE1	GLN	A	972	112.456	86.376	111.485	1.00	0.68	O
ATOM	7747	NE2	GLN	A	972	112.541	88.297	110.330	1.00	0.68	N
ATOM	7748	N	LEU	A	973	107.953	88.095	114.525	1.00	0.74	N
ATOM	7749	CA	LEU	A	973	106.846	87.336	115.105	1.00	0.74	C
ATOM	7750	C	LEU	A	973	105.588	87.425	114.249	1.00	0.74	C
ATOM	7751	O	LEU	A	973	104.606	86.698	114.441	1.00	0.74	O
ATOM	7752	CB	LEU	A	973	106.495	87.901	116.506	1.00	0.74	C
ATOM	7753	CG	LEU	A	973	107.564	87.652	117.590	1.00	0.74	C
ATOM	7754	CD1	LEU	A	973	107.271	88.495	118.842	1.00	0.74	C
ATOM	7755	CD2	LEU	A	973	107.649	86.166	117.965	1.00	0.74	C
ATOM	7756	N	GLY	A	974	105.567	88.346	113.265	1.00	0.75	N
ATOM	7757	CA	GLY	A	974	104.352	88.783	112.590	1.00	0.75	C
ATOM	7758	C	GLY	A	974	103.469	89.617	113.496	1.00	0.75	C
ATOM	7759	O	GLY	A	974	103.519	89.519	114.720	1.00	0.75	O
ATOM	7760	N	GLN	A	975	102.574	90.434	112.918	1.00	0.63	N
ATOM	7761	CA	GLN	A	975	101.725	91.374	113.646	1.00	0.63	C
ATOM	7762	C	GLN	A	975	100.860	90.733	114.752	1.00	0.63	C
ATOM	7763	O	GLN	A	975	100.500	89.556	114.661	1.00	0.63	O
ATOM	7764	CB	GLN	A	975	100.896	92.186	112.611	1.00	0.63	C
ATOM	7765	CG	GLN	A	975	100.620	93.671	112.968	1.00	0.63	C
ATOM	7766	CD	GLN	A	975	99.484	93.850	113.976	1.00	0.63	C
ATOM	7767	OE1	GLN	A	975	98.591	93.010	114.087	1.00	0.63	O
ATOM	7768	NE2	GLN	A	975	99.526	94.961	114.743	1.00	0.63	N
ATOM	7769	N	GLY	A	976	100.580	91.464	115.859	1.00	0.71	N
ATOM	7770	CA	GLY	A	976	99.816	90.935	116.992	1.00	0.71	C
ATOM	7771	C	GLY	A	976	100.674	90.517	118.161	1.00	0.71	C
ATOM	7772	O	GLY	A	976	100.535	89.412	118.677	1.00	0.71	O
ATOM	7773	N	THR	A	977	101.627	91.368	118.583	1.00	0.74	N
ATOM	7774	CA	THR	A	977	102.562	91.077	119.669	1.00	0.74	C
ATOM	7775	C	THR	A	977	102.158	91.765	120.969	1.00	0.74	C
ATOM	7776	O	THR	A	977	101.459	92.777	120.976	1.00	0.74	O
ATOM	7777	CB	THR	A	977	104.009	91.444	119.323	1.00	0.74	C
ATOM	7778	OG1	THR	A	977	104.156	92.819	118.977	1.00	0.74	O
ATOM	7779	CG2	THR	A	977	104.430	90.639	118.088	1.00	0.74	C
ATOM	7780	N	ILE	A	978	102.584	91.215	122.129	1.00	0.76	N
ATOM	7781	CA	ILE	A	978	102.252	91.749	123.447	1.00	0.76	C
ATOM	7782	C	ILE	A	978	103.542	92.158	124.144	1.00	0.76	C
ATOM	7783	O	ILE	A	978	104.481	91.371	124.261	1.00	0.76	O
ATOM	7784	CB	ILE	A	978	101.511	90.745	124.343	1.00	0.76	C
ATOM	7785	CG1	ILE	A	978	100.272	90.148	123.629	1.00	0.76	C
ATOM	7786	CG2	ILE	A	978	101.109	91.428	125.676	1.00	0.76	C
ATOM	7787	CD1	ILE	A	978	99.577	89.041	124.434	1.00	0.76	C
ATOM	7788	N	ASN	A	979	103.626	93.413	124.631	1.00	0.82	N
ATOM	7789	CA	ASN	A	979	104.752	93.900	125.407	1.00	0.82	C

ATOM	7790	C	ASN	A	979	104.652	93.522	126.880	1.00	0.82	C
ATOM	7791	O	ASN	A	979	103.575	93.415	127.466	1.00	0.82	O
ATOM	7792	CB	ASN	A	979	104.886	95.445	125.337	1.00	0.82	C
ATOM	7793	CG	ASN	A	979	105.537	95.888	124.036	1.00	0.82	C
ATOM	7794	OD1	ASN	A	979	105.141	95.527	122.928	1.00	0.82	O
ATOM	7795	ND2	ASN	A	979	106.611	96.701	124.161	1.00	0.82	N
ATOM	7796	N	VAL	A	980	105.822	93.321	127.506	1.00	0.87	N
ATOM	7797	CA	VAL	A	980	106.000	93.227	128.935	1.00	0.87	C
ATOM	7798	C	VAL	A	980	107.235	94.061	129.266	1.00	0.87	C
ATOM	7799	O	VAL	A	980	108.341	93.752	128.820	1.00	0.87	O
ATOM	7800	CB	VAL	A	980	106.216	91.780	129.374	1.00	0.87	C
ATOM	7801	CG1	VAL	A	980	106.398	91.729	130.896	1.00	0.87	C
ATOM	7802	CG2	VAL	A	980	105.006	90.912	128.971	1.00	0.87	C
ATOM	7803	N	ASN	A	981	107.101	95.152	130.054	1.00	0.89	N
ATOM	7804	CA	ASN	A	981	108.190	96.107	130.217	1.00	0.89	C
ATOM	7805	C	ASN	A	981	108.532	96.372	131.685	1.00	0.89	C
ATOM	7806	O	ASN	A	981	107.793	96.033	132.611	1.00	0.89	O
ATOM	7807	CB	ASN	A	981	107.879	97.483	129.558	1.00	0.89	C
ATOM	7808	CG	ASN	A	981	107.173	97.366	128.204	1.00	0.89	C
ATOM	7809	OD1	ASN	A	981	107.659	96.818	127.213	1.00	0.89	O
ATOM	7810	ND2	ASN	A	981	105.954	97.950	128.146	1.00	0.89	N
ATOM	7811	N	SER	A	982	109.700	97.000	131.923	1.00	0.91	N
ATOM	7812	CA	SER	A	982	110.162	97.398	133.244	1.00	0.91	C
ATOM	7813	C	SER	A	982	111.020	98.644	133.109	1.00	0.91	C
ATOM	7814	O	SER	A	982	111.732	98.787	132.113	1.00	0.91	O
ATOM	7815	CB	SER	A	982	111.013	96.271	133.872	1.00	0.91	C
ATOM	7816	OG	SER	A	982	111.271	96.486	135.265	1.00	0.91	O
ATOM	7817	N	SER	A	983	110.974	99.577	134.086	1.00	0.88	N
ATOM	7818	CA	SER	A	983	111.868	100.735	134.145	1.00	0.88	C
ATOM	7819	C	SER	A	983	112.597	100.699	135.474	1.00	0.88	C
ATOM	7820	O	SER	A	983	111.996	100.580	136.539	1.00	0.88	O
ATOM	7821	CB	SER	A	983	111.196	102.129	133.933	1.00	0.88	C
ATOM	7822	OG	SER	A	983	110.033	102.325	134.743	1.00	0.88	O
ATOM	7823	N	ASN	A	984	113.943	100.724	135.423	1.00	0.84	N
ATOM	7824	CA	ASN	A	984	114.814	100.312	136.507	1.00	0.84	C
ATOM	7825	C	ASN	A	984	115.834	101.404	136.825	1.00	0.84	C
ATOM	7826	O	ASN	A	984	116.334	102.071	135.923	1.00	0.84	O
ATOM	7827	CB	ASN	A	984	115.602	99.029	136.110	1.00	0.84	C
ATOM	7828	CG	ASN	A	984	114.703	97.801	135.963	1.00	0.84	C
ATOM	7829	OD1	ASN	A	984	113.715	97.757	135.228	1.00	0.84	O
ATOM	7830	ND2	ASN	A	984	115.080	96.706	136.665	1.00	0.84	N
ATOM	7831	N	ASP	A	985	116.176	101.579	138.118	1.00	0.79	N
ATOM	7832	CA	ASP	A	985	117.058	102.616	138.628	1.00	0.79	C
ATOM	7833	C	ASP	A	985	118.199	102.030	139.481	1.00	0.79	C
ATOM	7834	O	ASP	A	985	118.278	100.816	139.693	1.00	0.79	O
ATOM	7835	CB	ASP	A	985	116.185	103.594	139.466	1.00	0.79	C
ATOM	7836	CG	ASP	A	985	115.567	102.917	140.680	1.00	0.79	C
ATOM	7837	OD1	ASP	A	985	116.309	102.609	141.649	1.00	0.79	O
ATOM	7838	OD2	ASP	A	985	114.342	102.662	140.685	1.00	0.79	O
ATOM	7839	N	ALA	A	986	119.108	102.881	140.011	1.00	0.85	N
ATOM	7840	CA	ALA	A	986	119.944	102.521	141.138	1.00	0.85	C
ATOM	7841	C	ALA	A	986	119.815	103.474	142.344	1.00	0.85	C
ATOM	7842	O	ALA	A	986	119.753	104.694	142.245	1.00	0.85	O
ATOM	7843	CB	ALA	A	986	121.402	102.425	140.668	1.00	0.85	C
ATOM	7844	N	LYS	A	987	119.779	102.906	143.572	1.00	0.75	N
ATOM	7845	CA	LYS	A	987	119.579	103.607	144.836	1.00	0.75	C
ATOM	7846	C	LYS	A	987	120.649	104.621	145.237	1.00	0.75	C
ATOM	7847	O	LYS	A	987	120.355	105.688	145.775	1.00	0.75	O
ATOM	7848	CB	LYS	A	987	119.438	102.550	145.971	1.00	0.75	C
ATOM	7849	CG	LYS	A	987	119.168	103.140	147.369	1.00	0.75	C
ATOM	7850	CD	LYS	A	987	118.772	102.101	148.435	1.00	0.75	C
ATOM	7851	CE	LYS	A	987	117.288	101.780	148.280	1.00	0.75	C
ATOM	7852	NZ	LYS	A	987	116.672	100.962	149.351	1.00	0.75	N
ATOM	7853	N	LYS	A	988	121.929	104.278	145.020	1.00	0.74	N
ATOM	7854	CA	LYS	A	988	123.072	105.099	145.377	1.00	0.74	C

ATOM	7855	C	LYS	A	988	124.146	104.807	144.338	1.00	0.74	C
ATOM	7856	O	LYS	A	988	125.069	104.029	144.576	1.00	0.74	O
ATOM	7857	CB	LYS	A	988	123.636	104.833	146.821	1.00	0.74	C
ATOM	7858	CG	LYS	A	988	122.746	105.343	147.984	1.00	0.74	C
ATOM	7859	CD	LYS	A	988	123.335	105.172	149.412	1.00	0.74	C
ATOM	7860	CE	LYS	A	988	122.406	105.695	150.541	1.00	0.74	C
ATOM	7861	NZ	LYS	A	988	123.050	105.716	151.883	1.00	0.74	N
ATOM	7862	N	TRP	A	989	124.010	105.384	143.120	1.00	0.78	N
ATOM	7863	CA	TRP	A	989	124.987	105.245	142.049	1.00	0.78	C
ATOM	7864	C	TRP	A	989	126.352	105.852	142.375	1.00	0.78	C
ATOM	7865	O	TRP	A	989	127.402	105.229	142.234	1.00	0.78	O
ATOM	7866	CB	TRP	A	989	124.416	105.880	140.757	1.00	0.78	C
ATOM	7867	CG	TRP	A	989	125.160	105.523	139.487	1.00	0.78	C
ATOM	7868	CD1	TRP	A	989	125.861	106.323	138.629	1.00	0.78	C
ATOM	7869	CD2	TRP	A	989	125.188	104.200	138.920	1.00	0.78	C
ATOM	7870	NE1	TRP	A	989	126.345	105.582	137.570	1.00	0.78	N
ATOM	7871	CE2	TRP	A	989	125.931	104.277	137.735	1.00	0.78	C
ATOM	7872	CE3	TRP	A	989	124.606	103.005	139.336	1.00	0.78	C
ATOM	7873	CZ2	TRP	A	989	126.106	103.158	136.926	1.00	0.78	C
ATOM	7874	CZ3	TRP	A	989	124.765	101.879	138.513	1.00	0.78	C
ATOM	7875	CH2	TRP	A	989	125.505	101.952	137.326	1.00	0.78	C
ATOM	7876	N	SER	A	990	126.368	107.084	142.912	1.00	0.76	N
ATOM	7877	CA	SER	A	990	127.547	107.634	143.563	1.00	0.76	C
ATOM	7878	C	SER	A	990	127.705	107.005	144.930	1.00	0.76	C
ATOM	7879	O	SER	A	990	126.750	106.488	145.501	1.00	0.76	O
ATOM	7880	CB	SER	A	990	127.507	109.170	143.748	1.00	0.76	C
ATOM	7881	OG	SER	A	990	127.494	109.829	142.482	1.00	0.76	O
ATOM	7882	N	GLN	A	991	128.936	106.993	145.475	1.00	0.76	N
ATOM	7883	CA	GLN	A	991	129.252	106.457	146.794	1.00	0.76	C
ATOM	7884	C	GLN	A	991	129.369	104.931	146.843	1.00	0.76	C
ATOM	7885	O	GLN	A	991	130.320	104.405	147.410	1.00	0.76	O
ATOM	7886	CB	GLN	A	991	128.361	106.971	147.964	1.00	0.76	C
ATOM	7887	CG	GLN	A	991	128.180	108.507	148.089	1.00	0.76	C
ATOM	7888	CD	GLN	A	991	126.760	108.961	147.740	1.00	0.76	C
ATOM	7889	OE1	GLN	A	991	125.754	108.301	148.002	1.00	0.76	O
ATOM	7890	NE2	GLN	A	991	126.656	110.171	147.143	1.00	0.76	N
ATOM	7891	N	GLY	A	992	128.426	104.174	146.238	1.00	0.86	N
ATOM	7892	CA	GLY	A	992	128.432	102.707	146.277	1.00	0.86	C
ATOM	7893	C	GLY	A	992	129.364	102.020	145.310	1.00	0.86	C
ATOM	7894	O	GLY	A	992	129.532	100.805	145.346	1.00	0.86	O
ATOM	7895	N	HIS	A	993	130.018	102.767	144.403	1.00	0.83	N
ATOM	7896	CA	HIS	A	993	130.980	102.177	143.491	1.00	0.83	C
ATOM	7897	C	HIS	A	993	132.398	102.431	143.959	1.00	0.83	C
ATOM	7898	O	HIS	A	993	132.952	103.519	143.798	1.00	0.83	O
ATOM	7899	CB	HIS	A	993	130.837	102.682	142.039	1.00	0.83	C
ATOM	7900	CG	HIS	A	993	129.562	102.251	141.376	1.00	0.83	C
ATOM	7901	ND1	HIS	A	993	129.622	101.750	140.088	1.00	0.83	N
ATOM	7902	CD2	HIS	A	993	128.272	102.495	141.725	1.00	0.83	C
ATOM	7903	CE1	HIS	A	993	128.369	101.728	139.671	1.00	0.83	C
ATOM	7904	NE2	HIS	A	993	127.514	102.163	140.624	1.00	0.83	N
ATOM	7905	N	TYR	A	994	133.031	101.380	144.523	1.00	0.83	N
ATOM	7906	CA	TYR	A	994	134.460	101.294	144.759	1.00	0.83	C
ATOM	7907	C	TYR	A	994	135.242	101.367	143.440	1.00	0.83	C
ATOM	7908	O	TYR	A	994	134.824	100.822	142.424	1.00	0.83	O
ATOM	7909	CB	TYR	A	994	134.768	99.967	145.507	1.00	0.83	C
ATOM	7910	CG	TYR	A	994	135.999	100.073	146.360	1.00	0.83	C
ATOM	7911	CD1	TYR	A	994	135.922	100.708	147.609	1.00	0.83	C
ATOM	7912	CD2	TYR	A	994	137.217	99.498	145.967	1.00	0.83	C
ATOM	7913	CE1	TYR	A	994	137.038	100.780	148.448	1.00	0.83	C
ATOM	7914	CE2	TYR	A	994	138.335	99.564	146.808	1.00	0.83	C
ATOM	7915	CZ	TYR	A	994	138.244	100.205	148.044	1.00	0.83	C
ATOM	7916	OH	TYR	A	994	139.342	100.167	148.938	1.00	0.83	O
ATOM	7917	N	THR	A	995	136.407	102.044	143.386	1.00	0.85	N
ATOM	7918	CA	THR	A	995	136.980	102.457	142.094	1.00	0.85	C
ATOM	7919	C	THR	A	995	137.950	101.431	141.488	1.00	0.85	C

ATOM	7920	O	THR	A	995	138.666	101.667	140.518	1.00	0.85	O
ATOM	7921	CB	THR	A	995	137.604	103.852	142.197	1.00	0.85	C
ATOM	7922	OG1	THR	A	995	137.787	104.451	140.925	1.00	0.85	O
ATOM	7923	CG2	THR	A	995	138.958	103.829	142.912	1.00	0.85	C
ATOM	7924	N	THR	A	996	138.022	100.199	142.033	1.00	0.86	N
ATOM	7925	CA	THR	A	996	138.715	99.081	141.376	1.00	0.86	C
ATOM	7926	C	THR	A	996	137.999	98.592	140.132	1.00	0.86	C
ATOM	7927	O	THR	A	996	138.618	98.362	139.095	1.00	0.86	O
ATOM	7928	CB	THR	A	996	138.967	97.883	142.286	1.00	0.86	C
ATOM	7929	OG1	THR	A	996	137.781	97.473	142.956	1.00	0.86	O
ATOM	7930	CG2	THR	A	996	139.971	98.308	143.362	1.00	0.86	C
ATOM	7931	N	LYS	A	997	136.658	98.462	140.196	1.00	0.86	N
ATOM	7932	CA	LYS	A	997	135.819	97.971	139.113	1.00	0.86	C
ATOM	7933	C	LYS	A	997	135.863	98.828	137.851	1.00	0.86	C
ATOM	7934	O	LYS	A	997	135.904	98.305	136.741	1.00	0.86	O
ATOM	7935	CB	LYS	A	997	134.360	97.737	139.605	1.00	0.86	C
ATOM	7936	CG	LYS	A	997	133.583	99.008	139.991	1.00	0.86	C
ATOM	7937	CD	LYS	A	997	132.464	98.790	141.031	1.00	0.86	C
ATOM	7938	CE	LYS	A	997	131.267	97.998	140.500	1.00	0.86	C
ATOM	7939	NZ	LYS	A	997	130.130	98.038	141.447	1.00	0.86	N
ATOM	7940	N	LEU	A	998	135.902	100.172	137.991	1.00	0.88	N
ATOM	7941	CA	LEU	A	998	136.021	101.107	136.884	1.00	0.88	C
ATOM	7942	C	LEU	A	998	137.341	100.986	136.127	1.00	0.88	C
ATOM	7943	O	LEU	A	998	137.379	101.019	134.898	1.00	0.88	O
ATOM	7944	CB	LEU	A	998	135.814	102.571	137.350	1.00	0.88	C
ATOM	7945	CG	LEU	A	998	134.483	102.839	138.092	1.00	0.88	C
ATOM	7946	CD1	LEU	A	998	134.371	104.328	138.451	1.00	0.88	C
ATOM	7947	CD2	LEU	A	998	133.244	102.408	137.288	1.00	0.88	C
ATOM	7948	N	ALA	A	999	138.469	100.802	136.845	1.00	0.92	N
ATOM	7949	CA	ALA	A	999	139.754	100.523	136.231	1.00	0.92	C
ATOM	7950	C	ALA	A	999	139.797	99.188	135.490	1.00	0.92	C
ATOM	7951	O	ALA	A	999	140.257	99.102	134.354	1.00	0.92	O
ATOM	7952	CB	ALA	A	999	140.855	100.530	137.310	1.00	0.92	C
ATOM	7953	N	MET	A1000		139.274	98.109	136.110	1.00	0.87	N
ATOM	7954	CA	MET	A1000		139.201	96.796	135.494	1.00	0.87	C
ATOM	7955	C	MET	A1000		138.300	96.728	134.266	1.00	0.87	C
ATOM	7956	O	MET	A1000		138.676	96.141	133.252	1.00	0.87	O
ATOM	7957	CB	MET	A1000		138.778	95.726	136.526	1.00	0.87	C
ATOM	7958	CG	MET	A1000		139.868	95.474	137.588	1.00	0.87	C
ATOM	7959	SD	MET	A1000		139.591	94.015	138.639	1.00	0.87	S
ATOM	7960	CE	MET	A1000		138.080	94.606	139.447	1.00	0.87	C
ATOM	7961	N	VAL	A1001		137.101	97.359	134.304	1.00	0.91	N
ATOM	7962	CA	VAL	A1001		136.222	97.438	133.141	1.00	0.91	C
ATOM	7963	C	VAL	A1001		136.841	98.231	131.995	1.00	0.91	C
ATOM	7964	O	VAL	A1001		136.786	97.808	130.848	1.00	0.91	O
ATOM	7965	CB	VAL	A1001		134.788	97.883	133.483	1.00	0.91	C
ATOM	7966	CG1	VAL	A1001		134.617	99.408	133.623	1.00	0.91	C
ATOM	7967	CG2	VAL	A1001		133.801	97.338	132.431	1.00	0.91	C
ATOM	7968	N	LEU	A1002		137.506	99.378	132.265	1.00	0.89	N
ATOM	7969	CA	LEU	A1002		138.165	100.165	131.233	1.00	0.89	C
ATOM	7970	C	LEU	A1002		139.402	99.503	130.619	1.00	0.89	C
ATOM	7971	O	LEU	A1002		139.574	99.481	129.400	1.00	0.89	O
ATOM	7972	CB	LEU	A1002		138.496	101.576	131.778	1.00	0.89	C
ATOM	7973	CG	LEU	A1002		138.999	102.602	130.735	1.00	0.89	C
ATOM	7974	CD1	LEU	A1002		138.070	102.747	129.517	1.00	0.89	C
ATOM	7975	CD2	LEU	A1002		139.191	103.975	131.396	1.00	0.89	C
ATOM	7976	N	CYS	A1003		140.287	98.887	131.436	1.00	0.87	N
ATOM	7977	CA	CYS	A1003		141.513	98.263	130.944	1.00	0.87	C
ATOM	7978	C	CYS	A1003		141.284	97.007	130.106	1.00	0.87	C
ATOM	7979	O	CYS	A1003		142.128	96.645	129.287	1.00	0.87	O
ATOM	7980	CB	CYS	A1003		142.499	97.919	132.093	1.00	0.87	C
ATOM	7981	SG	CYS	A1003		143.296	99.396	132.808	1.00	0.87	S
ATOM	7982	N	TRP	A1004		140.114	96.348	130.236	1.00	0.86	N
ATOM	7983	CA	TRP	A1004		139.680	95.243	129.390	1.00	0.86	C
ATOM	7984	C	TRP	A1004		139.606	95.611	127.900	1.00	0.86	C

ATOM	7985	O	TRP	A1004	139.996	94.852	127.011	1.00	0.86	O
ATOM	7986	CB	TRP	A1004	138.283	94.755	129.892	1.00	0.86	C
ATOM	7987	CG	TRP	A1004	137.695	93.587	129.136	1.00	0.86	C
ATOM	7988	CD1	TRP	A1004	136.936	93.572	127.996	1.00	0.86	C
ATOM	7989	CD2	TRP	A1004	138.028	92.191	129.371	1.00	0.86	C
ATOM	7990	NE1	TRP	A1004	136.759	92.282	127.515	1.00	0.86	N
ATOM	7991	CE2	TRP	A1004	137.455	91.455	128.378	1.00	0.86	C
ATOM	7992	CE3	TRP	A1004	138.848	91.624	130.356	1.00	0.86	C
ATOM	7993	CZ2	TRP	A1004	137.647	90.066	128.273	1.00	0.86	C
ATOM	7994	CZ3	TRP	A1004	139.096	90.240	130.238	1.00	0.86	C
ATOM	7995	CH2	TRP	A1004	138.504	89.476	129.228	1.00	0.86	C
ATOM	7996	N	PHE	A1005	139.135	96.833	127.591	1.00	0.85	N
ATOM	7997	CA	PHE	A1005	138.826	97.243	126.233	1.00	0.85	C
ATOM	7998	C	PHE	A1005	140.036	97.875	125.558	1.00	0.85	C
ATOM	7999	O	PHE	A1005	139.991	98.241	124.384	1.00	0.85	O
ATOM	8000	CB	PHE	A1005	137.671	98.288	126.243	1.00	0.85	C
ATOM	8001	CG	PHE	A1005	136.340	97.620	126.477	1.00	0.85	C
ATOM	8002	CD1	PHE	A1005	135.959	97.209	127.762	1.00	0.85	C
ATOM	8003	CD2	PHE	A1005	135.455	97.388	125.411	1.00	0.85	C
ATOM	8004	CE1	PHE	A1005	134.753	96.533	127.984	1.00	0.85	C
ATOM	8005	CE2	PHE	A1005	134.241	96.720	125.623	1.00	0.85	C
ATOM	8006	CZ	PHE	A1005	133.899	96.275	126.906	1.00	0.85	C
ATOM	8007	N	MET	A1006	141.169	97.997	126.276	1.00	0.82	N
ATOM	8008	CA	MET	A1006	142.292	98.800	125.843	1.00	0.82	C
ATOM	8009	C	MET	A1006	143.421	98.014	125.161	1.00	0.82	C
ATOM	8010	O	MET	A1006	143.641	96.850	125.497	1.00	0.82	O
ATOM	8011	CB	MET	A1006	142.840	99.626	127.035	1.00	0.82	C
ATOM	8012	CG	MET	A1006	142.664	101.140	126.822	1.00	0.82	C
ATOM	8013	SD	MET	A1006	140.934	101.664	126.624	1.00	0.82	S
ATOM	8014	CE	MET	A1006	141.365	103.181	125.729	1.00	0.82	C
ATOM	8015	N	PRO	A1007	144.202	98.579	124.227	1.00	0.82	N
ATOM	8016	CA	PRO	A1007	145.295	97.872	123.541	1.00	0.82	C
ATOM	8017	C	PRO	A1007	146.572	97.677	124.361	1.00	0.82	C
ATOM	8018	O	PRO	A1007	147.658	97.755	123.787	1.00	0.82	O
ATOM	8019	CB	PRO	A1007	145.614	98.783	122.332	1.00	0.82	C
ATOM	8020	CG	PRO	A1007	144.421	99.725	122.189	1.00	0.82	C
ATOM	8021	CD	PRO	A1007	143.942	99.884	123.616	1.00	0.82	C
ATOM	8022	N	ALA	A1008	146.487	97.441	125.685	1.00	0.81	N
ATOM	8023	CA	ALA	A1008	147.582	97.168	126.613	1.00	0.81	C
ATOM	8024	C	ALA	A1008	148.631	98.265	126.848	1.00	0.81	C
ATOM	8025	O	ALA	A1008	149.157	98.405	127.949	1.00	0.81	O
ATOM	8026	CB	ALA	A1008	148.243	95.812	126.293	1.00	0.81	C
ATOM	8027	N	LYS	A1009	148.883	99.165	125.870	1.00	0.77	N
ATOM	8028	CA	LYS	A1009	149.845	100.262	125.977	1.00	0.77	C
ATOM	8029	C	LYS	A1009	149.414	101.306	127.000	1.00	0.77	C
ATOM	8030	O	LYS	A1009	150.189	102.112	127.502	1.00	0.77	O
ATOM	8031	CB	LYS	A1009	150.026	100.989	124.614	1.00	0.77	C
ATOM	8032	CG	LYS	A1009	150.380	100.066	123.436	1.00	0.77	C
ATOM	8033	CD	LYS	A1009	150.756	100.867	122.176	1.00	0.77	C
ATOM	8034	CE	LYS	A1009	150.911	100.026	120.900	1.00	0.77	C
ATOM	8035	NZ	LYS	A1009	149.601	99.516	120.467	1.00	0.77	N
ATOM	8036	N	PHE	A1010	148.118	101.281	127.336	1.00	0.81	N
ATOM	8037	CA	PHE	A1010	147.450	102.264	128.146	1.00	0.81	C
ATOM	8038	C	PHE	A1010	147.301	101.793	129.587	1.00	0.81	C
ATOM	8039	O	PHE	A1010	146.921	102.567	130.462	1.00	0.81	O
ATOM	8040	CB	PHE	A1010	146.017	102.465	127.577	1.00	0.81	C
ATOM	8041	CG	PHE	A1010	146.015	103.066	126.189	1.00	0.81	C
ATOM	8042	CD1	PHE	A1010	146.355	102.328	125.038	1.00	0.81	C
ATOM	8043	CD2	PHE	A1010	145.621	104.400	126.028	1.00	0.81	C
ATOM	8044	CE1	PHE	A1010	146.333	102.923	123.769	1.00	0.81	C
ATOM	8045	CE2	PHE	A1010	145.583	104.999	124.764	1.00	0.81	C
ATOM	8046	CZ	PHE	A1010	145.941	104.260	123.632	1.00	0.81	C
ATOM	8047	N	HIS	A1011	147.609	100.509	129.892	1.00	0.81	N
ATOM	8048	CA	HIS	A1011	147.256	99.900	131.171	1.00	0.81	C
ATOM	8049	C	HIS	A1011	147.882	100.537	132.404	1.00	0.81	C

ATOM	8050	O	HIS	A1011	147.191	100.770	133.392	1.00	0.81	O
ATOM	8051	CB	HIS	A1011	147.570	98.388	131.190	1.00	0.81	C
ATOM	8052	CG	HIS	A1011	146.640	97.563	130.358	1.00	0.81	C
ATOM	8053	ND1	HIS	A1011	146.941	96.227	130.213	1.00	0.81	N
ATOM	8054	CD2	HIS	A1011	145.433	97.839	129.795	1.00	0.81	C
ATOM	8055	CE1	HIS	A1011	145.919	95.709	129.563	1.00	0.81	C
ATOM	8056	NE2	HIS	A1011	144.975	96.642	129.287	1.00	0.81	N
ATOM	8057	N	ARG	A1012	149.192	100.871	132.371	1.00	0.78	N
ATOM	8058	CA	ARG	A1012	149.861	101.550	133.478	1.00	0.78	C
ATOM	8059	C	ARG	A1012	149.302	102.952	133.734	1.00	0.78	C
ATOM	8060	O	ARG	A1012	149.035	103.328	134.871	1.00	0.78	O
ATOM	8061	CB	ARG	A1012	151.404	101.615	133.275	1.00	0.78	C
ATOM	8062	CG	ARG	A1012	152.084	100.226	133.229	1.00	0.78	C
ATOM	8063	CD	ARG	A1012	153.593	100.234	132.911	1.00	0.78	C
ATOM	8064	NE	ARG	A1012	154.377	100.625	134.130	1.00	0.78	N
ATOM	8065	CZ	ARG	A1012	155.618	101.127	134.086	1.00	0.78	C
ATOM	8066	NH1	ARG	A1012	156.375	101.131	132.997	1.00	0.78	N
ATOM	8067	NH2	ARG	A1012	156.138	101.669	135.176	1.00	0.78	N
ATOM	8068	N	PHE	A1013	149.050	103.743	132.665	1.00	0.84	N
ATOM	8069	CA	PHE	A1013	148.464	105.075	132.751	1.00	0.84	C
ATOM	8070	C	PHE	A1013	147.044	105.080	133.335	1.00	0.84	C
ATOM	8071	O	PHE	A1013	146.722	105.870	134.220	1.00	0.84	O
ATOM	8072	CB	PHE	A1013	148.491	105.730	131.334	1.00	0.84	C
ATOM	8073	CG	PHE	A1013	147.898	107.120	131.314	1.00	0.84	C
ATOM	8074	CD1	PHE	A1013	148.563	108.193	131.927	1.00	0.84	C
ATOM	8075	CD2	PHE	A1013	146.641	107.349	130.728	1.00	0.84	C
ATOM	8076	CE1	PHE	A1013	147.984	109.469	131.965	1.00	0.84	C
ATOM	8077	CE2	PHE	A1013	146.060	108.624	130.756	1.00	0.84	C
ATOM	8078	CZ	PHE	A1013	146.731	109.684	131.378	1.00	0.84	C
ATOM	8079	N	ILE	A1014	146.158	104.172	132.880	1.00	0.86	N
ATOM	8080	CA	ILE	A1014	144.799	104.073	133.405	1.00	0.86	C
ATOM	8081	C	ILE	A1014	144.771	103.587	134.846	1.00	0.86	C
ATOM	8082	O	ILE	A1014	144.054	104.129	135.686	1.00	0.86	O
ATOM	8083	CB	ILE	A1014	143.896	103.221	132.520	1.00	0.86	C
ATOM	8084	CG1	ILE	A1014	143.844	103.827	131.097	1.00	0.86	C
ATOM	8085	CG2	ILE	A1014	142.473	103.144	133.128	1.00	0.86	C
ATOM	8086	CD1	ILE	A1014	143.117	102.938	130.086	1.00	0.86	C
ATOM	8087	N	TRP	A1015	145.598	102.578	135.201	1.00	0.85	N
ATOM	8088	CA	TRP	A1015	145.708	102.099	136.569	1.00	0.85	C
ATOM	8089	C	TRP	A1015	146.184	103.190	137.525	1.00	0.85	C
ATOM	8090	O	TRP	A1015	145.607	103.413	138.589	1.00	0.85	O
ATOM	8091	CB	TRP	A1015	146.661	100.876	136.628	1.00	0.85	C
ATOM	8092	CG	TRP	A1015	146.631	100.125	137.945	1.00	0.85	C
ATOM	8093	CD1	TRP	A1015	147.563	100.085	138.944	1.00	0.85	C
ATOM	8094	CD2	TRP	A1015	145.517	99.329	138.400	1.00	0.85	C
ATOM	8095	NE1	TRP	A1015	147.103	99.321	139.999	1.00	0.85	N
ATOM	8096	CE2	TRP	A1015	145.847	98.850	139.674	1.00	0.85	C
ATOM	8097	CE3	TRP	A1015	144.295	99.017	137.798	1.00	0.85	C
ATOM	8098	CZ2	TRP	A1015	144.965	98.044	140.389	1.00	0.85	C
ATOM	8099	CZ3	TRP	A1015	143.405	98.200	138.515	1.00	0.85	C
ATOM	8100	CH2	TRP	A1015	143.736	97.719	139.788	1.00	0.85	C
ATOM	8101	N	ALA	A1016	147.206	103.957	137.105	1.00	0.86	N
ATOM	8102	CA	ALA	A1016	147.693	105.134	137.783	1.00	0.86	C
ATOM	8103	C	ALA	A1016	146.676	106.257	137.970	1.00	0.86	C
ATOM	8104	O	ALA	A1016	146.510	106.783	139.072	1.00	0.86	O
ATOM	8105	CB	ALA	A1016	148.829	105.688	136.915	1.00	0.86	C
ATOM	8106	N	GLY	A1017	145.942	106.627	136.899	1.00	0.87	N
ATOM	8107	CA	GLY	A1017	144.997	107.741	136.920	1.00	0.87	C
ATOM	8108	C	GLY	A1017	143.687	107.444	137.598	1.00	0.87	C
ATOM	8109	O	GLY	A1017	142.940	108.354	137.937	1.00	0.87	O
ATOM	8110	N	ILE	A1018	143.380	106.162	137.861	1.00	0.85	N
ATOM	8111	CA	ILE	A1018	142.209	105.779	138.641	1.00	0.85	C
ATOM	8112	C	ILE	A1018	142.609	105.435	140.081	1.00	0.85	C
ATOM	8113	O	ILE	A1018	141.799	105.447	141.010	1.00	0.85	O
ATOM	8114	CB	ILE	A1018	141.492	104.620	137.943	1.00	0.85	C



ATOM	8115	CG1	ILE	A1018	140.961	105.037	136.542	1.00	0.85	C
ATOM	8116	CG2	ILE	A1018	140.336	104.063	138.798	1.00	0.85	C
ATOM	8117	CD1	ILE	A1018	139.937	106.182	136.539	1.00	0.85	C
ATOM	8118	N	SER	A1019	143.913	105.203	140.346	1.00	0.85	N
ATOM	8119	CA	SER	A1019	144.456	104.967	141.685	1.00	0.85	C
ATOM	8120	C	SER	A1019	144.271	106.141	142.631	1.00	0.85	C
ATOM	8121	O	SER	A1019	143.915	105.976	143.797	1.00	0.85	O
ATOM	8122	CB	SER	A1019	145.964	104.608	141.625	1.00	0.85	C
ATOM	8123	OG	SER	A1019	146.483	104.140	142.872	1.00	0.85	O
ATOM	8124	N	MET	A1020	144.442	107.377	142.112	1.00	0.82	N
ATOM	8125	CA	MET	A1020	144.343	108.624	142.858	1.00	0.82	C
ATOM	8126	C	MET	A1020	142.978	108.916	143.493	1.00	0.82	C
ATOM	8127	O	MET	A1020	142.829	109.825	144.304	1.00	0.82	O
ATOM	8128	CB	MET	A1020	144.804	109.820	141.980	1.00	0.82	C
ATOM	8129	CG	MET	A1020	143.887	110.158	140.788	1.00	0.82	C
ATOM	8130	SD	MET	A1020	144.466	111.560	139.789	1.00	0.82	S
ATOM	8131	CE	MET	A1020	142.975	111.604	138.750	1.00	0.82	C
ATOM	8132	N	PHE	A1021	141.941	108.105	143.197	1.00	0.84	N
ATOM	8133	CA	PHE	A1021	140.605	108.276	143.739	1.00	0.84	C
ATOM	8134	C	PHE	A1021	140.429	107.526	145.054	1.00	0.84	C
ATOM	8135	O	PHE	A1021	139.367	107.596	145.674	1.00	0.84	O
ATOM	8136	CB	PHE	A1021	139.541	107.746	142.731	1.00	0.84	C
ATOM	8137	CG	PHE	A1021	138.985	108.864	141.897	1.00	0.84	C
ATOM	8138	CD1	PHE	A1021	139.814	109.608	141.042	1.00	0.84	C
ATOM	8139	CD2	PHE	A1021	137.617	109.184	141.967	1.00	0.84	C
ATOM	8140	CE1	PHE	A1021	139.294	110.670	140.293	1.00	0.84	C
ATOM	8141	CE2	PHE	A1021	137.090	110.226	141.196	1.00	0.84	C
ATOM	8142	CZ	PHE	A1021	137.932	110.973	140.368	1.00	0.84	C
ATOM	8143	N	ARG	A1022	141.466	106.817	145.542	1.00	0.77	N
ATOM	8144	CA	ARG	A1022	141.376	106.056	146.779	1.00	0.77	C
ATOM	8145	C	ARG	A1022	141.927	106.803	147.984	1.00	0.77	C
ATOM	8146	O	ARG	A1022	141.975	106.278	149.090	1.00	0.77	O
ATOM	8147	CB	ARG	A1022	142.064	104.678	146.641	1.00	0.77	C
ATOM	8148	CG	ARG	A1022	141.546	103.886	145.426	1.00	0.77	C
ATOM	8149	CD	ARG	A1022	141.824	102.382	145.495	1.00	0.77	C
ATOM	8150	NE	ARG	A1022	141.374	101.794	144.178	1.00	0.77	N
ATOM	8151	CZ	ARG	A1022	142.167	101.639	143.108	1.00	0.77	C
ATOM	8152	NH1	ARG	A1022	143.489	101.735	143.175	1.00	0.77	N
ATOM	8153	NH2	ARG	A1022	141.635	101.384	141.910	1.00	0.77	N
ATOM	8154	N	CYS	A1023	142.317	108.080	147.826	1.00	0.83	N
ATOM	8155	CA	CYS	A1023	142.385	108.980	148.962	1.00	0.83	C
ATOM	8156	C	CYS	A1023	142.024	110.366	148.467	1.00	0.83	C
ATOM	8157	O	CYS	A1023	142.722	110.974	147.657	1.00	0.83	O
ATOM	8158	CB	CYS	A1023	143.766	108.976	149.676	1.00	0.83	C
ATOM	8159	SG	CYS	A1023	143.805	109.974	151.211	1.00	0.83	S
ATOM	8160	N	LYS	A1024	140.893	110.920	148.936	1.00	0.82	N
ATOM	8161	CA	LYS	A1024	140.474	112.246	148.540	1.00	0.82	C
ATOM	8162	C	LYS	A1024	140.118	113.033	149.783	1.00	0.82	C
ATOM	8163	O	LYS	A1024	139.602	112.494	150.760	1.00	0.82	O
ATOM	8164	CB	LYS	A1024	139.335	112.211	147.477	1.00	0.82	C
ATOM	8165	CG	LYS	A1024	137.985	111.697	148.003	1.00	0.82	C
ATOM	8166	CD	LYS	A1024	136.989	111.195	146.938	1.00	0.82	C
ATOM	8167	CE	LYS	A1024	137.314	109.832	146.294	1.00	0.82	C
ATOM	8168	NZ	LYS	A1024	137.202	108.688	147.238	1.00	0.82	N
ATOM	8169	N	LYS	A1025	140.439	114.341	149.780	1.00	0.82	N
ATOM	8170	CA	LYS	A1025	140.136	115.242	150.870	1.00	0.82	C
ATOM	8171	C	LYS	A1025	139.226	116.304	150.310	1.00	0.82	C
ATOM	8172	O	LYS	A1025	139.488	116.823	149.222	1.00	0.82	O
ATOM	8173	CB	LYS	A1025	141.380	115.964	151.447	1.00	0.82	C
ATOM	8174	CG	LYS	A1025	142.360	115.041	152.182	1.00	0.82	C
ATOM	8175	CD	LYS	A1025	143.553	115.828	152.751	1.00	0.82	C
ATOM	8176	CE	LYS	A1025	144.658	114.921	153.301	1.00	0.82	C
ATOM	8177	NZ	LYS	A1025	145.874	115.705	153.572	1.00	0.82	N
ATOM	8178	N	MET	A1026	138.145	116.625	151.038	1.00	0.83	N
ATOM	8179	CA	MET	A1026	137.153	117.586	150.611	1.00	0.83	C

ATOM	8180	C	MET	A1026	137.105	118.780	151.546	1.00	0.83	C
ATOM	8181	O	MET	A1026	136.991	118.634	152.762	1.00	0.83	O
ATOM	8182	CB	MET	A1026	135.747	116.952	150.545	1.00	0.83	C
ATOM	8183	CG	MET	A1026	135.714	115.649	149.730	1.00	0.83	C
ATOM	8184	SD	MET	A1026	134.031	115.123	149.333	1.00	0.83	S
ATOM	8185	CE	MET	A1026	134.538	113.504	148.711	1.00	0.83	C
ATOM	8186	N	MET	A1027	137.214	119.996	150.975	1.00	0.81	N
ATOM	8187	CA	MET	A1027	137.001	121.269	151.648	1.00	0.81	C
ATOM	8188	C	MET	A1027	135.585	121.506	152.166	1.00	0.81	C
ATOM	8189	O	MET	A1027	134.599	121.019	151.614	1.00	0.81	O
ATOM	8190	CB	MET	A1027	137.400	122.452	150.728	1.00	0.81	C
ATOM	8191	CG	MET	A1027	138.835	122.949	150.970	1.00	0.81	C
ATOM	8192	SD	MET	A1027	139.082	123.836	152.542	1.00	0.81	S
ATOM	8193	CE	MET	A1027	138.104	125.308	152.117	1.00	0.81	C
ATOM	8194	N	MET	A1028	135.474	122.314	153.238	1.00	0.79	N
ATOM	8195	CA	MET	A1028	134.212	122.744	153.806	1.00	0.79	C
ATOM	8196	C	MET	A1028	134.213	124.257	153.949	1.00	0.79	C
ATOM	8197	O	MET	A1028	135.259	124.903	153.950	1.00	0.79	O
ATOM	8198	CB	MET	A1028	133.979	122.144	155.215	1.00	0.79	C
ATOM	8199	CG	MET	A1028	133.794	120.616	155.220	1.00	0.79	C
ATOM	8200	SD	MET	A1028	133.447	119.949	156.874	1.00	0.79	S
ATOM	8201	CE	MET	A1028	135.168	120.049	157.445	1.00	0.79	C
ATOM	8202	N	ASP	A1029	133.015	124.865	154.060	1.00	0.78	N
ATOM	8203	CA	ASP	A1029	132.834	126.277	154.340	1.00	0.78	C
ATOM	8204	C	ASP	A1029	133.403	126.696	155.709	1.00	0.78	C
ATOM	8205	O	ASP	A1029	133.238	126.025	156.730	1.00	0.78	O
ATOM	8206	CB	ASP	A1029	131.330	126.637	154.173	1.00	0.78	C
ATOM	8207	CG	ASP	A1029	131.067	128.134	154.097	1.00	0.78	C
ATOM	8208	OD1	ASP	A1029	131.410	128.842	155.077	1.00	0.78	O
ATOM	8209	OD2	ASP	A1029	130.512	128.587	153.071	1.00	0.78	O
ATOM	8210	N	LEU	A1030	134.090	127.854	155.742	1.00	0.74	N
ATOM	8211	CA	LEU	A1030	134.665	128.453	156.930	1.00	0.74	C
ATOM	8212	C	LEU	A1030	133.614	128.904	157.942	1.00	0.74	C
ATOM	8213	O	LEU	A1030	133.791	128.702	159.143	1.00	0.74	O
ATOM	8214	CB	LEU	A1030	135.606	129.629	156.541	1.00	0.74	C
ATOM	8215	CG	LEU	A1030	137.097	129.244	156.346	1.00	0.74	C
ATOM	8216	CD1	LEU	A1030	137.769	128.912	157.689	1.00	0.74	C
ATOM	8217	CD2	LEU	A1030	137.321	128.100	155.343	1.00	0.74	C
ATOM	8218	N	ARG	A1031	132.480	129.484	157.485	1.00	0.64	N
ATOM	8219	CA	ARG	A1031	131.372	129.914	158.327	1.00	0.64	C
ATOM	8220	C	ARG	A1031	130.657	128.740	158.975	1.00	0.64	C
ATOM	8221	O	ARG	A1031	130.141	128.817	160.091	1.00	0.64	O
ATOM	8222	CB	ARG	A1031	130.276	130.684	157.552	1.00	0.64	C
ATOM	8223	CG	ARG	A1031	130.674	132.067	157.003	1.00	0.64	C
ATOM	8224	CD	ARG	A1031	129.436	132.968	156.964	1.00	0.64	C
ATOM	8225	NE	ARG	A1031	129.688	134.183	156.126	1.00	0.64	N
ATOM	8226	CZ	ARG	A1031	128.771	135.144	155.953	1.00	0.64	C
ATOM	8227	NH1	ARG	A1031	127.609	135.120	156.598	1.00	0.64	N
ATOM	8228	NH2	ARG	A1031	128.987	136.159	155.124	1.00	0.64	N
ATOM	8229	N	PHE	A1032	130.588	127.602	158.256	1.00	0.73	N
ATOM	8230	CA	PHE	A1032	130.040	126.366	158.783	1.00	0.73	C
ATOM	8231	C	PHE	A1032	130.836	125.870	159.990	1.00	0.73	C
ATOM	8232	O	PHE	A1032	130.268	125.599	161.046	1.00	0.73	O
ATOM	8233	CB	PHE	A1032	129.979	125.304	157.648	1.00	0.73	C
ATOM	8234	CG	PHE	A1032	129.376	124.002	158.102	1.00	0.73	C
ATOM	8235	CD1	PHE	A1032	127.984	123.831	158.178	1.00	0.73	C
ATOM	8236	CD2	PHE	A1032	130.214	122.936	158.466	1.00	0.73	C
ATOM	8237	CE1	PHE	A1032	127.438	122.614	158.608	1.00	0.73	C
ATOM	8238	CE2	PHE	A1032	129.675	121.726	158.916	1.00	0.73	C
ATOM	8239	CZ	PHE	A1032	128.285	121.562	158.985	1.00	0.73	C
ATOM	8240	N	LEU	A1033	132.180	125.815	159.883	1.00	0.73	N
ATOM	8241	CA	LEU	A1033	133.050	125.473	160.996	1.00	0.73	C
ATOM	8242	C	LEU	A1033	133.079	126.514	162.108	1.00	0.73	C
ATOM	8243	O	LEU	A1033	133.097	126.166	163.286	1.00	0.73	O
ATOM	8244	CB	LEU	A1033	134.487	125.169	160.530	1.00	0.73	C

ATOM	8245	CG	LEU	A1033	134.599	124.022	159.505	1.00	0.73	C
ATOM	8246	CD1	LEU	A1033	136.078	123.742	159.231	1.00	0.73	C
ATOM	8247	CD2	LEU	A1033	133.913	122.724	159.959	1.00	0.73	C
ATOM	8248	N	GLU	A1034	133.050	127.818	161.761	1.00	0.69	N
ATOM	8249	CA	GLU	A1034	132.960	128.933	162.695	1.00	0.69	C
ATOM	8250	C	GLU	A1034	131.744	128.840	163.610	1.00	0.69	C
ATOM	8251	O	GLU	A1034	131.857	128.872	164.833	1.00	0.69	O
ATOM	8252	CB	GLU	A1034	132.846	130.235	161.857	1.00	0.69	C
ATOM	8253	CG	GLU	A1034	132.725	131.571	162.634	1.00	0.69	C
ATOM	8254	CD	GLU	A1034	132.229	132.730	161.758	1.00	0.69	C
ATOM	8255	OE1	GLU	A1034	131.567	132.481	160.714	1.00	0.69	O
ATOM	8256	OE2	GLU	A1034	132.468	133.895	162.165	1.00	0.69	O
ATOM	8257	N	LYS	A1035	130.543	128.637	163.031	1.00	0.67	N
ATOM	8258	CA	LYS	A1035	129.327	128.434	163.794	1.00	0.67	C
ATOM	8259	C	LYS	A1035	129.275	127.111	164.557	1.00	0.67	C
ATOM	8260	O	LYS	A1035	128.830	127.048	165.702	1.00	0.67	O
ATOM	8261	CB	LYS	A1035	128.086	128.574	162.886	1.00	0.67	C
ATOM	8262	CG	LYS	A1035	126.779	128.661	163.689	1.00	0.67	C
ATOM	8263	CD	LYS	A1035	125.544	128.798	162.791	1.00	0.67	C
ATOM	8264	CE	LYS	A1035	124.234	128.760	163.578	1.00	0.67	C
ATOM	8265	NZ	LYS	A1035	123.087	128.734	162.643	1.00	0.67	N
ATOM	8266	N	LEU	A1036	129.743	126.006	163.946	1.00	0.68	N
ATOM	8267	CA	LEU	A1036	129.837	124.694	164.565	1.00	0.68	C
ATOM	8268	C	LEU	A1036	130.757	124.664	165.789	1.00	0.68	C
ATOM	8269	O	LEU	A1036	130.483	123.991	166.780	1.00	0.68	O
ATOM	8270	CB	LEU	A1036	130.248	123.668	163.482	1.00	0.68	C
ATOM	8271	CG	LEU	A1036	130.398	122.207	163.943	1.00	0.68	C
ATOM	8272	CD1	LEU	A1036	129.762	121.243	162.930	1.00	0.68	C
ATOM	8273	CD2	LEU	A1036	131.879	121.864	164.136	1.00	0.68	C
ATOM	8274	N	SER	A1037	131.851	125.451	165.782	1.00	0.66	N
ATOM	8275	CA	SER	A1037	132.812	125.515	166.879	1.00	0.66	C
ATOM	8276	C	SER	A1037	132.439	126.539	167.950	1.00	0.66	C
ATOM	8277	O	SER	A1037	133.270	127.008	168.725	1.00	0.66	O
ATOM	8278	CB	SER	A1037	134.242	125.814	166.360	1.00	0.66	C
ATOM	8279	OG	SER	A1037	135.230	125.227	167.211	1.00	0.66	O
ATOM	8280	N	THR	A1038	131.143	126.906	168.044	1.00	0.57	N
ATOM	8281	CA	THR	A1038	130.597	127.724	169.132	1.00	0.57	C
ATOM	8282	C	THR	A1038	130.808	127.074	170.492	1.00	0.57	C
ATOM	8283	O	THR	A1038	130.679	125.860	170.659	1.00	0.57	O
ATOM	8284	CB	THR	A1038	129.105	128.044	168.961	1.00	0.57	C
ATOM	8285	OG1	THR	A1038	128.897	128.805	167.777	1.00	0.57	O
ATOM	8286	CG2	THR	A1038	128.510	128.898	170.092	1.00	0.57	C
ATOM	8287	N	LYS	A1039	131.160	127.887	171.519	1.00	0.35	N
ATOM	8288	CA	LYS	A1039	131.383	127.449	172.887	1.00	0.35	C
ATOM	8289	C	LYS	A1039	130.237	126.625	173.467	1.00	0.35	C
ATOM	8290	O	LYS	A1039	129.118	127.103	173.639	1.00	0.35	O
ATOM	8291	CB	LYS	A1039	131.653	128.654	173.831	1.00	0.35	C
ATOM	8292	CG	LYS	A1039	131.985	128.265	175.287	1.00	0.35	C
ATOM	8293	CD	LYS	A1039	132.188	129.485	176.205	1.00	0.35	C
ATOM	8294	CE	LYS	A1039	132.500	129.095	177.656	1.00	0.35	C
ATOM	8295	NZ	LYS	A1039	132.689	130.301	178.497	1.00	0.35	N
ATOM	8296	N	ALA	A1040	130.533	125.350	173.795	1.00	0.36	N
ATOM	8297	CA	ALA	A1040	129.580	124.383	174.295	1.00	0.36	C
ATOM	8298	C	ALA	A1040	128.525	123.952	173.276	1.00	0.36	C
ATOM	8299	O	ALA	A1040	127.338	123.867	173.584	1.00	0.36	O
ATOM	8300	CB	ALA	A1040	128.957	124.781	175.654	1.00	0.36	C
ATOM	8301	N	ASN	A1041	128.961	123.594	172.044	1.00	0.47	N
ATOM	8302	CA	ASN	A1041	128.132	123.035	170.980	1.00	0.47	C
ATOM	8303	C	ASN	A1041	127.307	121.815	171.416	1.00	0.47	C
ATOM	8304	O	ASN	A1041	126.175	121.648	170.987	1.00	0.47	O
ATOM	8305	CB	ASN	A1041	129.022	122.698	169.744	1.00	0.47	C
ATOM	8306	CG	ASN	A1041	128.197	122.180	168.564	1.00	0.47	C
ATOM	8307	OD1	ASN	A1041	128.071	120.971	168.386	1.00	0.47	O
ATOM	8308	ND2	ASN	A1041	127.611	123.090	167.759	1.00	0.47	N
ATOM	8309	N	GLN	A1042	127.822	120.973	172.336	1.00	0.51	N

ATOM	8310	CA	GLN	A1042	127.144	119.803	172.882	1.00	0.51	C
ATOM	8311	C	GLN	A1042	125.767	120.043	173.513	1.00	0.51	C
ATOM	8312	O	GLN	A1042	124.995	119.103	173.705	1.00	0.51	O
ATOM	8313	CB	GLN	A1042	128.053	119.164	173.957	1.00	0.51	C
ATOM	8314	CG	GLN	A1042	129.394	118.638	173.395	1.00	0.51	C
ATOM	8315	CD	GLN	A1042	130.282	118.127	174.529	1.00	0.51	C
ATOM	8316	OE1	GLN	A1042	130.308	118.674	175.630	1.00	0.51	O
ATOM	8317	NE2	GLN	A1042	131.056	117.054	174.256	1.00	0.51	N
ATOM	8318	N	LYS	A1043	125.422	121.316	173.810	1.00	0.44	N
ATOM	8319	CA	LYS	A1043	124.084	121.761	174.157	1.00	0.44	C
ATOM	8320	C	LYS	A1043	123.049	121.538	173.057	1.00	0.44	C
ATOM	8321	O	LYS	A1043	121.875	121.322	173.347	1.00	0.44	O
ATOM	8322	CB	LYS	A1043	124.079	123.276	174.490	1.00	0.44	C
ATOM	8323	CG	LYS	A1043	124.849	123.640	175.767	1.00	0.44	C
ATOM	8324	CD	LYS	A1043	124.870	125.162	175.984	1.00	0.44	C
ATOM	8325	CE	LYS	A1043	125.572	125.586	177.274	1.00	0.44	C
ATOM	8326	NZ	LYS	A1043	125.588	127.063	177.362	1.00	0.44	N
ATOM	8327	N	THR	A1044	123.447	121.631	171.768	1.00	0.44	N
ATOM	8328	CA	THR	A1044	122.544	121.516	170.633	1.00	0.44	C
ATOM	8329	C	THR	A1044	122.022	120.109	170.377	1.00	0.44	C
ATOM	8330	O	THR	A1044	122.514	119.078	170.856	1.00	0.44	O
ATOM	8331	CB	THR	A1044	123.021	122.147	169.316	1.00	0.44	C
ATOM	8332	OG1	THR	A1044	124.058	121.424	168.672	1.00	0.44	O
ATOM	8333	CG2	THR	A1044	123.563	123.563	169.552	1.00	0.44	C
ATOM	8334	N	ASP	A1045	120.923	120.064	169.613	1.00	0.47	N
ATOM	8335	CA	ASP	A1045	120.267	118.866	169.195	1.00	0.47	C
ATOM	8336	C	ASP	A1045	120.122	118.972	167.677	1.00	0.47	C
ATOM	8337	O	ASP	A1045	119.261	119.685	167.161	1.00	0.47	O
ATOM	8338	CB	ASP	A1045	118.930	118.841	169.961	1.00	0.47	C
ATOM	8339	CG	ASP	A1045	118.202	117.542	169.747	1.00	0.47	C
ATOM	8340	OD1	ASP	A1045	118.832	116.473	169.923	1.00	0.47	O
ATOM	8341	OD2	ASP	A1045	116.990	117.625	169.422	1.00	0.47	O
ATOM	8342	N	ASP	A1046	121.006	118.269	166.942	1.00	0.53	N
ATOM	8343	CA	ASP	A1046	121.166	118.414	165.508	1.00	0.53	C
ATOM	8344	C	ASP	A1046	121.558	117.069	164.879	1.00	0.53	C
ATOM	8345	O	ASP	A1046	122.220	117.036	163.836	1.00	0.53	O
ATOM	8346	CB	ASP	A1046	122.336	119.382	165.149	1.00	0.53	C
ATOM	8347	CG	ASP	A1046	122.165	120.868	165.420	1.00	0.53	C
ATOM	8348	OD1	ASP	A1046	121.479	121.535	164.606	1.00	0.53	O
ATOM	8349	OD2	ASP	A1046	122.893	121.399	166.294	1.00	0.53	O
ATOM	8350	N	ASP	A1047	121.200	115.924	165.508	1.00	0.62	N
ATOM	8351	CA	ASP	A1047	121.533	114.580	165.037	1.00	0.62	C
ATOM	8352	C	ASP	A1047	123.008	114.399	164.630	1.00	0.62	C
ATOM	8353	O	ASP	A1047	123.921	114.640	165.414	1.00	0.62	O
ATOM	8354	CB	ASP	A1047	120.544	114.126	163.926	1.00	0.62	C
ATOM	8355	CG	ASP	A1047	119.114	114.269	164.422	1.00	0.62	C
ATOM	8356	OD1	ASP	A1047	118.808	113.664	165.477	1.00	0.62	O
ATOM	8357	OD2	ASP	A1047	118.320	114.974	163.747	1.00	0.62	O
ATOM	8358	N	PHE	A1048	123.254	114.046	163.350	1.00	0.67	N
ATOM	8359	CA	PHE	A1048	124.550	113.880	162.695	1.00	0.67	C
ATOM	8360	C	PHE	A1048	125.542	115.033	162.931	1.00	0.67	C
ATOM	8361	O	PHE	A1048	126.752	114.836	163.036	1.00	0.67	O
ATOM	8362	CB	PHE	A1048	124.253	113.661	161.163	1.00	0.67	C
ATOM	8363	CG	PHE	A1048	125.333	114.122	160.205	1.00	0.67	C
ATOM	8364	CD1	PHE	A1048	126.449	113.320	159.922	1.00	0.67	C
ATOM	8365	CD2	PHE	A1048	125.271	115.420	159.663	1.00	0.67	C
ATOM	8366	CE1	PHE	A1048	127.488	113.807	159.116	1.00	0.67	C
ATOM	8367	CE2	PHE	A1048	126.315	115.916	158.873	1.00	0.67	C
ATOM	8368	CZ	PHE	A1048	127.423	115.106	158.595	1.00	0.67	C
ATOM	8369	N	ARG	A1049	125.068	116.292	163.003	1.00	0.64	N
ATOM	8370	CA	ARG	A1049	125.943	117.431	163.213	1.00	0.64	C
ATOM	8371	C	ARG	A1049	126.533	117.458	164.623	1.00	0.64	C
ATOM	8372	O	ARG	A1049	127.637	117.954	164.834	1.00	0.64	O
ATOM	8373	CB	ARG	A1049	125.171	118.731	162.898	1.00	0.64	C
ATOM	8374	CG	ARG	A1049	125.916	120.060	163.159	1.00	0.64	C

ATOM	8375	CD	ARG	A1049	125.024	121.311	163.079	1.00	0.64	C
ATOM	8376	NE	ARG	A1049	124.466	121.351	161.685	1.00	0.64	N
ATOM	8377	CZ	ARG	A1049	123.199	121.657	161.374	1.00	0.64	C
ATOM	8378	NH1	ARG	A1049	122.332	122.166	162.237	1.00	0.64	N
ATOM	8379	NH2	ARG	A1049	122.743	121.403	160.147	1.00	0.64	N
ATOM	8380	N	LYS	A1050	125.831	116.875	165.616	1.00	0.64	N
ATOM	8381	CA	LYS	A1050	126.328	116.702	166.970	1.00	0.64	C
ATOM	8382	C	LYS	A1050	127.516	115.742	167.024	1.00	0.64	C
ATOM	8383	O	LYS	A1050	128.540	116.023	167.649	1.00	0.64	O
ATOM	8384	CB	LYS	A1050	125.161	116.214	167.859	1.00	0.64	C
ATOM	8385	CG	LYS	A1050	125.403	116.245	169.372	1.00	0.64	C
ATOM	8386	CD	LYS	A1050	124.071	116.026	170.105	1.00	0.64	C
ATOM	8387	CE	LYS	A1050	124.163	116.154	171.623	1.00	0.64	C
ATOM	8388	NZ	LYS	A1050	122.796	116.279	172.169	1.00	0.64	N
ATOM	8389	N	ASP	A1051	127.428	114.611	166.288	1.00	0.72	N
ATOM	8390	CA	ASP	A1051	128.518	113.676	166.065	1.00	0.72	C
ATOM	8391	C	ASP	A1051	129.680	114.301	165.294	1.00	0.72	C
ATOM	8392	O	ASP	A1051	130.847	114.132	165.638	1.00	0.72	O
ATOM	8393	CB	ASP	A1051	128.020	112.434	165.288	1.00	0.72	C
ATOM	8394	CG	ASP	A1051	126.843	111.815	166.015	1.00	0.72	C
ATOM	8395	OD1	ASP	A1051	127.008	111.463	167.209	1.00	0.72	O
ATOM	8396	OD2	ASP	A1051	125.766	111.715	165.376	1.00	0.72	O
ATOM	8397	N	LEU	A1052	129.381	115.095	164.242	1.00	0.75	N
ATOM	8398	CA	LEU	A1052	130.363	115.840	163.464	1.00	0.75	C
ATOM	8399	C	LEU	A1052	131.154	116.845	164.297	1.00	0.75	C
ATOM	8400	O	LEU	A1052	132.378	116.933	164.209	1.00	0.75	O
ATOM	8401	CB	LEU	A1052	129.646	116.585	162.308	1.00	0.75	C
ATOM	8402	CG	LEU	A1052	130.535	117.436	161.377	1.00	0.75	C
ATOM	8403	CD1	LEU	A1052	131.572	116.596	160.626	1.00	0.75	C
ATOM	8404	CD2	LEU	A1052	129.660	118.181	160.362	1.00	0.75	C
ATOM	8405	N	ALA	A1053	130.476	117.607	165.176	1.00	0.77	N
ATOM	8406	CA	ALA	A1053	131.117	118.486	166.131	1.00	0.77	C
ATOM	8407	C	ALA	A1053	131.964	117.750	167.162	1.00	0.77	C
ATOM	8408	O	ALA	A1053	133.092	118.144	167.460	1.00	0.77	O
ATOM	8409	CB	ALA	A1053	130.048	119.338	166.824	1.00	0.77	C
ATOM	8410	N	GLY	A1054	131.458	116.616	167.695	1.00	0.76	N
ATOM	8411	CA	GLY	A1054	132.222	115.746	168.585	1.00	0.76	C
ATOM	8412	C	GLY	A1054	133.442	115.117	167.952	1.00	0.76	C
ATOM	8413	O	GLY	A1054	134.449	114.908	168.621	1.00	0.76	O
ATOM	8414	N	ALA	A1055	133.391	114.824	166.640	1.00	0.80	N
ATOM	8415	CA	ALA	A1055	134.526	114.406	165.840	1.00	0.80	C
ATOM	8416	C	ALA	A1055	135.568	115.498	165.633	1.00	0.80	C
ATOM	8417	O	ALA	A1055	136.763	115.282	165.820	1.00	0.80	O
ATOM	8418	CB	ALA	A1055	134.026	113.899	164.472	1.00	0.80	C
ATOM	8419	N	PHE	A1056	135.128	116.728	165.292	1.00	0.74	N
ATOM	8420	CA	PHE	A1056	135.996	117.877	165.076	1.00	0.74	C
ATOM	8421	C	PHE	A1056	136.793	118.271	166.316	1.00	0.74	C
ATOM	8422	O	PHE	A1056	138.006	118.480	166.256	1.00	0.74	O
ATOM	8423	CB	PHE	A1056	135.119	119.071	164.606	1.00	0.74	C
ATOM	8424	CG	PHE	A1056	135.881	120.322	164.234	1.00	0.74	C
ATOM	8425	CD1	PHE	A1056	137.089	120.288	163.511	1.00	0.74	C
ATOM	8426	CD2	PHE	A1056	135.338	121.572	164.573	1.00	0.74	C
ATOM	8427	CE1	PHE	A1056	137.699	121.474	163.085	1.00	0.74	C
ATOM	8428	CE2	PHE	A1056	135.943	122.759	164.151	1.00	0.74	C
ATOM	8429	CZ	PHE	A1056	137.117	122.706	163.396	1.00	0.74	C
ATOM	8430	N	HIS	A1057	136.116	118.312	167.483	1.00	0.72	N
ATOM	8431	CA	HIS	A1057	136.729	118.611	168.766	1.00	0.72	C
ATOM	8432	C	HIS	A1057	137.523	117.428	169.321	1.00	0.72	C
ATOM	8433	O	HIS	A1057	138.388	117.579	170.183	1.00	0.72	O
ATOM	8434	CB	HIS	A1057	135.649	119.044	169.790	1.00	0.72	C
ATOM	8435	CG	HIS	A1057	134.924	120.303	169.402	1.00	0.72	C
ATOM	8436	ND1	HIS	A1057	135.654	121.451	169.165	1.00	0.72	N
ATOM	8437	CD2	HIS	A1057	133.597	120.551	169.231	1.00	0.72	C
ATOM	8438	CE1	HIS	A1057	134.765	122.372	168.849	1.00	0.72	C
ATOM	8439	NE2	HIS	A1057	133.501	121.881	168.874	1.00	0.72	N

ATOM	8440	N	GLY	A1058	137.289	116.206	168.793	1.00	0.75	N
ATOM	8441	CA	GLY	A1058	138.033	115.002	169.154	1.00	0.75	C
ATOM	8442	C	GLY	A1058	137.511	114.239	170.338	1.00	0.75	C
ATOM	8443	O	GLY	A1058	138.174	113.342	170.845	1.00	0.75	O
ATOM	8444	N	ASN	A1059	136.297	114.558	170.820	1.00	0.70	N
ATOM	8445	CA	ASN	A1059	135.607	113.789	171.846	1.00	0.70	C
ATOM	8446	C	ASN	A1059	135.234	112.380	171.392	1.00	0.70	C
ATOM	8447	O	ASN	A1059	135.284	111.429	172.166	1.00	0.70	O
ATOM	8448	CB	ASN	A1059	134.282	114.468	172.286	1.00	0.70	C
ATOM	8449	CG	ASN	A1059	134.496	115.909	172.727	1.00	0.70	C
ATOM	8450	OD1	ASN	A1059	134.384	116.832	171.922	1.00	0.70	O
ATOM	8451	ND2	ASN	A1059	134.751	116.132	174.036	1.00	0.70	N
ATOM	8452	N	VAL	A1060	134.801	112.239	170.124	1.00	0.73	N
ATOM	8453	CA	VAL	A1060	134.322	110.986	169.565	1.00	0.73	C
ATOM	8454	C	VAL	A1060	135.126	110.694	168.315	1.00	0.73	C
ATOM	8455	O	VAL	A1060	135.195	111.510	167.402	1.00	0.73	O
ATOM	8456	CB	VAL	A1060	132.831	111.050	169.221	1.00	0.73	C
ATOM	8457	CG1	VAL	A1060	132.348	109.731	168.582	1.00	0.73	C
ATOM	8458	CG2	VAL	A1060	132.029	111.324	170.510	1.00	0.73	C
ATOM	8459	N	GLU	A1061	135.778	109.518	168.229	1.00	0.72	N
ATOM	8460	CA	GLU	A1061	136.539	109.140	167.053	1.00	0.72	C
ATOM	8461	C	GLU	A1061	135.640	108.619	165.935	1.00	0.72	C
ATOM	8462	O	GLU	A1061	134.772	107.771	166.140	1.00	0.72	O
ATOM	8463	CB	GLU	A1061	137.617	108.098	167.409	1.00	0.72	C
ATOM	8464	CG	GLU	A1061	138.616	107.808	166.261	1.00	0.72	C
ATOM	8465	CD	GLU	A1061	139.722	106.839	166.676	1.00	0.72	C
ATOM	8466	OE1	GLU	A1061	139.714	106.372	167.843	1.00	0.72	O
ATOM	8467	OE2	GLU	A1061	140.586	106.564	165.804	1.00	0.72	O
ATOM	8468	N	VAL	A1062	135.804	109.158	164.710	1.00	0.75	N
ATOM	8469	CA	VAL	A1062	134.949	108.867	163.573	1.00	0.75	C
ATOM	8470	C	VAL	A1062	135.882	108.794	162.369	1.00	0.75	C
ATOM	8471	O	VAL	A1062	136.728	109.682	162.258	1.00	0.75	O
ATOM	8472	CB	VAL	A1062	133.907	109.970	163.340	1.00	0.75	C
ATOM	8473	CG1	VAL	A1062	132.920	109.567	162.236	1.00	0.75	C
ATOM	8474	CG2	VAL	A1062	133.103	110.245	164.625	1.00	0.75	C
ATOM	8475	N	PRO	A1063	135.854	107.842	161.431	1.00	0.71	N
ATOM	8476	CA	PRO	A1063	137.082	107.464	160.719	1.00	0.71	C
ATOM	8477	C	PRO	A1063	137.330	108.315	159.481	1.00	0.71	C
ATOM	8478	O	PRO	A1063	138.231	107.995	158.714	1.00	0.71	O
ATOM	8479	CB	PRO	A1063	136.821	105.991	160.331	1.00	0.71	C
ATOM	8480	CG	PRO	A1063	135.299	105.886	160.225	1.00	0.71	C
ATOM	8481	CD	PRO	A1063	134.842	106.782	161.371	1.00	0.71	C
ATOM	8482	N	TRP	A1064	136.562	109.396	159.264	1.00	0.74	N
ATOM	8483	CA	TRP	A1064	136.694	110.255	158.099	1.00	0.74	C
ATOM	8484	C	TRP	A1064	136.994	111.714	158.423	1.00	0.74	C
ATOM	8485	O	TRP	A1064	137.308	112.498	157.528	1.00	0.74	O
ATOM	8486	CB	TRP	A1064	135.400	110.170	157.248	1.00	0.74	C
ATOM	8487	CG	TRP	A1064	134.095	110.101	158.021	1.00	0.74	C
ATOM	8488	CD1	TRP	A1064	133.353	108.991	158.318	1.00	0.74	C
ATOM	8489	CD2	TRP	A1064	133.358	111.230	158.525	1.00	0.74	C
ATOM	8490	NE1	TRP	A1064	132.195	109.351	158.975	1.00	0.74	N
ATOM	8491	CE2	TRP	A1064	132.184	110.722	159.116	1.00	0.74	C
ATOM	8492	CE3	TRP	A1064	133.614	112.598	158.491	1.00	0.74	C
ATOM	8493	CZ2	TRP	A1064	131.253	111.572	159.701	1.00	0.74	C
ATOM	8494	CZ3	TRP	A1064	132.685	113.453	159.101	1.00	0.74	C
ATOM	8495	CH2	TRP	A1064	131.521	112.949	159.699	1.00	0.74	C
ATOM	8496	N	MET	A1065	136.957	112.139	159.701	1.00	0.77	N
ATOM	8497	CA	MET	A1065	137.317	113.503	160.049	1.00	0.77	C
ATOM	8498	C	MET	A1065	138.415	113.481	161.081	1.00	0.77	C
ATOM	8499	O	MET	A1065	138.270	112.958	162.182	1.00	0.77	O
ATOM	8500	CB	MET	A1065	136.131	114.353	160.562	1.00	0.77	C
ATOM	8501	CG	MET	A1065	136.508	115.837	160.739	1.00	0.77	C
ATOM	8502	SD	MET	A1065	135.107	116.920	161.115	1.00	0.77	S
ATOM	8503	CE	MET	A1065	136.106	118.398	160.795	1.00	0.77	C
ATOM	8504	N	THR	A1066	139.577	114.047	160.726	1.00	0.74	N

ATOM	8505	CA	THR	A1066	140.703	114.218	161.623	1.00	0.74	C
ATOM	8506	C	THR	A1066	140.467	115.360	162.599	1.00	0.74	C
ATOM	8507	O	THR	A1066	139.832	116.367	162.289	1.00	0.74	O
ATOM	8508	CB	THR	A1066	142.004	114.436	160.861	1.00	0.74	C
ATOM	8509	OG1	THR	A1066	141.804	115.362	159.805	1.00	0.74	O
ATOM	8510	CG2	THR	A1066	142.420	113.121	160.188	1.00	0.74	C
ATOM	8511	N	GLN	A1067	140.969	115.220	163.843	1.00	0.76	N
ATOM	8512	CA	GLN	A1067	140.783	116.205	164.896	1.00	0.76	C
ATOM	8513	C	GLN	A1067	141.376	117.575	164.566	1.00	0.76	C
ATOM	8514	O	GLN	A1067	142.549	117.696	164.222	1.00	0.76	O
ATOM	8515	CB	GLN	A1067	141.402	115.681	166.215	1.00	0.76	C
ATOM	8516	CG	GLN	A1067	141.146	116.588	167.443	1.00	0.76	C
ATOM	8517	CD	GLN	A1067	141.793	116.005	168.699	1.00	0.76	C
ATOM	8518	OE1	GLN	A1067	142.673	115.146	168.645	1.00	0.76	O
ATOM	8519	NE2	GLN	A1067	141.352	116.487	169.883	1.00	0.76	N
ATOM	8520	N	GLY	A1068	140.560	118.650	164.655	1.00	0.79	N
ATOM	8521	CA	GLY	A1068	141.001	120.032	164.454	1.00	0.79	C
ATOM	8522	C	GLY	A1068	141.229	120.470	163.024	1.00	0.79	C
ATOM	8523	O	GLY	A1068	141.581	121.619	162.761	1.00	0.79	O
ATOM	8524	N	ALA	A1069	141.011	119.587	162.037	1.00	0.84	N
ATOM	8525	CA	ALA	A1069	141.323	119.887	160.659	1.00	0.84	C
ATOM	8526	C	ALA	A1069	140.116	120.373	159.874	1.00	0.84	C
ATOM	8527	O	ALA	A1069	138.964	120.091	160.194	1.00	0.84	O
ATOM	8528	CB	ALA	A1069	141.921	118.647	159.982	1.00	0.84	C
ATOM	8529	N	THR	A1070	140.359	121.141	158.795	1.00	0.81	N
ATOM	8530	CA	THR	A1070	139.293	121.729	157.981	1.00	0.81	C
ATOM	8531	C	THR	A1070	139.082	120.934	156.695	1.00	0.81	C
ATOM	8532	O	THR	A1070	139.126	121.442	155.577	1.00	0.81	O
ATOM	8533	CB	THR	A1070	139.490	123.236	157.768	1.00	0.81	C
ATOM	8534	OG1	THR	A1070	138.420	123.866	157.083	1.00	0.81	O
ATOM	8535	CG2	THR	A1070	140.785	123.611	157.048	1.00	0.81	C
ATOM	8536	N	TYR	A1071	138.817	119.618	156.824	1.00	0.81	N
ATOM	8537	CA	TYR	A1071	138.537	118.782	155.674	1.00	0.81	C
ATOM	8538	C	TYR	A1071	137.801	117.523	156.084	1.00	0.81	C
ATOM	8539	O	TYR	A1071	137.731	117.162	157.257	1.00	0.81	O
ATOM	8540	CB	TYR	A1071	139.802	118.420	154.823	1.00	0.81	C
ATOM	8541	CG	TYR	A1071	140.877	117.687	155.591	1.00	0.81	C
ATOM	8542	CD1	TYR	A1071	140.762	116.316	155.888	1.00	0.81	C
ATOM	8543	CD2	TYR	A1071	142.028	118.371	156.013	1.00	0.81	C
ATOM	8544	CE1	TYR	A1071	141.765	115.658	156.612	1.00	0.81	C
ATOM	8545	CE2	TYR	A1071	143.057	117.693	156.682	1.00	0.81	C
ATOM	8546	CZ	TYR	A1071	142.925	116.337	156.979	1.00	0.81	C
ATOM	8547	OH	TYR	A1071	143.947	115.659	157.672	1.00	0.81	O
ATOM	8548	N	LEU	A1072	137.256	116.810	155.086	1.00	0.84	N
ATOM	8549	CA	LEU	A1072	136.701	115.482	155.238	1.00	0.84	C
ATOM	8550	C	LEU	A1072	137.537	114.535	154.391	1.00	0.84	C
ATOM	8551	O	LEU	A1072	137.863	114.854	153.248	1.00	0.84	O
ATOM	8552	CB	LEU	A1072	135.233	115.438	154.738	1.00	0.84	C
ATOM	8553	CG	LEU	A1072	134.292	116.459	155.415	1.00	0.84	C
ATOM	8554	CD1	LEU	A1072	132.922	116.494	154.718	1.00	0.84	C
ATOM	8555	CD2	LEU	A1072	134.123	116.171	156.914	1.00	0.84	C
ATOM	8556	N	GLN	A1073	137.940	113.363	154.926	1.00	0.80	N
ATOM	8557	CA	GLN	A1073	138.575	112.309	154.149	1.00	0.80	C
ATOM	8558	C	GLN	A1073	137.536	111.317	153.667	1.00	0.80	C
ATOM	8559	O	GLN	A1073	136.624	110.941	154.396	1.00	0.80	O
ATOM	8560	CB	GLN	A1073	139.637	111.503	154.944	1.00	0.80	C
ATOM	8561	CG	GLN	A1073	140.930	112.295	155.226	1.00	0.80	C
ATOM	8562	CD	GLN	A1073	141.952	111.448	155.987	1.00	0.80	C
ATOM	8563	OE1	GLN	A1073	142.019	110.228	155.865	1.00	0.80	O
ATOM	8564	NE2	GLN	A1073	142.816	112.111	156.790	1.00	0.80	N
ATOM	8565	N	THR	A1074	137.670	110.864	152.411	1.00	0.82	N
ATOM	8566	CA	THR	A1074	136.771	109.867	151.839	1.00	0.82	C
ATOM	8567	C	THR	A1074	137.612	108.852	151.091	1.00	0.82	C
ATOM	8568	O	THR	A1074	138.337	109.194	150.153	1.00	0.82	O
ATOM	8569	CB	THR	A1074	135.777	110.482	150.855	1.00	0.82	C

ATOM	8570	OG1	THR	A1074	134.913	111.419	151.471	1.00	0.82	O
ATOM	8571	CG2	THR	A1074	134.852	109.443	150.226	1.00	0.82	C
ATOM	8572	N	GLU	A1075	137.550	107.555	151.440	1.00	0.80	N
ATOM	8573	CA	GLU	A1075	138.325	106.546	150.733	1.00	0.80	C
ATOM	8574	C	GLU	A1075	137.530	105.995	149.568	1.00	0.80	C
ATOM	8575	O	GLU	A1075	137.936	106.087	148.406	1.00	0.80	O
ATOM	8576	CB	GLU	A1075	138.771	105.409	151.681	1.00	0.80	C
ATOM	8577	CG	GLU	A1075	139.845	104.478	151.060	1.00	0.80	C
ATOM	8578	CD	GLU	A1075	139.391	103.101	150.633	1.00	0.80	C
ATOM	8579	OE1	GLU	A1075	138.221	102.704	150.821	1.00	0.80	O
ATOM	8580	OE2	GLU	A1075	140.281	102.286	150.289	1.00	0.80	O
ATOM	8581	N	THR	A1076	136.314	105.501	149.859	1.00	0.82	N
ATOM	8582	CA	THR	A1076	135.418	104.873	148.895	1.00	0.82	C
ATOM	8583	C	THR	A1076	134.713	105.899	148.000	1.00	0.82	C
ATOM	8584	O	THR	A1076	134.926	107.109	148.076	1.00	0.82	O
ATOM	8585	CB	THR	A1076	134.491	103.822	149.539	1.00	0.82	C
ATOM	8586	OG1	THR	A1076	133.676	103.139	148.586	1.00	0.82	O
ATOM	8587	CG2	THR	A1076	133.584	104.436	150.611	1.00	0.82	C
ATOM	8588	N	GLY	A1077	133.905	105.428	147.034	1.00	0.85	N
ATOM	8589	CA	GLY	A1077	133.052	106.247	146.185	1.00	0.85	C
ATOM	8590	C	GLY	A1077	133.698	107.061	145.083	1.00	0.85	C
ATOM	8591	O	GLY	A1077	134.569	107.908	145.288	1.00	0.85	O
ATOM	8592	N	MET	A1078	133.204	106.862	143.847	1.00	0.82	N
ATOM	8593	CA	MET	A1078	133.410	107.761	142.726	1.00	0.82	C
ATOM	8594	C	MET	A1078	132.775	109.145	142.884	1.00	0.82	C
ATOM	8595	O	MET	A1078	131.770	109.328	143.572	1.00	0.82	O
ATOM	8596	CB	MET	A1078	132.933	107.135	141.394	1.00	0.82	C
ATOM	8597	CG	MET	A1078	131.416	106.858	141.323	1.00	0.82	C
ATOM	8598	SD	MET	A1078	130.845	106.393	139.664	1.00	0.82	S
ATOM	8599	CE	MET	A1078	130.740	108.101	139.052	1.00	0.82	C
ATOM	8600	N	MET	A1079	133.367	110.165	142.228	1.00	0.78	N
ATOM	8601	CA	MET	A1079	132.872	111.530	142.238	1.00	0.78	C
ATOM	8602	C	MET	A1079	131.993	111.823	141.029	1.00	0.78	C
ATOM	8603	O	MET	A1079	132.366	111.619	139.872	1.00	0.78	O
ATOM	8604	CB	MET	A1079	134.031	112.554	142.291	1.00	0.78	C
ATOM	8605	CG	MET	A1079	134.869	112.510	143.587	1.00	0.78	C
ATOM	8606	SD	MET	A1079	134.013	113.117	145.078	1.00	0.78	S
ATOM	8607	CE	MET	A1079	133.417	111.533	145.744	1.00	0.78	C
ATOM	8608	N	GLN	A1080	130.772	112.321	141.300	1.00	0.74	N
ATOM	8609	CA	GLN	A1080	129.770	112.683	140.319	1.00	0.74	C
ATOM	8610	C	GLN	A1080	130.202	113.779	139.355	1.00	0.74	C
ATOM	8611	O	GLN	A1080	130.700	114.827	139.753	1.00	0.74	O
ATOM	8612	CB	GLN	A1080	128.485	113.116	141.057	1.00	0.74	C
ATOM	8613	CG	GLN	A1080	127.262	113.360	140.148	1.00	0.74	C
ATOM	8614	CD	GLN	A1080	125.994	113.449	140.996	1.00	0.74	C
ATOM	8615	OE1	GLN	A1080	125.881	112.842	142.064	1.00	0.74	O
ATOM	8616	NE2	GLN	A1080	124.997	114.211	140.496	1.00	0.74	N
ATOM	8617	N	GLY	A1081	130.036	113.534	138.037	1.00	0.75	N
ATOM	8618	CA	GLY	A1081	130.390	114.479	136.979	1.00	0.75	C
ATOM	8619	C	GLY	A1081	131.863	114.530	136.667	1.00	0.75	C
ATOM	8620	O	GLY	A1081	132.294	115.265	135.784	1.00	0.75	O
ATOM	8621	N	ILE	A1082	132.676	113.726	137.376	1.00	0.83	N
ATOM	8622	CA	ILE	A1082	134.093	113.587	137.098	1.00	0.83	C
ATOM	8623	C	ILE	A1082	134.339	112.314	136.315	1.00	0.83	C
ATOM	8624	O	ILE	A1082	135.001	112.332	135.285	1.00	0.83	O
ATOM	8625	CB	ILE	A1082	134.931	113.606	138.373	1.00	0.83	C
ATOM	8626	CG1	ILE	A1082	134.662	114.872	139.229	1.00	0.83	C
ATOM	8627	CG2	ILE	A1082	136.424	113.506	138.002	1.00	0.83	C
ATOM	8628	CD1	ILE	A1082	134.973	116.206	138.535	1.00	0.83	C
ATOM	8629	N	LEU	A1083	133.787	111.173	136.768	1.00	0.83	N
ATOM	8630	CA	LEU	A1083	133.874	109.914	136.045	1.00	0.83	C
ATOM	8631	C	LEU	A1083	132.510	109.614	135.448	1.00	0.83	C
ATOM	8632	O	LEU	A1083	131.720	108.834	135.977	1.00	0.83	O
ATOM	8633	CB	LEU	A1083	134.342	108.765	136.974	1.00	0.83	C
ATOM	8634	CG	LEU	A1083	135.735	108.977	137.610	1.00	0.83	C



ATOM	8635	CD1	LEU	A1083	136.129	107.755	138.454	1.00	0.83	C
ATOM	8636	CD2	LEU	A1083	136.827	109.257	136.565	1.00	0.83	C
ATOM	8637	N	HIS	A1084	132.163	110.308	134.350	1.00	0.79	N
ATOM	8638	CA	HIS	A1084	130.836	110.267	133.768	1.00	0.79	C
ATOM	8639	C	HIS	A1084	130.640	109.088	132.830	1.00	0.79	C
ATOM	8640	O	HIS	A1084	129.612	108.418	132.867	1.00	0.79	O
ATOM	8641	CB	HIS	A1084	130.531	111.586	133.020	1.00	0.79	C
ATOM	8642	CG	HIS	A1084	129.077	111.824	132.725	1.00	0.79	C
ATOM	8643	ND1	HIS	A1084	128.736	112.977	132.049	1.00	0.79	N
ATOM	8644	CD2	HIS	A1084	127.957	111.117	133.037	1.00	0.79	C
ATOM	8645	CE1	HIS	A1084	127.424	112.951	131.953	1.00	0.79	C
ATOM	8646	NE2	HIS	A1084	126.899	111.847	132.537	1.00	0.79	N
ATOM	8647	N	PHE	A1085	131.626	108.791	131.962	1.00	0.85	N
ATOM	8648	CA	PHE	A1085	131.442	107.807	130.904	1.00	0.85	C
ATOM	8649	C	PHE	A1085	131.845	106.399	131.321	1.00	0.85	C
ATOM	8650	O	PHE	A1085	131.355	105.411	130.773	1.00	0.85	O
ATOM	8651	CB	PHE	A1085	132.258	108.199	129.643	1.00	0.85	C
ATOM	8652	CG	PHE	A1085	131.677	109.434	129.010	1.00	0.85	C
ATOM	8653	CD1	PHE	A1085	130.565	109.349	128.154	1.00	0.85	C
ATOM	8654	CD2	PHE	A1085	132.224	110.698	129.282	1.00	0.85	C
ATOM	8655	CE1	PHE	A1085	130.012	110.504	127.585	1.00	0.85	C
ATOM	8656	CE2	PHE	A1085	131.665	111.857	128.733	1.00	0.85	C
ATOM	8657	CZ	PHE	A1085	130.558	111.760	127.882	1.00	0.85	C
ATOM	8658	N	THR	A1086	132.722	106.245	132.336	1.00	0.87	N
ATOM	8659	CA	THR	A1086	133.104	104.934	132.871	1.00	0.87	C
ATOM	8660	C	THR	A1086	131.968	104.215	133.570	1.00	0.87	C
ATOM	8661	O	THR	A1086	131.803	103.004	133.426	1.00	0.87	O
ATOM	8662	CB	THR	A1086	134.302	104.948	133.814	1.00	0.87	C
ATOM	8663	OG1	THR	A1086	134.133	105.901	134.848	1.00	0.87	O
ATOM	8664	CG2	THR	A1086	135.559	105.348	133.036	1.00	0.87	C
ATOM	8665	N	SER	A1087	131.137	104.944	134.339	1.00	0.85	N
ATOM	8666	CA	SER	A1087	129.956	104.394	134.989	1.00	0.85	C
ATOM	8667	C	SER	A1087	128.885	103.921	134.008	1.00	0.85	C
ATOM	8668	O	SER	A1087	128.357	102.820	134.150	1.00	0.85	O
ATOM	8669	CB	SER	A1087	129.382	105.347	136.069	1.00	0.85	C
ATOM	8670	OG	SER	A1087	128.841	106.545	135.510	1.00	0.85	O
ATOM	8671	N	SER	A1088	128.599	104.692	132.933	1.00	0.86	N
ATOM	8672	CA	SER	A1088	127.743	104.260	131.823	1.00	0.86	C
ATOM	8673	C	SER	A1088	128.279	103.033	131.096	1.00	0.86	C
ATOM	8674	O	SER	A1088	127.551	102.093	130.798	1.00	0.86	O
ATOM	8675	CB	SER	A1088	127.527	105.345	130.733	1.00	0.86	C
ATOM	8676	OG	SER	A1088	127.063	106.573	131.289	1.00	0.86	O
ATOM	8677	N	LEU	A1089	129.606	102.967	130.837	1.00	0.88	N
ATOM	8678	CA	LEU	A1089	130.248	101.795	130.247	1.00	0.88	C
ATOM	8679	C	LEU	A1089	130.082	100.529	131.091	1.00	0.88	C
ATOM	8680	O	LEU	A1089	129.775	99.452	130.581	1.00	0.88	O
ATOM	8681	CB	LEU	A1089	131.756	102.073	130.002	1.00	0.88	C
ATOM	8682	CG	LEU	A1089	132.565	100.916	129.368	1.00	0.88	C
ATOM	8683	CD1	LEU	A1089	132.026	100.504	127.988	1.00	0.88	C
ATOM	8684	CD2	LEU	A1089	134.052	101.288	129.266	1.00	0.88	C
ATOM	8685	N	LEU	A1090	130.224	100.643	132.428	1.00	0.88	N
ATOM	8686	CA	LEU	A1090	129.914	99.571	133.359	1.00	0.88	C
ATOM	8687	C	LEU	A1090	128.450	99.134	133.315	1.00	0.88	C
ATOM	8688	O	LEU	A1090	128.152	97.940	133.290	1.00	0.88	O
ATOM	8689	CB	LEU	A1090	130.280	100.025	134.795	1.00	0.88	C
ATOM	8690	CG	LEU	A1090	129.876	99.064	135.933	1.00	0.88	C
ATOM	8691	CD1	LEU	A1090	130.596	97.710	135.849	1.00	0.88	C
ATOM	8692	CD2	LEU	A1090	130.117	99.736	137.289	1.00	0.88	C
ATOM	8693	N	HIS	A1091	127.499	100.090	133.271	1.00	0.86	N
ATOM	8694	CA	HIS	A1091	126.071	99.806	133.185	1.00	0.86	C
ATOM	8695	C	HIS	A1091	125.697	99.059	131.909	1.00	0.86	C
ATOM	8696	O	HIS	A1091	124.980	98.059	131.945	1.00	0.86	O
ATOM	8697	CB	HIS	A1091	125.251	101.107	133.328	1.00	0.86	C
ATOM	8698	CG	HIS	A1091	123.862	100.935	133.863	1.00	0.86	C
ATOM	8699	ND1	HIS	A1091	123.614	100.051	134.902	1.00	0.86	N

ATOM	8700	CD2	HIS	A1091	122.783	101.731	133.660	1.00	0.86	C
ATOM	8701	CE1	HIS	A1091	122.390	100.333	135.303	1.00	0.86	C
ATOM	8702	NE2	HIS	A1091	121.844	101.347	134.591	1.00	0.86	N
ATOM	8703	N	SER	A1092	126.284	99.462	130.761	1.00	0.90	N
ATOM	8704	CA	SER	A1092	126.182	98.774	129.474	1.00	0.90	C
ATOM	8705	C	SER	A1092	126.656	97.325	129.531	1.00	0.90	C
ATOM	8706	O	SER	A1092	125.984	96.421	129.033	1.00	0.90	O
ATOM	8707	CB	SER	A1092	126.955	99.536	128.355	1.00	0.90	C
ATOM	8708	OG	SER	A1092	126.890	98.871	127.084	1.00	0.90	O
ATOM	8709	N	CYS	A1093	127.792	97.031	130.206	1.00	0.91	N
ATOM	8710	CA	CYS	A1093	128.245	95.659	130.433	1.00	0.91	C
ATOM	8711	C	CYS	A1093	127.251	94.817	131.233	1.00	0.91	C
ATOM	8712	O	CYS	A1093	126.941	93.682	130.870	1.00	0.91	O
ATOM	8713	CB	CYS	A1093	129.610	95.609	131.183	1.00	0.91	C
ATOM	8714	SG	CYS	A1093	131.007	96.275	130.222	1.00	0.91	S
ATOM	8715	N	VAL	A1094	126.698	95.367	132.334	1.00	0.91	N
ATOM	8716	CA	VAL	A1094	125.698	94.706	133.171	1.00	0.91	C
ATOM	8717	C	VAL	A1094	124.379	94.465	132.437	1.00	0.91	C
ATOM	8718	O	VAL	A1094	123.829	93.364	132.428	1.00	0.91	O
ATOM	8719	CB	VAL	A1094	125.463	95.514	134.448	1.00	0.91	C
ATOM	8720	CG1	VAL	A1094	124.341	94.897	135.309	1.00	0.91	C
ATOM	8721	CG2	VAL	A1094	126.775	95.541	135.256	1.00	0.91	C
ATOM	8722	N	GLN	A1095	123.863	95.487	131.734	1.00	0.87	N
ATOM	8723	CA	GLN	A1095	122.663	95.411	130.923	1.00	0.87	C
ATOM	8724	C	GLN	A1095	122.791	94.480	129.714	1.00	0.87	C
ATOM	8725	O	GLN	A1095	121.859	93.752	129.370	1.00	0.87	O
ATOM	8726	CB	GLN	A1095	122.235	96.843	130.530	1.00	0.87	C
ATOM	8727	CG	GLN	A1095	121.643	97.639	131.724	1.00	0.87	C
ATOM	8728	CD	GLN	A1095	120.216	97.200	132.052	1.00	0.87	C
ATOM	8729	OE1	GLN	A1095	119.957	96.472	133.009	1.00	0.87	O
ATOM	8730	NE2	GLN	A1095	119.239	97.648	131.228	1.00	0.87	N
ATOM	8731	N	SER	A1096	123.973	94.435	129.058	1.00	0.90	N
ATOM	8732	CA	SER	A1096	124.312	93.448	128.028	1.00	0.90	C
ATOM	8733	C	SER	A1096	124.276	92.015	128.553	1.00	0.90	C
ATOM	8734	O	SER	A1096	123.721	91.116	127.922	1.00	0.90	O
ATOM	8735	CB	SER	A1096	125.709	93.727	127.398	1.00	0.90	C
ATOM	8736	OG	SER	A1096	126.030	92.805	126.350	1.00	0.90	O
ATOM	8737	N	PHE	A1097	124.815	91.774	129.768	1.00	0.88	N
ATOM	8738	CA	PHE	A1097	124.723	90.489	130.445	1.00	0.88	C
ATOM	8739	C	PHE	A1097	123.274	90.069	130.724	1.00	0.88	C
ATOM	8740	O	PHE	A1097	122.889	88.926	130.476	1.00	0.88	O
ATOM	8741	CB	PHE	A1097	125.567	90.537	131.753	1.00	0.88	C
ATOM	8742	CG	PHE	A1097	125.551	89.229	132.501	1.00	0.88	C
ATOM	8743	CD1	PHE	A1097	126.352	88.150	132.093	1.00	0.88	C
ATOM	8744	CD2	PHE	A1097	124.681	89.060	133.592	1.00	0.88	C
ATOM	8745	CE1	PHE	A1097	126.289	86.924	132.770	1.00	0.88	C
ATOM	8746	CE2	PHE	A1097	124.619	87.839	134.273	1.00	0.88	C
ATOM	8747	CZ	PHE	A1097	125.428	86.771	133.865	1.00	0.88	C
ATOM	8748	N	TYR	A1098	122.411	90.996	131.198	1.00	0.87	N
ATOM	8749	CA	TYR	A1098	120.989	90.730	131.377	1.00	0.87	C
ATOM	8750	C	TYR	A1098	120.258	90.382	130.097	1.00	0.87	C
ATOM	8751	O	TYR	A1098	119.459	89.449	130.069	1.00	0.87	O
ATOM	8752	CB	TYR	A1098	120.240	91.914	132.045	1.00	0.87	C
ATOM	8753	CG	TYR	A1098	120.588	92.031	133.498	1.00	0.87	C
ATOM	8754	CD1	TYR	A1098	120.594	90.896	134.328	1.00	0.87	C
ATOM	8755	CD2	TYR	A1098	120.855	93.288	134.066	1.00	0.87	C
ATOM	8756	CE1	TYR	A1098	120.925	91.009	135.679	1.00	0.87	C
ATOM	8757	CE2	TYR	A1098	121.149	93.405	135.431	1.00	0.87	C
ATOM	8758	CZ	TYR	A1098	121.205	92.258	136.227	1.00	0.87	C
ATOM	8759	OH	TYR	A1098	121.522	92.343	137.588	1.00	0.87	O
ATOM	8760	N	LYS	A1099	120.548	91.084	128.988	1.00	0.85	N
ATOM	8761	CA	LYS	A1099	120.013	90.760	127.678	1.00	0.85	C
ATOM	8762	C	LYS	A1099	120.382	89.349	127.219	1.00	0.85	C
ATOM	8763	O	LYS	A1099	119.523	88.578	126.795	1.00	0.85	O
ATOM	8764	CB	LYS	A1099	120.553	91.804	126.674	1.00	0.85	C

ATOM	8765	CG	LYS	A1099	120.095	91.655	125.215	1.00	0.85	C
ATOM	8766	CD	LYS	A1099	120.789	92.715	124.344	1.00	0.85	C
ATOM	8767	CE	LYS	A1099	120.507	92.588	122.848	1.00	0.85	C
ATOM	8768	NZ	LYS	A1099	121.277	93.616	122.130	1.00	0.85	N
ATOM	8769	N	ALA	A1100	121.663	88.949	127.362	1.00	0.87	N
ATOM	8770	CA	ALA	A1100	122.132	87.606	127.068	1.00	0.87	C
ATOM	8771	C	ALA	A1100	121.527	86.520	127.965	1.00	0.87	C
ATOM	8772	O	ALA	A1100	121.149	85.442	127.500	1.00	0.87	O
ATOM	8773	CB	ALA	A1100	123.671	87.582	127.157	1.00	0.87	C
ATOM	8774	N	TYR	A1101	121.392	86.788	129.285	1.00	0.81	N
ATOM	8775	CA	TYR	A1101	120.706	85.919	130.231	1.00	0.81	C
ATOM	8776	C	TYR	A1101	119.229	85.725	129.896	1.00	0.81	C
ATOM	8777	O	TYR	A1101	118.733	84.600	129.842	1.00	0.81	O
ATOM	8778	CB	TYR	A1101	120.901	86.452	131.688	1.00	0.81	C
ATOM	8779	CG	TYR	A1101	120.176	85.626	132.732	1.00	0.81	C
ATOM	8780	CD1	TYR	A1101	120.394	84.242	132.856	1.00	0.81	C
ATOM	8781	CD2	TYR	A1101	119.203	86.231	133.545	1.00	0.81	C
ATOM	8782	CE1	TYR	A1101	119.620	83.475	133.740	1.00	0.81	C
ATOM	8783	CE2	TYR	A1101	118.429	85.466	134.431	1.00	0.81	C
ATOM	8784	CZ	TYR	A1101	118.626	84.083	134.513	1.00	0.81	C
ATOM	8785	OH	TYR	A1101	117.806	83.299	135.352	1.00	0.81	O
ATOM	8786	N	PHE	A1102	118.498	86.812	129.614	1.00	0.84	N
ATOM	8787	CA	PHE	A1102	117.094	86.757	129.263	1.00	0.84	C
ATOM	8788	C	PHE	A1102	116.812	86.112	127.914	1.00	0.84	C
ATOM	8789	O	PHE	A1102	115.852	85.358	127.782	1.00	0.84	O
ATOM	8790	CB	PHE	A1102	116.453	88.159	129.383	1.00	0.84	C
ATOM	8791	CG	PHE	A1102	116.423	88.703	130.790	1.00	0.84	C
ATOM	8792	CD1	PHE	A1102	116.550	87.902	131.944	1.00	0.84	C
ATOM	8793	CD2	PHE	A1102	116.195	90.080	130.953	1.00	0.84	C
ATOM	8794	CE1	PHE	A1102	116.416	88.457	133.219	1.00	0.84	C
ATOM	8795	CE2	PHE	A1102	116.074	90.640	132.230	1.00	0.84	C
ATOM	8796	CZ	PHE	A1102	116.173	89.822	133.358	1.00	0.84	C
ATOM	8797	N	LEU	A1103	117.654	86.337	126.880	1.00	0.81	N
ATOM	8798	CA	LEU	A1103	117.555	85.618	125.612	1.00	0.81	C
ATOM	8799	C	LEU	A1103	117.757	84.116	125.775	1.00	0.81	C
ATOM	8800	O	LEU	A1103	117.039	83.308	125.190	1.00	0.81	O
ATOM	8801	CB	LEU	A1103	118.564	86.164	124.568	1.00	0.81	C
ATOM	8802	CG	LEU	A1103	118.196	87.550	123.996	1.00	0.81	C
ATOM	8803	CD1	LEU	A1103	119.402	88.175	123.280	1.00	0.81	C
ATOM	8804	CD2	LEU	A1103	116.997	87.483	123.036	1.00	0.81	C
ATOM	8805	N	SER	A1104	118.716	83.703	126.629	1.00	0.79	N
ATOM	8806	CA	SER	A1104	118.925	82.302	126.991	1.00	0.79	C
ATOM	8807	C	SER	A1104	117.721	81.660	127.679	1.00	0.79	C
ATOM	8808	O	SER	A1104	117.294	80.566	127.322	1.00	0.79	O
ATOM	8809	CB	SER	A1104	120.159	82.153	127.915	1.00	0.79	C
ATOM	8810	OG	SER	A1104	120.629	80.805	127.952	1.00	0.79	O
ATOM	8811	N	ARG	A1105	117.084	82.380	128.629	1.00	0.72	N
ATOM	8812	CA	ARG	A1105	115.953	81.880	129.402	1.00	0.72	C
ATOM	8813	C	ARG	A1105	114.610	81.990	128.686	1.00	0.72	C
ATOM	8814	O	ARG	A1105	113.575	81.607	129.225	1.00	0.72	O
ATOM	8815	CB	ARG	A1105	115.798	82.685	130.720	1.00	0.72	C
ATOM	8816	CG	ARG	A1105	116.868	82.432	131.800	1.00	0.72	C
ATOM	8817	CD	ARG	A1105	117.052	80.974	132.246	1.00	0.72	C
ATOM	8818	NE	ARG	A1105	115.731	80.326	132.491	1.00	0.72	N
ATOM	8819	CZ	ARG	A1105	114.993	80.385	133.605	1.00	0.72	C
ATOM	8820	NH1	ARG	A1105	115.316	81.163	134.635	1.00	0.72	N
ATOM	8821	NH2	ARG	A1105	113.912	79.617	133.697	1.00	0.72	N
ATOM	8822	N	LEU	A1106	114.580	82.530	127.455	1.00	0.79	N
ATOM	8823	CA	LEU	A1106	113.415	82.405	126.597	1.00	0.79	C
ATOM	8824	C	LEU	A1106	113.642	81.397	125.484	1.00	0.79	C
ATOM	8825	O	LEU	A1106	112.690	80.884	124.897	1.00	0.79	O
ATOM	8826	CB	LEU	A1106	113.068	83.773	125.971	1.00	0.79	C
ATOM	8827	CG	LEU	A1106	112.308	84.719	126.919	1.00	0.79	C
ATOM	8828	CD1	LEU	A1106	112.208	86.091	126.252	1.00	0.79	C
ATOM	8829	CD2	LEU	A1106	110.903	84.188	127.247	1.00	0.79	C

ATOM	8830	N	LYS	A1107	114.911	81.038	125.190	1.00	0.75	N
ATOM	8831	CA	LYS	A1107	115.242	79.996	124.235	1.00	0.75	C
ATOM	8832	C	LYS	A1107	114.778	78.625	124.707	1.00	0.75	C
ATOM	8833	O	LYS	A1107	114.236	77.823	123.943	1.00	0.75	O
ATOM	8834	CB	LYS	A1107	116.762	79.976	123.943	1.00	0.75	C
ATOM	8835	CG	LYS	A1107	117.122	79.056	122.765	1.00	0.75	C
ATOM	8836	CD	LYS	A1107	118.617	79.062	122.420	1.00	0.75	C
ATOM	8837	CE	LYS	A1107	118.961	78.119	121.260	1.00	0.75	C
ATOM	8838	NZ	LYS	A1107	120.409	78.111	121.038	1.00	0.75	N
ATOM	8839	N	GLU	A1108	114.949	78.363	126.015	1.00	0.68	N
ATOM	8840	CA	GLU	A1108	114.340	77.248	126.697	1.00	0.68	C
ATOM	8841	C	GLU	A1108	113.146	77.739	127.492	1.00	0.68	C
ATOM	8842	O	GLU	A1108	113.178	78.726	128.217	1.00	0.68	O
ATOM	8843	CB	GLU	A1108	115.354	76.462	127.573	1.00	0.68	C
ATOM	8844	CG	GLU	A1108	116.171	77.270	128.628	1.00	0.68	C
ATOM	8845	CD	GLU	A1108	115.527	77.420	130.014	1.00	0.68	C
ATOM	8846	OE1	GLU	A1108	115.501	78.554	130.564	1.00	0.68	O
ATOM	8847	OE2	GLU	A1108	115.124	76.382	130.593	1.00	0.68	O
ATOM	8848	N	GLY	A1109	111.996	77.072	127.310	1.00	0.73	N
ATOM	8849	CA	GLY	A1109	110.822	77.256	128.133	1.00	0.73	C
ATOM	8850	C	GLY	A1109	110.782	76.212	129.203	1.00	0.73	C
ATOM	8851	O	GLY	A1109	111.426	75.172	129.117	1.00	0.73	O
ATOM	8852	N	ILE	A1110	109.934	76.439	130.220	1.00	0.55	N
ATOM	8853	CA	ILE	A1110	110.000	75.805	131.533	1.00	0.55	C
ATOM	8854	C	ILE	A1110	109.860	74.282	131.585	1.00	0.55	C
ATOM	8855	O	ILE	A1110	110.168	73.641	132.582	1.00	0.55	O
ATOM	8856	CB	ILE	A1110	108.961	76.486	132.427	1.00	0.55	C
ATOM	8857	CG1	ILE	A1110	109.248	76.339	133.937	1.00	0.55	C
ATOM	8858	CG2	ILE	A1110	107.527	76.019	132.073	1.00	0.55	C
ATOM	8859	CD1	ILE	A1110	110.533	77.034	134.409	1.00	0.55	C
ATOM	8860	N	ALA	A1111	109.413	73.649	130.490	1.00	0.55	N
ATOM	8861	CA	ALA	A1111	109.340	72.210	130.386	1.00	0.55	C
ATOM	8862	C	ALA	A1111	109.744	71.769	128.984	1.00	0.55	C
ATOM	8863	O	ALA	A1111	109.090	70.940	128.356	1.00	0.55	O
ATOM	8864	CB	ALA	A1111	107.920	71.724	130.740	1.00	0.55	C
ATOM	8865	N	GLY	A1112	110.839	72.343	128.435	1.00	0.60	N
ATOM	8866	CA	GLY	A1112	111.434	71.874	127.180	1.00	0.60	C
ATOM	8867	C	GLY	A1112	110.786	72.368	125.911	1.00	0.60	C
ATOM	8868	O	GLY	A1112	111.119	71.927	124.817	1.00	0.60	O
ATOM	8869	N	ARG	A1113	109.840	73.315	126.020	1.00	0.62	N
ATOM	8870	CA	ARG	A1113	109.286	74.039	124.885	1.00	0.62	C
ATOM	8871	C	ARG	A1113	110.118	75.293	124.618	1.00	0.62	C
ATOM	8872	O	ARG	A1113	111.114	75.532	125.288	1.00	0.62	O
ATOM	8873	CB	ARG	A1113	107.788	74.399	125.088	1.00	0.62	C
ATOM	8874	CG	ARG	A1113	106.883	73.154	125.228	1.00	0.62	C
ATOM	8875	CD	ARG	A1113	105.373	73.449	125.194	1.00	0.62	C
ATOM	8876	NE	ARG	A1113	105.022	73.907	123.804	1.00	0.62	N
ATOM	8877	CZ	ARG	A1113	103.943	74.641	123.500	1.00	0.62	C
ATOM	8878	NH1	ARG	A1113	103.006	74.956	124.382	1.00	0.62	N
ATOM	8879	NH2	ARG	A1113	103.749	75.121	122.275	1.00	0.62	N
ATOM	8880	N	THR	A1114	109.747	76.129	123.628	1.00	0.73	N
ATOM	8881	CA	THR	A1114	110.414	77.409	123.369	1.00	0.73	C
ATOM	8882	C	THR	A1114	109.348	78.471	123.286	1.00	0.73	C
ATOM	8883	O	THR	A1114	108.362	78.298	122.570	1.00	0.73	O
ATOM	8884	CB	THR	A1114	111.208	77.442	122.068	1.00	0.73	C
ATOM	8885	OG1	THR	A1114	112.302	76.546	122.155	1.00	0.73	O
ATOM	8886	CG2	THR	A1114	111.828	78.814	121.763	1.00	0.73	C
ATOM	8887	N	ILE	A1115	109.494	79.599	124.015	1.00	0.76	N
ATOM	8888	CA	ILE	A1115	108.603	80.746	123.877	1.00	0.76	C
ATOM	8889	C	ILE	A1115	109.281	81.712	122.919	1.00	0.76	C
ATOM	8890	O	ILE	A1115	110.497	81.865	122.934	1.00	0.76	O
ATOM	8891	CB	ILE	A1115	108.277	81.459	125.196	1.00	0.76	C
ATOM	8892	CG1	ILE	A1115	107.802	80.471	126.288	1.00	0.76	C
ATOM	8893	CG2	ILE	A1115	107.194	82.545	124.976	1.00	0.76	C
ATOM	8894	CD1	ILE	A1115	108.923	80.069	127.252	1.00	0.76	C

ATOM	8895	N	LYS	A1116	108.535	82.380	122.019	1.00	0.74	N
ATOM	8896	CA	LYS	A1116	109.149	83.255	121.039	1.00	0.74	C
ATOM	8897	C	LYS	A1116	108.894	84.709	121.380	1.00	0.74	C
ATOM	8898	O	LYS	A1116	107.756	85.156	121.527	1.00	0.74	O
ATOM	8899	CB	LYS	A1116	108.642	82.952	119.615	1.00	0.74	C
ATOM	8900	CG	LYS	A1116	109.007	81.532	119.158	1.00	0.74	C
ATOM	8901	CD	LYS	A1116	108.561	81.275	117.713	1.00	0.74	C
ATOM	8902	CE	LYS	A1116	108.915	79.872	117.219	1.00	0.74	C
ATOM	8903	NZ	LYS	A1116	108.452	79.709	115.824	1.00	0.74	N
ATOM	8904	N	ALA	A1117	109.986	85.477	121.531	1.00	0.81	N
ATOM	8905	CA	ALA	A1117	109.925	86.857	121.922	1.00	0.81	C
ATOM	8906	C	ALA	A1117	111.237	87.534	121.573	1.00	0.81	C
ATOM	8907	O	ALA	A1117	112.243	86.870	121.333	1.00	0.81	O
ATOM	8908	CB	ALA	A1117	109.668	86.951	123.439	1.00	0.81	C
ATOM	8909	N	ALA	A1118	111.244	88.879	121.549	1.00	0.83	N
ATOM	8910	CA	ALA	A1118	112.428	89.687	121.333	1.00	0.83	C
ATOM	8911	C	ALA	A1118	112.652	90.552	122.563	1.00	0.83	C
ATOM	8912	O	ALA	A1118	111.703	90.927	123.254	1.00	0.83	O
ATOM	8913	CB	ALA	A1118	112.293	90.583	120.085	1.00	0.83	C
ATOM	8914	N	ILE	A1119	113.930	90.843	122.880	1.00	0.84	N
ATOM	8915	CA	ILE	A1119	114.324	91.611	124.050	1.00	0.84	C
ATOM	8916	C	ILE	A1119	115.220	92.746	123.604	1.00	0.84	C
ATOM	8917	O	ILE	A1119	116.341	92.520	123.141	1.00	0.84	O
ATOM	8918	CB	ILE	A1119	115.101	90.769	125.069	1.00	0.84	C
ATOM	8919	CG1	ILE	A1119	114.251	89.582	125.570	1.00	0.84	C
ATOM	8920	CG2	ILE	A1119	115.552	91.643	126.271	1.00	0.84	C
ATOM	8921	CD1	ILE	A1119	115.094	88.520	126.267	1.00	0.84	C
ATOM	8922	N	ASP	A1120	114.763	93.995	123.807	1.00	0.85	N
ATOM	8923	CA	ASP	A1120	115.577	95.171	123.614	1.00	0.85	C
ATOM	8924	C	ASP	A1120	115.779	95.831	124.970	1.00	0.85	C
ATOM	8925	O	ASP	A1120	114.967	95.752	125.894	1.00	0.85	O
ATOM	8926	CB	ASP	A1120	115.013	96.131	122.536	1.00	0.85	C
ATOM	8927	CG	ASP	A1120	115.505	95.663	121.185	1.00	0.85	C
ATOM	8928	OD1	ASP	A1120	115.088	94.581	120.703	1.00	0.85	O
ATOM	8929	OD2	ASP	A1120	116.365	96.348	120.570	1.00	0.85	O
ATOM	8930	N	VAL	A1121	116.969	96.430	125.126	1.00	0.89	N
ATOM	8931	CA	VAL	A1121	117.515	96.927	126.368	1.00	0.89	C
ATOM	8932	C	VAL	A1121	117.988	98.330	126.085	1.00	0.89	C
ATOM	8933	O	VAL	A1121	118.539	98.608	125.024	1.00	0.89	O
ATOM	8934	CB	VAL	A1121	118.664	96.026	126.840	1.00	0.89	C
ATOM	8935	CG1	VAL	A1121	119.756	96.747	127.657	1.00	0.89	C
ATOM	8936	CG2	VAL	A1121	118.062	94.880	127.675	1.00	0.89	C
ATOM	8937	N	LEU	A1122	117.760	99.257	127.029	1.00	0.88	N
ATOM	8938	CA	LEU	A1122	118.159	100.635	126.882	1.00	0.88	C
ATOM	8939	C	LEU	A1122	118.626	101.146	128.227	1.00	0.88	C
ATOM	8940	O	LEU	A1122	118.068	100.791	129.265	1.00	0.88	O
ATOM	8941	CB	LEU	A1122	116.944	101.452	126.399	1.00	0.88	C
ATOM	8942	CG	LEU	A1122	117.159	102.966	126.266	1.00	0.88	C
ATOM	8943	CD1	LEU	A1122	118.266	103.303	125.273	1.00	0.88	C
ATOM	8944	CD2	LEU	A1122	115.881	103.615	125.750	1.00	0.88	C
ATOM	8945	N	GLU	A1123	119.688	101.969	128.248	1.00	0.84	N
ATOM	8946	CA	GLU	A1123	120.325	102.390	129.473	1.00	0.84	C
ATOM	8947	C	GLU	A1123	121.058	103.696	129.258	1.00	0.84	C
ATOM	8948	O	GLU	A1123	121.003	104.291	128.184	1.00	0.84	O
ATOM	8949	CB	GLU	A1123	121.214	101.271	130.075	1.00	0.84	C
ATOM	8950	CG	GLU	A1123	122.179	100.544	129.098	1.00	0.84	C
ATOM	8951	CD	GLU	A1123	123.566	101.167	128.977	1.00	0.84	C
ATOM	8952	OE1	GLU	A1123	124.120	101.570	130.028	1.00	0.84	O
ATOM	8953	OE2	GLU	A1123	124.116	101.146	127.847	1.00	0.84	O
ATOM	8954	N	GLY	A1124	121.641	104.251	130.331	1.00	0.86	N
ATOM	8955	CA	GLY	A1124	122.449	105.458	130.286	1.00	0.86	C
ATOM	8956	C	GLY	A1124	123.273	105.496	131.539	1.00	0.86	C
ATOM	8957	O	GLY	A1124	123.778	104.481	131.999	1.00	0.86	O
ATOM	8958	N	SER	A1125	123.412	106.667	132.188	1.00	0.83	N
ATOM	8959	CA	SER	A1125	124.161	106.752	133.441	1.00	0.83	C

ATOM	8960	C	SER	A1125	123.567	106.007	134.626	1.00	0.83	C
ATOM	8961	O	SER	A1125	124.319	105.451	135.412	1.00	0.83	O
ATOM	8962	CB	SER	A1125	124.489	108.203	133.889	1.00	0.83	C
ATOM	8963	OG	SER	A1125	123.323	109.029	133.983	1.00	0.83	O
ATOM	8964	N	ASP	A1126	122.228	106.000	134.802	1.00	0.75	N
ATOM	8965	CA	ASP	A1126	121.596	105.425	135.982	1.00	0.75	C
ATOM	8966	C	ASP	A1126	120.313	104.691	135.561	1.00	0.75	C
ATOM	8967	O	ASP	A1126	120.274	103.461	135.471	1.00	0.75	O
ATOM	8968	CB	ASP	A1126	121.351	106.578	136.999	1.00	0.75	C
ATOM	8969	CG	ASP	A1126	121.185	106.076	138.425	1.00	0.75	C
ATOM	8970	OD1	ASP	A1126	120.598	104.983	138.614	1.00	0.75	O
ATOM	8971	OD2	ASP	A1126	121.663	106.799	139.336	1.00	0.75	O
ATOM	8972	N	ASP	A1127	119.253	105.451	135.200	1.00	0.79	N
ATOM	8973	CA	ASP	A1127	117.998	104.970	134.640	1.00	0.79	C
ATOM	8974	C	ASP	A1127	118.156	104.013	133.450	1.00	0.79	C
ATOM	8975	O	ASP	A1127	118.987	104.188	132.554	1.00	0.79	O
ATOM	8976	CB	ASP	A1127	117.125	106.187	134.196	1.00	0.79	C
ATOM	8977	CG	ASP	A1127	115.978	106.490	135.150	1.00	0.79	C
ATOM	8978	OD1	ASP	A1127	116.140	106.266	136.372	1.00	0.79	O
ATOM	8979	OD2	ASP	A1127	114.933	106.985	134.651	1.00	0.79	O
ATOM	8980	N	SER	A1128	117.334	102.951	133.415	1.00	0.88	N
ATOM	8981	CA	SER	A1128	117.385	101.963	132.358	1.00	0.88	C
ATOM	8982	C	SER	A1128	116.029	101.325	132.151	1.00	0.88	C
ATOM	8983	O	SER	A1128	115.121	101.438	132.971	1.00	0.88	O
ATOM	8984	CB	SER	A1128	118.481	100.876	132.575	1.00	0.88	C
ATOM	8985	OG	SER	A1128	118.231	100.003	133.679	1.00	0.88	O
ATOM	8986	N	ALA	A1129	115.831	100.657	131.002	1.00	0.91	N
ATOM	8987	CA	ALA	A1129	114.551	100.085	130.665	1.00	0.91	C
ATOM	8988	C	ALA	A1129	114.738	98.793	129.896	1.00	0.91	C
ATOM	8989	O	ALA	A1129	115.684	98.619	129.125	1.00	0.91	O
ATOM	8990	CB	ALA	A1129	113.706	101.080	129.842	1.00	0.91	C
ATOM	8991	N	ILE	A1130	113.824	97.834	130.130	1.00	0.89	N
ATOM	8992	CA	ILE	A1130	113.842	96.522	129.511	1.00	0.89	C
ATOM	8993	C	ILE	A1130	112.493	96.324	128.866	1.00	0.89	C
ATOM	8994	O	ILE	A1130	111.451	96.505	129.497	1.00	0.89	O
ATOM	8995	CB	ILE	A1130	114.136	95.402	130.510	1.00	0.89	C
ATOM	8996	CG1	ILE	A1130	115.503	95.680	131.188	1.00	0.89	C
ATOM	8997	CG2	ILE	A1130	114.093	94.028	129.796	1.00	0.89	C
ATOM	8998	CD1	ILE	A1130	116.010	94.558	132.097	1.00	0.89	C
ATOM	8999	N	MET	A1131	112.490	95.988	127.564	1.00	0.87	N
ATOM	9000	CA	MET	A1131	111.287	95.845	126.778	1.00	0.87	C
ATOM	9001	C	MET	A1131	111.296	94.460	126.158	1.00	0.87	C
ATOM	9002	O	MET	A1131	112.027	94.182	125.209	1.00	0.87	O
ATOM	9003	CB	MET	A1131	111.272	96.940	125.682	1.00	0.87	C
ATOM	9004	CG	MET	A1131	111.257	98.368	126.271	1.00	0.87	C
ATOM	9005	SD	MET	A1131	111.577	99.690	125.066	1.00	0.87	S
ATOM	9006	CE	MET	A1131	113.367	99.401	124.903	1.00	0.87	C
ATOM	9007	N	ILE	A1132	110.471	93.540	126.697	1.00	0.88	N
ATOM	9008	CA	ILE	A1132	110.362	92.179	126.201	1.00	0.88	C
ATOM	9009	C	ILE	A1132	109.017	92.064	125.514	1.00	0.88	C
ATOM	9010	O	ILE	A1132	107.980	92.351	126.103	1.00	0.88	O
ATOM	9011	CB	ILE	A1132	110.466	91.112	127.302	1.00	0.88	C
ATOM	9012	CG1	ILE	A1132	111.732	91.346	128.171	1.00	0.88	C
ATOM	9013	CG2	ILE	A1132	110.449	89.710	126.641	1.00	0.88	C
ATOM	9014	CD1	ILE	A1132	112.044	90.235	129.187	1.00	0.88	C
ATOM	9015	N	SER	A1133	108.981	91.648	124.236	1.00	0.87	N
ATOM	9016	CA	SER	A1133	107.720	91.517	123.509	1.00	0.87	C
ATOM	9017	C	SER	A1133	107.546	90.116	123.001	1.00	0.87	C
ATOM	9018	O	SER	A1133	108.385	89.608	122.262	1.00	0.87	O
ATOM	9019	CB	SER	A1133	107.606	92.424	122.264	1.00	0.87	C
ATOM	9020	OG	SER	A1133	107.501	93.798	122.630	1.00	0.87	O
ATOM	9021	N	LEU	A1134	106.428	89.469	123.377	1.00	0.80	N
ATOM	9022	CA	LEU	A1134	106.140	88.078	123.093	1.00	0.80	C
ATOM	9023	C	LEU	A1134	104.942	87.939	122.182	1.00	0.80	C
ATOM	9024	O	LEU	A1134	104.178	88.880	121.964	1.00	0.80	O

ATOM	9025	CB	LEU	A1134	105.960	87.241	124.400	1.00	0.80	C
ATOM	9026	CG	LEU	A1134	104.861	87.658	125.414	1.00	0.80	C
ATOM	9027	CD1	LEU	A1134	103.435	87.267	125.000	1.00	0.80	C
ATOM	9028	CD2	LEU	A1134	105.142	87.005	126.777	1.00	0.80	C
ATOM	9029	N	LYS	A1135	104.750	86.740	121.607	1.00	0.73	N
ATOM	9030	CA	LYS	A1135	103.527	86.413	120.909	1.00	0.73	C
ATOM	9031	C	LYS	A1135	103.057	85.015	121.310	1.00	0.73	C
ATOM	9032	O	LYS	A1135	103.828	84.068	121.144	1.00	0.73	O
ATOM	9033	CB	LYS	A1135	103.742	86.476	119.391	1.00	0.73	C
ATOM	9034	CG	LYS	A1135	102.441	86.368	118.590	1.00	0.73	C
ATOM	9035	CD	LYS	A1135	102.708	86.680	117.120	1.00	0.73	C
ATOM	9036	CE	LYS	A1135	101.461	86.638	116.250	1.00	0.73	C
ATOM	9037	NZ	LYS	A1135	101.844	87.123	114.918	1.00	0.73	N
ATOM	9038	N	PRO	A1136	101.852	84.811	121.838	1.00	0.69	N
ATOM	9039	CA	PRO	A1136	101.349	83.480	122.153	1.00	0.69	C
ATOM	9040	C	PRO	A1136	100.337	83.059	121.097	1.00	0.69	C
ATOM	9041	O	PRO	A1136	99.946	83.880	120.269	1.00	0.69	O
ATOM	9042	CB	PRO	A1136	100.686	83.708	123.520	1.00	0.69	C
ATOM	9043	CG	PRO	A1136	100.161	85.152	123.480	1.00	0.69	C
ATOM	9044	CD	PRO	A1136	101.029	85.864	122.441	1.00	0.69	C
ATOM	9045	N	ALA	A1137	99.917	81.775	121.080	1.00	0.66	N
ATOM	9046	CA	ALA	A1137	98.940	81.300	120.121	1.00	0.66	C
ATOM	9047	C	ALA	A1137	97.681	80.788	120.802	1.00	0.66	C
ATOM	9048	O	ALA	A1137	96.578	81.094	120.356	1.00	0.66	O
ATOM	9049	CB	ALA	A1137	99.567	80.179	119.272	1.00	0.66	C
ATOM	9050	N	SER	A1138	97.789	80.036	121.921	1.00	0.63	N
ATOM	9051	CA	SER	A1138	96.619	79.728	122.743	1.00	0.63	C
ATOM	9052	C	SER	A1138	96.429	80.681	123.915	1.00	0.63	C
ATOM	9053	O	SER	A1138	97.287	81.491	124.273	1.00	0.63	O
ATOM	9054	CB	SER	A1138	96.505	78.244	123.212	1.00	0.63	C
ATOM	9055	OG	SER	A1138	97.275	77.925	124.373	1.00	0.63	O
ATOM	9056	N	ASP	A1139	95.252	80.575	124.553	1.00	0.54	N
ATOM	9057	CA	ASP	A1139	94.866	81.204	125.795	1.00	0.54	C
ATOM	9058	C	ASP	A1139	95.749	80.797	126.972	1.00	0.54	C
ATOM	9059	O	ASP	A1139	96.335	81.627	127.666	1.00	0.54	O
ATOM	9060	CB	ASP	A1139	93.368	80.832	126.059	1.00	0.54	C
ATOM	9061	CG	ASP	A1139	92.972	79.378	125.759	1.00	0.54	C
ATOM	9062	OD1	ASP	A1139	93.866	78.511	125.560	1.00	0.54	O
ATOM	9063	OD2	ASP	A1139	91.744	79.153	125.654	1.00	0.54	O
ATOM	9064	N	ASN	A1140	95.925	79.484	127.168	1.00	0.64	N
ATOM	9065	CA	ASN	A1140	96.739	78.915	128.227	1.00	0.64	C
ATOM	9066	C	ASN	A1140	98.228	79.186	128.031	1.00	0.64	C
ATOM	9067	O	ASN	A1140	98.966	79.435	128.983	1.00	0.64	O
ATOM	9068	CB	ASN	A1140	96.458	77.401	128.393	1.00	0.64	C
ATOM	9069	CG	ASN	A1140	95.017	77.207	128.867	1.00	0.64	C
ATOM	9070	OD1	ASN	A1140	94.314	78.138	129.251	1.00	0.64	O
ATOM	9071	ND2	ASN	A1140	94.553	75.936	128.862	1.00	0.64	N
ATOM	9072	N	GLU	A1141	98.719	79.187	126.771	1.00	0.66	N
ATOM	9073	CA	GLU	A1141	100.080	79.588	126.442	1.00	0.66	C
ATOM	9074	C	GLU	A1141	100.382	81.040	126.790	1.00	0.66	C
ATOM	9075	O	GLU	A1141	101.470	81.348	127.277	1.00	0.66	O
ATOM	9076	CB	GLU	A1141	100.414	79.342	124.953	1.00	0.66	C
ATOM	9077	CG	GLU	A1141	100.553	77.840	124.603	1.00	0.66	C
ATOM	9078	CD	GLU	A1141	100.841	77.614	123.124	1.00	0.66	C
ATOM	9079	OE1	GLU	A1141	101.569	76.618	122.841	1.00	0.66	O
ATOM	9080	OE2	GLU	A1141	100.362	78.412	122.280	1.00	0.66	O
ATOM	9081	N	GLU	A1142	99.416	81.967	126.589	1.00	0.67	N
ATOM	9082	CA	GLU	A1142	99.527	83.354	127.028	1.00	0.67	C
ATOM	9083	C	GLU	A1142	99.700	83.482	128.535	1.00	0.67	C
ATOM	9084	O	GLU	A1142	100.622	84.149	129.010	1.00	0.67	O
ATOM	9085	CB	GLU	A1142	98.284	84.165	126.563	1.00	0.67	C
ATOM	9086	CG	GLU	A1142	98.371	85.709	126.753	1.00	0.67	C
ATOM	9087	CD	GLU	A1142	97.651	86.298	127.965	1.00	0.67	C
ATOM	9088	OE1	GLU	A1142	97.219	85.571	128.879	1.00	0.67	O
ATOM	9089	OE2	GLU	A1142	97.543	87.555	128.004	1.00	0.67	O

ATOM	9090	N	ALA	A1143	98.871	82.757	129.313	1.00	0.73	N
ATOM	9091	CA	ALA	A1143	98.928	82.735	130.759	1.00	0.73	C
ATOM	9092	C	ALA	A1143	100.232	82.181	131.331	1.00	0.73	C
ATOM	9093	O	ALA	A1143	100.846	82.764	132.227	1.00	0.73	O
ATOM	9094	CB	ALA	A1143	97.726	81.934	131.298	1.00	0.73	C
ATOM	9095	N	MET	A1144	100.727	81.053	130.774	1.00	0.68	N
ATOM	9096	CA	MET	A1144	102.023	80.498	131.128	1.00	0.68	C
ATOM	9097	C	MET	A1144	103.178	81.431	130.790	1.00	0.68	C
ATOM	9098	O	MET	A1144	104.052	81.684	131.617	1.00	0.68	O
ATOM	9099	CB	MET	A1144	102.271	79.154	130.394	1.00	0.68	C
ATOM	9100	CG	MET	A1144	101.347	78.008	130.850	1.00	0.68	C
ATOM	9101	SD	MET	A1144	101.518	76.483	129.868	1.00	0.68	S
ATOM	9102	CE	MET	A1144	103.166	75.997	130.457	1.00	0.68	C
ATOM	9103	N	ALA	A1145	103.190	82.008	129.570	1.00	0.82	N
ATOM	9104	CA	ALA	A1145	104.231	82.911	129.125	1.00	0.82	C
ATOM	9105	C	ALA	A1145	104.314	84.201	129.935	1.00	0.82	C
ATOM	9106	O	ALA	A1145	105.404	84.641	130.297	1.00	0.82	O
ATOM	9107	CB	ALA	A1145	104.046	83.218	127.626	1.00	0.82	C
ATOM	9108	N	ARG	A1146	103.162	84.816	130.280	1.00	0.76	N
ATOM	9109	CA	ARG	A1146	103.104	85.981	131.149	1.00	0.76	C
ATOM	9110	C	ARG	A1146	103.606	85.735	132.568	1.00	0.76	C
ATOM	9111	O	ARG	A1146	104.284	86.586	133.143	1.00	0.76	O
ATOM	9112	CB	ARG	A1146	101.692	86.626	131.167	1.00	0.76	C
ATOM	9113	CG	ARG	A1146	101.373	87.356	129.843	1.00	0.76	C
ATOM	9114	CD	ARG	A1146	100.661	88.709	129.998	1.00	0.76	C
ATOM	9115	NE	ARG	A1146	99.195	88.449	130.086	1.00	0.76	N
ATOM	9116	CZ	ARG	A1146	98.273	89.315	130.519	1.00	0.76	C
ATOM	9117	NH1	ARG	A1146	98.565	90.355	131.288	1.00	0.76	N
ATOM	9118	NH2	ARG	A1146	97.022	89.110	130.116	1.00	0.76	N
ATOM	9119	N	PHE	A1147	103.316	84.563	133.172	1.00	0.76	N
ATOM	9120	CA	PHE	A1147	103.891	84.184	134.458	1.00	0.76	C
ATOM	9121	C	PHE	A1147	105.417	84.011	134.395	1.00	0.76	C
ATOM	9122	O	PHE	A1147	106.157	84.492	135.256	1.00	0.76	O
ATOM	9123	CB	PHE	A1147	103.203	82.892	134.985	1.00	0.76	C
ATOM	9124	CG	PHE	A1147	103.345	82.755	136.484	1.00	0.76	C
ATOM	9125	CD1	PHE	A1147	104.520	82.236	137.058	1.00	0.76	C
ATOM	9126	CD2	PHE	A1147	102.299	83.154	137.335	1.00	0.76	C
ATOM	9127	CE1	PHE	A1147	104.647	82.116	138.449	1.00	0.76	C
ATOM	9128	CE2	PHE	A1147	102.421	83.032	138.726	1.00	0.76	C
ATOM	9129	CZ	PHE	A1147	103.595	82.509	139.283	1.00	0.76	C
ATOM	9130	N	LEU	A1148	105.933	83.345	133.337	1.00	0.82	N
ATOM	9131	CA	LEU	A1148	107.362	83.163	133.124	1.00	0.82	C
ATOM	9132	C	LEU	A1148	108.132	84.468	132.930	1.00	0.82	C
ATOM	9133	O	LEU	A1148	109.171	84.684	133.556	1.00	0.82	O
ATOM	9134	CB	LEU	A1148	107.627	82.250	131.894	1.00	0.82	C
ATOM	9135	CG	LEU	A1148	107.158	80.787	132.054	1.00	0.82	C
ATOM	9136	CD1	LEU	A1148	107.247	80.041	130.713	1.00	0.82	C
ATOM	9137	CD2	LEU	A1148	107.944	80.037	133.136	1.00	0.82	C
ATOM	9138	N	THR	A1149	107.629	85.399	132.089	1.00	0.87	N
ATOM	9139	CA	THR	A1149	108.254	86.708	131.883	1.00	0.87	C
ATOM	9140	C	THR	A1149	108.204	87.605	133.104	1.00	0.87	C
ATOM	9141	O	THR	A1149	109.147	88.350	133.368	1.00	0.87	O
ATOM	9142	CB	THR	A1149	107.779	87.490	130.662	1.00	0.87	C
ATOM	9143	OG1	THR	A1149	106.381	87.733	130.679	1.00	0.87	O
ATOM	9144	CG2	THR	A1149	108.092	86.679	129.398	1.00	0.87	C
ATOM	9145	N	ALA	A1150	107.121	87.546	133.907	1.00	0.91	N
ATOM	9146	CA	ALA	A1150	107.026	88.253	135.172	1.00	0.91	C
ATOM	9147	C	ALA	A1150	108.079	87.844	136.202	1.00	0.91	C
ATOM	9148	O	ALA	A1150	108.749	88.697	136.786	1.00	0.91	O
ATOM	9149	CB	ALA	A1150	105.615	88.058	135.762	1.00	0.91	C
ATOM	9150	N	ASN	A1151	108.304	86.524	136.400	1.00	0.84	N
ATOM	9151	CA	ASN	A1151	109.366	86.014	137.259	1.00	0.84	C
ATOM	9152	C	ASN	A1151	110.760	86.375	136.731	1.00	0.84	C
ATOM	9153	O	ASN	A1151	111.657	86.765	137.479	1.00	0.84	O
ATOM	9154	CB	ASN	A1151	109.211	84.477	137.458	1.00	0.84	C



ATOM	9155	CG	ASN	A1151	110.061	83.993	138.634	1.00	0.84	C
ATOM	9156	OD1	ASN	A1151	110.018	84.568	139.721	1.00	0.84	O
ATOM	9157	ND2	ASN	A1151	110.855	82.917	138.436	1.00	0.84	N
ATOM	9158	N	LEU	A1152	110.956	86.291	135.396	1.00	0.87	N
ATOM	9159	CA	LEU	A1152	112.196	86.655	134.729	1.00	0.87	C
ATOM	9160	C	LEU	A1152	112.591	88.118	134.936	1.00	0.87	C
ATOM	9161	O	LEU	A1152	113.728	88.423	135.295	1.00	0.87	O
ATOM	9162	CB	LEU	A1152	112.051	86.362	133.212	1.00	0.87	C
ATOM	9163	CG	LEU	A1152	113.353	86.412	132.390	1.00	0.87	C
ATOM	9164	CD1	LEU	A1152	114.294	85.257	132.763	1.00	0.87	C
ATOM	9165	CD2	LEU	A1152	113.046	86.373	130.884	1.00	0.87	C
ATOM	9166	N	LEU	A1153	111.635	89.058	134.776	1.00	0.88	N
ATOM	9167	CA	LEU	A1153	111.828	90.469	135.081	1.00	0.88	C
ATOM	9168	C	LEU	A1153	112.019	90.798	136.559	1.00	0.88	C
ATOM	9169	O	LEU	A1153	112.866	91.618	136.911	1.00	0.88	O
ATOM	9170	CB	LEU	A1153	110.690	91.336	134.485	1.00	0.88	C
ATOM	9171	CG	LEU	A1153	111.043	91.965	133.120	1.00	0.88	C
ATOM	9172	CD1	LEU	A1153	109.809	92.657	132.528	1.00	0.88	C
ATOM	9173	CD2	LEU	A1153	112.207	92.964	133.236	1.00	0.88	C
ATOM	9174	N	TYR	A1154	111.263	90.158	137.480	1.00	0.86	N
ATOM	9175	CA	TYR	A1154	111.380	90.365	138.923	1.00	0.86	C
ATOM	9176	C	TYR	A1154	112.784	90.036	139.453	1.00	0.86	C
ATOM	9177	O	TYR	A1154	113.323	90.705	140.337	1.00	0.86	O
ATOM	9178	CB	TYR	A1154	110.278	89.538	139.656	1.00	0.86	C
ATOM	9179	CG	TYR	A1154	110.264	89.777	141.148	1.00	0.86	C
ATOM	9180	CD1	TYR	A1154	110.650	88.758	142.036	1.00	0.86	C
ATOM	9181	CD2	TYR	A1154	109.930	91.040	141.669	1.00	0.86	C
ATOM	9182	CE1	TYR	A1154	110.752	89.012	143.413	1.00	0.86	C
ATOM	9183	CE2	TYR	A1154	110.020	91.290	143.047	1.00	0.86	C
ATOM	9184	CZ	TYR	A1154	110.449	90.283	143.915	1.00	0.86	C
ATOM	9185	OH	TYR	A1154	110.718	90.610	145.261	1.00	0.86	O
ATOM	9186	N	SER	A1155	113.424	89.011	138.855	1.00	0.89	N
ATOM	9187	CA	SER	A1155	114.760	88.518	139.170	1.00	0.89	C
ATOM	9188	C	SER	A1155	115.878	89.568	139.143	1.00	0.89	C
ATOM	9189	O	SER	A1155	116.835	89.478	139.910	1.00	0.89	O
ATOM	9190	CB	SER	A1155	115.113	87.313	138.254	1.00	0.89	C
ATOM	9191	OG	SER	A1155	116.255	86.589	138.719	1.00	0.89	O
ATOM	9192	N	VAL	A1156	115.772	90.651	138.328	1.00	0.88	N
ATOM	9193	CA	VAL	A1156	116.780	91.722	138.225	1.00	0.88	C
ATOM	9194	C	VAL	A1156	117.160	92.324	139.576	1.00	0.88	C
ATOM	9195	O	VAL	A1156	118.324	92.616	139.857	1.00	0.88	O
ATOM	9196	CB	VAL	A1156	116.326	92.872	137.316	1.00	0.88	C
ATOM	9197	CG1	VAL	A1156	117.425	93.952	137.187	1.00	0.88	C
ATOM	9198	CG2	VAL	A1156	116.026	92.329	135.913	1.00	0.88	C
ATOM	9199	N	ARG	A1157	116.172	92.469	140.483	1.00	0.80	N
ATOM	9200	CA	ARG	A1157	116.366	92.992	141.822	1.00	0.80	C
ATOM	9201	C	ARG	A1157	117.349	92.185	142.675	1.00	0.80	C
ATOM	9202	O	ARG	A1157	118.112	92.756	143.455	1.00	0.80	O
ATOM	9203	CB	ARG	A1157	114.999	93.107	142.551	1.00	0.80	C
ATOM	9204	CG	ARG	A1157	115.072	93.884	143.885	1.00	0.80	C
ATOM	9205	CD	ARG	A1157	113.748	93.999	144.666	1.00	0.80	C
ATOM	9206	NE	ARG	A1157	113.277	92.628	145.088	1.00	0.80	N
ATOM	9207	CZ	ARG	A1157	113.814	91.868	146.055	1.00	0.80	C
ATOM	9208	NH1	ARG	A1157	114.886	92.242	146.741	1.00	0.80	N
ATOM	9209	NH2	ARG	A1157	113.269	90.687	146.331	1.00	0.80	N
ATOM	9210	N	VAL	A1158	117.361	90.838	142.552	1.00	0.86	N
ATOM	9211	CA	VAL	A1158	118.199	89.983	143.383	1.00	0.86	C
ATOM	9212	C	VAL	A1158	119.510	89.591	142.713	1.00	0.86	C
ATOM	9213	O	VAL	A1158	120.462	89.196	143.390	1.00	0.86	O
ATOM	9214	CB	VAL	A1158	117.474	88.714	143.828	1.00	0.86	C
ATOM	9215	CG1	VAL	A1158	116.196	89.105	144.595	1.00	0.86	C
ATOM	9216	CG2	VAL	A1158	117.129	87.779	142.653	1.00	0.86	C
ATOM	9217	N	ILE	A1159	119.617	89.721	141.371	1.00	0.84	N
ATOM	9218	CA	ILE	A1159	120.868	89.529	140.641	1.00	0.84	C
ATOM	9219	C	ILE	A1159	121.788	90.743	140.771	1.00	0.84	C

ATOM	9220	O	ILE	A1159	122.996	90.602	140.971	1.00	0.84	O
ATOM	9221	CB	ILE	A1159	120.646	89.150	139.173	1.00	0.84	C
ATOM	9222	CG1	ILE	A1159	119.713	87.920	139.012	1.00	0.84	C
ATOM	9223	CG2	ILE	A1159	122.003	88.872	138.482	1.00	0.84	C
ATOM	9224	CD1	ILE	A1159	120.282	86.602	139.549	1.00	0.84	C
ATOM	9225	N	ASN	A1160	121.225	91.978	140.732	1.00	0.84	N
ATOM	9226	CA	ASN	A1160	121.958	93.247	140.758	1.00	0.84	C
ATOM	9227	C	ASN	A1160	123.080	93.407	141.803	1.00	0.84	C
ATOM	9228	O	ASN	A1160	124.145	93.902	141.413	1.00	0.84	O
ATOM	9229	CB	ASN	A1160	120.957	94.449	140.869	1.00	0.84	C
ATOM	9230	CG	ASN	A1160	120.758	95.179	139.543	1.00	0.84	C
ATOM	9231	OD1	ASN	A1160	121.290	94.823	138.493	1.00	0.84	O
ATOM	9232	ND2	ASN	A1160	119.970	96.279	139.582	1.00	0.84	N
ATOM	9233	N	PRO	A1161	122.977	93.016	143.083	1.00	0.88	N
ATOM	9234	CA	PRO	A1161	124.064	93.153	144.050	1.00	0.88	C
ATOM	9235	C	PRO	A1161	125.374	92.475	143.681	1.00	0.88	C
ATOM	9236	O	PRO	A1161	126.414	92.897	144.173	1.00	0.88	O
ATOM	9237	CB	PRO	A1161	123.476	92.595	145.356	1.00	0.88	C
ATOM	9238	CG	PRO	A1161	121.978	92.870	145.225	1.00	0.88	C
ATOM	9239	CD	PRO	A1161	121.729	92.614	143.742	1.00	0.88	C
ATOM	9240	N	LEU	A1162	125.385	91.433	142.819	1.00	0.87	N
ATOM	9241	CA	LEU	A1162	126.600	90.737	142.411	1.00	0.87	C
ATOM	9242	C	LEU	A1162	127.571	91.610	141.622	1.00	0.87	C
ATOM	9243	O	LEU	A1162	128.785	91.402	141.643	1.00	0.87	O
ATOM	9244	CB	LEU	A1162	126.259	89.487	141.563	1.00	0.87	C
ATOM	9245	CG	LEU	A1162	125.523	88.371	142.334	1.00	0.87	C
ATOM	9246	CD1	LEU	A1162	125.110	87.259	141.361	1.00	0.87	C
ATOM	9247	CD2	LEU	A1162	126.385	87.783	143.463	1.00	0.87	C
ATOM	9248	N	PHE	A1163	127.048	92.644	140.937	1.00	0.87	N
ATOM	9249	CA	PHE	A1163	127.843	93.609	140.204	1.00	0.87	C
ATOM	9250	C	PHE	A1163	128.133	94.834	141.065	1.00	0.87	C
ATOM	9251	O	PHE	A1163	128.797	95.784	140.640	1.00	0.87	O
ATOM	9252	CB	PHE	A1163	127.061	94.080	138.949	1.00	0.87	C
ATOM	9253	CG	PHE	A1163	126.916	92.950	137.969	1.00	0.87	C
ATOM	9254	CD1	PHE	A1163	128.025	92.542	137.211	1.00	0.87	C
ATOM	9255	CD2	PHE	A1163	125.680	92.309	137.768	1.00	0.87	C
ATOM	9256	CE1	PHE	A1163	127.899	91.531	136.253	1.00	0.87	C
ATOM	9257	CE2	PHE	A1163	125.555	91.284	136.819	1.00	0.87	C
ATOM	9258	CZ	PHE	A1163	126.666	90.900	136.058	1.00	0.87	C
ATOM	9259	N	GLY	A1164	127.648	94.856	142.326	1.00	0.85	N
ATOM	9260	CA	GLY	A1164	127.754	96.004	143.218	1.00	0.85	C
ATOM	9261	C	GLY	A1164	126.890	97.150	142.763	1.00	0.85	C
ATOM	9262	O	GLY	A1164	127.342	98.292	142.714	1.00	0.85	O
ATOM	9263	N	ILE	A1165	125.650	96.842	142.341	1.00	0.84	N
ATOM	9264	CA	ILE	A1165	124.639	97.801	141.931	1.00	0.84	C
ATOM	9265	C	ILE	A1165	123.420	97.519	142.786	1.00	0.84	C
ATOM	9266	O	ILE	A1165	122.974	96.383	142.915	1.00	0.84	O
ATOM	9267	CB	ILE	A1165	124.290	97.698	140.438	1.00	0.84	C
ATOM	9268	CG1	ILE	A1165	125.496	98.180	139.590	1.00	0.84	C
ATOM	9269	CG2	ILE	A1165	123.004	98.497	140.098	1.00	0.84	C
ATOM	9270	CD1	ILE	A1165	125.290	98.055	138.074	1.00	0.84	C
ATOM	9271	N	TYR	A1166	122.835	98.551	143.421	1.00	0.84	N
ATOM	9272	CA	TYR	A1166	121.712	98.360	144.319	1.00	0.84	C
ATOM	9273	C	TYR	A1166	120.477	99.008	143.723	1.00	0.84	C
ATOM	9274	O	TYR	A1166	120.386	100.228	143.656	1.00	0.84	O
ATOM	9275	CB	TYR	A1166	121.997	98.981	145.716	1.00	0.84	C
ATOM	9276	CG	TYR	A1166	123.294	98.430	146.247	1.00	0.84	C
ATOM	9277	CD1	TYR	A1166	123.393	97.074	146.602	1.00	0.84	C
ATOM	9278	CD2	TYR	A1166	124.447	99.236	146.298	1.00	0.84	C
ATOM	9279	CE1	TYR	A1166	124.630	96.524	146.963	1.00	0.84	C
ATOM	9280	CE2	TYR	A1166	125.683	98.688	146.671	1.00	0.84	C
ATOM	9281	CZ	TYR	A1166	125.770	97.329	146.987	1.00	0.84	C
ATOM	9282	OH	TYR	A1166	127.001	96.742	147.312	1.00	0.84	O
ATOM	9283	N	SER	A1167	119.492	98.203	143.268	1.00	0.86	N
ATOM	9284	CA	SER	A1167	118.192	98.684	142.777	1.00	0.86	C

ATOM	9285	C	SER	A1167	117.396	99.390	143.871	1.00	0.86	C
ATOM	9286	O	SER	A1167	117.419	98.944	145.020	1.00	0.86	O
ATOM	9287	CB	SER	A1167	117.339	97.504	142.225	1.00	0.86	C
ATOM	9288	OG	SER	A1167	116.327	97.909	141.299	1.00	0.86	O
ATOM	9289	N	SER	A1168	116.681	100.501	143.586	1.00	0.83	N
ATOM	9290	CA	SER	A1168	115.826	101.127	144.595	1.00	0.83	C
ATOM	9291	C	SER	A1168	114.394	100.637	144.598	1.00	0.83	C
ATOM	9292	O	SER	A1168	113.982	99.743	143.861	1.00	0.83	O
ATOM	9293	CB	SER	A1168	115.895	102.687	144.665	1.00	0.83	C
ATOM	9294	OG	SER	A1168	115.004	103.365	143.785	1.00	0.83	O
ATOM	9295	N	GLU	A1169	113.610	101.245	145.498	1.00	0.80	N
ATOM	9296	CA	GLU	A1169	112.196	101.091	145.686	1.00	0.80	C
ATOM	9297	C	GLU	A1169	111.394	102.062	144.824	1.00	0.80	C
ATOM	9298	O	GLU	A1169	110.178	102.159	144.954	1.00	0.80	O
ATOM	9299	CB	GLU	A1169	111.878	101.366	147.185	1.00	0.80	C
ATOM	9300	CG	GLU	A1169	112.253	102.781	147.741	1.00	0.80	C
ATOM	9301	CD	GLU	A1169	113.746	103.030	147.939	1.00	0.80	C
ATOM	9302	OE1	GLU	A1169	114.198	104.205	147.882	1.00	0.80	O
ATOM	9303	OE2	GLU	A1169	114.486	102.021	148.113	1.00	0.80	O
ATOM	9304	N	LYS	A1170	112.034	102.797	143.892	1.00	0.81	N
ATOM	9305	CA	LYS	A1170	111.340	103.739	143.032	1.00	0.81	C
ATOM	9306	C	LYS	A1170	110.991	103.178	141.658	1.00	0.81	C
ATOM	9307	O	LYS	A1170	110.221	103.781	140.912	1.00	0.81	O
ATOM	9308	CB	LYS	A1170	112.229	104.990	142.851	1.00	0.81	C
ATOM	9309	CG	LYS	A1170	112.315	105.833	144.132	1.00	0.81	C
ATOM	9310	CD	LYS	A1170	113.103	107.128	143.904	1.00	0.81	C
ATOM	9311	CE	LYS	A1170	112.877	108.150	145.015	1.00	0.81	C
ATOM	9312	NZ	LYS	A1170	113.498	109.437	144.636	1.00	0.81	N
ATOM	9313	N	SER	A1171	111.509	101.992	141.306	1.00	0.88	N
ATOM	9314	CA	SER	A1171	111.286	101.345	140.019	1.00	0.88	C
ATOM	9315	C	SER	A1171	109.932	100.664	139.886	1.00	0.88	C
ATOM	9316	O	SER	A1171	109.309	100.260	140.869	1.00	0.88	O
ATOM	9317	CB	SER	A1171	112.422	100.356	139.626	1.00	0.88	C
ATOM	9318	OG	SER	A1171	112.907	99.593	140.734	1.00	0.88	O
ATOM	9319	N	THR	A1172	109.425	100.523	138.633	1.00	0.88	N
ATOM	9320	CA	THR	A1172	108.171	99.812	138.358	1.00	0.88	C
ATOM	9321	C	THR	A1172	108.471	98.585	137.527	1.00	0.88	C
ATOM	9322	O	THR	A1172	109.260	98.610	136.584	1.00	0.88	O
ATOM	9323	CB	THR	A1172	106.996	100.589	137.731	1.00	0.88	C
ATOM	9324	OG1	THR	A1172	107.099	100.847	136.335	1.00	0.88	O
ATOM	9325	CG2	THR	A1172	106.823	101.948	138.415	1.00	0.88	C
ATOM	9326	N	VAL	A1173	107.865	97.444	137.905	1.00	0.89	N
ATOM	9327	CA	VAL	A1173	108.211	96.143	137.367	1.00	0.89	C
ATOM	9328	C	VAL	A1173	106.962	95.502	136.797	1.00	0.89	C
ATOM	9329	O	VAL	A1173	105.927	95.443	137.457	1.00	0.89	O
ATOM	9330	CB	VAL	A1173	108.814	95.228	138.439	1.00	0.89	C
ATOM	9331	CG1	VAL	A1173	109.205	93.857	137.846	1.00	0.89	C
ATOM	9332	CG2	VAL	A1173	110.069	95.904	139.030	1.00	0.89	C
ATOM	9333	N	ASN	A1174	107.041	94.995	135.544	1.00	0.89	N
ATOM	9334	CA	ASN	A1174	105.999	94.205	134.903	1.00	0.89	C
ATOM	9335	C	ASN	A1174	104.798	95.043	134.450	1.00	0.89	C
ATOM	9336	O	ASN	A1174	103.635	94.700	134.660	1.00	0.89	O
ATOM	9337	CB	ASN	A1174	105.634	92.944	135.758	1.00	0.89	C
ATOM	9338	CG	ASN	A1174	105.082	91.754	134.982	1.00	0.89	C
ATOM	9339	OD1	ASN	A1174	104.052	91.164	135.302	1.00	0.89	O
ATOM	9340	ND2	ASN	A1174	105.814	91.319	133.936	1.00	0.89	N
ATOM	9341	N	THR	A1175	105.078	96.170	133.767	1.00	0.89	N
ATOM	9342	CA	THR	A1175	104.072	97.073	133.209	1.00	0.89	C
ATOM	9343	C	THR	A1175	103.825	96.700	131.762	1.00	0.89	C
ATOM	9344	O	THR	A1175	104.758	96.539	130.979	1.00	0.89	O
ATOM	9345	CB	THR	A1175	104.483	98.539	133.280	1.00	0.89	C
ATOM	9346	OG1	THR	A1175	104.565	98.929	134.643	1.00	0.89	O
ATOM	9347	CG2	THR	A1175	103.431	99.453	132.633	1.00	0.89	C
ATOM	9348	N	LEU	A1176	102.550	96.504	131.363	1.00	0.84	N
ATOM	9349	CA	LEU	A1176	102.209	95.929	130.067	1.00	0.84	C

ATOM	9350	C	LEU	A1176	102.546	96.758	128.826	1.00	0.84	C
ATOM	9351	O	LEU	A1176	103.276	96.318	127.946	1.00	0.84	O
ATOM	9352	CB	LEU	A1176	100.687	95.630	130.044	1.00	0.84	C
ATOM	9353	CG	LEU	A1176	100.242	94.563	131.065	1.00	0.84	C
ATOM	9354	CD1	LEU	A1176	98.714	94.552	131.216	1.00	0.84	C
ATOM	9355	CD2	LEU	A1176	100.746	93.172	130.663	1.00	0.84	C
ATOM	9356	N	PHE	A1177	102.060	98.009	128.718	1.00	0.80	N
ATOM	9357	CA	PHE	A1177	102.184	98.754	127.467	1.00	0.80	C
ATOM	9358	C	PHE	A1177	102.759	100.134	127.694	1.00	0.80	C
ATOM	9359	O	PHE	A1177	102.612	101.021	126.856	1.00	0.80	O
ATOM	9360	CB	PHE	A1177	100.833	98.873	126.709	1.00	0.80	C
ATOM	9361	CG	PHE	A1177	100.395	97.543	126.167	1.00	0.80	C
ATOM	9362	CD1	PHE	A1177	101.063	96.945	125.082	1.00	0.80	C
ATOM	9363	CD2	PHE	A1177	99.272	96.902	126.708	1.00	0.80	C
ATOM	9364	CE1	PHE	A1177	100.602	95.740	124.534	1.00	0.80	C
ATOM	9365	CE2	PHE	A1177	98.812	95.696	126.170	1.00	0.80	C
ATOM	9366	CZ	PHE	A1177	99.474	95.116	125.080	1.00	0.80	C
ATOM	9367	N	CYS	A1178	103.447	100.345	128.833	1.00	0.85	N
ATOM	9368	CA	CYS	A1178	104.077	101.618	129.143	1.00	0.85	C
ATOM	9369	C	CYS	A1178	105.549	101.427	129.424	1.00	0.85	C
ATOM	9370	O	CYS	A1178	105.951	100.413	129.996	1.00	0.85	O
ATOM	9371	CB	CYS	A1178	103.454	102.390	130.339	1.00	0.85	C
ATOM	9372	SG	CYS	A1178	101.643	102.473	130.256	1.00	0.85	S
ATOM	9373	N	VAL	A1179	106.375	102.412	129.020	1.00	0.86	N
ATOM	9374	CA	VAL	A1179	107.792	102.498	129.340	1.00	0.86	C
ATOM	9375	C	VAL	A1179	108.053	103.945	129.717	1.00	0.86	C
ATOM	9376	O	VAL	A1179	107.317	104.847	129.321	1.00	0.86	O
ATOM	9377	CB	VAL	A1179	108.727	102.094	128.184	1.00	0.86	C
ATOM	9378	CG1	VAL	A1179	110.205	101.982	128.624	1.00	0.86	C
ATOM	9379	CG2	VAL	A1179	108.312	100.714	127.659	1.00	0.86	C
ATOM	9380	N	GLU	A1180	109.115	104.179	130.500	1.00	0.81	N
ATOM	9381	CA	GLU	A1180	109.643	105.464	130.879	1.00	0.81	C
ATOM	9382	C	GLU	A1180	111.148	105.255	130.832	1.00	0.81	C
ATOM	9383	O	GLU	A1180	111.613	104.151	131.119	1.00	0.81	O
ATOM	9384	CB	GLU	A1180	109.200	105.811	132.319	1.00	0.81	C
ATOM	9385	CG	GLU	A1180	109.773	107.126	132.887	1.00	0.81	C
ATOM	9386	CD	GLU	A1180	109.404	107.343	134.347	1.00	0.81	C
ATOM	9387	OE1	GLU	A1180	108.786	106.472	135.006	1.00	0.81	O
ATOM	9388	OE2	GLU	A1180	109.757	108.443	134.839	1.00	0.81	O
ATOM	9389	N	TYR	A1181	111.946	106.261	130.414	1.00	0.81	N
ATOM	9390	CA	TYR	A1181	113.396	106.095	130.333	1.00	0.81	C
ATOM	9391	C	TYR	A1181	114.190	107.307	130.848	1.00	0.81	C
ATOM	9392	O	TYR	A1181	115.406	107.248	131.010	1.00	0.81	O
ATOM	9393	CB	TYR	A1181	113.764	105.752	128.844	1.00	0.81	C
ATOM	9394	CG	TYR	A1181	115.253	105.703	128.579	1.00	0.81	C
ATOM	9395	CD1	TYR	A1181	116.087	104.904	129.383	1.00	0.81	C
ATOM	9396	CD2	TYR	A1181	115.840	106.609	127.678	1.00	0.81	C
ATOM	9397	CE1	TYR	A1181	117.479	105.087	129.370	1.00	0.81	C
ATOM	9398	CE2	TYR	A1181	117.230	106.769	127.645	1.00	0.81	C
ATOM	9399	CZ	TYR	A1181	118.039	106.045	128.516	1.00	0.81	C
ATOM	9400	OH	TYR	A1181	119.398	106.407	128.558	1.00	0.81	O
ATOM	9401	N	ASN	A1182	113.556	108.457	131.126	1.00	0.75	N
ATOM	9402	CA	ASN	A1182	114.334	109.610	131.546	1.00	0.75	C
ATOM	9403	C	ASN	A1182	113.365	110.671	132.025	1.00	0.75	C
ATOM	9404	O	ASN	A1182	113.401	111.110	133.170	1.00	0.75	O
ATOM	9405	CB	ASN	A1182	115.161	110.141	130.331	1.00	0.75	C
ATOM	9406	CG	ASN	A1182	116.464	110.831	130.709	1.00	0.75	C
ATOM	9407	OD1	ASN	A1182	116.468	112.020	131.016	1.00	0.75	O
ATOM	9408	ND2	ASN	A1182	117.601	110.117	130.544	1.00	0.75	N
ATOM	9409	N	SER	A1183	112.413	111.065	131.157	1.00	0.73	N
ATOM	9410	CA	SER	A1183	111.261	111.844	131.590	1.00	0.73	C
ATOM	9411	C	SER	A1183	110.143	111.798	130.590	1.00	0.73	C
ATOM	9412	O	SER	A1183	109.111	112.426	130.780	1.00	0.73	O
ATOM	9413	CB	SER	A1183	111.543	113.359	131.777	1.00	0.73	C
ATOM	9414	OG	SER	A1183	112.303	113.607	132.967	1.00	0.73	O

ATOM	9415	N	GLU	A1184	110.291	111.056	129.489	1.00	0.74	N
ATOM	9416	CA	GLU	A1184	109.228	110.818	128.545	1.00	0.74	C
ATOM	9417	C	GLU	A1184	108.639	109.441	128.751	1.00	0.74	C
ATOM	9418	O	GLU	A1184	109.339	108.473	129.052	1.00	0.74	O
ATOM	9419	CB	GLU	A1184	109.703	110.984	127.080	1.00	0.74	C
ATOM	9420	CG	GLU	A1184	111.015	110.248	126.700	1.00	0.74	C
ATOM	9421	CD	GLU	A1184	112.257	111.005	127.123	1.00	0.74	C
ATOM	9422	OE1	GLU	A1184	112.746	111.875	126.343	1.00	0.74	O
ATOM	9423	OE2	GLU	A1184	112.797	110.731	128.225	1.00	0.74	O
ATOM	9424	N	PHE	A1185	107.306	109.365	128.608	1.00	0.83	N
ATOM	9425	CA	PHE	A1185	106.515	108.202	128.924	1.00	0.83	C
ATOM	9426	C	PHE	A1185	105.823	107.741	127.656	1.00	0.83	C
ATOM	9427	O	PHE	A1185	105.037	108.471	127.048	1.00	0.83	O
ATOM	9428	CB	PHE	A1185	105.403	108.536	129.956	1.00	0.83	C
ATOM	9429	CG	PHE	A1185	105.940	109.116	131.235	1.00	0.83	C
ATOM	9430	CD1	PHE	A1185	106.202	110.493	131.349	1.00	0.83	C
ATOM	9431	CD2	PHE	A1185	106.142	108.295	132.355	1.00	0.83	C
ATOM	9432	CE1	PHE	A1185	106.682	111.034	132.549	1.00	0.83	C
ATOM	9433	CE2	PHE	A1185	106.590	108.837	133.566	1.00	0.83	C
ATOM	9434	CZ	PHE	A1185	106.877	110.204	133.659	1.00	0.83	C
ATOM	9435	N	HIS	A1186	106.102	106.506	127.218	1.00	0.79	N
ATOM	9436	CA	HIS	A1186	105.486	105.919	126.047	1.00	0.79	C
ATOM	9437	C	HIS	A1186	104.287	105.097	126.469	1.00	0.79	C
ATOM	9438	O	HIS	A1186	104.432	103.954	126.889	1.00	0.79	O
ATOM	9439	CB	HIS	A1186	106.470	104.991	125.291	1.00	0.79	C
ATOM	9440	CG	HIS	A1186	107.731	105.683	124.875	1.00	0.79	C
ATOM	9441	ND1	HIS	A1186	108.757	105.837	125.788	1.00	0.79	N
ATOM	9442	CD2	HIS	A1186	108.070	106.250	123.688	1.00	0.79	C
ATOM	9443	CE1	HIS	A1186	109.695	106.497	125.144	1.00	0.79	C
ATOM	9444	NE2	HIS	A1186	109.334	106.771	123.866	1.00	0.79	N
ATOM	9445	N	PHE	A1187	103.069	105.657	126.366	1.00	0.76	N
ATOM	9446	CA	PHE	A1187	101.823	104.989	126.697	1.00	0.76	C
ATOM	9447	C	PHE	A1187	101.239	104.378	125.432	1.00	0.76	C
ATOM	9448	O	PHE	A1187	100.484	105.023	124.707	1.00	0.76	O
ATOM	9449	CB	PHE	A1187	100.773	105.998	127.248	1.00	0.76	C
ATOM	9450	CG	PHE	A1187	101.166	106.574	128.579	1.00	0.76	C
ATOM	9451	CD1	PHE	A1187	100.897	105.862	129.757	1.00	0.76	C
ATOM	9452	CD2	PHE	A1187	101.735	107.855	128.680	1.00	0.76	C
ATOM	9453	CE1	PHE	A1187	101.246	106.384	131.009	1.00	0.76	C
ATOM	9454	CE2	PHE	A1187	102.020	108.410	129.935	1.00	0.76	C
ATOM	9455	CZ	PHE	A1187	101.803	107.664	131.098	1.00	0.76	C
ATOM	9456	N	HIS	A1188	101.561	103.104	125.117	1.00	0.72	N
ATOM	9457	CA	HIS	A1188	101.245	102.495	123.826	1.00	0.72	C
ATOM	9458	C	HIS	A1188	101.719	103.333	122.625	1.00	0.72	C
ATOM	9459	O	HIS	A1188	102.870	103.762	122.580	1.00	0.72	O
ATOM	9460	CB	HIS	A1188	99.763	102.027	123.764	1.00	0.72	C
ATOM	9461	CG	HIS	A1188	99.484	100.989	122.717	1.00	0.72	C
ATOM	9462	ND1	HIS	A1188	98.833	101.362	121.559	1.00	0.72	N
ATOM	9463	CD2	HIS	A1188	99.848	99.680	122.655	1.00	0.72	C
ATOM	9464	CE1	HIS	A1188	98.819	100.273	120.808	1.00	0.72	C
ATOM	9465	NE2	HIS	A1188	99.421	99.229	121.425	1.00	0.72	N
ATOM	9466	N	LYS	A1189	100.870	103.602	121.616	1.00	0.64	N
ATOM	9467	CA	LYS	A1189	101.200	104.521	120.532	1.00	0.64	C
ATOM	9468	C	LYS	A1189	100.904	105.990	120.855	1.00	0.64	C
ATOM	9469	O	LYS	A1189	100.492	106.760	119.990	1.00	0.64	O
ATOM	9470	CB	LYS	A1189	100.457	104.133	119.233	1.00	0.64	C
ATOM	9471	CG	LYS	A1189	100.743	102.695	118.781	1.00	0.64	C
ATOM	9472	CD	LYS	A1189	100.070	102.331	117.450	1.00	0.64	C
ATOM	9473	CE	LYS	A1189	100.684	102.925	116.177	1.00	0.64	C
ATOM	9474	NZ	LYS	A1189	102.043	102.393	115.969	1.00	0.64	N
ATOM	9475	N	HIS	A1190	101.110	106.428	122.111	1.00	0.66	N
ATOM	9476	CA	HIS	A1190	101.002	107.820	122.497	1.00	0.66	C
ATOM	9477	C	HIS	A1190	102.185	108.194	123.377	1.00	0.66	C
ATOM	9478	O	HIS	A1190	102.501	107.519	124.352	1.00	0.66	O
ATOM	9479	CB	HIS	A1190	99.683	108.084	123.259	1.00	0.66	C

ATOM	9480	CG	HIS	A1190	99.433	109.532	123.544	1.00	0.66	C
ATOM	9481	ND1	HIS	A1190	99.195	109.941	124.840	1.00	0.66	N
ATOM	9482	CD2	HIS	A1190	99.403	110.597	122.700	1.00	0.66	C
ATOM	9483	CE1	HIS	A1190	99.031	111.246	124.764	1.00	0.66	C
ATOM	9484	NE2	HIS	A1190	99.145	111.695	123.491	1.00	0.66	N
ATOM	9485	N	LEU	A1191	102.901	109.285	123.048	1.00	0.68	N
ATOM	9486	CA	LEU	A1191	104.083	109.695	123.785	1.00	0.68	C
ATOM	9487	C	LEU	A1191	103.760	110.947	124.582	1.00	0.68	C
ATOM	9488	O	LEU	A1191	103.346	111.968	124.036	1.00	0.68	O
ATOM	9489	CB	LEU	A1191	105.258	109.920	122.794	1.00	0.68	C
ATOM	9490	CG	LEU	A1191	106.678	110.068	123.394	1.00	0.68	C
ATOM	9491	CD1	LEU	A1191	107.731	109.827	122.301	1.00	0.68	C
ATOM	9492	CD2	LEU	A1191	106.955	111.439	124.027	1.00	0.68	C
ATOM	9493	N	VAL	A1192	103.949	110.898	125.917	1.00	0.75	N
ATOM	9494	CA	VAL	A1192	103.686	112.023	126.802	1.00	0.75	C
ATOM	9495	C	VAL	A1192	104.998	112.519	127.389	1.00	0.75	C
ATOM	9496	O	VAL	A1192	105.856	111.752	127.828	1.00	0.75	O
ATOM	9497	CB	VAL	A1192	102.704	111.665	127.917	1.00	0.75	C
ATOM	9498	CG1	VAL	A1192	102.479	112.840	128.892	1.00	0.75	C
ATOM	9499	CG2	VAL	A1192	101.355	111.281	127.280	1.00	0.75	C
ATOM	9500	N	ARG	A1193	105.193	113.852	127.390	1.00	0.69	N
ATOM	9501	CA	ARG	A1193	106.333	114.525	127.973	1.00	0.69	C
ATOM	9502	C	ARG	A1193	105.824	115.485	129.041	1.00	0.69	C
ATOM	9503	O	ARG	A1193	104.766	116.079	128.840	1.00	0.69	O
ATOM	9504	CB	ARG	A1193	107.089	115.368	126.911	1.00	0.69	C
ATOM	9505	CG	ARG	A1193	107.891	114.503	125.925	1.00	0.69	C
ATOM	9506	CD	ARG	A1193	108.671	115.290	124.858	1.00	0.69	C
ATOM	9507	NE	ARG	A1193	109.557	114.302	124.142	1.00	0.69	N
ATOM	9508	CZ	ARG	A1193	110.644	113.743	124.686	1.00	0.69	C
ATOM	9509	NH1	ARG	A1193	111.208	114.215	125.791	1.00	0.69	N
ATOM	9510	NH2	ARG	A1193	111.188	112.646	124.172	1.00	0.69	N
ATOM	9511	N	PRO	A1194	106.498	115.720	130.165	1.00	0.83	N
ATOM	9512	CA	PRO	A1194	105.994	116.653	131.157	1.00	0.83	C
ATOM	9513	C	PRO	A1194	106.556	118.020	130.818	1.00	0.83	C
ATOM	9514	O	PRO	A1194	107.697	118.356	131.147	1.00	0.83	O
ATOM	9515	CB	PRO	A1194	106.546	116.105	132.488	1.00	0.83	C
ATOM	9516	CG	PRO	A1194	107.833	115.376	132.093	1.00	0.83	C
ATOM	9517	CD	PRO	A1194	107.489	114.813	130.717	1.00	0.83	C
ATOM	9518	N	THR	A1195	105.716	118.825	130.149	1.00	0.80	N
ATOM	9519	CA	THR	A1195	106.038	120.106	129.537	1.00	0.80	C
ATOM	9520	C	THR	A1195	106.327	121.190	130.546	1.00	0.80	C
ATOM	9521	O	THR	A1195	107.242	121.996	130.378	1.00	0.80	O
ATOM	9522	CB	THR	A1195	104.954	120.555	128.568	1.00	0.80	C
ATOM	9523	OG1	THR	A1195	103.714	120.780	129.217	1.00	0.80	O
ATOM	9524	CG2	THR	A1195	104.700	119.422	127.569	1.00	0.80	C
ATOM	9525	N	ILE	A1196	105.573	121.178	131.666	1.00	0.83	N
ATOM	9526	CA	ILE	A1196	105.594	122.142	132.758	1.00	0.83	C
ATOM	9527	C	ILE	A1196	106.984	122.407	133.333	1.00	0.83	C
ATOM	9528	O	ILE	A1196	107.308	123.518	133.740	1.00	0.83	O
ATOM	9529	CB	ILE	A1196	104.612	121.739	133.858	1.00	0.83	C
ATOM	9530	CG1	ILE	A1196	104.347	122.893	134.857	1.00	0.83	C
ATOM	9531	CG2	ILE	A1196	105.106	120.463	134.567	1.00	0.83	C
ATOM	9532	CD1	ILE	A1196	103.262	122.569	135.894	1.00	0.83	C
ATOM	9533	N	ARG	A1197	107.874	121.394	133.317	1.00	0.73	N
ATOM	9534	CA	ARG	A1197	109.254	121.485	133.751	1.00	0.73	C
ATOM	9535	C	ARG	A1197	110.080	122.507	132.973	1.00	0.73	C
ATOM	9536	O	ARG	A1197	110.849	123.273	133.553	1.00	0.73	O
ATOM	9537	CB	ARG	A1197	109.869	120.069	133.630	1.00	0.73	C
ATOM	9538	CG	ARG	A1197	111.388	119.975	133.890	1.00	0.73	C
ATOM	9539	CD	ARG	A1197	111.882	118.565	134.241	1.00	0.73	C
ATOM	9540	NE	ARG	A1197	111.366	117.629	133.186	1.00	0.73	N
ATOM	9541	CZ	ARG	A1197	111.978	117.376	132.023	1.00	0.73	C
ATOM	9542	NH1	ARG	A1197	113.226	117.754	131.780	1.00	0.73	N
ATOM	9543	NH2	ARG	A1197	111.304	116.760	131.056	1.00	0.73	N
ATOM	9544	N	TRP	A1198	109.918	122.575	131.635	1.00	0.80	N

ATOM	9545	CA	TRP	A1198	110.579	123.585	130.827	1.00	0.80	C
ATOM	9546	C	TRP	A1198	109.803	124.900	130.792	1.00	0.80	C
ATOM	9547	O	TRP	A1198	110.382	125.963	130.592	1.00	0.80	O
ATOM	9548	CB	TRP	A1198	110.804	123.082	129.380	1.00	0.80	C
ATOM	9549	CG	TRP	A1198	111.752	121.898	129.265	1.00	0.80	C
ATOM	9550	CD1	TRP	A1198	113.118	121.892	129.340	1.00	0.80	C
ATOM	9551	CD2	TRP	A1198	111.361	120.554	128.926	1.00	0.80	C
ATOM	9552	NE1	TRP	A1198	113.611	120.633	129.054	1.00	0.80	N
ATOM	9553	CE2	TRP	A1198	112.545	119.807	128.770	1.00	0.80	C
ATOM	9554	CE3	TRP	A1198	110.111	119.979	128.714	1.00	0.80	C
ATOM	9555	CZ2	TRP	A1198	112.502	118.476	128.365	1.00	0.80	C
ATOM	9556	CZ3	TRP	A1198	110.065	118.632	128.319	1.00	0.80	C
ATOM	9557	CH2	TRP	A1198	111.244	117.897	128.124	1.00	0.80	C
ATOM	9558	N	VAL	A1199	108.474	124.875	131.033	1.00	0.86	N
ATOM	9559	CA	VAL	A1199	107.642	126.068	131.201	1.00	0.86	C
ATOM	9560	C	VAL	A1199	107.992	126.859	132.460	1.00	0.86	C
ATOM	9561	O	VAL	A1199	108.090	128.086	132.438	1.00	0.86	O
ATOM	9562	CB	VAL	A1199	106.156	125.699	131.228	1.00	0.86	C
ATOM	9563	CG1	VAL	A1199	105.252	126.910	131.531	1.00	0.86	C
ATOM	9564	CG2	VAL	A1199	105.749	125.101	129.870	1.00	0.86	C
ATOM	9565	N	ALA	A1200	108.198	126.161	133.596	1.00	0.83	N
ATOM	9566	CA	ALA	A1200	108.640	126.716	134.860	1.00	0.83	C
ATOM	9567	C	ALA	A1200	110.060	127.276	134.818	1.00	0.83	C
ATOM	9568	O	ALA	A1200	110.347	128.350	135.341	1.00	0.83	O
ATOM	9569	CB	ALA	A1200	108.534	125.622	135.941	1.00	0.83	C
ATOM	9570	N	ALA	A1201	110.987	126.566	134.147	1.00	0.80	N
ATOM	9571	CA	ALA	A1201	112.394	126.912	134.100	1.00	0.80	C
ATOM	9572	C	ALA	A1201	112.767	127.802	132.908	1.00	0.80	C
ATOM	9573	O	ALA	A1201	113.932	127.874	132.514	1.00	0.80	O
ATOM	9574	CB	ALA	A1201	113.221	125.606	134.079	1.00	0.80	C
ATOM	9575	N	SER	A1202	111.788	128.521	132.311	1.00	0.84	N
ATOM	9576	CA	SER	A1202	111.954	129.253	131.057	1.00	0.84	C
ATOM	9577	C	SER	A1202	112.496	130.668	131.197	1.00	0.84	C
ATOM	9578	O	SER	A1202	112.858	131.302	130.208	1.00	0.84	O
ATOM	9579	CB	SER	A1202	110.622	129.339	130.253	1.00	0.84	C
ATOM	9580	OG	SER	A1202	109.626	130.137	130.904	1.00	0.84	O
ATOM	9581	N	HIS	A1203	112.591	131.208	132.426	1.00	0.78	N
ATOM	9582	CA	HIS	A1203	113.019	132.581	132.657	1.00	0.78	C
ATOM	9583	C	HIS	A1203	114.107	132.653	133.710	1.00	0.78	C
ATOM	9584	O	HIS	A1203	114.191	133.579	134.516	1.00	0.78	O
ATOM	9585	CB	HIS	A1203	111.828	133.522	132.981	1.00	0.78	C
ATOM	9586	CG	HIS	A1203	110.771	132.933	133.866	1.00	0.78	C
ATOM	9587	ND1	HIS	A1203	111.034	132.658	135.193	1.00	0.78	N
ATOM	9588	CD2	HIS	A1203	109.506	132.552	133.551	1.00	0.78	C
ATOM	9589	CE1	HIS	A1203	109.931	132.107	135.657	1.00	0.78	C
ATOM	9590	NE2	HIS	A1203	108.971	132.024	134.705	1.00	0.78	N
ATOM	9591	N	GLN	A1204	115.034	131.671	133.687	1.00	0.70	N
ATOM	9592	CA	GLN	A1204	116.222	131.690	134.523	1.00	0.70	C
ATOM	9593	C	GLN	A1204	117.078	132.932	134.311	1.00	0.70	C
ATOM	9594	O	GLN	A1204	117.363	133.340	133.189	1.00	0.70	O
ATOM	9595	CB	GLN	A1204	117.136	130.464	134.262	1.00	0.70	C
ATOM	9596	CG	GLN	A1204	116.456	129.104	134.518	1.00	0.70	C
ATOM	9597	CD	GLN	A1204	117.409	127.959	134.174	1.00	0.70	C
ATOM	9598	OE1	GLN	A1204	118.532	127.869	134.690	1.00	0.70	O
ATOM	9599	NE2	GLN	A1204	116.959	127.058	133.269	1.00	0.70	N
ATOM	9600	N	ILE	A1205	117.527	133.562	135.409	1.00	0.62	N
ATOM	9601	CA	ILE	A1205	118.421	134.703	135.348	1.00	0.62	C
ATOM	9602	C	ILE	A1205	119.815	134.249	134.917	1.00	0.62	C
ATOM	9603	O	ILE	A1205	120.406	133.340	135.505	1.00	0.62	O
ATOM	9604	CB	ILE	A1205	118.406	135.465	136.677	1.00	0.62	C
ATOM	9605	CG1	ILE	A1205	116.977	136.026	136.924	1.00	0.62	C
ATOM	9606	CG2	ILE	A1205	119.471	136.587	136.693	1.00	0.62	C
ATOM	9607	CD1	ILE	A1205	116.770	136.634	138.317	1.00	0.62	C
ATOM	9608	N	SER	A1206	120.358	134.853	133.839	1.00	0.66	N
ATOM	9609	CA	SER	A1206	121.700	134.591	133.353	1.00	0.66	C

ATOM	9610	C	SER	A1206	122.519	135.863	133.418	1.00	0.66	C
ATOM	9611	O	SER	A1206	122.074	136.961	133.081	1.00	0.66	O
ATOM	9612	CB	SER	A1206	121.759	133.977	131.917	1.00	0.66	C
ATOM	9613	OG	SER	A1206	121.208	134.822	130.906	1.00	0.66	O
ATOM	9614	N	GLU	A1207	123.766	135.747	133.912	1.00	0.66	N
ATOM	9615	CA	GLU	A1207	124.695	136.850	133.960	1.00	0.66	C
ATOM	9616	C	GLU	A1207	125.659	136.714	132.793	1.00	0.66	C
ATOM	9617	O	GLU	A1207	126.427	135.762	132.678	1.00	0.66	O
ATOM	9618	CB	GLU	A1207	125.430	136.900	135.317	1.00	0.66	C
ATOM	9619	CG	GLU	A1207	126.337	138.142	135.487	1.00	0.66	C
ATOM	9620	CD	GLU	A1207	126.901	138.260	136.893	1.00	0.66	C
ATOM	9621	OE1	GLU	A1207	127.141	139.414	137.326	1.00	0.66	O
ATOM	9622	OE2	GLU	A1207	127.089	137.230	137.589	1.00	0.66	O
ATOM	9623	N	SER	A1208	125.595	137.672	131.856	1.00	0.64	N
ATOM	9624	CA	SER	A1208	126.390	137.703	130.645	1.00	0.64	C
ATOM	9625	C	SER	A1208	126.677	139.171	130.448	1.00	0.64	C
ATOM	9626	O	SER	A1208	125.837	140.006	130.788	1.00	0.64	O
ATOM	9627	CB	SER	A1208	125.619	137.125	129.422	1.00	0.64	C
ATOM	9628	OG	SER	A1208	126.383	137.166	128.210	1.00	0.64	O
ATOM	9629	N	GLU	A1209	127.882	139.546	129.961	1.00	0.58	N
ATOM	9630	CA	GLU	A1209	128.380	140.899	130.163	1.00	0.58	C
ATOM	9631	C	GLU	A1209	128.006	141.875	129.057	1.00	0.58	C
ATOM	9632	O	GLU	A1209	128.312	143.060	129.113	1.00	0.58	O
ATOM	9633	CB	GLU	A1209	129.913	140.911	130.438	1.00	0.58	C
ATOM	9634	CG	GLU	A1209	130.860	140.789	129.216	1.00	0.58	C
ATOM	9635	CD	GLU	A1209	132.337	140.926	129.593	1.00	0.58	C
ATOM	9636	OE1	GLU	A1209	132.697	140.888	130.796	1.00	0.58	O
ATOM	9637	OE2	GLU	A1209	133.162	141.036	128.650	1.00	0.58	O
ATOM	9638	N	ALA	A1210	127.245	141.426	128.048	1.00	0.64	N
ATOM	9639	CA	ALA	A1210	126.784	142.291	126.989	1.00	0.64	C
ATOM	9640	C	ALA	A1210	125.273	142.216	126.885	1.00	0.64	C
ATOM	9641	O	ALA	A1210	124.626	141.268	127.326	1.00	0.64	O
ATOM	9642	CB	ALA	A1210	127.444	141.891	125.653	1.00	0.64	C
ATOM	9643	N	LEU	A1211	124.642	143.246	126.295	1.00	0.69	N
ATOM	9644	CA	LEU	A1211	123.248	143.164	125.917	1.00	0.69	C
ATOM	9645	C	LEU	A1211	123.109	142.463	124.570	1.00	0.69	C
ATOM	9646	O	LEU	A1211	124.067	142.333	123.813	1.00	0.69	O
ATOM	9647	CB	LEU	A1211	122.558	144.547	125.902	1.00	0.69	C
ATOM	9648	CG	LEU	A1211	122.547	145.289	127.259	1.00	0.69	C
ATOM	9649	CD1	LEU	A1211	121.762	146.605	127.131	1.00	0.69	C
ATOM	9650	CD2	LEU	A1211	121.971	144.452	128.414	1.00	0.69	C
ATOM	9651	N	ALA	A1212	121.893	141.944	124.295	1.00	0.80	N
ATOM	9652	CA	ALA	A1212	121.523	141.114	123.155	1.00	0.80	C
ATOM	9653	C	ALA	A1212	121.734	139.623	123.396	1.00	0.80	C
ATOM	9654	O	ALA	A1212	120.877	138.827	123.026	1.00	0.80	O
ATOM	9655	CB	ALA	A1212	122.091	141.551	121.787	1.00	0.80	C
ATOM	9656	N	SER	A1213	122.810	139.211	124.107	1.00	0.77	N
ATOM	9657	CA	SER	A1213	123.073	137.811	124.466	1.00	0.77	C
ATOM	9658	C	SER	A1213	121.966	137.176	125.287	1.00	0.77	C
ATOM	9659	O	SER	A1213	121.600	136.027	125.074	1.00	0.77	O
ATOM	9660	CB	SER	A1213	124.401	137.618	125.248	1.00	0.77	C
ATOM	9661	OG	SER	A1213	124.426	138.411	126.436	1.00	0.77	O
ATOM	9662	N	ARG	A1214	121.349	137.953	126.201	1.00	0.72	N
ATOM	9663	CA	ARG	A1214	120.204	137.534	126.996	1.00	0.72	C
ATOM	9664	C	ARG	A1214	119.028	137.024	126.146	1.00	0.72	C
ATOM	9665	O	ARG	A1214	118.338	136.074	126.501	1.00	0.72	O
ATOM	9666	CB	ARG	A1214	119.678	138.702	127.888	1.00	0.72	C
ATOM	9667	CG	ARG	A1214	120.713	139.359	128.837	1.00	0.72	C
ATOM	9668	CD	ARG	A1214	120.071	140.405	129.771	1.00	0.72	C
ATOM	9669	NE	ARG	A1214	121.154	141.081	130.570	1.00	0.72	N
ATOM	9670	CZ	ARG	A1214	120.931	141.947	131.574	1.00	0.72	C
ATOM	9671	NH1	ARG	A1214	119.702	142.294	131.949	1.00	0.72	N
ATOM	9672	NH2	ARG	A1214	121.961	142.476	132.235	1.00	0.72	N
ATOM	9673	N	GLN	A1215	118.770	137.641	124.970	1.00	0.80	N
ATOM	9674	CA	GLN	A1215	117.713	137.215	124.064	1.00	0.80	C



ATOM	9675	C	GLN	A1215	117.980	135.864	123.407	1.00	0.80	C
ATOM	9676	O	GLN	A1215	117.061	135.073	123.198	1.00	0.80	O
ATOM	9677	CB	GLN	A1215	117.388	138.297	123.005	1.00	0.80	C
ATOM	9678	CG	GLN	A1215	117.067	139.660	123.660	1.00	0.80	C
ATOM	9679	CD	GLN	A1215	116.548	140.694	122.660	1.00	0.80	C
ATOM	9680	OE1	GLN	A1215	115.797	140.425	121.726	1.00	0.80	O
ATOM	9681	NE2	GLN	A1215	116.931	141.969	122.904	1.00	0.80	N
ATOM	9682	N	GLU	A1216	119.261	135.550	123.112	1.00	0.76	N
ATOM	9683	CA	GLU	A1216	119.705	134.264	122.595	1.00	0.76	C
ATOM	9684	C	GLU	A1216	119.409	133.116	123.565	1.00	0.76	C
ATOM	9685	O	GLU	A1216	118.938	132.052	123.147	1.00	0.76	O
ATOM	9686	CB	GLU	A1216	121.233	134.266	122.313	1.00	0.76	C
ATOM	9687	CG	GLU	A1216	121.756	135.360	121.338	1.00	0.76	C
ATOM	9688	CD	GLU	A1216	121.686	134.986	119.855	1.00	0.76	C
ATOM	9689	OE1	GLU	A1216	122.530	135.532	119.089	1.00	0.76	O
ATOM	9690	OE2	GLU	A1216	120.835	134.138	119.479	1.00	0.76	O
ATOM	9691	N	ASP	A1217	119.656	133.329	124.885	1.00	0.81	N
ATOM	9692	CA	ASP	A1217	119.288	132.436	125.978	1.00	0.81	C
ATOM	9693	C	ASP	A1217	117.781	132.261	126.113	1.00	0.81	C
ATOM	9694	O	ASP	A1217	117.266	131.145	126.167	1.00	0.81	O
ATOM	9695	CB	ASP	A1217	119.766	132.988	127.354	1.00	0.81	C
ATOM	9696	CG	ASP	A1217	121.268	132.935	127.563	1.00	0.81	C
ATOM	9697	OD1	ASP	A1217	121.978	132.320	126.731	1.00	0.81	O
ATOM	9698	OD2	ASP	A1217	121.702	133.495	128.609	1.00	0.81	O
ATOM	9699	N	TYR	A1218	117.016	133.372	126.124	1.00	0.84	N
ATOM	9700	CA	TYR	A1218	115.569	133.350	126.270	1.00	0.84	C
ATOM	9701	C	TYR	A1218	114.873	132.599	125.137	1.00	0.84	C
ATOM	9702	O	TYR	A1218	114.024	131.737	125.368	1.00	0.84	O
ATOM	9703	CB	TYR	A1218	115.013	134.796	126.372	1.00	0.84	C
ATOM	9704	CG	TYR	A1218	115.341	135.494	127.677	1.00	0.84	C
ATOM	9705	CD1	TYR	A1218	115.337	134.857	128.938	1.00	0.84	C
ATOM	9706	CD2	TYR	A1218	115.590	136.875	127.633	1.00	0.84	C
ATOM	9707	CE1	TYR	A1218	115.538	135.601	130.116	1.00	0.84	C
ATOM	9708	CE2	TYR	A1218	115.810	137.612	128.801	1.00	0.84	C
ATOM	9709	CZ	TYR	A1218	115.751	136.983	130.043	1.00	0.84	C
ATOM	9710	OH	TYR	A1218	115.834	137.780	131.203	1.00	0.84	O
ATOM	9711	N	ALA	A1219	115.304	132.837	123.883	1.00	0.87	N
ATOM	9712	CA	ALA	A1219	114.870	132.090	122.723	1.00	0.87	C
ATOM	9713	C	ALA	A1219	115.243	130.612	122.798	1.00	0.87	C
ATOM	9714	O	ALA	A1219	114.464	129.739	122.430	1.00	0.87	O
ATOM	9715	CB	ALA	A1219	115.474	132.732	121.460	1.00	0.87	C
ATOM	9716	N	ASN	A1220	116.443	130.283	123.328	1.00	0.81	N
ATOM	9717	CA	ASN	A1220	116.895	128.913	123.525	1.00	0.81	C
ATOM	9718	C	ASN	A1220	115.990	128.111	124.458	1.00	0.81	C
ATOM	9719	O	ASN	A1220	115.590	126.990	124.151	1.00	0.81	O
ATOM	9720	CB	ASN	A1220	118.339	128.933	124.104	1.00	0.81	C
ATOM	9721	CG	ASN	A1220	119.075	127.627	123.842	1.00	0.81	C
ATOM	9722	OD1	ASN	A1220	118.979	127.061	122.752	1.00	0.81	O
ATOM	9723	ND2	ASN	A1220	119.870	127.165	124.832	1.00	0.81	N
ATOM	9724	N	LEU	A1221	115.601	128.698	125.608	1.00	0.83	N
ATOM	9725	CA	LEU	A1221	114.674	128.078	126.540	1.00	0.83	C
ATOM	9726	C	LEU	A1221	113.277	127.909	125.951	1.00	0.83	C
ATOM	9727	O	LEU	A1221	112.611	126.894	126.151	1.00	0.83	O
ATOM	9728	CB	LEU	A1221	114.619	128.840	127.890	1.00	0.83	C
ATOM	9729	CG	LEU	A1221	115.990	129.009	128.591	1.00	0.83	C
ATOM	9730	CD1	LEU	A1221	115.831	129.707	129.952	1.00	0.83	C
ATOM	9731	CD2	LEU	A1221	116.754	127.686	128.771	1.00	0.83	C
ATOM	9732	N	LEU	A1222	112.807	128.895	125.160	1.00	0.83	N
ATOM	9733	CA	LEU	A1222	111.560	128.799	124.423	1.00	0.83	C
ATOM	9734	C	LEU	A1222	111.548	127.705	123.348	1.00	0.83	C
ATOM	9735	O	LEU	A1222	110.572	126.966	123.205	1.00	0.83	O
ATOM	9736	CB	LEU	A1222	111.188	130.171	123.823	1.00	0.83	C
ATOM	9737	CG	LEU	A1222	109.716	130.296	123.385	1.00	0.83	C
ATOM	9738	CD1	LEU	A1222	108.751	130.141	124.573	1.00	0.83	C
ATOM	9739	CD2	LEU	A1222	109.493	131.651	122.709	1.00	0.83	C

ATOM	9740	N	THR	A1223	112.660	127.522	122.597	1.00	0.80	N
ATOM	9741	CA	THR	A1223	112.857	126.392	121.677	1.00	0.80	C
ATOM	9742	C	THR	A1223	112.781	125.053	122.385	1.00	0.80	C
ATOM	9743	O	THR	A1223	112.067	124.152	121.950	1.00	0.80	O
ATOM	9744	CB	THR	A1223	114.187	126.445	120.920	1.00	0.80	C
ATOM	9745	OG1	THR	A1223	114.226	127.590	120.084	1.00	0.80	O
ATOM	9746	CG2	THR	A1223	114.407	125.245	119.986	1.00	0.80	C
ATOM	9747	N	GLN	A1224	113.446	124.911	123.552	1.00	0.78	N
ATOM	9748	CA	GLN	A1224	113.358	123.717	124.383	1.00	0.78	C
ATOM	9749	C	GLN	A1224	111.952	123.425	124.899	1.00	0.78	C
ATOM	9750	O	GLN	A1224	111.515	122.278	124.939	1.00	0.78	O
ATOM	9751	CB	GLN	A1224	114.335	123.781	125.580	1.00	0.78	C
ATOM	9752	CG	GLN	A1224	115.811	123.649	125.143	1.00	0.78	C
ATOM	9753	CD	GLN	A1224	116.746	123.572	126.348	1.00	0.78	C
ATOM	9754	OE1	GLN	A1224	116.414	123.907	127.484	1.00	0.78	O
ATOM	9755	NE2	GLN	A1224	117.985	123.088	126.096	1.00	0.78	N
ATOM	9756	N	CYS	A1225	111.185	124.466	125.277	1.00	0.81	N
ATOM	9757	CA	CYS	A1225	109.771	124.351	125.615	1.00	0.81	C
ATOM	9758	C	CYS	A1225	108.923	123.828	124.450	1.00	0.81	C
ATOM	9759	O	CYS	A1225	108.081	122.948	124.623	1.00	0.81	O
ATOM	9760	CB	CYS	A1225	109.238	125.726	126.117	1.00	0.81	C
ATOM	9761	SG	CYS	A1225	107.531	125.694	126.767	1.00	0.81	S
ATOM	9762	N	LEU	A1226	109.158	124.318	123.212	1.00	0.78	N
ATOM	9763	CA	LEU	A1226	108.509	123.793	122.018	1.00	0.78	C
ATOM	9764	C	LEU	A1226	108.868	122.337	121.698	1.00	0.78	C
ATOM	9765	O	LEU	A1226	107.980	121.538	121.404	1.00	0.78	O
ATOM	9766	CB	LEU	A1226	108.772	124.700	120.789	1.00	0.78	C
ATOM	9767	CG	LEU	A1226	108.044	124.274	119.491	1.00	0.78	C
ATOM	9768	CD1	LEU	A1226	106.514	124.263	119.630	1.00	0.78	C
ATOM	9769	CD2	LEU	A1226	108.445	125.188	118.332	1.00	0.78	C
ATOM	9770	N	GLU	A1227	110.160	121.941	121.803	1.00	0.70	N
ATOM	9771	CA	GLU	A1227	110.608	120.549	121.704	1.00	0.70	C
ATOM	9772	C	GLU	A1227	110.037	119.646	122.792	1.00	0.70	C
ATOM	9773	O	GLU	A1227	109.730	118.473	122.573	1.00	0.70	O
ATOM	9774	CB	GLU	A1227	112.153	120.414	121.680	1.00	0.70	C
ATOM	9775	CG	GLU	A1227	112.733	120.550	120.251	1.00	0.70	C
ATOM	9776	CD	GLU	A1227	114.158	120.012	120.135	1.00	0.70	C
ATOM	9777	OE1	GLU	A1227	115.096	120.838	120.052	1.00	0.70	O
ATOM	9778	OE2	GLU	A1227	114.307	118.763	120.060	1.00	0.70	O
ATOM	9779	N	GLY	A1228	109.839	120.186	124.012	1.00	0.79	N
ATOM	9780	CA	GLY	A1228	109.105	119.524	125.083	1.00	0.79	C
ATOM	9781	C	GLY	A1228	107.662	119.213	124.762	1.00	0.79	C
ATOM	9782	O	GLY	A1228	107.111	118.248	125.285	1.00	0.79	O
ATOM	9783	N	GLY	A1229	107.047	120.010	123.867	1.00	0.75	N
ATOM	9784	CA	GLY	A1229	105.729	119.782	123.289	1.00	0.75	C
ATOM	9785	C	GLY	A1229	104.722	120.805	123.729	1.00	0.75	C
ATOM	9786	O	GLY	A1229	104.024	120.627	124.718	1.00	0.75	O
ATOM	9787	N	SER	A1230	104.570	121.904	122.974	1.00	0.81	N
ATOM	9788	CA	SER	A1230	103.666	122.979	123.362	1.00	0.81	C
ATOM	9789	C	SER	A1230	103.008	123.553	122.129	1.00	0.81	C
ATOM	9790	O	SER	A1230	103.607	123.602	121.055	1.00	0.81	O
ATOM	9791	CB	SER	A1230	104.417	124.131	124.080	1.00	0.81	C
ATOM	9792	OG	SER	A1230	103.519	125.108	124.607	1.00	0.81	O
ATOM	9793	N	SER	A1231	101.733	123.983	122.244	1.00	0.83	N
ATOM	9794	CA	SER	A1231	101.025	124.688	121.186	1.00	0.83	C
ATOM	9795	C	SER	A1231	101.604	126.062	120.895	1.00	0.83	C
ATOM	9796	O	SER	A1231	102.151	126.742	121.764	1.00	0.83	O
ATOM	9797	CB	SER	A1231	99.491	124.795	121.424	1.00	0.83	C
ATOM	9798	OG	SER	A1231	99.138	125.637	122.525	1.00	0.83	O
ATOM	9799	N	PHE	A1232	101.518	126.536	119.632	1.00	0.83	N
ATOM	9800	CA	PHE	A1232	102.072	127.836	119.268	1.00	0.83	C
ATOM	9801	C	PHE	A1232	101.436	128.999	120.017	1.00	0.83	C
ATOM	9802	O	PHE	A1232	102.120	129.945	120.406	1.00	0.83	O
ATOM	9803	CB	PHE	A1232	101.999	128.121	117.749	1.00	0.83	C
ATOM	9804	CG	PHE	A1232	102.877	127.171	116.983	1.00	0.83	C

ATOM	9805	CD1	PHE	A1232	104.263	127.121	117.224	1.00	0.83	C
ATOM	9806	CD2	PHE	A1232	102.331	126.341	115.992	1.00	0.83	C
ATOM	9807	CE1	PHE	A1232	105.084	126.256	116.489	1.00	0.83	C
ATOM	9808	CE2	PHE	A1232	103.148	125.478	115.251	1.00	0.83	C
ATOM	9809	CZ	PHE	A1232	104.526	125.440	115.498	1.00	0.83	C
ATOM	9810	N	SER	A1233	100.116	128.906	120.278	1.00	0.86	N
ATOM	9811	CA	SER	A1233	99.367	129.868	121.076	1.00	0.86	C
ATOM	9812	C	SER	A1233	99.905	130.021	122.500	1.00	0.86	C
ATOM	9813	O	SER	A1233	100.179	131.129	122.958	1.00	0.86	O
ATOM	9814	CB	SER	A1233	97.873	129.438	121.120	1.00	0.86	C
ATOM	9815	OG	SER	A1233	97.028	130.451	121.667	1.00	0.86	O
ATOM	9816	N	LEU	A1234	100.169	128.903	123.217	1.00	0.85	N
ATOM	9817	CA	LEU	A1234	100.793	128.928	124.533	1.00	0.85	C
ATOM	9818	C	LEU	A1234	102.234	129.434	124.507	1.00	0.85	C
ATOM	9819	O	LEU	A1234	102.648	130.246	125.334	1.00	0.85	O
ATOM	9820	CB	LEU	A1234	100.720	127.520	125.171	1.00	0.85	C
ATOM	9821	CG	LEU	A1234	101.389	127.372	126.556	1.00	0.85	C
ATOM	9822	CD1	LEU	A1234	100.861	128.373	127.595	1.00	0.85	C
ATOM	9823	CD2	LEU	A1234	101.193	125.948	127.085	1.00	0.85	C
ATOM	9824	N	THR	A1235	103.027	129.006	123.505	1.00	0.87	N
ATOM	9825	CA	THR	A1235	104.413	129.434	123.291	1.00	0.87	C
ATOM	9826	C	THR	A1235	104.546	130.940	123.115	1.00	0.87	C
ATOM	9827	O	THR	A1235	105.436	131.567	123.688	1.00	0.87	O
ATOM	9828	CB	THR	A1235	105.036	128.699	122.106	1.00	0.87	C
ATOM	9829	OG1	THR	A1235	105.169	127.323	122.441	1.00	0.87	O
ATOM	9830	CG2	THR	A1235	106.448	129.180	121.746	1.00	0.87	C
ATOM	9831	N	TYR	A1236	103.620	131.588	122.373	1.00	0.87	N
ATOM	9832	CA	TYR	A1236	103.546	133.041	122.280	1.00	0.87	C
ATOM	9833	C	TYR	A1236	103.295	133.724	123.635	1.00	0.87	C
ATOM	9834	O	TYR	A1236	103.973	134.686	123.993	1.00	0.87	O
ATOM	9835	CB	TYR	A1236	102.451	133.422	121.242	1.00	0.87	C
ATOM	9836	CG	TYR	A1236	102.376	134.908	120.977	1.00	0.87	C
ATOM	9837	CD1	TYR	A1236	103.280	135.536	120.104	1.00	0.87	C
ATOM	9838	CD2	TYR	A1236	101.388	135.685	121.608	1.00	0.87	C
ATOM	9839	CE1	TYR	A1236	103.178	136.911	119.844	1.00	0.87	C
ATOM	9840	CE2	TYR	A1236	101.286	137.060	121.351	1.00	0.87	C
ATOM	9841	CZ	TYR	A1236	102.175	137.668	120.460	1.00	0.87	C
ATOM	9842	OH	TYR	A1236	102.061	139.041	120.168	1.00	0.87	O
ATOM	9843	N	LEU	A1237	102.354	133.211	124.458	1.00	0.88	N
ATOM	9844	CA	LEU	A1237	102.078	133.741	125.789	1.00	0.88	C
ATOM	9845	C	LEU	A1237	103.254	133.626	126.758	1.00	0.88	C
ATOM	9846	O	LEU	A1237	103.538	134.552	127.518	1.00	0.88	O
ATOM	9847	CB	LEU	A1237	100.823	133.089	126.424	1.00	0.88	C
ATOM	9848	CG	LEU	A1237	99.516	133.273	125.620	1.00	0.88	C
ATOM	9849	CD1	LEU	A1237	98.350	132.580	126.341	1.00	0.88	C
ATOM	9850	CD2	LEU	A1237	99.168	134.748	125.360	1.00	0.88	C
ATOM	9851	N	ILE	A1238	104.001	132.498	126.718	1.00	0.88	N
ATOM	9852	CA	ILE	A1238	105.251	132.320	127.456	1.00	0.88	C
ATOM	9853	C	ILE	A1238	106.298	133.348	127.037	1.00	0.88	C
ATOM	9854	O	ILE	A1238	106.962	133.952	127.878	1.00	0.88	O
ATOM	9855	CB	ILE	A1238	105.804	130.894	127.322	1.00	0.88	C
ATOM	9856	CG1	ILE	A1238	104.823	129.893	127.985	1.00	0.88	C
ATOM	9857	CG2	ILE	A1238	107.216	130.782	127.955	1.00	0.88	C
ATOM	9858	CD1	ILE	A1238	105.211	128.421	127.800	1.00	0.88	C
ATOM	9859	N	GLN	A1239	106.445	133.631	125.726	1.00	0.86	N
ATOM	9860	CA	GLN	A1239	107.341	134.678	125.259	1.00	0.86	C
ATOM	9861	C	GLN	A1239	106.975	136.089	125.719	1.00	0.86	C
ATOM	9862	O	GLN	A1239	107.835	136.880	126.103	1.00	0.86	O
ATOM	9863	CB	GLN	A1239	107.519	134.657	123.729	1.00	0.86	C
ATOM	9864	CG	GLN	A1239	108.689	135.582	123.321	1.00	0.86	C
ATOM	9865	CD	GLN	A1239	109.417	135.165	122.047	1.00	0.86	C
ATOM	9866	OE1	GLN	A1239	110.622	134.924	122.093	1.00	0.86	O
ATOM	9867	NE2	GLN	A1239	108.698	135.093	120.911	1.00	0.86	N
ATOM	9868	N	CYS	A1240	105.675	136.438	125.744	1.00	0.89	N
ATOM	9869	CA	CYS	A1240	105.205	137.694	126.317	1.00	0.89	C

ATOM	9870	C	CYS	A1240	105.532	137.834	127.809	1.00	0.89	C
ATOM	9871	O	CYS	A1240	105.967	138.888	128.270	1.00	0.89	O
ATOM	9872	CB	CYS	A1240	103.683	137.877	126.101	1.00	0.89	C
ATOM	9873	SG	CYS	A1240	103.216	137.991	124.344	1.00	0.89	S
ATOM	9874	N	ALA	A1241	105.392	136.751	128.605	1.00	0.92	N
ATOM	9875	CA	ALA	A1241	105.862	136.691	129.982	1.00	0.92	C
ATOM	9876	C	ALA	A1241	107.384	136.844	130.119	1.00	0.92	C
ATOM	9877	O	ALA	A1241	107.895	137.512	131.019	1.00	0.92	O
ATOM	9878	CB	ALA	A1241	105.392	135.371	130.628	1.00	0.92	C
ATOM	9879	N	GLN	A1242	108.153	136.243	129.192	1.00	0.87	N
ATOM	9880	CA	GLN	A1242	109.595	136.383	129.066	1.00	0.87	C
ATOM	9881	C	GLN	A1242	110.059	137.816	128.761	1.00	0.87	C
ATOM	9882	O	GLN	A1242	111.017	138.311	129.353	1.00	0.87	O
ATOM	9883	CB	GLN	A1242	110.108	135.380	128.007	1.00	0.87	C
ATOM	9884	CG	GLN	A1242	111.381	134.608	128.415	1.00	0.87	C
ATOM	9885	CD	GLN	A1242	111.734	133.616	127.307	1.00	0.87	C
ATOM	9886	OE1	GLN	A1242	111.502	133.881	126.129	1.00	0.87	O
ATOM	9887	NE2	GLN	A1242	112.330	132.456	127.660	1.00	0.87	N
ATOM	9888	N	LEU	A1243	109.340	138.548	127.877	1.00	0.89	N
ATOM	9889	CA	LEU	A1243	109.512	139.980	127.632	1.00	0.89	C
ATOM	9890	C	LEU	A1243	109.292	140.813	128.893	1.00	0.89	C
ATOM	9891	O	LEU	A1243	110.078	141.703	129.222	1.00	0.89	O
ATOM	9892	CB	LEU	A1243	108.559	140.441	126.485	1.00	0.89	C
ATOM	9893	CG	LEU	A1243	108.442	141.969	126.233	1.00	0.89	C
ATOM	9894	CD1	LEU	A1243	108.243	142.282	124.743	1.00	0.89	C
ATOM	9895	CD2	LEU	A1243	107.273	142.614	127.002	1.00	0.89	C
ATOM	9896	N	VAL	A1244	108.237	140.504	129.679	1.00	0.90	N
ATOM	9897	CA	VAL	A1244	107.987	141.138	130.970	1.00	0.90	C
ATOM	9898	C	VAL	A1244	109.111	140.877	131.969	1.00	0.90	C
ATOM	9899	O	VAL	A1244	109.577	141.797	132.637	1.00	0.90	O
ATOM	9900	CB	VAL	A1244	106.619	140.755	131.537	1.00	0.90	C
ATOM	9901	CG1	VAL	A1244	106.406	141.307	132.964	1.00	0.90	C
ATOM	9902	CG2	VAL	A1244	105.538	141.344	130.610	1.00	0.90	C
ATOM	9903	N	HIS	A1245	109.637	139.631	132.043	1.00	0.85	N
ATOM	9904	CA	HIS	A1245	110.807	139.298	132.855	1.00	0.85	C
ATOM	9905	C	HIS	A1245	112.048	140.093	132.475	1.00	0.85	C
ATOM	9906	O	HIS	A1245	112.717	140.674	133.329	1.00	0.85	O
ATOM	9907	CB	HIS	A1245	111.166	137.792	132.713	1.00	0.85	C
ATOM	9908	CG	HIS	A1245	112.360	137.342	133.510	1.00	0.85	C
ATOM	9909	ND1	HIS	A1245	113.580	137.170	132.878	1.00	0.85	N
ATOM	9910	CD2	HIS	A1245	112.463	137.024	134.826	1.00	0.85	C
ATOM	9911	CE1	HIS	A1245	114.398	136.747	133.822	1.00	0.85	C
ATOM	9912	NE2	HIS	A1245	113.773	136.643	135.018	1.00	0.85	N
ATOM	9913	N	HIS	A1246	112.344	140.173	131.164	1.00	0.85	N
ATOM	9914	CA	HIS	A1246	113.489	140.883	130.631	1.00	0.85	C
ATOM	9915	C	HIS	A1246	113.489	142.377	130.941	1.00	0.85	C
ATOM	9916	O	HIS	A1246	114.488	142.907	131.424	1.00	0.85	O
ATOM	9917	CB	HIS	A1246	113.544	140.666	129.100	1.00	0.85	C
ATOM	9918	CG	HIS	A1246	114.539	141.530	128.385	1.00	0.85	C
ATOM	9919	ND1	HIS	A1246	114.072	142.349	127.385	1.00	0.85	N
ATOM	9920	CD2	HIS	A1246	115.853	141.785	128.625	1.00	0.85	C
ATOM	9921	CE1	HIS	A1246	115.092	143.092	127.031	1.00	0.85	C
ATOM	9922	NE2	HIS	A1246	116.202	142.794	127.750	1.00	0.85	N
ATOM	9923	N	TYR	A1247	112.359	143.081	130.719	1.00	0.85	N
ATOM	9924	CA	TYR	A1247	112.214	144.487	131.064	1.00	0.85	C
ATOM	9925	C	TYR	A1247	112.188	144.757	132.568	1.00	0.85	C
ATOM	9926	O	TYR	A1247	112.760	145.739	133.044	1.00	0.85	O
ATOM	9927	CB	TYR	A1247	110.982	145.127	130.362	1.00	0.85	C
ATOM	9928	CG	TYR	A1247	111.153	145.276	128.859	1.00	0.85	C
ATOM	9929	CD1	TYR	A1247	112.371	145.670	128.264	1.00	0.85	C
ATOM	9930	CD2	TYR	A1247	110.038	145.092	128.021	1.00	0.85	C
ATOM	9931	CE1	TYR	A1247	112.467	145.857	126.876	1.00	0.85	C
ATOM	9932	CE2	TYR	A1247	110.134	145.281	126.633	1.00	0.85	C
ATOM	9933	CZ	TYR	A1247	111.351	145.664	126.060	1.00	0.85	C
ATOM	9934	OH	TYR	A1247	111.449	145.878	124.667	1.00	0.85	O

ATOM	9935	N	MET	A1248	111.565	143.879	133.384	1.00	0.81	N
ATOM	9936	CA	MET	A1248	111.572	143.986	134.839	1.00	0.81	C
ATOM	9937	C	MET	A1248	112.979	143.903	135.438	1.00	0.81	C
ATOM	9938	O	MET	A1248	113.346	144.637	136.358	1.00	0.81	O
ATOM	9939	CB	MET	A1248	110.620	142.939	135.455	1.00	0.81	C
ATOM	9940	CG	MET	A1248	110.147	143.274	136.881	1.00	0.81	C
ATOM	9941	SD	MET	A1248	108.817	142.181	137.468	1.00	0.81	S
ATOM	9942	CE	MET	A1248	109.874	140.741	137.775	1.00	0.81	C
ATOM	9943	N	LEU	A1249	113.842	143.065	134.827	1.00	0.81	N
ATOM	9944	CA	LEU	A1249	115.235	142.867	135.188	1.00	0.81	C
ATOM	9945	C	LEU	A1249	116.146	143.919	134.532	1.00	0.81	C
ATOM	9946	O	LEU	A1249	117.375	143.874	134.614	1.00	0.81	O
ATOM	9947	CB	LEU	A1249	115.607	141.427	134.729	1.00	0.81	C
ATOM	9948	CG	LEU	A1249	117.001	140.872	135.101	1.00	0.81	C
ATOM	9949	CD1	LEU	A1249	117.264	140.888	136.616	1.00	0.81	C
ATOM	9950	CD2	LEU	A1249	117.167	139.451	134.535	1.00	0.81	C
ATOM	9951	N	LEU	A1250	115.554	144.953	133.897	1.00	0.80	N
ATOM	9952	CA	LEU	A1250	116.280	146.047	133.279	1.00	0.80	C
ATOM	9953	C	LEU	A1250	115.977	147.385	133.950	1.00	0.80	C
ATOM	9954	O	LEU	A1250	116.287	148.455	133.434	1.00	0.80	O
ATOM	9955	CB	LEU	A1250	115.983	146.073	131.758	1.00	0.80	C
ATOM	9956	CG	LEU	A1250	117.139	146.585	130.871	1.00	0.80	C
ATOM	9957	CD1	LEU	A1250	118.394	145.698	130.970	1.00	0.80	C
ATOM	9958	CD2	LEU	A1250	116.678	146.660	129.409	1.00	0.80	C
ATOM	9959	N	GLY	A1251	115.392	147.359	135.170	1.00	0.78	N
ATOM	9960	CA	GLY	A1251	115.284	148.554	136.012	1.00	0.78	C
ATOM	9961	C	GLY	A1251	113.937	149.225	136.041	1.00	0.78	C
ATOM	9962	O	GLY	A1251	113.792	150.272	136.668	1.00	0.78	O
ATOM	9963	N	LEU	A1252	112.907	148.603	135.428	1.00	0.79	N
ATOM	9964	CA	LEU	A1252	111.526	149.074	135.297	1.00	0.79	C
ATOM	9965	C	LEU	A1252	110.885	149.572	136.591	1.00	0.79	C
ATOM	9966	O	LEU	A1252	110.145	150.557	136.629	1.00	0.79	O
ATOM	9967	CB	LEU	A1252	110.706	147.868	134.761	1.00	0.79	C
ATOM	9968	CG	LEU	A1252	109.172	148.013	134.634	1.00	0.79	C
ATOM	9969	CD1	LEU	A1252	108.759	149.120	133.656	1.00	0.79	C
ATOM	9970	CD2	LEU	A1252	108.560	146.672	134.191	1.00	0.79	C
ATOM	9971	N	CYS	A1253	111.173	148.878	137.701	1.00	0.78	N
ATOM	9972	CA	CYS	A1253	110.658	149.178	139.016	1.00	0.78	C
ATOM	9973	C	CYS	A1253	111.752	149.543	140.010	1.00	0.78	C
ATOM	9974	O	CYS	A1253	111.499	149.516	141.208	1.00	0.78	O
ATOM	9975	CB	CYS	A1253	109.825	147.973	139.534	1.00	0.78	C
ATOM	9976	SG	CYS	A1253	110.725	146.386	139.440	1.00	0.78	S
ATOM	9977	N	LEU	A1254	112.975	149.918	139.554	1.00	0.70	N
ATOM	9978	CA	LEU	A1254	114.046	150.309	140.475	1.00	0.70	C
ATOM	9979	C	LEU	A1254	114.727	151.631	140.133	1.00	0.70	C
ATOM	9980	O	LEU	A1254	115.178	152.336	141.031	1.00	0.70	O
ATOM	9981	CB	LEU	A1254	115.185	149.254	140.545	1.00	0.70	C
ATOM	9982	CG	LEU	A1254	114.843	147.917	141.237	1.00	0.70	C
ATOM	9983	CD1	LEU	A1254	116.113	147.054	141.294	1.00	0.70	C
ATOM	9984	CD2	LEU	A1254	114.296	148.108	142.661	1.00	0.70	C
ATOM	9985	N	HIS	A1255	114.814	152.052	138.851	1.00	0.62	N
ATOM	9986	CA	HIS	A1255	115.520	153.286	138.520	1.00	0.62	C
ATOM	9987	C	HIS	A1255	114.534	154.328	137.996	1.00	0.62	C
ATOM	9988	O	HIS	A1255	113.786	154.035	137.062	1.00	0.62	O
ATOM	9989	CB	HIS	A1255	116.670	153.072	137.501	1.00	0.62	C
ATOM	9990	CG	HIS	A1255	118.028	153.211	138.138	1.00	0.62	C
ATOM	9991	ND1	HIS	A1255	118.790	152.087	138.379	1.00	0.62	N
ATOM	9992	CD2	HIS	A1255	118.693	154.323	138.555	1.00	0.62	C
ATOM	9993	CE1	HIS	A1255	119.900	152.534	138.934	1.00	0.62	C
ATOM	9994	NE2	HIS	A1255	119.896	153.883	139.061	1.00	0.62	N
ATOM	9995	N	PRO	A1256	114.461	155.561	138.517	1.00	0.62	N
ATOM	9996	CA	PRO	A1256	113.336	156.459	138.242	1.00	0.62	C
ATOM	9997	C	PRO	A1256	113.406	157.063	136.852	1.00	0.62	C
ATOM	9998	O	PRO	A1256	112.399	157.560	136.352	1.00	0.62	O
ATOM	9999	CB	PRO	A1256	113.450	157.534	139.340	1.00	0.62	C

ATOM	10000	CG	PRO	A1256	114.930	157.529	139.731	1.00	0.62	C
ATOM	10001	CD	PRO	A1256	115.288	156.051	139.624	1.00	0.62	C
ATOM	10002	N	LEU	A1257	114.572	157.004	136.184	1.00	0.65	N
ATOM	10003	CA	LEU	A1257	114.799	157.584	134.877	1.00	0.65	C
ATOM	10004	C	LEU	A1257	114.425	156.633	133.744	1.00	0.65	C
ATOM	10005	O	LEU	A1257	114.723	156.877	132.581	1.00	0.65	O
ATOM	10006	CB	LEU	A1257	116.258	158.103	134.709	1.00	0.65	C
ATOM	10007	CG	LEU	A1257	117.414	157.080	134.837	1.00	0.65	C
ATOM	10008	CD1	LEU	A1257	118.670	157.623	134.133	1.00	0.65	C
ATOM	10009	CD2	LEU	A1257	117.783	156.747	136.291	1.00	0.65	C
ATOM	10010	N	PHE	A1258	113.660	155.557	134.040	1.00	0.70	N
ATOM	10011	CA	PHE	A1258	113.193	154.567	133.078	1.00	0.70	C
ATOM	10012	C	PHE	A1258	112.422	155.161	131.893	1.00	0.70	C
ATOM	10013	O	PHE	A1258	112.457	154.655	130.776	1.00	0.70	O
ATOM	10014	CB	PHE	A1258	112.336	153.493	133.810	1.00	0.70	C
ATOM	10015	CG	PHE	A1258	112.233	152.227	132.999	1.00	0.70	C
ATOM	10016	CD1	PHE	A1258	113.338	151.363	132.912	1.00	0.70	C
ATOM	10017	CD2	PHE	A1258	111.055	151.895	132.309	1.00	0.70	C
ATOM	10018	CE1	PHE	A1258	113.271	150.190	132.148	1.00	0.70	C
ATOM	10019	CE2	PHE	A1258	110.987	150.725	131.538	1.00	0.70	C
ATOM	10020	CZ	PHE	A1258	112.093	149.871	131.461	1.00	0.70	C
ATOM	10021	N	GLY	A1259	111.718	156.298	132.096	1.00	0.78	N
ATOM	10022	CA	GLY	A1259	111.035	157.001	131.010	1.00	0.78	C
ATOM	10023	C	GLY	A1259	111.903	157.530	129.889	1.00	0.78	C
ATOM	10024	O	GLY	A1259	111.452	157.595	128.749	1.00	0.78	O
ATOM	10025	N	THR	A1260	113.169	157.912	130.165	1.00	0.77	N
ATOM	10026	CA	THR	A1260	114.097	158.381	129.131	1.00	0.77	C
ATOM	10027	C	THR	A1260	114.537	157.240	128.231	1.00	0.77	C
ATOM	10028	O	THR	A1260	114.555	157.347	127.006	1.00	0.77	O
ATOM	10029	CB	THR	A1260	115.315	159.144	129.663	1.00	0.77	C
ATOM	10030	OG1	THR	A1260	116.198	158.330	130.420	1.00	0.77	O
ATOM	10031	CG2	THR	A1260	114.839	160.258	130.606	1.00	0.77	C
ATOM	10032	N	PHE	A1261	114.835	156.080	128.846	1.00	0.74	N
ATOM	10033	CA	PHE	A1261	115.150	154.827	128.188	1.00	0.74	C
ATOM	10034	C	PHE	A1261	114.007	154.280	127.347	1.00	0.74	C
ATOM	10035	O	PHE	A1261	114.212	153.837	126.218	1.00	0.74	O
ATOM	10036	CB	PHE	A1261	115.574	153.760	129.230	1.00	0.74	C
ATOM	10037	CG	PHE	A1261	116.781	154.196	130.023	1.00	0.74	C
ATOM	10038	CD1	PHE	A1261	117.907	154.763	129.397	1.00	0.74	C
ATOM	10039	CD2	PHE	A1261	116.823	153.983	131.411	1.00	0.74	C
ATOM	10040	CE1	PHE	A1261	119.036	155.126	130.140	1.00	0.74	C
ATOM	10041	CE2	PHE	A1261	117.949	154.342	132.160	1.00	0.74	C
ATOM	10042	CZ	PHE	A1261	119.053	154.917	131.522	1.00	0.74	C
ATOM	10043	N	VAL	A1262	112.755	154.347	127.850	1.00	0.82	N
ATOM	10044	CA	VAL	A1262	111.569	154.004	127.068	1.00	0.82	C
ATOM	10045	C	VAL	A1262	111.414	154.885	125.839	1.00	0.82	C
ATOM	10046	O	VAL	A1262	111.198	154.379	124.742	1.00	0.82	O
ATOM	10047	CB	VAL	A1262	110.293	154.035	127.912	1.00	0.82	C
ATOM	10048	CG1	VAL	A1262	109.011	153.902	127.058	1.00	0.82	C
ATOM	10049	CG2	VAL	A1262	110.355	152.857	128.899	1.00	0.82	C
ATOM	10050	N	GLY	A1263	111.591	156.223	125.954	1.00	0.81	N
ATOM	10051	CA	GLY	A1263	111.514	157.107	124.788	1.00	0.81	C
ATOM	10052	C	GLY	A1263	112.577	156.850	123.746	1.00	0.81	C
ATOM	10053	O	GLY	A1263	112.315	156.890	122.548	1.00	0.81	O
ATOM	10054	N	MET	A1264	113.801	156.502	124.186	1.00	0.72	N
ATOM	10055	CA	MET	A1264	114.881	156.080	123.312	1.00	0.72	C
ATOM	10056	C	MET	A1264	114.581	154.784	122.556	1.00	0.72	C
ATOM	10057	O	MET	A1264	114.772	154.700	121.344	1.00	0.72	O
ATOM	10058	CB	MET	A1264	116.162	155.884	124.160	1.00	0.72	C
ATOM	10059	CG	MET	A1264	117.456	155.633	123.355	1.00	0.72	C
ATOM	10060	SD	MET	A1264	118.741	154.720	124.270	1.00	0.72	S
ATOM	10061	CE	MET	A1264	118.867	155.840	125.691	1.00	0.72	C
ATOM	10062	N	LEU	A1265	114.061	153.747	123.246	1.00	0.78	N
ATOM	10063	CA	LEU	A1265	113.764	152.457	122.636	1.00	0.78	C
ATOM	10064	C	LEU	A1265	112.481	152.427	121.820	1.00	0.78	C

ATOM	10065	O	LEU	A1265	112.286	151.565	120.966	1.00	0.78	O
ATOM	10066	CB	LEU	A1265	113.697	151.345	123.710	1.00	0.78	C
ATOM	10067	CG	LEU	A1265	115.075	150.895	124.232	1.00	0.78	C
ATOM	10068	CD1	LEU	A1265	114.910	149.787	125.284	1.00	0.78	C
ATOM	10069	CD2	LEU	A1265	115.972	150.402	123.085	1.00	0.78	C
ATOM	10070	N	ILE	A1266	111.571	153.397	122.014	1.00	0.81	N
ATOM	10071	CA	ILE	A1266	110.483	153.647	121.077	1.00	0.81	C
ATOM	10072	C	ILE	A1266	111.013	154.109	119.728	1.00	0.81	C
ATOM	10073	O	ILE	A1266	110.536	153.682	118.673	1.00	0.81	O
ATOM	10074	CB	ILE	A1266	109.460	154.619	121.670	1.00	0.81	C
ATOM	10075	CG1	ILE	A1266	108.624	153.923	122.777	1.00	0.81	C
ATOM	10076	CG2	ILE	A1266	108.535	155.255	120.605	1.00	0.81	C
ATOM	10077	CD1	ILE	A1266	107.746	152.754	122.308	1.00	0.81	C
ATOM	10078	N	GLU	A1267	112.047	154.973	119.716	1.00	0.75	N
ATOM	10079	CA	GLU	A1267	112.579	155.474	118.470	1.00	0.75	C
ATOM	10080	C	GLU	A1267	113.748	154.699	117.845	1.00	0.75	C
ATOM	10081	O	GLU	A1267	114.050	154.921	116.669	1.00	0.75	O
ATOM	10082	CB	GLU	A1267	113.123	156.901	118.637	1.00	0.75	C
ATOM	10083	CG	GLU	A1267	112.126	158.049	118.925	1.00	0.75	C
ATOM	10084	CD	GLU	A1267	112.718	159.415	118.541	1.00	0.75	C
ATOM	10085	OE1	GLU	A1267	113.762	159.434	117.833	1.00	0.75	O
ATOM	10086	OE2	GLU	A1267	112.139	160.458	118.919	1.00	0.75	O
ATOM	10087	N	ASP	A1268	114.443	153.803	118.572	1.00	0.78	N
ATOM	10088	CA	ASP	A1268	115.447	152.918	117.999	1.00	0.78	C
ATOM	10089	C	ASP	A1268	115.042	151.484	118.374	1.00	0.78	C
ATOM	10090	O	ASP	A1268	115.120	151.132	119.552	1.00	0.78	O
ATOM	10091	CB	ASP	A1268	116.879	153.279	118.496	1.00	0.78	C
ATOM	10092	CG	ASP	A1268	117.986	152.704	117.630	1.00	0.78	C
ATOM	10093	OD1	ASP	A1268	117.741	151.838	116.754	1.00	0.78	O
ATOM	10094	OD2	ASP	A1268	119.153	153.139	117.818	1.00	0.78	O
ATOM	10095	N	PRO	A1269	114.600	150.618	117.452	1.00	0.84	N
ATOM	10096	CA	PRO	A1269	114.066	149.305	117.801	1.00	0.84	C
ATOM	10097	C	PRO	A1269	115.158	148.261	117.638	1.00	0.84	C
ATOM	10098	O	PRO	A1269	114.856	147.073	117.535	1.00	0.84	O
ATOM	10099	CB	PRO	A1269	112.928	149.112	116.783	1.00	0.84	C
ATOM	10100	CG	PRO	A1269	113.407	149.842	115.525	1.00	0.84	C
ATOM	10101	CD	PRO	A1269	114.239	151.002	116.083	1.00	0.84	C
ATOM	10102	N	ASP	A1270	116.434	148.679	117.586	1.00	0.82	N
ATOM	10103	CA	ASP	A1270	117.591	147.812	117.603	1.00	0.82	C
ATOM	10104	C	ASP	A1270	117.702	146.961	118.893	1.00	0.82	C
ATOM	10105	O	ASP	A1270	117.586	147.488	120.008	1.00	0.82	O
ATOM	10106	CB	ASP	A1270	118.825	148.733	117.436	1.00	0.82	C
ATOM	10107	CG	ASP	A1270	120.128	148.043	117.067	1.00	0.82	C
ATOM	10108	OD1	ASP	A1270	120.108	146.911	116.540	1.00	0.82	O
ATOM	10109	OD2	ASP	A1270	121.167	148.744	117.230	1.00	0.82	O
ATOM	10110	N	PRO	A1271	117.947	145.651	118.825	1.00	0.83	N
ATOM	10111	CA	PRO	A1271	118.587	144.872	119.884	1.00	0.83	C
ATOM	10112	C	PRO	A1271	119.890	145.466	120.409	1.00	0.83	C
ATOM	10113	O	PRO	A1271	120.382	146.464	119.904	1.00	0.83	O
ATOM	10114	CB	PRO	A1271	118.787	143.485	119.250	1.00	0.83	C
ATOM	10115	CG	PRO	A1271	117.674	143.411	118.205	1.00	0.83	C
ATOM	10116	CD	PRO	A1271	117.662	144.831	117.652	1.00	0.83	C
ATOM	10117	N	ALA	A1272	120.461	144.899	121.489	1.00	0.78	N
ATOM	10118	CA	ALA	A1272	121.686	145.384	122.124	1.00	0.78	C
ATOM	10119	C	ALA	A1272	121.574	146.731	122.842	1.00	0.78	C
ATOM	10120	O	ALA	A1272	122.337	147.014	123.758	1.00	0.78	O
ATOM	10121	CB	ALA	A1272	122.903	145.361	121.170	1.00	0.78	C
ATOM	10122	N	LEU	A1273	120.560	147.551	122.514	1.00	0.69	N
ATOM	10123	CA	LEU	A1273	120.195	148.729	123.274	1.00	0.69	C
ATOM	10124	C	LEU	A1273	119.061	148.395	124.230	1.00	0.69	C
ATOM	10125	O	LEU	A1273	118.622	149.211	125.031	1.00	0.69	O
ATOM	10126	CB	LEU	A1273	119.761	149.868	122.324	1.00	0.69	C
ATOM	10127	CG	LEU	A1273	120.816	150.250	121.262	1.00	0.69	C
ATOM	10128	CD1	LEU	A1273	120.308	151.448	120.452	1.00	0.69	C
ATOM	10129	CD2	LEU	A1273	122.194	150.564	121.870	1.00	0.69	C

ATOM	10130	N	GLY	A1274	118.596	147.131	124.206	1.00	0.83	N
ATOM	10131	CA	GLY	A1274	117.603	146.611	125.134	1.00	0.83	C
ATOM	10132	C	GLY	A1274	116.286	146.236	124.526	1.00	0.83	C
ATOM	10133	O	GLY	A1274	115.524	145.533	125.176	1.00	0.83	O
ATOM	10134	N	PHE	A1275	115.971	146.644	123.280	1.00	0.84	N
ATOM	10135	CA	PHE	A1275	114.713	146.284	122.633	1.00	0.84	C
ATOM	10136	C	PHE	A1275	114.525	144.772	122.439	1.00	0.84	C
ATOM	10137	O	PHE	A1275	115.430	144.079	121.976	1.00	0.84	O
ATOM	10138	CB	PHE	A1275	114.590	146.998	121.260	1.00	0.84	C
ATOM	10139	CG	PHE	A1275	113.179	146.973	120.748	1.00	0.84	C
ATOM	10140	CD1	PHE	A1275	112.213	147.819	121.312	1.00	0.84	C
ATOM	10141	CD2	PHE	A1275	112.805	146.092	119.721	1.00	0.84	C
ATOM	10142	CE1	PHE	A1275	110.889	147.784	120.860	1.00	0.84	C
ATOM	10143	CE2	PHE	A1275	111.484	146.061	119.259	1.00	0.84	C
ATOM	10144	CZ	PHE	A1275	110.527	146.908	119.829	1.00	0.84	C
ATOM	10145	N	PHE	A1276	113.337	144.234	122.786	1.00	0.86	N
ATOM	10146	CA	PHE	A1276	113.016	142.820	122.682	1.00	0.86	C
ATOM	10147	C	PHE	A1276	112.168	142.545	121.439	1.00	0.86	C
ATOM	10148	O	PHE	A1276	111.144	143.185	121.205	1.00	0.86	O
ATOM	10149	CB	PHE	A1276	112.252	142.373	123.959	1.00	0.86	C
ATOM	10150	CG	PHE	A1276	112.240	140.875	124.129	1.00	0.86	C
ATOM	10151	CD1	PHE	A1276	113.271	140.248	124.844	1.00	0.86	C
ATOM	10152	CD2	PHE	A1276	111.212	140.082	123.592	1.00	0.86	C
ATOM	10153	CE1	PHE	A1276	113.271	138.862	125.035	1.00	0.86	C
ATOM	10154	CE2	PHE	A1276	111.200	138.695	123.793	1.00	0.86	C
ATOM	10155	CZ	PHE	A1276	112.229	138.084	124.519	1.00	0.86	C
ATOM	10156	N	ILE	A1277	112.570	141.564	120.604	1.00	0.86	N
ATOM	10157	CA	ILE	A1277	111.842	141.198	119.393	1.00	0.86	C
ATOM	10158	C	ILE	A1277	110.938	140.006	119.678	1.00	0.86	C
ATOM	10159	O	ILE	A1277	111.332	139.064	120.356	1.00	0.86	O
ATOM	10160	CB	ILE	A1277	112.779	140.865	118.224	1.00	0.86	C
ATOM	10161	CG1	ILE	A1277	113.689	142.074	117.892	1.00	0.86	C
ATOM	10162	CG2	ILE	A1277	111.967	140.436	116.975	1.00	0.86	C
ATOM	10163	CD1	ILE	A1277	114.780	141.755	116.858	1.00	0.86	C
ATOM	10164	N	MET	A1278	109.694	140.007	119.149	1.00	0.86	N
ATOM	10165	CA	MET	A1278	108.784	138.884	119.275	1.00	0.86	C
ATOM	10166	C	MET	A1278	108.430	138.258	117.926	1.00	0.86	C
ATOM	10167	O	MET	A1278	108.210	138.913	116.902	1.00	0.86	O
ATOM	10168	CB	MET	A1278	107.514	139.297	120.062	1.00	0.86	C
ATOM	10169	CG	MET	A1278	107.703	139.061	121.577	1.00	0.86	C
ATOM	10170	SD	MET	A1278	106.460	139.742	122.723	1.00	0.86	S
ATOM	10171	CE	MET	A1278	105.058	139.982	121.604	1.00	0.86	C
ATOM	10172	N	ASP	A1279	108.441	136.916	117.904	1.00	0.86	N
ATOM	10173	CA	ASP	A1279	107.938	136.004	116.902	1.00	0.86	C
ATOM	10174	C	ASP	A1279	106.543	136.234	116.325	1.00	0.86	C
ATOM	10175	O	ASP	A1279	105.749	137.067	116.759	1.00	0.86	O
ATOM	10176	CB	ASP	A1279	108.114	134.546	117.366	1.00	0.86	C
ATOM	10177	CG	ASP	A1279	109.593	134.317	117.588	1.00	0.86	C
ATOM	10178	OD1	ASP	A1279	110.126	134.866	118.584	1.00	0.86	O
ATOM	10179	OD2	ASP	A1279	110.221	133.699	116.699	1.00	0.86	O
ATOM	10180	N	ASN	A1280	106.217	135.476	115.259	1.00	0.83	N
ATOM	10181	CA	ASN	A1280	104.861	135.370	114.760	1.00	0.83	C
ATOM	10182	C	ASN	A1280	103.992	134.583	115.769	1.00	0.83	C
ATOM	10183	O	ASN	A1280	104.508	133.655	116.391	1.00	0.83	O
ATOM	10184	CB	ASN	A1280	104.876	134.718	113.348	1.00	0.83	C
ATOM	10185	CG	ASN	A1280	103.542	134.876	112.619	1.00	0.83	C
ATOM	10186	OD1	ASN	A1280	102.518	134.295	112.975	1.00	0.83	O
ATOM	10187	ND2	ASN	A1280	103.518	135.730	111.570	1.00	0.83	N
ATOM	10188	N	PRO	A1281	102.711	134.873	115.984	1.00	0.84	N
ATOM	10189	CA	PRO	A1281	101.832	134.051	116.819	1.00	0.84	C
ATOM	10190	C	PRO	A1281	101.673	132.607	116.358	1.00	0.84	C
ATOM	10191	O	PRO	A1281	101.485	131.719	117.188	1.00	0.84	O
ATOM	10192	CB	PRO	A1281	100.499	134.804	116.762	1.00	0.84	C
ATOM	10193	CG	PRO	A1281	100.906	136.268	116.604	1.00	0.84	C
ATOM	10194	CD	PRO	A1281	102.122	136.180	115.690	1.00	0.84	C



ATOM	10195	N	ALA	A1282	101.733	132.346	115.040	1.00	0.83	N
ATOM	10196	CA	ALA	A1282	101.778	131.013	114.486	1.00	0.83	C
ATOM	10197	C	ALA	A1282	103.232	130.734	114.132	1.00	0.83	C
ATOM	10198	O	ALA	A1282	103.892	131.576	113.534	1.00	0.83	O
ATOM	10199	CB	ALA	A1282	100.872	130.912	113.241	1.00	0.83	C
ATOM	10200	N	PHE	A1283	103.781	129.568	114.555	1.00	0.78	N
ATOM	10201	CA	PHE	A1283	105.187	129.211	114.370	1.00	0.78	C
ATOM	10202	C	PHE	A1283	106.106	129.894	115.410	1.00	0.78	C
ATOM	10203	O	PHE	A1283	107.307	130.057	115.228	1.00	0.78	O
ATOM	10204	CB	PHE	A1283	105.627	129.303	112.871	1.00	0.78	C
ATOM	10205	CG	PHE	A1283	106.948	128.660	112.568	1.00	0.78	C
ATOM	10206	CD1	PHE	A1283	108.090	129.464	112.435	1.00	0.78	C
ATOM	10207	CD2	PHE	A1283	107.063	127.271	112.394	1.00	0.78	C
ATOM	10208	CE1	PHE	A1283	109.336	128.896	112.165	1.00	0.78	C
ATOM	10209	CE2	PHE	A1283	108.310	126.696	112.110	1.00	0.78	C
ATOM	10210	CZ	PHE	A1283	109.444	127.513	111.998	1.00	0.78	C
ATOM	10211	N	ALA	A1284	105.553	130.246	116.591	1.00	0.86	N
ATOM	10212	CA	ALA	A1284	106.170	131.117	117.582	1.00	0.86	C
ATOM	10213	C	ALA	A1284	107.535	130.741	118.161	1.00	0.86	C
ATOM	10214	O	ALA	A1284	108.333	131.612	118.464	1.00	0.86	O
ATOM	10215	CB	ALA	A1284	105.179	131.329	118.746	1.00	0.86	C
ATOM	10216	N	GLY	A1285	107.840	129.448	118.387	1.00	0.85	N
ATOM	10217	CA	GLY	A1285	109.165	129.044	118.875	1.00	0.85	C
ATOM	10218	C	GLY	A1285	109.938	128.244	117.868	1.00	0.85	C
ATOM	10219	O	GLY	A1285	110.900	127.562	118.214	1.00	0.85	O
ATOM	10220	N	GLY	A1286	109.484	128.238	116.596	1.00	0.81	N
ATOM	10221	CA	GLY	A1286	109.930	127.263	115.601	1.00	0.81	C
ATOM	10222	C	GLY	A1286	111.242	127.558	114.931	1.00	0.81	C
ATOM	10223	O	GLY	A1286	111.790	126.719	114.222	1.00	0.81	O
ATOM	10224	N	ALA	A1287	111.790	128.756	115.150	1.00	0.77	N
ATOM	10225	CA	ALA	A1287	113.089	129.132	114.669	1.00	0.77	C
ATOM	10226	C	ALA	A1287	113.642	130.099	115.696	1.00	0.77	C
ATOM	10227	O	ALA	A1287	112.897	130.855	116.304	1.00	0.77	O
ATOM	10228	CB	ALA	A1287	112.988	129.782	113.272	1.00	0.77	C
ATOM	10229	N	GLY	A1288	114.964	130.071	115.967	1.00	0.80	N
ATOM	10230	CA	GLY	A1288	115.566	130.976	116.939	1.00	0.80	C
ATOM	10231	C	GLY	A1288	115.748	132.397	116.461	1.00	0.80	C
ATOM	10232	O	GLY	A1288	115.365	132.782	115.357	1.00	0.80	O
ATOM	10233	N	PHE	A1289	116.432	133.208	117.298	1.00	0.78	N
ATOM	10234	CA	PHE	A1289	116.583	134.653	117.199	1.00	0.78	C
ATOM	10235	C	PHE	A1289	117.037	135.173	115.826	1.00	0.78	C
ATOM	10236	O	PHE	A1289	116.602	136.226	115.364	1.00	0.78	O
ATOM	10237	CB	PHE	A1289	117.543	135.097	118.341	1.00	0.78	C
ATOM	10238	CG	PHE	A1289	117.631	136.591	118.483	1.00	0.78	C
ATOM	10239	CD1	PHE	A1289	116.510	137.346	118.867	1.00	0.78	C
ATOM	10240	CD2	PHE	A1289	118.847	137.248	118.236	1.00	0.78	C
ATOM	10241	CE1	PHE	A1289	116.601	138.738	118.989	1.00	0.78	C
ATOM	10242	CE2	PHE	A1289	118.940	138.641	118.348	1.00	0.78	C
ATOM	10243	CZ	PHE	A1289	117.815	139.386	118.726	1.00	0.78	C
ATOM	10244	N	ARG	A1290	117.874	134.409	115.096	1.00	0.72	N
ATOM	10245	CA	ARG	A1290	118.291	134.719	113.738	1.00	0.72	C
ATOM	10246	C	ARG	A1290	117.168	134.885	112.709	1.00	0.72	C
ATOM	10247	O	ARG	A1290	117.272	135.747	111.837	1.00	0.72	O
ATOM	10248	CB	ARG	A1290	119.314	133.672	113.219	1.00	0.72	C
ATOM	10249	CG	ARG	A1290	120.789	134.100	113.376	1.00	0.72	C
ATOM	10250	CD	ARG	A1290	121.164	135.325	112.525	1.00	0.72	C
ATOM	10251	NE	ARG	A1290	122.641	135.486	112.618	1.00	0.72	N
ATOM	10252	CZ	ARG	A1290	123.408	136.259	111.838	1.00	0.72	C
ATOM	10253	NH1	ARG	A1290	122.918	137.056	110.899	1.00	0.72	N
ATOM	10254	NH2	ARG	A1290	124.725	136.208	112.019	1.00	0.72	N
ATOM	10255	N	PHE	A1291	116.069	134.098	112.784	1.00	0.78	N
ATOM	10256	CA	PHE	A1291	114.887	134.262	111.937	1.00	0.78	C
ATOM	10257	C	PHE	A1291	114.217	135.613	112.179	1.00	0.78	C
ATOM	10258	O	PHE	A1291	113.822	136.337	111.266	1.00	0.78	O
ATOM	10259	CB	PHE	A1291	113.878	133.113	112.242	1.00	0.78	C

ATOM	10260	CG	PHE	A1291	112.620	133.169	111.401	1.00	0.78	C
ATOM	10261	CD1	PHE	A1291	111.414	133.659	111.935	1.00	0.78	C
ATOM	10262	CD2	PHE	A1291	112.636	132.726	110.071	1.00	0.78	C
ATOM	10263	CE1	PHE	A1291	110.252	133.711	111.151	1.00	0.78	C
ATOM	10264	CE2	PHE	A1291	111.479	132.774	109.283	1.00	0.78	C
ATOM	10265	CZ	PHE	A1291	110.286	133.268	109.823	1.00	0.78	C
ATOM	10266	N	ASN	A1292	114.102	135.979	113.464	1.00	0.83	N
ATOM	10267	CA	ASN	A1292	113.504	137.212	113.938	1.00	0.83	C
ATOM	10268	C	ASN	A1292	114.306	138.435	113.568	1.00	0.83	C
ATOM	10269	O	ASN	A1292	113.751	139.438	113.129	1.00	0.83	O
ATOM	10270	CB	ASN	A1292	113.295	137.136	115.467	1.00	0.83	C
ATOM	10271	CG	ASN	A1292	112.365	135.956	115.694	1.00	0.83	C
ATOM	10272	OD1	ASN	A1292	111.506	135.721	114.835	1.00	0.83	O
ATOM	10273	ND2	ASN	A1292	112.519	135.219	116.805	1.00	0.83	N
ATOM	10274	N	LEU	A1293	115.639	138.346	113.702	1.00	0.83	N
ATOM	10275	CA	LEU	A1293	116.590	139.344	113.259	1.00	0.83	C
ATOM	10276	C	LEU	A1293	116.603	139.547	111.744	1.00	0.83	C
ATOM	10277	O	LEU	A1293	116.678	140.670	111.255	1.00	0.83	O
ATOM	10278	CB	LEU	A1293	117.997	138.961	113.778	1.00	0.83	C
ATOM	10279	CG	LEU	A1293	119.055	140.080	113.695	1.00	0.83	C
ATOM	10280	CD1	LEU	A1293	118.685	141.284	114.577	1.00	0.83	C
ATOM	10281	CD2	LEU	A1293	120.431	139.540	114.110	1.00	0.83	C
ATOM	10282	N	TRP	A1294	116.496	138.461	110.943	1.00	0.78	N
ATOM	10283	CA	TRP	A1294	116.315	138.559	109.498	1.00	0.78	C
ATOM	10284	C	TRP	A1294	115.023	139.270	109.125	1.00	0.78	C
ATOM	10285	O	TRP	A1294	114.998	140.202	108.324	1.00	0.78	O
ATOM	10286	CB	TRP	A1294	116.291	137.129	108.881	1.00	0.78	C
ATOM	10287	CG	TRP	A1294	116.039	137.036	107.381	1.00	0.78	C
ATOM	10288	CD1	TRP	A1294	116.889	137.300	106.346	1.00	0.78	C
ATOM	10289	CD2	TRP	A1294	114.786	136.643	106.787	1.00	0.78	C
ATOM	10290	NE1	TRP	A1294	116.261	137.049	105.150	1.00	0.78	N
ATOM	10291	CE2	TRP	A1294	114.979	136.647	105.390	1.00	0.78	C
ATOM	10292	CE3	TRP	A1294	113.554	136.294	107.336	1.00	0.78	C
ATOM	10293	CZ2	TRP	A1294	113.956	136.294	104.524	1.00	0.78	C
ATOM	10294	CZ3	TRP	A1294	112.512	135.952	106.458	1.00	0.78	C
ATOM	10295	CH2	TRP	A1294	112.712	135.947	105.068	1.00	0.78	C
ATOM	10296	N	ARG	A1295	113.912	138.854	109.751	1.00	0.77	N
ATOM	10297	CA	ARG	A1295	112.602	139.404	109.508	1.00	0.77	C
ATOM	10298	C	ARG	A1295	112.453	140.861	109.929	1.00	0.77	C
ATOM	10299	O	ARG	A1295	111.886	141.666	109.197	1.00	0.77	O
ATOM	10300	CB	ARG	A1295	111.569	138.487	110.196	1.00	0.77	C
ATOM	10301	CG	ARG	A1295	110.099	138.876	109.965	1.00	0.77	C
ATOM	10302	CD	ARG	A1295	109.087	137.785	110.337	1.00	0.77	C
ATOM	10303	NE	ARG	A1295	109.453	137.210	111.683	1.00	0.77	N
ATOM	10304	CZ	ARG	A1295	108.991	137.621	112.870	1.00	0.77	C
ATOM	10305	NH1	ARG	A1295	108.159	138.643	113.010	1.00	0.77	N
ATOM	10306	NH2	ARG	A1295	109.384	137.035	113.993	1.00	0.77	N
ATOM	10307	N	SER	A1296	112.985	141.266	111.101	1.00	0.85	N
ATOM	10308	CA	SER	A1296	112.950	142.657	111.541	1.00	0.85	C
ATOM	10309	C	SER	A1296	113.721	143.599	110.637	1.00	0.85	C
ATOM	10310	O	SER	A1296	113.243	144.683	110.310	1.00	0.85	O
ATOM	10311	CB	SER	A1296	113.427	142.854	113.009	1.00	0.85	C
ATOM	10312	OG	SER	A1296	114.798	142.502	113.195	1.00	0.85	O
ATOM	10313	N	CYS	A1297	114.910	143.170	110.171	1.00	0.82	N
ATOM	10314	CA	CYS	A1297	115.825	143.936	109.341	1.00	0.82	C
ATOM	10315	C	CYS	A1297	115.224	144.405	108.021	1.00	0.82	C
ATOM	10316	O	CYS	A1297	115.460	145.526	107.572	1.00	0.82	O
ATOM	10317	CB	CYS	A1297	117.104	143.090	109.091	1.00	0.82	C
ATOM	10318	SG	CYS	A1297	118.541	144.036	108.492	1.00	0.82	S
ATOM	10319	N	LYS	A1298	114.401	143.559	107.370	1.00	0.75	N
ATOM	10320	CA	LYS	A1298	113.772	143.900	106.107	1.00	0.75	C
ATOM	10321	C	LYS	A1298	112.648	144.929	106.225	1.00	0.75	C
ATOM	10322	O	LYS	A1298	112.404	145.705	105.303	1.00	0.75	O
ATOM	10323	CB	LYS	A1298	113.305	142.616	105.367	1.00	0.75	C
ATOM	10324	CG	LYS	A1298	114.458	141.605	105.245	1.00	0.75	C

ATOM	10325	CD	LYS	A1298	114.593	140.857	103.908	1.00	0.75	C
ATOM	10326	CE	LYS	A1298	113.606	139.730	103.595	1.00	0.75	C
ATOM	10327	NZ	LYS	A1298	114.097	138.979	102.412	1.00	0.75	N
ATOM	10328	N	PHE	A1299	111.957	144.998	107.380	1.00	0.67	N
ATOM	10329	CA	PHE	A1299	110.814	145.878	107.555	1.00	0.67	C
ATOM	10330	C	PHE	A1299	111.160	147.139	108.341	1.00	0.67	C
ATOM	10331	O	PHE	A1299	110.839	148.255	107.924	1.00	0.67	O
ATOM	10332	CB	PHE	A1299	109.640	145.120	108.234	1.00	0.67	C
ATOM	10333	CG	PHE	A1299	109.072	144.088	107.285	1.00	0.67	C
ATOM	10334	CD1	PHE	A1299	108.335	144.483	106.154	1.00	0.67	C
ATOM	10335	CD2	PHE	A1299	109.261	142.715	107.514	1.00	0.67	C
ATOM	10336	CE1	PHE	A1299	107.806	143.529	105.272	1.00	0.67	C
ATOM	10337	CE2	PHE	A1299	108.753	141.757	106.627	1.00	0.67	C
ATOM	10338	CZ	PHE	A1299	108.020	142.165	105.507	1.00	0.67	C
ATOM	10339	N	THR	A1300	111.860	147.033	109.487	1.00	0.79	N
ATOM	10340	CA	THR	A1300	112.083	148.163	110.389	1.00	0.79	C
ATOM	10341	C	THR	A1300	113.260	149.027	109.958	1.00	0.79	C
ATOM	10342	O	THR	A1300	113.947	148.772	108.972	1.00	0.79	O
ATOM	10343	CB	THR	A1300	112.210	147.805	111.881	1.00	0.79	C
ATOM	10344	OG1	THR	A1300	113.479	147.262	112.221	1.00	0.79	O
ATOM	10345	CG2	THR	A1300	111.138	146.777	112.272	1.00	0.79	C
ATOM	10346	N	ASN	A1301	113.549	150.120	110.697	1.00	0.76	N
ATOM	10347	CA	ASN	A1301	114.718	150.954	110.440	1.00	0.76	C
ATOM	10348	C	ASN	A1301	116.061	150.278	110.727	1.00	0.76	C
ATOM	10349	O	ASN	A1301	117.112	150.835	110.415	1.00	0.76	O
ATOM	10350	CB	ASN	A1301	114.651	152.282	111.234	1.00	0.76	C
ATOM	10351	CG	ASN	A1301	113.614	153.198	110.597	1.00	0.76	C
ATOM	10352	OD1	ASN	A1301	113.523	153.312	109.370	1.00	0.76	O
ATOM	10353	ND2	ASN	A1301	112.824	153.895	111.446	1.00	0.76	N
ATOM	10354	N	LEU	A1302	116.066	149.044	111.274	1.00	0.76	N
ATOM	10355	CA	LEU	A1302	117.262	148.261	111.533	1.00	0.76	C
ATOM	10356	C	LEU	A1302	118.096	148.008	110.280	1.00	0.76	C
ATOM	10357	O	LEU	A1302	119.324	148.104	110.291	1.00	0.76	O
ATOM	10358	CB	LEU	A1302	116.847	146.920	112.178	1.00	0.76	C
ATOM	10359	CG	LEU	A1302	118.016	146.033	112.642	1.00	0.76	C
ATOM	10360	CD1	LEU	A1302	118.899	146.767	113.657	1.00	0.76	C
ATOM	10361	CD2	LEU	A1302	117.498	144.728	113.259	1.00	0.76	C
ATOM	10362	N	GLY	A1303	117.433	147.760	109.128	1.00	0.78	N
ATOM	10363	CA	GLY	A1303	118.102	147.616	107.840	1.00	0.78	C
ATOM	10364	C	GLY	A1303	118.872	148.825	107.358	1.00	0.78	C
ATOM	10365	O	GLY	A1303	119.868	148.679	106.662	1.00	0.78	O
ATOM	10366	N	LYS	A1304	118.463	150.057	107.731	1.00	0.69	N
ATOM	10367	CA	LYS	A1304	119.245	151.267	107.482	1.00	0.69	C
ATOM	10368	C	LYS	A1304	120.504	151.333	108.334	1.00	0.69	C
ATOM	10369	O	LYS	A1304	121.587	151.709	107.887	1.00	0.69	O
ATOM	10370	CB	LYS	A1304	118.426	152.550	107.771	1.00	0.69	C
ATOM	10371	CG	LYS	A1304	117.260	152.749	106.797	1.00	0.69	C
ATOM	10372	CD	LYS	A1304	116.522	154.076	107.027	1.00	0.69	C
ATOM	10373	CE	LYS	A1304	115.611	154.433	105.852	1.00	0.69	C
ATOM	10374	NZ	LYS	A1304	114.978	155.745	106.071	1.00	0.69	N
ATOM	10375	N	LYS	A1305	120.375	150.955	109.618	1.00	0.64	N
ATOM	10376	CA	LYS	A1305	121.456	150.954	110.582	1.00	0.64	C
ATOM	10377	C	LYS	A1305	122.565	149.971	110.220	1.00	0.64	C
ATOM	10378	O	LYS	A1305	123.744	150.324	110.242	1.00	0.64	O
ATOM	10379	CB	LYS	A1305	120.856	150.672	111.978	1.00	0.64	C
ATOM	10380	CG	LYS	A1305	121.755	151.007	113.177	1.00	0.64	C
ATOM	10381	CD	LYS	A1305	120.929	150.964	114.477	1.00	0.64	C
ATOM	10382	CE	LYS	A1305	121.653	151.470	115.728	1.00	0.64	C
ATOM	10383	NZ	LYS	A1305	120.788	151.301	116.901	1.00	0.64	N
ATOM	10384	N	TYR	A1306	122.174	148.746	109.804	1.00	0.68	N
ATOM	10385	CA	TYR	A1306	123.035	147.712	109.246	1.00	0.68	C
ATOM	10386	C	TYR	A1306	123.663	148.100	107.905	1.00	0.68	C
ATOM	10387	O	TYR	A1306	124.844	147.858	107.669	1.00	0.68	O
ATOM	10388	CB	TYR	A1306	122.245	146.379	109.076	1.00	0.68	C
ATOM	10389	CG	TYR	A1306	122.280	145.515	110.318	1.00	0.68	C

ATOM	10390	CD1	TYR	A1306	121.926	145.997	111.594	1.00	0.68	C
ATOM	10391	CD2	TYR	A1306	122.663	144.166	110.197	1.00	0.68	C
ATOM	10392	CE1	TYR	A1306	121.985	145.159	112.718	1.00	0.68	C
ATOM	10393	CE2	TYR	A1306	122.685	143.320	111.313	1.00	0.68	C
ATOM	10394	CZ	TYR	A1306	122.354	143.821	112.575	1.00	0.68	C
ATOM	10395	OH	TYR	A1306	122.393	142.983	113.705	1.00	0.68	O
ATOM	10396	N	ALA	A1307	122.901	148.736	106.988	1.00	0.69	N
ATOM	10397	CA	ALA	A1307	123.387	149.165	105.684	1.00	0.69	C
ATOM	10398	C	ALA	A1307	124.543	150.160	105.737	1.00	0.69	C
ATOM	10399	O	ALA	A1307	125.505	150.059	104.976	1.00	0.69	O
ATOM	10400	CB	ALA	A1307	122.235	149.779	104.874	1.00	0.69	C
ATOM	10401	N	PHE	A1308	124.496	151.117	106.689	1.00	0.60	N
ATOM	10402	CA	PHE	A1308	125.581	152.048	106.976	1.00	0.60	C
ATOM	10403	C	PHE	A1308	126.878	151.325	107.344	1.00	0.60	C
ATOM	10404	O	PHE	A1308	127.957	151.674	106.870	1.00	0.60	O
ATOM	10405	CB	PHE	A1308	125.132	152.997	108.132	1.00	0.60	C
ATOM	10406	CG	PHE	A1308	126.145	154.070	108.492	1.00	0.60	C
ATOM	10407	CD1	PHE	A1308	127.303	153.762	109.233	1.00	0.60	C
ATOM	10408	CD2	PHE	A1308	125.943	155.403	108.096	1.00	0.60	C
ATOM	10409	CE1	PHE	A1308	128.255	154.745	109.529	1.00	0.60	C
ATOM	10410	CE2	PHE	A1308	126.874	156.397	108.427	1.00	0.60	C
ATOM	10411	CZ	PHE	A1308	128.030	156.070	109.143	1.00	0.60	C
ATOM	10412	N	PHE	A1309	126.802	150.268	108.185	1.00	0.60	N
ATOM	10413	CA	PHE	A1309	127.958	149.485	108.593	1.00	0.60	C
ATOM	10414	C	PHE	A1309	128.650	148.827	107.408	1.00	0.60	C
ATOM	10415	O	PHE	A1309	129.873	148.781	107.337	1.00	0.60	O
ATOM	10416	CB	PHE	A1309	127.583	148.400	109.649	1.00	0.60	C
ATOM	10417	CG	PHE	A1309	127.062	148.946	110.964	1.00	0.60	C
ATOM	10418	CD1	PHE	A1309	127.548	150.137	111.538	1.00	0.60	C
ATOM	10419	CD2	PHE	A1309	126.153	148.172	111.710	1.00	0.60	C
ATOM	10420	CE1	PHE	A1309	127.129	150.546	112.811	1.00	0.60	C
ATOM	10421	CE2	PHE	A1309	125.732	148.575	112.984	1.00	0.60	C
ATOM	10422	CZ	PHE	A1309	126.219	149.766	113.535	1.00	0.60	C
ATOM	10423	N	PHE	A1310	127.886	148.330	106.416	1.00	0.59	N
ATOM	10424	CA	PHE	A1310	128.472	147.582	105.319	1.00	0.59	C
ATOM	10425	C	PHE	A1310	128.867	148.404	104.101	1.00	0.59	C
ATOM	10426	O	PHE	A1310	129.659	147.935	103.280	1.00	0.59	O
ATOM	10427	CB	PHE	A1310	127.536	146.422	104.905	1.00	0.59	C
ATOM	10428	CG	PHE	A1310	127.306	145.447	106.044	1.00	0.59	C
ATOM	10429	CD1	PHE	A1310	128.238	145.205	107.081	1.00	0.59	C
ATOM	10430	CD2	PHE	A1310	126.098	144.735	106.057	1.00	0.59	C
ATOM	10431	CE1	PHE	A1310	127.946	144.305	108.113	1.00	0.59	C
ATOM	10432	CE2	PHE	A1310	125.809	143.824	107.080	1.00	0.59	C
ATOM	10433	CZ	PHE	A1310	126.731	143.612	108.112	1.00	0.59	C
ATOM	10434	N	ASN	A1311	128.372	149.654	103.959	1.00	0.62	N
ATOM	10435	CA	ASN	A1311	128.572	150.415	102.731	1.00	0.62	C
ATOM	10436	C	ASN	A1311	129.349	151.719	102.870	1.00	0.62	C
ATOM	10437	O	ASN	A1311	129.614	152.371	101.863	1.00	0.62	O
ATOM	10438	CB	ASN	A1311	127.206	150.693	102.053	1.00	0.62	C
ATOM	10439	CG	ASN	A1311	126.643	149.374	101.526	1.00	0.62	C
ATOM	10440	OD1	ASN	A1311	127.384	148.527	101.022	1.00	0.62	O
ATOM	10441	ND2	ASN	A1311	125.308	149.185	101.626	1.00	0.62	N
ATOM	10442	N	GLU	A1312	129.797	152.114	104.076	1.00	0.56	N
ATOM	10443	CA	GLU	A1312	130.496	153.380	104.249	1.00	0.56	C
ATOM	10444	C	GLU	A1312	131.997	153.197	104.437	1.00	0.56	C
ATOM	10445	O	GLU	A1312	132.467	152.402	105.249	1.00	0.56	O
ATOM	10446	CB	GLU	A1312	129.932	154.160	105.457	1.00	0.56	C
ATOM	10447	CG	GLU	A1312	128.483	154.676	105.249	1.00	0.56	C
ATOM	10448	CD	GLU	A1312	128.377	155.865	104.290	1.00	0.56	C
ATOM	10449	OE1	GLU	A1312	128.432	157.017	104.801	1.00	0.56	O
ATOM	10450	OE2	GLU	A1312	128.212	155.658	103.054	1.00	0.56	O
ATOM	10451	N	ILE	A1313	132.803	153.972	103.681	1.00	0.45	N
ATOM	10452	CA	ILE	A1313	134.255	153.987	103.783	1.00	0.45	C
ATOM	10453	C	ILE	A1313	134.658	155.055	104.786	1.00	0.45	C
ATOM	10454	O	ILE	A1313	134.475	156.255	104.580	1.00	0.45	O

ATOM	10455	CB	ILE	A1313	134.924	154.226	102.426	1.00	0.45	C
ATOM	10456	CG1	ILE	A1313	134.565	153.055	101.474	1.00	0.45	C
ATOM	10457	CG2	ILE	A1313	136.457	154.368	102.590	1.00	0.45	C
ATOM	10458	CD1	ILE	A1313	135.221	153.131	100.089	1.00	0.45	C
ATOM	10459	N	GLN	A1314	135.244	154.645	105.926	1.00	0.46	N
ATOM	10460	CA	GLN	A1314	135.451	155.490	107.088	1.00	0.46	C
ATOM	10461	C	GLN	A1314	136.745	156.291	107.022	1.00	0.46	C
ATOM	10462	O	GLN	A1314	137.507	156.435	107.977	1.00	0.46	O
ATOM	10463	CB	GLN	A1314	135.343	154.649	108.383	1.00	0.46	C
ATOM	10464	CG	GLN	A1314	133.928	154.047	108.601	1.00	0.46	C
ATOM	10465	CD	GLN	A1314	132.870	155.137	108.798	1.00	0.46	C
ATOM	10466	OE1	GLN	A1314	133.159	156.245	109.251	1.00	0.46	O
ATOM	10467	NE2	GLN	A1314	131.599	154.826	108.463	1.00	0.46	N
ATOM	10468	N	GLY	A1315	136.998	156.901	105.848	1.00	0.40	N
ATOM	10469	CA	GLY	A1315	138.050	157.890	105.693	1.00	0.40	C
ATOM	10470	C	GLY	A1315	137.646	159.222	106.260	1.00	0.40	C
ATOM	10471	O	GLY	A1315	138.420	159.839	106.979	1.00	0.40	O
ATOM	10472	N	LYS	A1316	136.413	159.690	105.949	1.00	0.40	N
ATOM	10473	CA	LYS	A1316	135.742	160.865	106.515	1.00	0.40	C
ATOM	10474	C	LYS	A1316	136.591	162.107	106.823	1.00	0.40	C
ATOM	10475	O	LYS	A1316	136.357	162.798	107.813	1.00	0.40	O
ATOM	10476	CB	LYS	A1316	134.890	160.430	107.742	1.00	0.40	C
ATOM	10477	CG	LYS	A1316	133.450	159.982	107.426	1.00	0.40	C
ATOM	10478	CD	LYS	A1316	132.555	161.079	106.811	1.00	0.40	C
ATOM	10479	CE	LYS	A1316	132.496	162.401	107.587	1.00	0.40	C
ATOM	10480	NZ	LYS	A1316	131.970	162.161	108.946	1.00	0.40	N
ATOM	10481	N	THR	A1317	137.601	162.383	105.966	1.00	0.42	N
ATOM	10482	CA	THR	A1317	138.633	163.423	106.096	1.00	0.42	C
ATOM	10483	C	THR	A1317	139.413	163.432	107.407	1.00	0.42	C
ATOM	10484	O	THR	A1317	140.062	164.420	107.738	1.00	0.42	O
ATOM	10485	CB	THR	A1317	138.228	164.842	105.681	1.00	0.42	C
ATOM	10486	OG1	THR	A1317	137.206	165.398	106.497	1.00	0.42	O
ATOM	10487	CG2	THR	A1317	137.675	164.812	104.249	1.00	0.42	C
ATOM	10488	N	LYS	A1318	139.391	162.303	108.157	1.00	0.42	N
ATOM	10489	CA	LYS	A1318	139.877	162.151	109.525	1.00	0.42	C
ATOM	10490	C	LYS	A1318	139.268	163.149	110.514	1.00	0.42	C
ATOM	10491	O	LYS	A1318	139.944	163.656	111.406	1.00	0.42	O
ATOM	10492	CB	LYS	A1318	141.431	162.114	109.628	1.00	0.42	C
ATOM	10493	CG	LYS	A1318	142.122	160.929	108.914	1.00	0.42	C
ATOM	10494	CD	LYS	A1318	141.787	159.544	109.522	1.00	0.42	C
ATOM	10495	CE	LYS	A1318	141.083	158.589	108.540	1.00	0.42	C
ATOM	10496	NZ	LYS	A1318	140.244	157.568	109.215	1.00	0.42	N
ATOM	10497	N	GLY	A1319	137.951	163.432	110.383	1.00	0.45	N
ATOM	10498	CA	GLY	A1319	137.214	164.263	111.332	1.00	0.45	C
ATOM	10499	C	GLY	A1319	136.484	163.443	112.364	1.00	0.45	C
ATOM	10500	O	GLY	A1319	136.322	162.238	112.195	1.00	0.45	O
ATOM	10501	N	ASP	A1320	135.958	164.107	113.419	1.00	0.45	N
ATOM	10502	CA	ASP	A1320	135.356	163.563	114.638	1.00	0.45	C
ATOM	10503	C	ASP	A1320	134.053	162.762	114.472	1.00	0.45	C
ATOM	10504	O	ASP	A1320	133.086	162.896	115.223	1.00	0.45	O
ATOM	10505	CB	ASP	A1320	135.072	164.744	115.608	1.00	0.45	C
ATOM	10506	CG	ASP	A1320	136.318	165.548	115.946	1.00	0.45	C
ATOM	10507	OD1	ASP	A1320	137.445	165.030	115.760	1.00	0.45	O
ATOM	10508	OD2	ASP	A1320	136.134	166.711	116.382	1.00	0.45	O
ATOM	10509	N	ALA	A1321	134.012	161.880	113.469	1.00	0.53	N
ATOM	10510	CA	ALA	A1321	132.857	161.137	113.051	1.00	0.53	C
ATOM	10511	C	ALA	A1321	133.259	160.182	111.940	1.00	0.53	C
ATOM	10512	O	ALA	A1321	132.536	160.034	110.947	1.00	0.53	O
ATOM	10513	CB	ALA	A1321	131.715	162.057	112.560	1.00	0.53	C
ATOM	10514	N	ASP	A1322	134.439	159.541	112.072	1.00	0.44	N
ATOM	10515	CA	ASP	A1322	134.740	158.281	111.445	1.00	0.44	C
ATOM	10516	C	ASP	A1322	134.499	157.141	112.441	1.00	0.44	C
ATOM	10517	O	ASP	A1322	134.230	157.338	113.627	1.00	0.44	O
ATOM	10518	CB	ASP	A1322	136.122	158.271	110.729	1.00	0.44	C
ATOM	10519	CG	ASP	A1322	137.340	158.602	111.596	1.00	0.44	C

ATOM	10520	OD1	ASP	A1322	137.203	158.716	112.831	1.00	0.44	O
ATOM	10521	OD2	ASP	A1322	138.437	158.726	110.978	1.00	0.44	O
ATOM	10522	N	TYR	A1323	134.436	155.910	111.906	1.00	0.49	N
ATOM	10523	CA	TYR	A1323	134.259	154.626	112.576	1.00	0.49	C
ATOM	10524	C	TYR	A1323	132.898	154.383	113.248	1.00	0.49	C
ATOM	10525	O	TYR	A1323	132.397	153.263	113.232	1.00	0.49	O
ATOM	10526	CB	TYR	A1323	135.437	154.293	113.545	1.00	0.49	C
ATOM	10527	CG	TYR	A1323	136.806	154.497	112.920	1.00	0.49	C
ATOM	10528	CD1	TYR	A1323	137.115	154.069	111.615	1.00	0.49	C
ATOM	10529	CD2	TYR	A1323	137.816	155.134	113.664	1.00	0.49	C
ATOM	10530	CE1	TYR	A1323	138.384	154.296	111.058	1.00	0.49	C
ATOM	10531	CE2	TYR	A1323	139.086	155.361	113.112	1.00	0.49	C
ATOM	10532	CZ	TYR	A1323	139.366	154.954	111.802	1.00	0.49	C
ATOM	10533	OH	TYR	A1323	140.646	155.188	111.250	1.00	0.49	O
ATOM	10534	N	ARG	A1324	132.222	155.431	113.766	1.00	0.48	N
ATOM	10535	CA	ARG	A1324	130.851	155.440	114.269	1.00	0.48	C
ATOM	10536	C	ARG	A1324	130.591	154.593	115.516	1.00	0.48	C
ATOM	10537	O	ARG	A1324	130.684	155.056	116.650	1.00	0.48	O
ATOM	10538	CB	ARG	A1324	129.830	155.085	113.151	1.00	0.48	C
ATOM	10539	CG	ARG	A1324	128.369	155.447	113.489	1.00	0.48	C
ATOM	10540	CD	ARG	A1324	127.348	154.467	112.905	1.00	0.48	C
ATOM	10541	NE	ARG	A1324	126.116	155.258	112.613	1.00	0.48	N
ATOM	10542	CZ	ARG	A1324	125.039	154.786	111.978	1.00	0.48	C
ATOM	10543	NH1	ARG	A1324	124.903	153.502	111.662	1.00	0.48	N
ATOM	10544	NH2	ARG	A1324	124.076	155.642	111.653	1.00	0.48	N
ATOM	10545	N	ALA	A1325	130.243	153.312	115.315	1.00	0.60	N
ATOM	10546	CA	ALA	A1325	130.105	152.317	116.338	1.00	0.60	C
ATOM	10547	C	ALA	A1325	131.102	151.274	115.918	1.00	0.60	C
ATOM	10548	O	ALA	A1325	130.965	150.700	114.844	1.00	0.60	O
ATOM	10549	CB	ALA	A1325	128.696	151.688	116.333	1.00	0.60	C
ATOM	10550	N	LEU	A1326	132.155	151.041	116.721	1.00	0.59	N
ATOM	10551	CA	LEU	A1326	133.164	150.056	116.385	1.00	0.59	C
ATOM	10552	C	LEU	A1326	132.599	148.650	116.289	1.00	0.59	C
ATOM	10553	O	LEU	A1326	131.944	148.201	117.236	1.00	0.59	O
ATOM	10554	CB	LEU	A1326	134.252	149.975	117.474	1.00	0.59	C
ATOM	10555	CG	LEU	A1326	134.924	151.288	117.889	1.00	0.59	C
ATOM	10556	CD1	LEU	A1326	135.851	150.961	119.062	1.00	0.59	C
ATOM	10557	CD2	LEU	A1326	135.711	151.925	116.738	1.00	0.59	C
ATOM	10558	N	ASP	A1327	132.889	147.944	115.178	1.00	0.63	N
ATOM	10559	CA	ASP	A1327	132.435	146.594	114.919	1.00	0.63	C
ATOM	10560	C	ASP	A1327	132.825	145.594	116.011	1.00	0.63	C
ATOM	10561	O	ASP	A1327	133.995	145.307	116.275	1.00	0.63	O
ATOM	10562	CB	ASP	A1327	132.976	146.107	113.545	1.00	0.63	C
ATOM	10563	CG	ASP	A1327	132.030	146.349	112.374	1.00	0.63	C
ATOM	10564	OD1	ASP	A1327	130.851	146.707	112.608	1.00	0.63	O
ATOM	10565	OD2	ASP	A1327	132.482	146.113	111.223	1.00	0.63	O
ATOM	10566	N	ALA	A1328	131.805	145.026	116.674	1.00	0.68	N
ATOM	10567	CA	ALA	A1328	131.965	143.997	117.662	1.00	0.68	C
ATOM	10568	C	ALA	A1328	130.805	143.036	117.509	1.00	0.68	C
ATOM	10569	O	ALA	A1328	129.674	143.428	117.233	1.00	0.68	O
ATOM	10570	CB	ALA	A1328	131.970	144.598	119.081	1.00	0.68	C
ATOM	10571	N	THR	A1329	131.061	141.725	117.645	1.00	0.62	N
ATOM	10572	CA	THR	A1329	130.047	140.698	117.472	1.00	0.62	C
ATOM	10573	C	THR	A1329	129.909	139.909	118.747	1.00	0.62	C
ATOM	10574	O	THR	A1329	130.888	139.570	119.410	1.00	0.62	O
ATOM	10575	CB	THR	A1329	130.309	139.750	116.309	1.00	0.62	C
ATOM	10576	OG1	THR	A1329	131.601	139.172	116.396	1.00	0.62	O
ATOM	10577	CG2	THR	A1329	130.272	140.547	115.004	1.00	0.62	C
ATOM	10578	N	THR	A1330	128.653	139.630	119.134	1.00	0.64	N
ATOM	10579	CA	THR	A1330	128.328	138.922	120.363	1.00	0.64	C
ATOM	10580	C	THR	A1330	127.290	137.890	120.020	1.00	0.64	C
ATOM	10581	O	THR	A1330	126.194	138.230	119.582	1.00	0.64	O
ATOM	10582	CB	THR	A1330	127.709	139.797	121.451	1.00	0.64	C
ATOM	10583	OG1	THR	A1330	128.565	140.879	121.775	1.00	0.64	O
ATOM	10584	CG2	THR	A1330	127.525	139.000	122.752	1.00	0.64	C

ATOM	10585	N	GLY	A1331	127.576	136.586	120.219	1.00	0.64	N
ATOM	10586	CA	GLY	A1331	126.648	135.521	119.832	1.00	0.64	C
ATOM	10587	C	GLY	A1331	126.417	135.467	118.342	1.00	0.64	C
ATOM	10588	O	GLY	A1331	127.361	135.305	117.580	1.00	0.64	O
ATOM	10589	N	GLY	A1332	125.160	135.599	117.876	1.00	0.61	N
ATOM	10590	CA	GLY	A1332	124.872	135.672	116.448	1.00	0.61	C
ATOM	10591	C	GLY	A1332	124.719	137.067	115.904	1.00	0.61	C
ATOM	10592	O	GLY	A1332	124.390	137.225	114.729	1.00	0.61	O
ATOM	10593	N	THR	A1333	124.922	138.112	116.727	1.00	0.69	N
ATOM	10594	CA	THR	A1333	124.538	139.487	116.409	1.00	0.69	C
ATOM	10595	C	THR	A1333	125.720	140.440	116.549	1.00	0.69	C
ATOM	10596	O	THR	A1333	126.793	140.077	117.026	1.00	0.69	O
ATOM	10597	CB	THR	A1333	123.320	139.945	117.221	1.00	0.69	C
ATOM	10598	OG1	THR	A1333	122.843	141.220	116.810	1.00	0.69	O
ATOM	10599	CG2	THR	A1333	123.611	139.993	118.727	1.00	0.69	C
ATOM	10600	N	LEU	A1334	125.575	141.690	116.068	1.00	0.69	N
ATOM	10601	CA	LEU	A1334	126.649	142.659	115.972	1.00	0.69	C
ATOM	10602	C	LEU	A1334	126.216	143.988	116.547	1.00	0.69	C
ATOM	10603	O	LEU	A1334	125.075	144.417	116.405	1.00	0.69	O
ATOM	10604	CB	LEU	A1334	127.241	142.820	114.546	1.00	0.69	C
ATOM	10605	CG	LEU	A1334	126.296	143.198	113.390	1.00	0.69	C
ATOM	10606	CD1	LEU	A1334	127.090	143.955	112.313	1.00	0.69	C
ATOM	10607	CD2	LEU	A1334	125.663	141.947	112.755	1.00	0.69	C
ATOM	10608	N	SER	A1335	127.122	144.640	117.293	1.00	0.71	N
ATOM	10609	CA	SER	A1335	126.790	145.797	118.096	1.00	0.71	C
ATOM	10610	C	SER	A1335	128.033	146.600	118.419	1.00	0.71	C
ATOM	10611	O	SER	A1335	129.120	146.368	117.900	1.00	0.71	O
ATOM	10612	CB	SER	A1335	125.953	145.472	119.370	1.00	0.71	C
ATOM	10613	OG	SER	A1335	126.720	144.853	120.406	1.00	0.71	O
ATOM	10614	N	HIS	A1336	127.876	147.643	119.249	1.00	0.60	N
ATOM	10615	CA	HIS	A1336	128.889	148.636	119.514	1.00	0.60	C
ATOM	10616	C	HIS	A1336	129.841	148.160	120.603	1.00	0.60	C
ATOM	10617	O	HIS	A1336	129.413	147.730	121.674	1.00	0.60	O
ATOM	10618	CB	HIS	A1336	128.248	149.960	120.014	1.00	0.60	C
ATOM	10619	CG	HIS	A1336	127.024	150.449	119.286	1.00	0.60	C
ATOM	10620	ND1	HIS	A1336	126.871	151.813	119.139	1.00	0.60	N
ATOM	10621	CD2	HIS	A1336	125.873	149.814	118.925	1.00	0.60	C
ATOM	10622	CE1	HIS	A1336	125.644	151.981	118.691	1.00	0.60	C
ATOM	10623	NE2	HIS	A1336	124.995	150.802	118.543	1.00	0.60	N
ATOM	10624	N	SER	A1337	131.168	148.273	120.381	1.00	0.49	N
ATOM	10625	CA	SER	A1337	132.220	147.806	121.296	1.00	0.49	C
ATOM	10626	C	SER	A1337	132.173	148.312	122.747	1.00	0.49	C
ATOM	10627	O	SER	A1337	132.741	147.712	123.653	1.00	0.49	O
ATOM	10628	CB	SER	A1337	133.612	148.094	120.675	1.00	0.49	C
ATOM	10629	OG	SER	A1337	134.686	147.440	121.349	1.00	0.49	O
ATOM	10630	N	VAL	A1338	131.416	149.392	123.047	1.00	0.44	N
ATOM	10631	CA	VAL	A1338	131.155	149.862	124.406	1.00	0.44	C
ATOM	10632	C	VAL	A1338	130.553	148.797	125.327	1.00	0.44	C
ATOM	10633	O	VAL	A1338	130.919	148.709	126.498	1.00	0.44	O
ATOM	10634	CB	VAL	A1338	130.290	151.135	124.403	1.00	0.44	C
ATOM	10635	CG1	VAL	A1338	129.010	150.963	123.562	1.00	0.44	C
ATOM	10636	CG2	VAL	A1338	129.921	151.598	125.831	1.00	0.44	C
ATOM	10637	N	MET	A1339	129.634	147.949	124.817	1.00	0.49	N
ATOM	10638	CA	MET	A1339	128.996	146.904	125.598	1.00	0.49	C
ATOM	10639	C	MET	A1339	129.915	145.734	125.944	1.00	0.49	C
ATOM	10640	O	MET	A1339	129.907	145.232	127.062	1.00	0.49	O
ATOM	10641	CB	MET	A1339	127.728	146.362	124.883	1.00	0.49	C
ATOM	10642	CG	MET	A1339	126.775	147.450	124.337	1.00	0.49	C
ATOM	10643	SD	MET	A1339	126.272	148.699	125.557	1.00	0.49	S
ATOM	10644	CE	MET	A1339	125.241	149.650	124.404	1.00	0.49	C
ATOM	10645	N	ILE	A1340	130.750	145.277	124.985	1.00	0.54	N
ATOM	10646	CA	ILE	A1340	131.525	144.043	125.107	1.00	0.54	C
ATOM	10647	C	ILE	A1340	132.876	144.275	125.781	1.00	0.54	C
ATOM	10648	O	ILE	A1340	133.616	143.352	126.102	1.00	0.54	O
ATOM	10649	CB	ILE	A1340	131.709	143.399	123.723	1.00	0.54	C

ATOM	10650	CG1	ILE	A1340	132.065	141.892	123.818	1.00	0.54	C
ATOM	10651	CG2	ILE	A1340	132.733	144.192	122.878	1.00	0.54	C
ATOM	10652	CD1	ILE	A1340	132.112	141.176	122.461	1.00	0.54	C
ATOM	10653	N	TYR	A1341	133.225	145.549	126.049	1.00	0.40	N
ATOM	10654	CA	TYR	A1341	134.473	145.917	126.693	1.00	0.40	C
ATOM	10655	C	TYR	A1341	134.241	146.282	128.163	1.00	0.40	C
ATOM	10656	O	TYR	A1341	135.089	146.869	128.833	1.00	0.40	O
ATOM	10657	CB	TYR	A1341	135.110	147.090	125.891	1.00	0.40	C
ATOM	10658	CG	TYR	A1341	136.614	147.253	125.987	1.00	0.40	C
ATOM	10659	CD1	TYR	A1341	137.507	146.243	126.405	1.00	0.40	C
ATOM	10660	CD2	TYR	A1341	137.150	148.475	125.545	1.00	0.40	C
ATOM	10661	CE1	TYR	A1341	138.893	146.457	126.375	1.00	0.40	C
ATOM	10662	CE2	TYR	A1341	138.535	148.694	125.522	1.00	0.40	C
ATOM	10663	CZ	TYR	A1341	139.405	147.678	125.932	1.00	0.40	C
ATOM	10664	OH	TYR	A1341	140.801	147.871	125.893	1.00	0.40	O
ATOM	10665	N	TRP	A1342	133.058	145.929	128.713	1.00	0.36	N
ATOM	10666	CA	TRP	A1342	132.780	145.986	130.138	1.00	0.36	C
ATOM	10667	C	TRP	A1342	133.371	144.754	130.854	1.00	0.36	C
ATOM	10668	O	TRP	A1342	133.821	143.815	130.216	1.00	0.36	O
ATOM	10669	CB	TRP	A1342	131.245	146.161	130.390	1.00	0.36	C
ATOM	10670	CG	TRP	A1342	130.848	146.261	131.860	1.00	0.36	C
ATOM	10671	CD1	TRP	A1342	131.384	147.069	132.825	1.00	0.36	C
ATOM	10672	CD2	TRP	A1342	130.106	145.243	132.557	1.00	0.36	C
ATOM	10673	NE1	TRP	A1342	131.110	146.556	134.075	1.00	0.36	N
ATOM	10674	CE2	TRP	A1342	130.336	145.432	133.932	1.00	0.36	C
ATOM	10675	CE3	TRP	A1342	129.337	144.180	132.104	1.00	0.36	C
ATOM	10676	CZ2	TRP	A1342	129.830	144.542	134.869	1.00	0.36	C
ATOM	10677	CZ3	TRP	A1342	128.774	143.315	133.055	1.00	0.36	C
ATOM	10678	CH2	TRP	A1342	129.027	143.485	134.421	1.00	0.36	C
ATOM	10679	N	GLY	A1343	133.414	144.747	132.211	1.00	0.54	N
ATOM	10680	CA	GLY	A1343	133.812	143.602	133.031	1.00	0.54	C
ATOM	10681	C	GLY	A1343	135.277	143.586	133.394	1.00	0.54	C
ATOM	10682	O	GLY	A1343	136.149	143.626	132.527	1.00	0.54	O
ATOM	10683	N	ASP	A1344	135.611	143.496	134.708	1.00	0.58	N
ATOM	10684	CA	ASP	A1344	136.996	143.461	135.154	1.00	0.58	C
ATOM	10685	C	ASP	A1344	137.807	142.279	134.604	1.00	0.58	C
ATOM	10686	O	ASP	A1344	137.334	141.150	134.460	1.00	0.58	O
ATOM	10687	CB	ASP	A1344	137.160	143.568	136.705	1.00	0.58	C
ATOM	10688	CG	ASP	A1344	138.646	143.649	137.050	1.00	0.58	C
ATOM	10689	OD1	ASP	A1344	139.324	144.529	136.458	1.00	0.58	O
ATOM	10690	OD2	ASP	A1344	139.158	142.713	137.712	1.00	0.58	O
ATOM	10691	N	ARG	A1345	139.088	142.588	134.342	1.00	0.51	N
ATOM	10692	CA	ARG	A1345	140.116	141.752	133.785	1.00	0.51	C
ATOM	10693	C	ARG	A1345	141.467	142.224	134.346	1.00	0.51	C
ATOM	10694	O	ARG	A1345	142.518	141.874	133.805	1.00	0.51	O
ATOM	10695	CB	ARG	A1345	140.141	141.919	132.237	1.00	0.51	C
ATOM	10696	CG	ARG	A1345	138.948	141.301	131.466	1.00	0.51	C
ATOM	10697	CD	ARG	A1345	138.572	142.106	130.214	1.00	0.51	C
ATOM	10698	NE	ARG	A1345	137.697	141.270	129.331	1.00	0.51	N
ATOM	10699	CZ	ARG	A1345	136.359	141.210	129.366	1.00	0.51	C
ATOM	10700	NH1	ARG	A1345	135.619	141.692	130.351	1.00	0.51	N
ATOM	10701	NH2	ARG	A1345	135.731	140.685	128.317	1.00	0.51	N
ATOM	10702	N	ARG	A1346	141.507	143.054	135.429	1.00	0.61	N
ATOM	10703	CA	ARG	A1346	142.742	143.645	135.944	1.00	0.61	C
ATOM	10704	C	ARG	A1346	143.749	142.637	136.457	1.00	0.61	C
ATOM	10705	O	ARG	A1346	144.938	142.731	136.156	1.00	0.61	O
ATOM	10706	CB	ARG	A1346	142.515	144.695	137.060	1.00	0.61	C
ATOM	10707	CG	ARG	A1346	143.784	145.470	137.516	1.00	0.61	C
ATOM	10708	CD	ARG	A1346	144.429	146.329	136.421	1.00	0.61	C
ATOM	10709	NE	ARG	A1346	145.470	147.198	137.066	1.00	0.61	N
ATOM	10710	CZ	ARG	A1346	146.528	147.717	136.430	1.00	0.61	C
ATOM	10711	NH1	ARG	A1346	146.798	147.401	135.165	1.00	0.61	N
ATOM	10712	NH2	ARG	A1346	147.309	148.587	137.065	1.00	0.61	N
ATOM	10713	N	LYS	A1347	143.300	141.611	137.210	1.00	0.64	N
ATOM	10714	CA	LYS	A1347	144.175	140.551	137.690	1.00	0.64	C



ATOM	10715	C	LYS	A1347	144.847	139.786	136.566	1.00	0.64	C
ATOM	10716	O	LYS	A1347	146.035	139.486	136.637	1.00	0.64	O
ATOM	10717	CB	LYS	A1347	143.414	139.488	138.512	1.00	0.64	C
ATOM	10718	CG	LYS	A1347	143.036	139.896	139.940	1.00	0.64	C
ATOM	10719	CD	LYS	A1347	142.387	138.697	140.651	1.00	0.64	C
ATOM	10720	CE	LYS	A1347	142.285	138.846	142.167	1.00	0.64	C
ATOM	10721	NZ	LYS	A1347	141.764	137.585	142.734	1.00	0.64	N
ATOM	10722	N	TYR	A1348	144.092	139.453	135.504	1.00	0.62	N
ATOM	10723	CA	TYR	A1348	144.613	138.720	134.369	1.00	0.62	C
ATOM	10724	C	TYR	A1348	145.644	139.492	133.566	1.00	0.62	C
ATOM	10725	O	TYR	A1348	146.714	138.976	133.272	1.00	0.62	O
ATOM	10726	CB	TYR	A1348	143.489	138.306	133.395	1.00	0.62	C
ATOM	10727	CG	TYR	A1348	142.389	137.489	134.013	1.00	0.62	C
ATOM	10728	CD1	TYR	A1348	142.621	136.524	135.012	1.00	0.62	C
ATOM	10729	CD2	TYR	A1348	141.086	137.643	133.509	1.00	0.62	C
ATOM	10730	CE1	TYR	A1348	141.563	135.748	135.507	1.00	0.62	C
ATOM	10731	CE2	TYR	A1348	140.035	136.856	133.991	1.00	0.62	C
ATOM	10732	CZ	TYR	A1348	140.273	135.916	134.996	1.00	0.62	C
ATOM	10733	OH	TYR	A1348	139.214	135.141	135.499	1.00	0.62	O
ATOM	10734	N	GLN	A1349	145.381	140.773	133.228	1.00	0.66	N
ATOM	10735	CA	GLN	A1349	146.366	141.610	132.553	1.00	0.66	C
ATOM	10736	C	GLN	A1349	147.582	141.900	133.423	1.00	0.66	C
ATOM	10737	O	GLN	A1349	148.707	141.858	132.950	1.00	0.66	O
ATOM	10738	CB	GLN	A1349	145.736	142.889	131.943	1.00	0.66	C
ATOM	10739	CG	GLN	A1349	145.148	143.868	132.978	1.00	0.66	C
ATOM	10740	CD	GLN	A1349	144.214	144.896	132.343	1.00	0.66	C
ATOM	10741	OE1	GLN	A1349	144.610	146.014	132.024	1.00	0.66	O
ATOM	10742	NE2	GLN	A1349	142.920	144.526	132.202	1.00	0.66	N
ATOM	10743	N	HIS	A1350	147.402	142.111	134.746	1.00	0.67	N
ATOM	10744	CA	HIS	A1350	148.507	142.210	135.690	1.00	0.67	C
ATOM	10745	C	HIS	A1350	149.339	140.930	135.768	1.00	0.67	C
ATOM	10746	O	HIS	A1350	150.558	140.973	135.856	1.00	0.67	O
ATOM	10747	CB	HIS	A1350	147.990	142.619	137.091	1.00	0.67	C
ATOM	10748	CG	HIS	A1350	149.042	143.114	138.039	1.00	0.67	C
ATOM	10749	ND1	HIS	A1350	149.762	142.218	138.811	1.00	0.67	N
ATOM	10750	CD2	HIS	A1350	149.445	144.386	138.293	1.00	0.67	C
ATOM	10751	CE1	HIS	A1350	150.594	142.968	139.513	1.00	0.67	C
ATOM	10752	NE2	HIS	A1350	150.441	144.285	139.239	1.00	0.67	N
ATOM	10753	N	LEU	A1351	148.705	139.738	135.705	1.00	0.63	N
ATOM	10754	CA	LEU	A1351	149.392	138.463	135.545	1.00	0.63	C
ATOM	10755	C	LEU	A1351	150.175	138.357	134.238	1.00	0.63	C
ATOM	10756	O	LEU	A1351	151.314	137.900	134.235	1.00	0.63	O
ATOM	10757	CB	LEU	A1351	148.404	137.277	135.718	1.00	0.63	C
ATOM	10758	CG	LEU	A1351	148.999	135.852	135.611	1.00	0.63	C
ATOM	10759	CD1	LEU	A1351	150.184	135.598	136.556	1.00	0.63	C
ATOM	10760	CD2	LEU	A1351	147.911	134.803	135.885	1.00	0.63	C
ATOM	10761	N	LEU	A1352	149.616	138.823	133.103	1.00	0.63	N
ATOM	10762	CA	LEU	A1352	150.343	138.934	131.845	1.00	0.63	C
ATOM	10763	C	LEU	A1352	151.517	139.921	131.867	1.00	0.63	C
ATOM	10764	O	LEU	A1352	152.579	139.595	131.341	1.00	0.63	O
ATOM	10765	CB	LEU	A1352	149.411	139.246	130.649	1.00	0.63	C
ATOM	10766	CG	LEU	A1352	148.302	138.203	130.376	1.00	0.63	C
ATOM	10767	CD1	LEU	A1352	147.440	138.638	129.181	1.00	0.63	C
ATOM	10768	CD2	LEU	A1352	148.849	136.789	130.127	1.00	0.63	C
ATOM	10769	N	ASP	A1353	151.388	141.102	132.519	1.00	0.61	N
ATOM	10770	CA	ASP	A1353	152.469	142.062	132.750	1.00	0.61	C
ATOM	10771	C	ASP	A1353	153.613	141.485	133.617	1.00	0.61	C
ATOM	10772	O	ASP	A1353	154.750	141.948	133.560	1.00	0.61	O
ATOM	10773	CB	ASP	A1353	151.955	143.379	133.433	1.00	0.61	C
ATOM	10774	CG	ASP	A1353	151.265	144.392	132.516	1.00	0.61	C
ATOM	10775	OD1	ASP	A1353	150.961	144.076	131.342	1.00	0.61	O
ATOM	10776	OD2	ASP	A1353	151.062	145.547	132.998	1.00	0.61	O
ATOM	10777	N	ARG	A1354	153.358	140.441	134.446	1.00	0.61	N
ATOM	10778	CA	ARG	A1354	154.411	139.719	135.162	1.00	0.61	C
ATOM	10779	C	ARG	A1354	155.185	138.759	134.262	1.00	0.61	C

ATOM	10780	O	ARG	A1354	156.270	138.299	134.613	1.00	0.61	O
ATOM	10781	CB	ARG	A1354	153.848	138.835	136.311	1.00	0.61	C
ATOM	10782	CG	ARG	A1354	153.109	139.592	137.429	1.00	0.61	C
ATOM	10783	CD	ARG	A1354	152.279	138.645	138.303	1.00	0.61	C
ATOM	10784	NE	ARG	A1354	151.089	139.407	138.797	1.00	0.61	N
ATOM	10785	CZ	ARG	A1354	149.981	138.831	139.279	1.00	0.61	C
ATOM	10786	NH1	ARG	A1354	149.923	137.539	139.576	1.00	0.61	N
ATOM	10787	NH2	ARG	A1354	148.902	139.589	139.444	1.00	0.61	N
ATOM	10788	N	MET	A1355	154.624	138.414	133.091	1.00	0.59	N
ATOM	10789	CA	MET	A1355	155.232	137.544	132.110	1.00	0.59	C
ATOM	10790	C	MET	A1355	155.808	138.392	130.987	1.00	0.59	C
ATOM	10791	O	MET	A1355	155.830	139.618	131.034	1.00	0.59	O
ATOM	10792	CB	MET	A1355	154.193	136.539	131.546	1.00	0.59	C
ATOM	10793	CG	MET	A1355	153.555	135.667	132.642	1.00	0.59	C
ATOM	10794	SD	MET	A1355	152.381	134.434	132.013	1.00	0.59	S
ATOM	10795	CE	MET	A1355	152.093	133.784	133.682	1.00	0.59	C
ATOM	10796	N	GLY	A1356	156.310	137.765	129.904	1.00	0.66	N
ATOM	10797	CA	GLY	A1356	156.852	138.522	128.778	1.00	0.66	C
ATOM	10798	C	GLY	A1356	155.804	139.029	127.817	1.00	0.66	C
ATOM	10799	O	GLY	A1356	155.775	138.642	126.648	1.00	0.66	O
ATOM	10800	N	LEU	A1357	154.944	139.955	128.276	1.00	0.58	N
ATOM	10801	CA	LEU	A1357	154.009	140.667	127.432	1.00	0.58	C
ATOM	10802	C	LEU	A1357	154.444	142.128	127.357	1.00	0.58	C
ATOM	10803	O	LEU	A1357	154.326	142.857	128.340	1.00	0.58	O
ATOM	10804	CB	LEU	A1357	152.554	140.587	127.964	1.00	0.58	C
ATOM	10805	CG	LEU	A1357	151.491	141.237	127.044	1.00	0.58	C
ATOM	10806	CD1	LEU	A1357	151.419	140.579	125.659	1.00	0.58	C
ATOM	10807	CD2	LEU	A1357	150.098	141.192	127.686	1.00	0.58	C
ATOM	10808	N	PRO	A1358	154.963	142.648	126.250	1.00	0.69	N
ATOM	10809	CA	PRO	A1358	155.195	144.078	126.117	1.00	0.69	C
ATOM	10810	C	PRO	A1358	153.873	144.791	125.886	1.00	0.69	C
ATOM	10811	O	PRO	A1358	153.007	144.254	125.204	1.00	0.69	O
ATOM	10812	CB	PRO	A1358	156.139	144.177	124.907	1.00	0.69	C
ATOM	10813	CG	PRO	A1358	155.792	142.952	124.054	1.00	0.69	C
ATOM	10814	CD	PRO	A1358	155.442	141.887	125.095	1.00	0.69	C
ATOM	10815	N	LYS	A1359	153.684	146.005	126.448	1.00	0.63	N
ATOM	10816	CA	LYS	A1359	152.444	146.774	126.368	1.00	0.63	C
ATOM	10817	C	LYS	A1359	152.017	147.112	124.947	1.00	0.63	C
ATOM	10818	O	LYS	A1359	150.833	147.125	124.638	1.00	0.63	O
ATOM	10819	CB	LYS	A1359	152.550	148.062	127.211	1.00	0.63	C
ATOM	10820	CG	LYS	A1359	152.612	147.737	128.709	1.00	0.63	C
ATOM	10821	CD	LYS	A1359	152.673	148.980	129.607	1.00	0.63	C
ATOM	10822	CE	LYS	A1359	152.592	148.602	131.090	1.00	0.63	C
ATOM	10823	NZ	LYS	A1359	152.694	149.817	131.927	1.00	0.63	N
ATOM	10824	N	ASP	A1360	153.024	147.291	124.073	1.00	0.67	N
ATOM	10825	CA	ASP	A1360	153.051	147.355	122.620	1.00	0.67	C
ATOM	10826	C	ASP	A1360	152.344	146.189	121.882	1.00	0.67	C
ATOM	10827	O	ASP	A1360	152.319	146.101	120.659	1.00	0.67	O
ATOM	10828	CB	ASP	A1360	154.600	147.333	122.400	1.00	0.67	C
ATOM	10829	CG	ASP	A1360	155.131	147.345	120.974	1.00	0.67	C
ATOM	10830	OD1	ASP	A1360	155.645	146.268	120.556	1.00	0.67	O
ATOM	10831	OD2	ASP	A1360	155.131	148.437	120.362	1.00	0.67	O
ATOM	10832	N	TRP	A1361	151.726	145.229	122.600	1.00	0.67	N
ATOM	10833	CA	TRP	A1361	151.129	144.034	122.036	1.00	0.67	C
ATOM	10834	C	TRP	A1361	149.969	144.254	121.069	1.00	0.67	C
ATOM	10835	O	TRP	A1361	149.807	143.484	120.125	1.00	0.67	O
ATOM	10836	CB	TRP	A1361	150.729	143.008	123.131	1.00	0.67	C
ATOM	10837	CG	TRP	A1361	149.605	143.420	124.073	1.00	0.67	C
ATOM	10838	CD1	TRP	A1361	149.673	144.112	125.248	1.00	0.67	C
ATOM	10839	CD2	TRP	A1361	148.218	143.138	123.840	1.00	0.67	C
ATOM	10840	NE1	TRP	A1361	148.409	144.302	125.757	1.00	0.67	N
ATOM	10841	CE2	TRP	A1361	147.496	143.729	124.910	1.00	0.67	C
ATOM	10842	CE3	TRP	A1361	147.558	142.461	122.819	1.00	0.67	C
ATOM	10843	CZ2	TRP	A1361	146.115	143.664	124.949	1.00	0.67	C
ATOM	10844	CZ3	TRP	A1361	146.160	142.384	122.871	1.00	0.67	C

ATOM	10845	CH2	TRP	A1361	145.447	142.991	123.917	1.00	0.67	C
ATOM	10846	N	VAL	A1362	149.123	145.282	121.286	1.00	0.78	N
ATOM	10847	CA	VAL	A1362	147.998	145.608	120.417	1.00	0.78	C
ATOM	10848	C	VAL	A1362	148.459	146.096	119.051	1.00	0.78	C
ATOM	10849	O	VAL	A1362	147.975	145.648	118.011	1.00	0.78	O
ATOM	10850	CB	VAL	A1362	147.099	146.668	121.053	1.00	0.78	C
ATOM	10851	CG1	VAL	A1362	145.871	146.946	120.160	1.00	0.78	C
ATOM	10852	CG2	VAL	A1362	146.638	146.189	122.443	1.00	0.78	C
ATOM	10853	N	GLU	A1363	149.447	147.003	119.053	1.00	0.72	N
ATOM	10854	CA	GLU	A1363	150.158	147.550	117.925	1.00	0.72	C
ATOM	10855	C	GLU	A1363	150.953	146.482	117.180	1.00	0.72	C
ATOM	10856	O	GLU	A1363	150.792	146.280	115.981	1.00	0.72	O
ATOM	10857	CB	GLU	A1363	151.107	148.654	118.471	1.00	0.72	C
ATOM	10858	CG	GLU	A1363	150.396	149.853	119.179	1.00	0.72	C
ATOM	10859	CD	GLU	A1363	149.805	149.617	120.579	1.00	0.72	C
ATOM	10860	OE1	GLU	A1363	150.026	148.533	121.181	1.00	0.72	O
ATOM	10861	OE2	GLU	A1363	149.083	150.536	121.046	1.00	0.72	O
ATOM	10862	N	ARG	A1364	151.735	145.668	117.914	1.00	0.67	N
ATOM	10863	CA	ARG	A1364	152.575	144.604	117.387	1.00	0.67	C
ATOM	10864	C	ARG	A1364	151.808	143.483	116.677	1.00	0.67	C
ATOM	10865	O	ARG	A1364	152.304	142.834	115.752	1.00	0.67	O
ATOM	10866	CB	ARG	A1364	153.415	144.056	118.566	1.00	0.67	C
ATOM	10867	CG	ARG	A1364	154.517	143.042	118.221	1.00	0.67	C
ATOM	10868	CD	ARG	A1364	155.412	142.763	119.432	1.00	0.67	C
ATOM	10869	NE	ARG	A1364	156.404	141.722	118.997	1.00	0.67	N
ATOM	10870	CZ	ARG	A1364	157.271	141.111	119.816	1.00	0.67	C
ATOM	10871	NH1	ARG	A1364	157.315	141.389	121.113	1.00	0.67	N
ATOM	10872	NH2	ARG	A1364	158.122	140.213	119.324	1.00	0.67	N
ATOM	10873	N	ILE	A1365	150.545	143.228	117.090	1.00	0.78	N
ATOM	10874	CA	ILE	A1365	149.584	142.406	116.353	1.00	0.78	C
ATOM	10875	C	ILE	A1365	149.237	142.996	114.984	1.00	0.78	C
ATOM	10876	O	ILE	A1365	149.114	142.266	114.003	1.00	0.78	O
ATOM	10877	CB	ILE	A1365	148.319	142.128	117.187	1.00	0.78	C
ATOM	10878	CG1	ILE	A1365	148.640	141.056	118.260	1.00	0.78	C
ATOM	10879	CG2	ILE	A1365	147.115	141.689	116.311	1.00	0.78	C
ATOM	10880	CD1	ILE	A1365	147.528	140.854	119.300	1.00	0.78	C
ATOM	10881	N	ASP	A1366	149.079	144.327	114.869	1.00	0.79	N
ATOM	10882	CA	ASP	A1366	148.742	145.028	113.641	1.00	0.79	C
ATOM	10883	C	ASP	A1366	149.851	144.950	112.576	1.00	0.79	C
ATOM	10884	O	ASP	A1366	149.607	144.715	111.389	1.00	0.79	O
ATOM	10885	CB	ASP	A1366	148.356	146.483	114.018	1.00	0.79	C
ATOM	10886	CG	ASP	A1366	147.203	147.023	113.196	1.00	0.79	C
ATOM	10887	OD1	ASP	A1366	146.723	146.315	112.275	1.00	0.79	O
ATOM	10888	OD2	ASP	A1366	146.727	148.129	113.551	1.00	0.79	O
ATOM	10889	N	GLU	A1367	151.140	145.043	112.988	1.00	0.74	N
ATOM	10890	CA	GLU	A1367	152.280	144.796	112.109	1.00	0.74	C
ATOM	10891	C	GLU	A1367	152.262	143.413	111.461	1.00	0.74	C
ATOM	10892	O	GLU	A1367	152.610	143.261	110.283	1.00	0.74	O
ATOM	10893	CB	GLU	A1367	153.645	144.932	112.842	1.00	0.74	C
ATOM	10894	CG	GLU	A1367	154.255	146.352	112.801	1.00	0.74	C
ATOM	10895	CD	GLU	A1367	153.567	147.317	113.754	1.00	0.74	C
ATOM	10896	OE1	GLU	A1367	153.631	147.049	114.977	1.00	0.74	O
ATOM	10897	OE2	GLU	A1367	153.019	148.330	113.251	1.00	0.74	O
ATOM	10898	N	ASN	A1368	151.850	142.379	112.225	1.00	0.77	N
ATOM	10899	CA	ASN	A1368	151.841	141.004	111.773	1.00	0.77	C
ATOM	10900	C	ASN	A1368	150.603	140.224	112.262	1.00	0.77	C
ATOM	10901	O	ASN	A1368	150.709	139.441	113.210	1.00	0.77	O
ATOM	10902	CB	ASN	A1368	153.150	140.315	112.246	1.00	0.77	C
ATOM	10903	CG	ASN	A1368	153.295	138.937	111.617	1.00	0.77	C
ATOM	10904	OD1	ASN	A1368	152.614	138.580	110.651	1.00	0.77	O
ATOM	10905	ND2	ASN	A1368	154.188	138.101	112.189	1.00	0.77	N
ATOM	10906	N	PRO	A1369	149.435	140.322	111.618	1.00	0.81	N
ATOM	10907	CA	PRO	A1369	148.210	139.641	112.052	1.00	0.81	C
ATOM	10908	C	PRO	A1369	148.224	138.148	111.791	1.00	0.81	C
ATOM	10909	O	PRO	A1369	147.259	137.465	112.131	1.00	0.81	O

ATOM	10910	CB	PRO	A1369	147.094	140.320	111.238	1.00	0.81	C
ATOM	10911	CG	PRO	A1369	147.816	140.897	110.021	1.00	0.81	C
ATOM	10912	CD	PRO	A1369	149.141	141.350	110.620	1.00	0.81	C
ATOM	10913	N	SER	A1370	149.285	137.595	111.173	1.00	0.81	N
ATOM	10914	CA	SER	A1370	149.350	136.199	110.755	1.00	0.81	C
ATOM	10915	C	SER	A1370	149.320	135.204	111.909	1.00	0.81	C
ATOM	10916	O	SER	A1370	148.962	134.037	111.738	1.00	0.81	O
ATOM	10917	CB	SER	A1370	150.579	135.922	109.841	1.00	0.81	C
ATOM	10918	OG	SER	A1370	151.834	136.014	110.530	1.00	0.81	O
ATOM	10919	N	VAL	A1371	149.651	135.668	113.131	1.00	0.81	N
ATOM	10920	CA	VAL	A1371	149.615	134.911	114.370	1.00	0.81	C
ATOM	10921	C	VAL	A1371	148.200	134.584	114.835	1.00	0.81	C
ATOM	10922	O	VAL	A1371	147.984	133.651	115.604	1.00	0.81	O
ATOM	10923	CB	VAL	A1371	150.351	135.646	115.494	1.00	0.81	C
ATOM	10924	CG1	VAL	A1371	151.816	135.879	115.073	1.00	0.81	C
ATOM	10925	CG2	VAL	A1371	149.674	136.985	115.865	1.00	0.81	C
ATOM	10926	N	LEU	A1372	147.173	135.328	114.362	1.00	0.77	N
ATOM	10927	CA	LEU	A1372	145.799	135.124	114.786	1.00	0.77	C
ATOM	10928	C	LEU	A1372	145.099	133.977	114.067	1.00	0.77	C
ATOM	10929	O	LEU	A1372	144.099	133.458	114.555	1.00	0.77	O
ATOM	10930	CB	LEU	A1372	144.972	136.429	114.625	1.00	0.77	C
ATOM	10931	CG	LEU	A1372	145.315	137.529	115.658	1.00	0.77	C
ATOM	10932	CD1	LEU	A1372	144.531	138.816	115.361	1.00	0.77	C
ATOM	10933	CD2	LEU	A1372	145.023	137.081	117.099	1.00	0.77	C
ATOM	10934	N	TYR	A1373	145.620	133.512	112.912	1.00	0.75	N
ATOM	10935	CA	TYR	A1373	144.928	132.500	112.120	1.00	0.75	C
ATOM	10936	C	TYR	A1373	145.660	131.167	112.103	1.00	0.75	C
ATOM	10937	O	TYR	A1373	145.035	130.110	112.015	1.00	0.75	O
ATOM	10938	CB	TYR	A1373	144.710	132.983	110.661	1.00	0.75	C
ATOM	10939	CG	TYR	A1373	143.941	134.279	110.665	1.00	0.75	C
ATOM	10940	CD1	TYR	A1373	142.539	134.291	110.783	1.00	0.75	C
ATOM	10941	CD2	TYR	A1373	144.625	135.504	110.582	1.00	0.75	C
ATOM	10942	CE1	TYR	A1373	141.840	135.508	110.823	1.00	0.75	C
ATOM	10943	CE2	TYR	A1373	143.930	136.720	110.650	1.00	0.75	C
ATOM	10944	CZ	TYR	A1373	142.537	136.719	110.777	1.00	0.75	C
ATOM	10945	OH	TYR	A1373	141.827	137.932	110.871	1.00	0.75	O
ATOM	10946	N	ARG	A1374	147.005	131.148	112.243	1.00	0.66	N
ATOM	10947	CA	ARG	A1374	147.742	129.918	112.490	1.00	0.66	C
ATOM	10948	C	ARG	A1374	147.624	129.489	113.951	1.00	0.66	C
ATOM	10949	O	ARG	A1374	146.908	130.103	114.737	1.00	0.66	O
ATOM	10950	CB	ARG	A1374	149.210	129.943	111.984	1.00	0.66	C
ATOM	10951	CG	ARG	A1374	150.173	130.864	112.756	1.00	0.66	C
ATOM	10952	CD	ARG	A1374	151.623	130.711	112.279	1.00	0.66	C
ATOM	10953	NE	ARG	A1374	152.451	131.780	112.919	1.00	0.66	N
ATOM	10954	CZ	ARG	A1374	152.778	132.891	112.254	1.00	0.66	C
ATOM	10955	NH1	ARG	A1374	151.998	133.381	111.319	1.00	0.66	N
ATOM	10956	NH2	ARG	A1374	153.947	133.479	112.467	1.00	0.66	N
ATOM	10957	N	ARG	A1375	148.255	128.355	114.320	1.00	0.62	N
ATOM	10958	CA	ARG	A1375	148.176	127.788	115.652	1.00	0.62	C
ATOM	10959	C	ARG	A1375	149.253	128.412	116.573	1.00	0.62	C
ATOM	10960	O	ARG	A1375	149.020	129.545	116.983	1.00	0.62	O
ATOM	10961	CB	ARG	A1375	148.145	126.235	115.519	1.00	0.62	C
ATOM	10962	CG	ARG	A1375	149.282	125.598	114.683	1.00	0.62	C
ATOM	10963	CD	ARG	A1375	149.346	124.073	114.826	1.00	0.62	C
ATOM	10964	NE	ARG	A1375	150.607	123.597	114.161	1.00	0.62	N
ATOM	10965	CZ	ARG	A1375	150.644	122.952	112.987	1.00	0.62	C
ATOM	10966	NH1	ARG	A1375	149.603	122.931	112.173	1.00	0.62	N
ATOM	10967	NH2	ARG	A1375	151.732	122.277	112.617	1.00	0.62	N
ATOM	10968	N	PRO	A1376	150.405	127.819	116.910	1.00	0.73	N
ATOM	10969	CA	PRO	A1376	151.553	128.665	117.244	1.00	0.73	C
ATOM	10970	C	PRO	A1376	152.839	128.068	116.669	1.00	0.73	C
ATOM	10971	O	PRO	A1376	152.810	127.000	116.050	1.00	0.73	O
ATOM	10972	CB	PRO	A1376	151.552	128.620	118.777	1.00	0.73	C
ATOM	10973	CG	PRO	A1376	151.222	127.159	119.083	1.00	0.73	C
ATOM	10974	CD	PRO	A1376	150.337	126.728	117.903	1.00	0.73	C

ATOM	10975	N	GLU	A1377	153.971	128.775	116.859	1.00	0.61	N
ATOM	10976	CA	GLU	A1377	155.313	128.405	116.428	1.00	0.61	C
ATOM	10977	C	GLU	A1377	156.309	128.560	117.577	1.00	0.61	C
ATOM	10978	O	GLU	A1377	157.293	127.831	117.669	1.00	0.61	O
ATOM	10979	CB	GLU	A1377	155.790	129.366	115.307	1.00	0.61	C
ATOM	10980	CG	GLU	A1377	155.013	129.193	113.980	1.00	0.61	C
ATOM	10981	CD	GLU	A1377	155.134	130.420	113.115	1.00	0.61	C
ATOM	10982	OE1	GLU	A1377	154.933	130.380	111.873	1.00	0.61	O
ATOM	10983	OE2	GLU	A1377	155.258	131.499	113.746	1.00	0.61	O
ATOM	10984	N	ASN	A1378	156.070	129.515	118.503	1.00	0.74	N
ATOM	10985	CA	ASN	A1378	157.046	129.998	119.461	1.00	0.74	C
ATOM	10986	C	ASN	A1378	156.361	130.355	120.780	1.00	0.74	C
ATOM	10987	O	ASN	A1378	155.144	130.362	120.917	1.00	0.74	O
ATOM	10988	CB	ASN	A1378	157.720	131.312	118.965	1.00	0.74	C
ATOM	10989	CG	ASN	A1378	158.542	131.110	117.695	1.00	0.74	C
ATOM	10990	OD1	ASN	A1378	159.677	130.643	117.762	1.00	0.74	O
ATOM	10991	ND2	ASN	A1378	158.008	131.543	116.531	1.00	0.74	N
ATOM	10992	N	LYS	A1379	157.136	130.697	121.832	1.00	0.73	N
ATOM	10993	CA	LYS	A1379	156.560	131.213	123.069	1.00	0.73	C
ATOM	10994	C	LYS	A1379	155.878	132.584	122.943	1.00	0.73	C
ATOM	10995	O	LYS	A1379	154.800	132.815	123.484	1.00	0.73	O
ATOM	10996	CB	LYS	A1379	157.646	131.260	124.176	1.00	0.73	C
ATOM	10997	CG	LYS	A1379	157.148	131.767	125.543	1.00	0.73	C
ATOM	10998	CD	LYS	A1379	158.195	131.583	126.658	1.00	0.73	C
ATOM	10999	CE	LYS	A1379	157.809	132.279	127.971	1.00	0.73	C
ATOM	11000	NZ	LYS	A1379	158.718	131.914	129.073	1.00	0.73	N
ATOM	11001	N	GLN	A1380	156.492	133.555	122.229	1.00	0.74	N
ATOM	11002	CA	GLN	A1380	156.010	134.933	122.210	1.00	0.74	C
ATOM	11003	C	GLN	A1380	154.640	135.162	121.582	1.00	0.74	C
ATOM	11004	O	GLN	A1380	153.831	135.915	122.123	1.00	0.74	O
ATOM	11005	CB	GLN	A1380	157.022	135.885	121.523	1.00	0.74	C
ATOM	11006	CG	GLN	A1380	156.636	137.395	121.542	1.00	0.74	C
ATOM	11007	CD	GLN	A1380	156.714	138.062	122.924	1.00	0.74	C
ATOM	11008	OE1	GLN	A1380	157.716	138.712	123.215	1.00	0.74	O
ATOM	11009	NE2	GLN	A1380	155.641	137.963	123.741	1.00	0.74	N
ATOM	11010	N	GLU	A1381	154.327	134.542	120.425	1.00	0.78	N
ATOM	11011	CA	GLU	A1381	153.030	134.731	119.798	1.00	0.78	C
ATOM	11012	C	GLU	A1381	151.938	133.915	120.475	1.00	0.78	C
ATOM	11013	O	GLU	A1381	150.784	134.330	120.511	1.00	0.78	O
ATOM	11014	CB	GLU	A1381	153.074	134.575	118.256	1.00	0.78	C
ATOM	11015	CG	GLU	A1381	153.817	133.350	117.676	1.00	0.78	C
ATOM	11016	CD	GLU	A1381	153.130	132.034	117.988	1.00	0.78	C
ATOM	11017	OE1	GLU	A1381	151.883	131.954	117.887	1.00	0.78	O
ATOM	11018	OE2	GLU	A1381	153.875	131.080	118.325	1.00	0.78	O
ATOM	11019	N	LEU	A1382	152.293	132.814	121.169	1.00	0.80	N
ATOM	11020	CA	LEU	A1382	151.405	132.115	122.081	1.00	0.80	C
ATOM	11021	C	LEU	A1382	150.942	132.997	123.250	1.00	0.80	C
ATOM	11022	O	LEU	A1382	149.769	133.005	123.623	1.00	0.80	O
ATOM	11023	CB	LEU	A1382	152.092	130.812	122.559	1.00	0.80	C
ATOM	11024	CG	LEU	A1382	151.205	129.796	123.310	1.00	0.80	C
ATOM	11025	CD1	LEU	A1382	149.956	129.403	122.507	1.00	0.80	C
ATOM	11026	CD2	LEU	A1382	152.026	128.536	123.627	1.00	0.80	C
ATOM	11027	N	ILE	A1383	151.848	133.838	123.805	1.00	0.78	N
ATOM	11028	CA	ILE	A1383	151.514	134.915	124.741	1.00	0.78	C
ATOM	11029	C	ILE	A1383	150.586	135.970	124.119	1.00	0.78	C
ATOM	11030	O	ILE	A1383	149.617	136.400	124.743	1.00	0.78	O
ATOM	11031	CB	ILE	A1383	152.769	135.571	125.342	1.00	0.78	C
ATOM	11032	CG1	ILE	A1383	153.591	134.540	126.154	1.00	0.78	C
ATOM	11033	CG2	ILE	A1383	152.396	136.778	126.237	1.00	0.78	C
ATOM	11034	CD1	ILE	A1383	154.975	135.055	126.577	1.00	0.78	C
ATOM	11035	N	LEU	A1384	150.809	136.393	122.853	1.00	0.82	N
ATOM	11036	CA	LEU	A1384	149.902	137.298	122.141	1.00	0.82	C
ATOM	11037	C	LEU	A1384	148.502	136.719	121.930	1.00	0.82	C
ATOM	11038	O	LEU	A1384	147.493	137.403	122.083	1.00	0.82	O
ATOM	11039	CB	LEU	A1384	150.452	137.728	120.754	1.00	0.82	C

ATOM	11040	CG	LEU	A1384	151.796	138.484	120.773	1.00	0.82	C
ATOM	11041	CD1	LEU	A1384	152.269	138.742	119.334	1.00	0.82	C
ATOM	11042	CD2	LEU	A1384	151.710	139.815	121.532	1.00	0.82	C
ATOM	11043	N	ARG	A1385	148.405	135.421	121.595	1.00	0.76	N
ATOM	11044	CA	ARG	A1385	147.159	134.678	121.527	1.00	0.76	C
ATOM	11045	C	ARG	A1385	146.450	134.548	122.874	1.00	0.76	C
ATOM	11046	O	ARG	A1385	145.230	134.640	122.969	1.00	0.76	O
ATOM	11047	CB	ARG	A1385	147.407	133.288	120.900	1.00	0.76	C
ATOM	11048	CG	ARG	A1385	147.849	133.374	119.422	1.00	0.76	C
ATOM	11049	CD	ARG	A1385	148.241	132.032	118.793	1.00	0.76	C
ATOM	11050	NE	ARG	A1385	147.007	131.171	118.811	1.00	0.76	N
ATOM	11051	CZ	ARG	A1385	146.052	131.222	117.874	1.00	0.76	C
ATOM	11052	NH1	ARG	A1385	146.132	132.007	116.811	1.00	0.76	N
ATOM	11053	NH2	ARG	A1385	144.956	130.477	118.006	1.00	0.76	N
ATOM	11054	N	LEU	A1386	147.189	134.359	123.983	1.00	0.79	N
ATOM	11055	CA	LEU	A1386	146.634	134.465	125.324	1.00	0.79	C
ATOM	11056	C	LEU	A1386	146.107	135.870	125.659	1.00	0.79	C
ATOM	11057	O	LEU	A1386	145.055	136.031	126.278	1.00	0.79	O
ATOM	11058	CB	LEU	A1386	147.678	133.985	126.357	1.00	0.79	C
ATOM	11059	CG	LEU	A1386	147.188	133.914	127.818	1.00	0.79	C
ATOM	11060	CD1	LEU	A1386	145.937	133.040	128.010	1.00	0.79	C
ATOM	11061	CD2	LEU	A1386	148.320	133.390	128.708	1.00	0.79	C
ATOM	11062	N	ALA	A1387	146.817	136.928	125.214	1.00	0.80	N
ATOM	11063	CA	ALA	A1387	146.390	138.313	125.299	1.00	0.80	C
ATOM	11064	C	ALA	A1387	145.107	138.656	124.532	1.00	0.80	C
ATOM	11065	O	ALA	A1387	144.272	139.398	125.040	1.00	0.80	O
ATOM	11066	CB	ALA	A1387	147.541	139.253	124.887	1.00	0.80	C
ATOM	11067	N	GLU	A1388	144.867	138.135	123.307	1.00	0.73	N
ATOM	11068	CA	GLU	A1388	143.561	138.311	122.663	1.00	0.73	C
ATOM	11069	C	GLU	A1388	142.437	137.570	123.402	1.00	0.73	C
ATOM	11070	O	GLU	A1388	141.392	138.138	123.725	1.00	0.73	O
ATOM	11071	CB	GLU	A1388	143.612	138.035	121.128	1.00	0.73	C
ATOM	11072	CG	GLU	A1388	143.485	136.564	120.642	1.00	0.73	C
ATOM	11073	CD	GLU	A1388	142.052	136.041	120.473	1.00	0.73	C
ATOM	11074	OE1	GLU	A1388	141.080	136.832	120.607	1.00	0.73	O
ATOM	11075	OE2	GLU	A1388	141.934	134.819	120.182	1.00	0.73	O
ATOM	11076	N	LYS	A1389	142.707	136.307	123.808	1.00	0.76	N
ATOM	11077	CA	LYS	A1389	141.787	135.387	124.458	1.00	0.76	C
ATOM	11078	C	LYS	A1389	141.190	135.910	125.757	1.00	0.76	C
ATOM	11079	O	LYS	A1389	140.011	135.710	126.048	1.00	0.76	O
ATOM	11080	CB	LYS	A1389	142.573	134.084	124.769	1.00	0.76	C
ATOM	11081	CG	LYS	A1389	141.798	132.906	125.391	1.00	0.76	C
ATOM	11082	CD	LYS	A1389	140.951	132.142	124.357	1.00	0.76	C
ATOM	11083	CE	LYS	A1389	140.489	130.748	124.807	1.00	0.76	C
ATOM	11084	NZ	LYS	A1389	141.662	129.884	125.038	1.00	0.76	N
ATOM	11085	N	VAL	A1390	142.003	136.588	126.590	1.00	0.71	N
ATOM	11086	CA	VAL	A1390	141.551	137.211	127.825	1.00	0.71	C
ATOM	11087	C	VAL	A1390	140.579	138.374	127.617	1.00	0.71	C
ATOM	11088	O	VAL	A1390	139.615	138.551	128.360	1.00	0.71	O
ATOM	11089	CB	VAL	A1390	142.736	137.582	128.718	1.00	0.71	C
ATOM	11090	CG1	VAL	A1390	143.621	138.694	128.128	1.00	0.71	C
ATOM	11091	CG2	VAL	A1390	142.261	137.964	130.126	1.00	0.71	C
ATOM	11092	N	HIS	A1391	140.787	139.218	126.589	1.00	0.62	N
ATOM	11093	CA	HIS	A1391	139.949	140.391	126.406	1.00	0.62	C
ATOM	11094	C	HIS	A1391	138.667	140.120	125.639	1.00	0.62	C
ATOM	11095	O	HIS	A1391	137.588	140.516	126.082	1.00	0.62	O
ATOM	11096	CB	HIS	A1391	140.726	141.533	125.728	1.00	0.62	C
ATOM	11097	CG	HIS	A1391	141.858	142.012	126.583	1.00	0.62	C
ATOM	11098	ND1	HIS	A1391	141.602	142.590	127.814	1.00	0.62	N
ATOM	11099	CD2	HIS	A1391	143.191	141.987	126.346	1.00	0.62	C
ATOM	11100	CE1	HIS	A1391	142.788	142.907	128.295	1.00	0.62	C
ATOM	11101	NE2	HIS	A1391	143.786	142.561	127.447	1.00	0.62	N
ATOM	11102	N	SER	A1392	138.755	139.423	124.487	1.00	0.61	N
ATOM	11103	CA	SER	A1392	137.692	139.333	123.482	1.00	0.61	C
ATOM	11104	C	SER	A1392	136.319	138.769	123.882	1.00	0.61	C

ATOM	11105	O	SER	A1392	135.346	139.398	123.467	1.00	0.61	O
ATOM	11106	CB	SER	A1392	138.157	138.547	122.216	1.00	0.61	C
ATOM	11107	OG	SER	A1392	139.350	139.106	121.660	1.00	0.61	O
ATOM	11108	N	PRO	A1393	136.069	137.679	124.631	1.00	0.56	N
ATOM	11109	CA	PRO	A1393	134.796	136.969	124.471	1.00	0.56	C
ATOM	11110	C	PRO	A1393	133.863	137.100	125.661	1.00	0.56	C
ATOM	11111	O	PRO	A1393	132.778	136.527	125.592	1.00	0.56	O
ATOM	11112	CB	PRO	A1393	135.197	135.480	124.313	1.00	0.56	C
ATOM	11113	CG	PRO	A1393	136.699	135.380	124.621	1.00	0.56	C
ATOM	11114	CD	PRO	A1393	137.106	136.767	125.117	1.00	0.56	C
ATOM	11115	N	GLY	A1394	134.239	137.773	126.769	1.00	0.64	N
ATOM	11116	CA	GLY	A1394	133.420	137.748	127.987	1.00	0.64	C
ATOM	11117	C	GLY	A1394	134.072	137.057	129.155	1.00	0.64	C
ATOM	11118	O	GLY	A1394	133.409	136.508	130.032	1.00	0.64	O
ATOM	11119	N	VAL	A1395	135.415	137.021	129.182	1.00	0.58	N
ATOM	11120	CA	VAL	A1395	136.186	136.384	130.238	1.00	0.58	C
ATOM	11121	C	VAL	A1395	136.333	137.313	131.444	1.00	0.58	C
ATOM	11122	O	VAL	A1395	137.058	138.305	131.419	1.00	0.58	O
ATOM	11123	CB	VAL	A1395	137.550	135.949	129.702	1.00	0.58	C
ATOM	11124	CG1	VAL	A1395	138.478	135.437	130.822	1.00	0.58	C
ATOM	11125	CG2	VAL	A1395	137.345	134.850	128.639	1.00	0.58	C
ATOM	11126	N	THR	A1396	135.630	137.003	132.556	1.00	0.53	N
ATOM	11127	CA	THR	A1396	135.522	137.889	133.714	1.00	0.53	C
ATOM	11128	C	THR	A1396	136.483	137.532	134.840	1.00	0.53	C
ATOM	11129	O	THR	A1396	136.844	136.372	135.051	1.00	0.53	O
ATOM	11130	CB	THR	A1396	134.104	137.976	134.289	1.00	0.53	C
ATOM	11131	OG1	THR	A1396	133.640	136.738	134.819	1.00	0.53	O
ATOM	11132	CG2	THR	A1396	133.119	138.369	133.182	1.00	0.53	C
ATOM	11133	N	SER	A1397	136.959	138.551	135.593	1.00	0.48	N
ATOM	11134	CA	SER	A1397	137.860	138.374	136.735	1.00	0.48	C
ATOM	11135	C	SER	A1397	137.244	138.761	138.078	1.00	0.48	C
ATOM	11136	O	SER	A1397	137.766	138.399	139.132	1.00	0.48	O
ATOM	11137	CB	SER	A1397	139.114	139.271	136.536	1.00	0.48	C
ATOM	11138	OG	SER	A1397	140.125	139.075	137.525	1.00	0.48	O
ATOM	11139	N	SER	A1398	136.122	139.513	138.090	1.00	0.48	N
ATOM	11140	CA	SER	A1398	135.437	139.917	139.325	1.00	0.48	C
ATOM	11141	C	SER	A1398	134.835	138.743	140.101	1.00	0.48	C
ATOM	11142	O	SER	A1398	134.396	137.741	139.535	1.00	0.48	O
ATOM	11143	CB	SER	A1398	134.374	141.035	139.094	1.00	0.48	C
ATOM	11144	OG	SER	A1398	133.726	141.480	140.293	1.00	0.48	O
ATOM	11145	N	PHE	A1399	134.824	138.837	141.445	1.00	0.43	N
ATOM	11146	CA	PHE	A1399	134.276	137.815	142.313	1.00	0.43	C
ATOM	11147	C	PHE	A1399	132.803	138.050	142.598	1.00	0.43	C
ATOM	11148	O	PHE	A1399	132.326	139.174	142.716	1.00	0.43	O
ATOM	11149	CB	PHE	A1399	134.977	137.798	143.696	1.00	0.43	C
ATOM	11150	CG	PHE	A1399	136.364	137.235	143.631	1.00	0.43	C
ATOM	11151	CD1	PHE	A1399	136.570	135.866	143.392	1.00	0.43	C
ATOM	11152	CD2	PHE	A1399	137.466	138.049	143.930	1.00	0.43	C
ATOM	11153	CE1	PHE	A1399	137.856	135.316	143.464	1.00	0.43	C
ATOM	11154	CE2	PHE	A1399	138.748	137.498	144.041	1.00	0.43	C
ATOM	11155	CZ	PHE	A1399	138.944	136.130	143.804	1.00	0.43	C
ATOM	11156	N	SER	A1400	132.027	136.965	142.808	1.00	0.57	N
ATOM	11157	CA	SER	A1400	130.651	137.079	143.289	1.00	0.57	C
ATOM	11158	C	SER	A1400	130.609	137.438	144.779	1.00	0.57	C
ATOM	11159	O	SER	A1400	130.291	136.621	145.637	1.00	0.57	O
ATOM	11160	CB	SER	A1400	129.814	135.792	143.021	1.00	0.57	C
ATOM	11161	OG	SER	A1400	128.404	136.032	143.114	1.00	0.57	O
ATOM	11162	N	LYS	A1401	130.951	138.698	145.135	1.00	0.54	N
ATOM	11163	CA	LYS	A1401	130.992	139.198	146.506	1.00	0.54	C
ATOM	11164	C	LYS	A1401	129.656	139.832	146.924	1.00	0.54	C
ATOM	11165	O	LYS	A1401	129.569	140.584	147.905	1.00	0.54	O
ATOM	11166	CB	LYS	A1401	132.170	140.206	146.723	1.00	0.54	C
ATOM	11167	CG	LYS	A1401	133.509	139.543	147.116	1.00	0.54	C
ATOM	11168	CD	LYS	A1401	134.497	140.503	147.826	1.00	0.54	C
ATOM	11169	CE	LYS	A1401	135.733	139.775	148.386	1.00	0.54	C

ATOM	11170	NZ	LYS	A1401	136.515	140.575	149.360	1.00	0.54	N
ATOM	11171	N	GLY	A1402	128.565	139.527	146.194	1.00	0.69	N
ATOM	11172	CA	GLY	A1402	127.220	139.988	146.496	1.00	0.69	C
ATOM	11173	C	GLY	A1402	126.211	139.263	145.646	1.00	0.69	C
ATOM	11174	O	GLY	A1402	126.563	138.396	144.857	1.00	0.69	O
ATOM	11175	N	HIS	A1403	124.921	139.615	145.802	1.00	0.60	N
ATOM	11176	CA	HIS	A1403	123.774	139.034	145.108	1.00	0.60	C
ATOM	11177	C	HIS	A1403	123.762	139.256	143.594	1.00	0.60	C
ATOM	11178	O	HIS	A1403	124.265	140.273	143.114	1.00	0.60	O
ATOM	11179	CB	HIS	A1403	122.486	139.615	145.741	1.00	0.60	C
ATOM	11180	CG	HIS	A1403	121.282	138.746	145.620	1.00	0.60	C
ATOM	11181	ND1	HIS	A1403	120.424	138.854	144.541	1.00	0.60	N
ATOM	11182	CD2	HIS	A1403	120.882	137.758	146.457	1.00	0.60	C
ATOM	11183	CE1	HIS	A1403	119.518	137.912	144.747	1.00	0.60	C
ATOM	11184	NE2	HIS	A1403	119.748	137.225	145.893	1.00	0.60	N
ATOM	11185	N	VAL	A1404	123.210	138.316	142.791	1.00	0.71	N
ATOM	11186	CA	VAL	A1404	123.115	138.468	141.339	1.00	0.71	C
ATOM	11187	C	VAL	A1404	122.172	139.576	140.875	1.00	0.71	C
ATOM	11188	O	VAL	A1404	122.528	140.391	140.023	1.00	0.71	O
ATOM	11189	CB	VAL	A1404	122.737	137.134	140.697	1.00	0.71	C
ATOM	11190	CG1	VAL	A1404	122.262	137.238	139.231	1.00	0.71	C
ATOM	11191	CG2	VAL	A1404	123.970	136.213	140.747	1.00	0.71	C
ATOM	11192	N	VAL	A1405	120.944	139.686	141.427	1.00	0.66	N
ATOM	11193	CA	VAL	A1405	119.933	140.595	140.876	1.00	0.66	C
ATOM	11194	C	VAL	A1405	120.298	142.083	140.896	1.00	0.66	C
ATOM	11195	O	VAL	A1405	120.133	142.722	139.852	1.00	0.66	O
ATOM	11196	CB	VAL	A1405	118.525	140.359	141.434	1.00	0.66	C
ATOM	11197	CG1	VAL	A1405	117.513	141.359	140.820	1.00	0.66	C
ATOM	11198	CG2	VAL	A1405	118.122	138.910	141.099	1.00	0.66	C
ATOM	11199	N	PRO	A1406	120.833	142.708	141.953	1.00	0.68	N
ATOM	11200	CA	PRO	A1406	121.253	144.104	141.909	1.00	0.68	C
ATOM	11201	C	PRO	A1406	122.327	144.379	140.881	1.00	0.68	C
ATOM	11202	O	PRO	A1406	122.255	145.402	140.205	1.00	0.68	O
ATOM	11203	CB	PRO	A1406	121.752	144.398	143.335	1.00	0.68	C
ATOM	11204	CG	PRO	A1406	120.970	143.410	144.199	1.00	0.68	C
ATOM	11205	CD	PRO	A1406	120.893	142.172	143.312	1.00	0.68	C
ATOM	11206	N	ARG	A1407	123.331	143.491	140.735	1.00	0.60	N
ATOM	11207	CA	ARG	A1407	124.396	143.693	139.774	1.00	0.60	C
ATOM	11208	C	ARG	A1407	123.976	143.452	138.323	1.00	0.60	C
ATOM	11209	O	ARG	A1407	124.441	144.139	137.421	1.00	0.60	O
ATOM	11210	CB	ARG	A1407	125.703	142.967	140.159	1.00	0.60	C
ATOM	11211	CG	ARG	A1407	125.696	141.443	140.001	1.00	0.60	C
ATOM	11212	CD	ARG	A1407	127.033	140.825	140.401	1.00	0.60	C
ATOM	11213	NE	ARG	A1407	126.977	139.406	139.960	1.00	0.60	N
ATOM	11214	CZ	ARG	A1407	127.203	138.346	140.737	1.00	0.60	C
ATOM	11215	NH1	ARG	A1407	127.101	138.417	142.056	1.00	0.60	N
ATOM	11216	NH2	ARG	A1407	127.505	137.183	140.178	1.00	0.60	N
ATOM	11217	N	VAL	A1408	123.044	142.513	138.044	1.00	0.73	N
ATOM	11218	CA	VAL	A1408	122.454	142.326	136.715	1.00	0.73	C
ATOM	11219	C	VAL	A1408	121.646	143.536	136.241	1.00	0.73	C
ATOM	11220	O	VAL	A1408	121.732	143.935	135.071	1.00	0.73	O
ATOM	11221	CB	VAL	A1408	121.620	141.046	136.642	1.00	0.73	C
ATOM	11222	CG1	VAL	A1408	120.839	140.920	135.315	1.00	0.73	C
ATOM	11223	CG2	VAL	A1408	122.581	139.849	136.753	1.00	0.73	C
ATOM	11224	N	VAL	A1409	120.862	144.164	137.152	1.00	0.64	N
ATOM	11225	CA	VAL	A1409	120.204	145.451	136.925	1.00	0.64	C
ATOM	11226	C	VAL	A1409	121.222	146.572	136.743	1.00	0.64	C
ATOM	11227	O	VAL	A1409	121.141	147.353	135.795	1.00	0.64	O
ATOM	11228	CB	VAL	A1409	119.232	145.809	138.056	1.00	0.64	C
ATOM	11229	CG1	VAL	A1409	118.628	147.219	137.860	1.00	0.64	C
ATOM	11230	CG2	VAL	A1409	118.097	144.766	138.080	1.00	0.64	C
ATOM	11231	N	ALA	A1410	122.258	146.630	137.612	1.00	0.72	N
ATOM	11232	CA	ALA	A1410	123.332	147.602	137.548	1.00	0.72	C
ATOM	11233	C	ALA	A1410	124.116	147.564	136.244	1.00	0.72	C
ATOM	11234	O	ALA	A1410	124.367	148.598	135.632	1.00	0.72	O



ATOM	11235	CB	ALA	A1410	124.315	147.386	138.715	1.00	0.72	C
ATOM	11236	N	ALA	A1411	124.460	146.355	135.761	1.00	0.71	N
ATOM	11237	CA	ALA	A1411	125.110	146.104	134.492	1.00	0.71	C
ATOM	11238	C	ALA	A1411	124.296	146.591	133.304	1.00	0.71	C
ATOM	11239	O	ALA	A1411	124.825	147.196	132.376	1.00	0.71	O
ATOM	11240	CB	ALA	A1411	125.393	144.594	134.355	1.00	0.71	C
ATOM	11241	N	GLY	A1412	122.961	146.386	133.326	1.00	0.67	N
ATOM	11242	CA	GLY	A1412	122.089	146.913	132.282	1.00	0.67	C
ATOM	11243	C	GLY	A1412	121.962	148.419	132.296	1.00	0.67	C
ATOM	11244	O	GLY	A1412	122.155	149.078	131.278	1.00	0.67	O
ATOM	11245	N	VAL	A1413	121.648	149.012	133.464	1.00	0.66	N
ATOM	11246	CA	VAL	A1413	121.413	150.447	133.597	1.00	0.66	C
ATOM	11247	C	VAL	A1413	122.667	151.315	133.435	1.00	0.66	C
ATOM	11248	O	VAL	A1413	122.617	152.427	132.902	1.00	0.66	O
ATOM	11249	CB	VAL	A1413	120.623	150.773	134.864	1.00	0.66	C
ATOM	11250	CG1	VAL	A1413	121.517	150.851	136.115	1.00	0.66	C
ATOM	11251	CG2	VAL	A1413	119.816	152.070	134.656	1.00	0.66	C
ATOM	11252	N	TYR	A1414	123.856	150.827	133.863	1.00	0.55	N
ATOM	11253	CA	TYR	A1414	125.136	151.492	133.649	1.00	0.55	C
ATOM	11254	C	TYR	A1414	125.467	151.637	132.167	1.00	0.55	C
ATOM	11255	O	TYR	A1414	125.783	152.730	131.701	1.00	0.55	O
ATOM	11256	CB	TYR	A1414	126.250	150.704	134.409	1.00	0.55	C
ATOM	11257	CG	TYR	A1414	127.674	151.031	134.020	1.00	0.55	C
ATOM	11258	CD1	TYR	A1414	128.327	152.189	134.473	1.00	0.55	C
ATOM	11259	CD2	TYR	A1414	128.362	150.152	133.166	1.00	0.55	C
ATOM	11260	CE1	TYR	A1414	129.664	152.438	134.114	1.00	0.55	C
ATOM	11261	CE2	TYR	A1414	129.682	150.413	132.784	1.00	0.55	C
ATOM	11262	CZ	TYR	A1414	130.341	151.539	133.276	1.00	0.55	C
ATOM	11263	OH	TYR	A1414	131.702	151.732	132.954	1.00	0.55	O
ATOM	11264	N	LEU	A1415	125.347	150.552	131.374	1.00	0.62	N
ATOM	11265	CA	LEU	A1415	125.606	150.598	129.946	1.00	0.62	C
ATOM	11266	C	LEU	A1415	124.615	151.485	129.207	1.00	0.62	C
ATOM	11267	O	LEU	A1415	124.981	152.299	128.359	1.00	0.62	O
ATOM	11268	CB	LEU	A1415	125.592	149.172	129.342	1.00	0.62	C
ATOM	11269	CG	LEU	A1415	126.709	148.241	129.866	1.00	0.62	C
ATOM	11270	CD1	LEU	A1415	126.548	146.826	129.288	1.00	0.62	C
ATOM	11271	CD2	LEU	A1415	128.121	148.768	129.566	1.00	0.62	C
ATOM	11272	N	LEU	A1416	123.324	151.373	129.567	1.00	0.60	N
ATOM	11273	CA	LEU	A1416	122.249	152.160	128.998	1.00	0.60	C
ATOM	11274	C	LEU	A1416	122.349	153.666	129.274	1.00	0.60	C
ATOM	11275	O	LEU	A1416	122.197	154.492	128.374	1.00	0.60	O
ATOM	11276	CB	LEU	A1416	120.913	151.575	129.517	1.00	0.60	C
ATOM	11277	CG	LEU	A1416	119.694	151.747	128.594	1.00	0.60	C
ATOM	11278	CD1	LEU	A1416	119.885	151.046	127.243	1.00	0.60	C
ATOM	11279	CD2	LEU	A1416	118.449	151.169	129.284	1.00	0.60	C
ATOM	11280	N	SER	A1417	122.659	154.075	130.529	1.00	0.56	N
ATOM	11281	CA	SER	A1417	122.876	155.479	130.895	1.00	0.56	C
ATOM	11282	C	SER	A1417	124.121	156.108	130.279	1.00	0.56	C
ATOM	11283	O	SER	A1417	124.094	157.255	129.831	1.00	0.56	O
ATOM	11284	CB	SER	A1417	122.838	155.763	132.429	1.00	0.56	C
ATOM	11285	OG	SER	A1417	123.922	155.179	133.156	1.00	0.56	O
ATOM	11286	N	ARG	A1418	125.237	155.356	130.210	1.00	0.44	N
ATOM	11287	CA	ARG	A1418	126.483	155.766	129.581	1.00	0.44	C
ATOM	11288	C	ARG	A1418	126.359	156.057	128.086	1.00	0.44	C
ATOM	11289	O	ARG	A1418	126.791	157.102	127.599	1.00	0.44	O
ATOM	11290	CB	ARG	A1418	127.496	154.622	129.812	1.00	0.44	C
ATOM	11291	CG	ARG	A1418	128.931	154.887	129.334	1.00	0.44	C
ATOM	11292	CD	ARG	A1418	129.866	153.762	129.779	1.00	0.44	C
ATOM	11293	NE	ARG	A1418	131.255	154.187	129.436	1.00	0.44	N
ATOM	11294	CZ	ARG	A1418	132.321	153.394	129.605	1.00	0.44	C
ATOM	11295	NH1	ARG	A1418	132.206	152.078	129.746	1.00	0.44	N
ATOM	11296	NH2	ARG	A1418	133.533	153.937	129.683	1.00	0.44	N
ATOM	11297	N	HIS	A1419	125.684	155.149	127.345	1.00	0.56	N
ATOM	11298	CA	HIS	A1419	125.329	155.288	125.936	1.00	0.56	C
ATOM	11299	C	HIS	A1419	124.407	156.476	125.663	1.00	0.56	C

ATOM	11300	O	HIS	A1419	124.543	157.203	124.680	1.00	0.56	O
ATOM	11301	CB	HIS	A1419	124.644	153.974	125.469	1.00	0.56	C
ATOM	11302	CG	HIS	A1419	123.987	154.039	124.126	1.00	0.56	C
ATOM	11303	ND1	HIS	A1419	124.761	154.176	122.997	1.00	0.56	N
ATOM	11304	CD2	HIS	A1419	122.668	154.109	123.808	1.00	0.56	C
ATOM	11305	CE1	HIS	A1419	123.906	154.335	122.010	1.00	0.56	C
ATOM	11306	NE2	HIS	A1419	122.621	154.299	122.444	1.00	0.56	N
ATOM	11307	N	CYS	A1420	123.424	156.714	126.553	1.00	0.55	N
ATOM	11308	CA	CYS	A1420	122.512	157.840	126.440	1.00	0.55	C
ATOM	11309	C	CYS	A1420	123.206	159.201	126.530	1.00	0.55	C
ATOM	11310	O	CYS	A1420	122.958	160.105	125.729	1.00	0.55	O
ATOM	11311	CB	CYS	A1420	121.437	157.729	127.563	1.00	0.55	C
ATOM	11312	SG	CYS	A1420	119.985	158.821	127.365	1.00	0.55	S
ATOM	11313	N	PHE	A1421	124.112	159.385	127.515	1.00	0.44	N
ATOM	11314	CA	PHE	A1421	124.528	160.726	127.885	1.00	0.44	C
ATOM	11315	C	PHE	A1421	126.001	161.075	127.699	1.00	0.44	C
ATOM	11316	O	PHE	A1421	126.345	162.250	127.872	1.00	0.44	O
ATOM	11317	CB	PHE	A1421	124.207	160.993	129.383	1.00	0.44	C
ATOM	11318	CG	PHE	A1421	122.737	160.894	129.695	1.00	0.44	C
ATOM	11319	CD1	PHE	A1421	121.812	161.789	129.129	1.00	0.44	C
ATOM	11320	CD2	PHE	A1421	122.277	159.948	130.627	1.00	0.44	C
ATOM	11321	CE1	PHE	A1421	120.459	161.745	129.495	1.00	0.44	C
ATOM	11322	CE2	PHE	A1421	120.926	159.896	130.992	1.00	0.44	C
ATOM	11323	CZ	PHE	A1421	120.018	160.802	130.431	1.00	0.44	C
ATOM	11324	N	ARG	A1422	126.925	160.146	127.373	1.00	0.36	N
ATOM	11325	CA	ARG	A1422	128.338	160.505	127.280	1.00	0.36	C
ATOM	11326	C	ARG	A1422	129.095	159.694	126.230	1.00	0.36	C
ATOM	11327	O	ARG	A1422	128.588	159.466	125.137	1.00	0.36	O
ATOM	11328	CB	ARG	A1422	129.045	160.500	128.672	1.00	0.36	C
ATOM	11329	CG	ARG	A1422	130.103	161.626	128.809	1.00	0.36	C
ATOM	11330	CD	ARG	A1422	131.013	161.534	130.042	1.00	0.36	C
ATOM	11331	NE	ARG	A1422	131.877	160.342	129.833	1.00	0.36	N
ATOM	11332	CZ	ARG	A1422	133.206	160.309	129.668	1.00	0.36	C
ATOM	11333	NH1	ARG	A1422	133.950	161.390	129.491	1.00	0.36	N
ATOM	11334	NH2	ARG	A1422	133.788	159.116	129.715	1.00	0.36	N
ATOM	11335	N	TYR	A1423	130.354	159.299	126.518	1.00	0.35	N
ATOM	11336	CA	TYR	A1423	131.225	158.611	125.590	1.00	0.35	C
ATOM	11337	C	TYR	A1423	131.920	157.489	126.337	1.00	0.35	C
ATOM	11338	O	TYR	A1423	132.164	157.556	127.541	1.00	0.35	O
ATOM	11339	CB	TYR	A1423	132.347	159.533	125.031	1.00	0.35	C
ATOM	11340	CG	TYR	A1423	131.796	160.668	124.214	1.00	0.35	C
ATOM	11341	CD1	TYR	A1423	131.111	160.416	123.014	1.00	0.35	C
ATOM	11342	CD2	TYR	A1423	132.006	162.001	124.611	1.00	0.35	C
ATOM	11343	CE1	TYR	A1423	130.630	161.477	122.232	1.00	0.35	C
ATOM	11344	CE2	TYR	A1423	131.537	163.063	123.824	1.00	0.35	C
ATOM	11345	CZ	TYR	A1423	130.843	162.797	122.638	1.00	0.35	C
ATOM	11346	OH	TYR	A1423	130.367	163.853	121.837	1.00	0.35	O
ATOM	11347	N	THR	A1424	132.273	156.401	125.634	1.00	0.44	N
ATOM	11348	CA	THR	A1424	132.989	155.278	126.235	1.00	0.44	C
ATOM	11349	C	THR	A1424	134.495	155.521	126.362	1.00	0.44	C
ATOM	11350	O	THR	A1424	135.063	156.433	125.766	1.00	0.44	O
ATOM	11351	CB	THR	A1424	132.675	153.950	125.549	1.00	0.44	C
ATOM	11352	OG1	THR	A1424	133.210	152.829	126.245	1.00	0.44	O
ATOM	11353	CG2	THR	A1424	133.211	153.925	124.115	1.00	0.44	C
ATOM	11354	N	ALA	A1425	135.194	154.677	127.157	1.00	0.33	N
ATOM	11355	CA	ALA	A1425	136.602	154.795	127.516	1.00	0.33	C
ATOM	11356	C	ALA	A1425	137.526	154.507	126.339	1.00	0.33	C
ATOM	11357	O	ALA	A1425	138.680	154.926	126.291	1.00	0.33	O
ATOM	11358	CB	ALA	A1425	136.932	153.836	128.679	1.00	0.33	C
ATOM	11359	N	SER	A1426	136.993	153.854	125.286	1.00	0.34	N
ATOM	11360	CA	SER	A1426	137.634	153.684	123.988	1.00	0.34	C
ATOM	11361	C	SER	A1426	137.990	154.983	123.268	1.00	0.34	C
ATOM	11362	O	SER	A1426	138.645	154.956	122.229	1.00	0.34	O
ATOM	11363	CB	SER	A1426	136.773	152.834	123.018	1.00	0.34	C
ATOM	11364	OG	SER	A1426	136.309	151.651	123.670	1.00	0.34	O

ATOM	11365	N	ILE	A1427	137.638	156.162	123.839	1.00	0.34	N
ATOM	11366	CA	ILE	A1427	138.109	157.491	123.462	1.00	0.34	C
ATOM	11367	C	ILE	A1427	139.632	157.596	123.489	1.00	0.34	C
ATOM	11368	O	ILE	A1427	140.233	158.222	122.619	1.00	0.34	O
ATOM	11369	CB	ILE	A1427	137.458	158.595	124.313	1.00	0.34	C
ATOM	11370	CG1	ILE	A1427	137.725	160.020	123.764	1.00	0.34	C
ATOM	11371	CG2	ILE	A1427	137.857	158.490	125.805	1.00	0.34	C
ATOM	11372	CD1	ILE	A1427	137.133	160.286	122.373	1.00	0.34	C
ATOM	11373	N	HIS	A1428	140.289	156.879	124.431	1.00	0.24	N
ATOM	11374	CA	HIS	A1428	141.736	156.747	124.568	1.00	0.24	C
ATOM	11375	C	HIS	A1428	142.416	156.249	123.291	1.00	0.24	C
ATOM	11376	O	HIS	A1428	143.455	156.741	122.861	1.00	0.24	O
ATOM	11377	CB	HIS	A1428	142.018	155.738	125.713	1.00	0.24	C
ATOM	11378	CG	HIS	A1428	143.463	155.512	126.023	1.00	0.24	C
ATOM	11379	ND1	HIS	A1428	144.181	156.554	126.553	1.00	0.24	N
ATOM	11380	CD2	HIS	A1428	144.245	154.404	125.926	1.00	0.24	C
ATOM	11381	CE1	HIS	A1428	145.381	156.077	126.781	1.00	0.24	C
ATOM	11382	NE2	HIS	A1428	145.480	154.775	126.417	1.00	0.24	N
ATOM	11383	N	GLY	A1429	141.784	155.273	122.604	1.00	0.34	N
ATOM	11384	CA	GLY	A1429	142.245	154.752	121.317	1.00	0.34	C
ATOM	11385	C	GLY	A1429	141.592	155.416	120.130	1.00	0.34	C
ATOM	11386	O	GLY	A1429	141.726	154.942	119.008	1.00	0.34	O
ATOM	11387	N	ARG	A1430	140.834	156.508	120.361	1.00	0.28	N
ATOM	11388	CA	ARG	A1430	140.046	157.241	119.379	1.00	0.28	C
ATOM	11389	C	ARG	A1430	138.920	156.447	118.734	1.00	0.28	C
ATOM	11390	O	ARG	A1430	138.647	156.561	117.544	1.00	0.28	O
ATOM	11391	CB	ARG	A1430	140.896	157.934	118.287	1.00	0.28	C
ATOM	11392	CG	ARG	A1430	141.947	158.912	118.835	1.00	0.28	C
ATOM	11393	CD	ARG	A1430	142.714	159.584	117.698	1.00	0.28	C
ATOM	11394	NE	ARG	A1430	143.750	160.462	118.328	1.00	0.28	N
ATOM	11395	CZ	ARG	A1430	144.635	161.184	117.629	1.00	0.28	C
ATOM	11396	NH1	ARG	A1430	144.603	161.223	116.301	1.00	0.28	N
ATOM	11397	NH2	ARG	A1430	145.566	161.885	118.272	1.00	0.28	N
ATOM	11398	N	GLY	A1431	138.192	155.648	119.531	1.00	0.30	N
ATOM	11399	CA	GLY	A1431	137.068	154.873	119.031	1.00	0.30	C
ATOM	11400	C	GLY	A1431	135.922	154.879	119.983	1.00	0.30	C
ATOM	11401	O	GLY	A1431	135.314	153.853	120.273	1.00	0.30	O
ATOM	11402	N	ALA	A1432	135.575	156.046	120.536	1.00	0.56	N
ATOM	11403	CA	ALA	A1432	134.374	156.147	121.325	1.00	0.56	C
ATOM	11404	C	ALA	A1432	133.115	156.105	120.473	1.00	0.56	C
ATOM	11405	O	ALA	A1432	132.933	156.900	119.554	1.00	0.56	O
ATOM	11406	CB	ALA	A1432	134.382	157.419	122.186	1.00	0.56	C
ATOM	11407	N	SER	A1433	132.183	155.179	120.785	1.00	0.52	N
ATOM	11408	CA	SER	A1433	130.813	155.277	120.309	1.00	0.52	C
ATOM	11409	C	SER	A1433	130.166	156.552	120.822	1.00	0.52	C
ATOM	11410	O	SER	A1433	130.358	156.943	121.975	1.00	0.52	O
ATOM	11411	CB	SER	A1433	129.947	154.058	120.725	1.00	0.52	C
ATOM	11412	OG	SER	A1433	130.014	153.834	122.136	1.00	0.52	O
ATOM	11413	N	GLN	A1434	129.420	157.247	119.951	1.00	0.44	N
ATOM	11414	CA	GLN	A1434	128.802	158.509	120.288	1.00	0.44	C
ATOM	11415	C	GLN	A1434	127.416	158.305	120.870	1.00	0.44	C
ATOM	11416	O	GLN	A1434	126.871	157.205	120.840	1.00	0.44	O
ATOM	11417	CB	GLN	A1434	128.772	159.459	119.066	1.00	0.44	C
ATOM	11418	CG	GLN	A1434	130.158	159.571	118.384	1.00	0.44	C
ATOM	11419	CD	GLN	A1434	130.269	160.818	117.503	1.00	0.44	C
ATOM	11420	OE1	GLN	A1434	129.287	161.493	117.201	1.00	0.44	O
ATOM	11421	NE2	GLN	A1434	131.518	161.130	117.086	1.00	0.44	N
ATOM	11422	N	LYS	A1435	126.811	159.371	121.435	1.00	0.51	N
ATOM	11423	CA	LYS	A1435	125.456	159.342	121.964	1.00	0.51	C
ATOM	11424	C	LYS	A1435	124.403	158.871	120.971	1.00	0.51	C
ATOM	11425	O	LYS	A1435	124.555	159.039	119.762	1.00	0.51	O
ATOM	11426	CB	LYS	A1435	124.960	160.734	122.423	1.00	0.51	C
ATOM	11427	CG	LYS	A1435	125.942	161.564	123.255	1.00	0.51	C
ATOM	11428	CD	LYS	A1435	125.220	162.818	123.770	1.00	0.51	C
ATOM	11429	CE	LYS	A1435	126.136	163.859	124.406	1.00	0.51	C

ATOM	11430	NZ	LYS	A1435	125.302	164.922	125.008	1.00	0.51	N
ATOM	11431	N	ALA	A1436	123.260	158.351	121.462	1.00	0.60	N
ATOM	11432	CA	ALA	A1436	122.153	157.904	120.630	1.00	0.60	C
ATOM	11433	C	ALA	A1436	121.696	158.902	119.554	1.00	0.60	C
ATOM	11434	O	ALA	A1436	121.623	158.574	118.371	1.00	0.60	O
ATOM	11435	CB	ALA	A1436	120.965	157.570	121.556	1.00	0.60	C
ATOM	11436	N	SER	A1437	121.446	160.177	119.924	1.00	0.52	N
ATOM	11437	CA	SER	A1437	121.127	161.249	118.983	1.00	0.52	C
ATOM	11438	C	SER	A1437	122.250	161.626	118.028	1.00	0.52	C
ATOM	11439	O	SER	A1437	122.002	161.967	116.875	1.00	0.52	O
ATOM	11440	CB	SER	A1437	120.634	162.550	119.663	1.00	0.52	C
ATOM	11441	OG	SER	A1437	119.588	162.247	120.583	1.00	0.52	O
ATOM	11442	N	LEU	A1438	123.524	161.586	118.474	1.00	0.53	N
ATOM	11443	CA	LEU	A1438	124.682	161.837	117.622	1.00	0.53	C
ATOM	11444	C	LEU	A1438	124.886	160.747	116.575	1.00	0.53	C
ATOM	11445	O	LEU	A1438	125.128	161.018	115.402	1.00	0.53	O
ATOM	11446	CB	LEU	A1438	125.986	162.023	118.436	1.00	0.53	C
ATOM	11447	CG	LEU	A1438	126.003	163.210	119.428	1.00	0.53	C
ATOM	11448	CD1	LEU	A1438	127.406	163.347	120.038	1.00	0.53	C
ATOM	11449	CD2	LEU	A1438	125.595	164.546	118.786	1.00	0.53	C
ATOM	11450	N	ILE	A1439	124.718	159.463	116.950	1.00	0.53	N
ATOM	11451	CA	ILE	A1439	124.684	158.352	116.006	1.00	0.53	C
ATOM	11452	C	ILE	A1439	123.521	158.478	115.024	1.00	0.53	C
ATOM	11453	O	ILE	A1439	123.655	158.168	113.838	1.00	0.53	O
ATOM	11454	CB	ILE	A1439	124.675	157.003	116.726	1.00	0.53	C
ATOM	11455	CG1	ILE	A1439	126.024	156.837	117.466	1.00	0.53	C
ATOM	11456	CG2	ILE	A1439	124.440	155.839	115.733	1.00	0.53	C
ATOM	11457	CD1	ILE	A1439	126.138	155.534	118.261	1.00	0.53	C
ATOM	11458	N	LYS	A1440	122.355	158.955	115.510	1.00	0.56	N
ATOM	11459	CA	LYS	A1440	121.172	159.239	114.718	1.00	0.56	C
ATOM	11460	C	LYS	A1440	121.320	160.353	113.685	1.00	0.56	C
ATOM	11461	O	LYS	A1440	120.923	160.184	112.535	1.00	0.56	O
ATOM	11462	CB	LYS	A1440	119.962	159.519	115.636	1.00	0.56	C
ATOM	11463	CG	LYS	A1440	118.601	159.354	114.942	1.00	0.56	C
ATOM	11464	CD	LYS	A1440	117.477	159.100	115.961	1.00	0.56	C
ATOM	11465	CE	LYS	A1440	116.183	158.598	115.315	1.00	0.56	C
ATOM	11466	NZ	LYS	A1440	115.290	158.054	116.333	1.00	0.56	N
ATOM	11467	N	LEU	A1441	121.938	161.510	114.018	1.00	0.46	N
ATOM	11468	CA	LEU	A1441	122.262	162.523	113.014	1.00	0.46	C
ATOM	11469	C	LEU	A1441	123.312	162.029	112.021	1.00	0.46	C
ATOM	11470	O	LEU	A1441	123.243	162.300	110.825	1.00	0.46	O
ATOM	11471	CB	LEU	A1441	122.559	163.927	113.620	1.00	0.46	C
ATOM	11472	CG	LEU	A1441	123.862	164.109	114.427	1.00	0.46	C
ATOM	11473	CD1	LEU	A1441	125.059	164.530	113.558	1.00	0.46	C
ATOM	11474	CD2	LEU	A1441	123.660	165.142	115.548	1.00	0.46	C
ATOM	11475	N	LEU	A1442	124.267	161.199	112.493	1.00	0.53	N
ATOM	11476	CA	LEU	A1442	125.276	160.536	111.685	1.00	0.53	C
ATOM	11477	C	LEU	A1442	124.730	159.402	110.798	1.00	0.53	C
ATOM	11478	O	LEU	A1442	125.457	158.801	110.013	1.00	0.53	O
ATOM	11479	CB	LEU	A1442	126.409	160.048	112.629	1.00	0.53	C
ATOM	11480	CG	LEU	A1442	127.709	159.521	111.983	1.00	0.53	C
ATOM	11481	CD1	LEU	A1442	128.324	160.501	110.971	1.00	0.53	C
ATOM	11482	CD2	LEU	A1442	128.739	159.210	113.079	1.00	0.53	C
ATOM	11483	N	VAL	A1443	123.414	159.078	110.859	1.00	0.56	N
ATOM	11484	CA	VAL	A1443	122.723	158.299	109.825	1.00	0.56	C
ATOM	11485	C	VAL	A1443	122.710	159.033	108.493	1.00	0.56	C
ATOM	11486	O	VAL	A1443	122.911	158.445	107.435	1.00	0.56	O
ATOM	11487	CB	VAL	A1443	121.263	157.979	110.186	1.00	0.56	C
ATOM	11488	CG1	VAL	A1443	120.567	157.161	109.077	1.00	0.56	C
ATOM	11489	CG2	VAL	A1443	121.171	157.178	111.496	1.00	0.56	C
ATOM	11490	N	MET	A1444	122.473	160.357	108.522	1.00	0.43	N
ATOM	11491	CA	MET	A1444	122.318	161.171	107.335	1.00	0.43	C
ATOM	11492	C	MET	A1444	123.658	161.646	106.781	1.00	0.43	C
ATOM	11493	O	MET	A1444	123.942	162.839	106.695	1.00	0.43	O
ATOM	11494	CB	MET	A1444	121.373	162.366	107.624	1.00	0.43	C

ATOM	11495	CG	MET	A1444	119.999	161.955	108.207	1.00	0.43	C
ATOM	11496	SD	MET	A1444	119.085	160.682	107.271	1.00	0.43	S
ATOM	11497	CE	MET	A1444	118.792	161.660	105.770	1.00	0.43	C
ATOM	11498	N	SER	A1445	124.532	160.704	106.376	1.00	0.47	N
ATOM	11499	CA	SER	A1445	125.863	160.998	105.863	1.00	0.47	C
ATOM	11500	C	SER	A1445	125.882	161.247	104.367	1.00	0.47	C
ATOM	11501	O	SER	A1445	126.886	161.685	103.805	1.00	0.47	O
ATOM	11502	CB	SER	A1445	126.842	159.817	106.136	1.00	0.47	C
ATOM	11503	OG	SER	A1445	126.364	158.589	105.578	1.00	0.47	O
ATOM	11504	N	SER	A1446	124.753	160.999	103.682	1.00	0.26	N
ATOM	11505	CA	SER	A1446	124.672	161.028	102.236	1.00	0.26	C
ATOM	11506	C	SER	A1446	123.815	162.183	101.757	1.00	0.26	C
ATOM	11507	O	SER	A1446	122.700	162.422	102.211	1.00	0.26	O
ATOM	11508	CB	SER	A1446	124.124	159.682	101.676	1.00	0.26	C
ATOM	11509	OG	SER	A1446	123.843	159.724	100.270	1.00	0.26	O
ATOM	11510	N	THR	A1447	124.336	162.924	100.761	1.00	0.26	N
ATOM	11511	CA	THR	A1447	123.622	163.924	99.974	1.00	0.26	C
ATOM	11512	C	THR	A1447	122.515	163.320	99.123	1.00	0.26	C
ATOM	11513	O	THR	A1447	121.443	163.893	98.948	1.00	0.26	O
ATOM	11514	CB	THR	A1447	124.568	164.705	99.065	1.00	0.26	C
ATOM	11515	OG1	THR	A1447	125.355	163.835	98.256	1.00	0.26	O
ATOM	11516	CG2	THR	A1447	125.551	165.495	99.940	1.00	0.26	C
ATOM	11517	N	SER	A1448	122.750	162.116	98.563	1.00	0.26	N
ATOM	11518	CA	SER	A1448	121.763	161.381	97.780	1.00	0.26	C
ATOM	11519	C	SER	A1448	120.652	160.808	98.648	1.00	0.26	C
ATOM	11520	O	SER	A1448	120.884	159.979	99.530	1.00	0.26	O
ATOM	11521	CB	SER	A1448	122.403	160.229	96.946	1.00	0.26	C
ATOM	11522	OG	SER	A1448	121.439	159.375	96.311	1.00	0.26	O
ATOM	11523	N	ALA	A1449	119.401	161.226	98.364	1.00	0.30	N
ATOM	11524	CA	ALA	A1449	118.180	160.743	98.973	1.00	0.30	C
ATOM	11525	C	ALA	A1449	117.908	159.260	98.742	1.00	0.30	C
ATOM	11526	O	ALA	A1449	117.448	158.562	99.645	1.00	0.30	O
ATOM	11527	CB	ALA	A1449	116.997	161.584	98.459	1.00	0.30	C
ATOM	11528	N	GLU	A1450	118.219	158.738	97.535	1.00	0.26	N
ATOM	11529	CA	GLU	A1450	118.120	157.326	97.207	1.00	0.26	C
ATOM	11530	C	GLU	A1450	119.024	156.462	98.079	1.00	0.26	C
ATOM	11531	O	GLU	A1450	118.597	155.458	98.644	1.00	0.26	O
ATOM	11532	CB	GLU	A1450	118.482	157.091	95.723	1.00	0.26	C
ATOM	11533	CG	GLU	A1450	117.532	157.794	94.724	1.00	0.26	C
ATOM	11534	CD	GLU	A1450	117.931	157.485	93.282	1.00	0.26	C
ATOM	11535	OE1	GLU	A1450	119.134	157.669	92.963	1.00	0.26	O
ATOM	11536	OE2	GLU	A1450	117.039	157.069	92.499	1.00	0.26	O
ATOM	11537	N	ARG	A1451	120.292	156.889	98.283	1.00	0.29	N
ATOM	11538	CA	ARG	A1451	121.206	156.245	99.216	1.00	0.29	C
ATOM	11539	C	ARG	A1451	120.741	156.302	100.673	1.00	0.29	C
ATOM	11540	O	ARG	A1451	120.905	155.335	101.405	1.00	0.29	O
ATOM	11541	CB	ARG	A1451	122.638	156.829	99.124	1.00	0.29	C
ATOM	11542	CG	ARG	A1451	123.397	156.480	97.826	1.00	0.29	C
ATOM	11543	CD	ARG	A1451	124.820	157.064	97.745	1.00	0.29	C
ATOM	11544	NE	ARG	A1451	125.649	156.449	98.842	1.00	0.29	N
ATOM	11545	CZ	ARG	A1451	126.865	156.887	99.207	1.00	0.29	C
ATOM	11546	NH1	ARG	A1451	127.495	157.819	98.496	1.00	0.29	N
ATOM	11547	NH2	ARG	A1451	127.464	156.400	100.294	1.00	0.29	N
ATOM	11548	N	ASN	A1452	120.141	157.430	101.123	1.00	0.28	N
ATOM	11549	CA	ASN	A1452	119.566	157.568	102.462	1.00	0.28	C
ATOM	11550	C	ASN	A1452	118.393	156.628	102.756	1.00	0.28	C
ATOM	11551	O	ASN	A1452	118.190	156.194	103.891	1.00	0.28	O
ATOM	11552	CB	ASN	A1452	119.065	159.015	102.742	1.00	0.28	C
ATOM	11553	CG	ASN	A1452	120.245	159.964	102.907	1.00	0.28	C
ATOM	11554	OD1	ASN	A1452	121.220	159.651	103.587	1.00	0.28	O
ATOM	11555	ND2	ASN	A1452	120.163	161.176	102.317	1.00	0.28	N
ATOM	11556	N	GLN	A1453	117.533	156.339	101.756	1.00	0.33	N
ATOM	11557	CA	GLN	A1453	116.461	155.374	101.942	1.00	0.33	C
ATOM	11558	C	GLN	A1453	116.878	153.926	101.759	1.00	0.33	C
ATOM	11559	O	GLN	A1453	116.351	153.057	102.458	1.00	0.33	O

ATOM	11560	CB	GLN	A1453	115.210	155.683	101.085	1.00	0.33	C
ATOM	11561	CG	GLN	A1453	114.577	157.069	101.370	1.00	0.33	C
ATOM	11562	CD	GLN	A1453	114.243	157.318	102.845	1.00	0.33	C
ATOM	11563	OE1	GLN	A1453	114.005	156.434	103.674	1.00	0.33	O
ATOM	11564	NE2	GLN	A1453	114.224	158.618	103.220	1.00	0.33	N
ATOM	11565	N	GLY	A1454	117.819	153.642	100.828	1.00	0.40	N
ATOM	11566	CA	GLY	A1454	118.398	152.318	100.582	1.00	0.40	C
ATOM	11567	C	GLY	A1454	118.850	151.556	101.809	1.00	0.40	C
ATOM	11568	O	GLY	A1454	119.505	152.089	102.700	1.00	0.40	O
ATOM	11569	N	ARG	A1455	118.504	150.260	101.880	1.00	0.63	N
ATOM	11570	CA	ARG	A1455	118.823	149.419	103.019	1.00	0.63	C
ATOM	11571	C	ARG	A1455	119.819	148.339	102.617	1.00	0.63	C
ATOM	11572	O	ARG	A1455	120.885	148.623	102.078	1.00	0.63	O
ATOM	11573	CB	ARG	A1455	117.534	148.825	103.650	1.00	0.63	C
ATOM	11574	CG	ARG	A1455	116.579	149.892	104.229	1.00	0.63	C
ATOM	11575	CD	ARG	A1455	115.326	149.270	104.856	1.00	0.63	C
ATOM	11576	NE	ARG	A1455	114.551	150.367	105.519	1.00	0.63	N
ATOM	11577	CZ	ARG	A1455	113.386	150.156	106.148	1.00	0.63	C
ATOM	11578	NH1	ARG	A1455	112.775	148.978	106.113	1.00	0.63	N
ATOM	11579	NH2	ARG	A1455	112.808	151.134	106.846	1.00	0.63	N
ATOM	11580	N	LEU	A1456	119.508	147.058	102.900	1.00	0.75	N
ATOM	11581	CA	LEU	A1456	120.334	145.939	102.501	1.00	0.75	C
ATOM	11582	C	LEU	A1456	119.850	145.382	101.185	1.00	0.75	C
ATOM	11583	O	LEU	A1456	118.691	145.002	101.048	1.00	0.75	O
ATOM	11584	CB	LEU	A1456	120.257	144.751	103.492	1.00	0.75	C
ATOM	11585	CG	LEU	A1456	120.862	144.987	104.886	1.00	0.75	C
ATOM	11586	CD1	LEU	A1456	120.690	143.701	105.705	1.00	0.75	C
ATOM	11587	CD2	LEU	A1456	122.345	145.378	104.828	1.00	0.75	C
ATOM	11588	N	ASN	A1457	120.750	145.273	100.197	1.00	0.72	N
ATOM	11589	CA	ASN	A1457	120.435	144.616	98.948	1.00	0.72	C
ATOM	11590	C	ASN	A1457	120.506	143.078	99.062	1.00	0.72	C
ATOM	11591	O	ASN	A1457	121.261	142.572	99.900	1.00	0.72	O
ATOM	11592	CB	ASN	A1457	121.333	145.183	97.822	1.00	0.72	C
ATOM	11593	CG	ASN	A1457	122.824	145.105	98.116	1.00	0.72	C
ATOM	11594	OD1	ASN	A1457	123.470	146.053	98.551	1.00	0.72	O
ATOM	11595	ND2	ASN	A1457	123.426	143.923	97.856	1.00	0.72	N
ATOM	11596	N	PRO	A1458	119.800	142.267	98.260	1.00	0.72	N
ATOM	11597	CA	PRO	A1458	119.611	140.833	98.520	1.00	0.72	C
ATOM	11598	C	PRO	A1458	120.895	140.007	98.518	1.00	0.72	C
ATOM	11599	O	PRO	A1458	120.948	138.962	99.161	1.00	0.72	O
ATOM	11600	CB	PRO	A1458	118.604	140.380	97.443	1.00	0.72	C
ATOM	11601	CG	PRO	A1458	118.639	141.483	96.381	1.00	0.72	C
ATOM	11602	CD	PRO	A1458	118.888	142.737	97.213	1.00	0.72	C
ATOM	11603	N	ASN	A1459	121.953	140.442	97.799	1.00	0.67	N
ATOM	11604	CA	ASN	A1459	123.273	139.819	97.842	1.00	0.67	C
ATOM	11605	C	ASN	A1459	123.905	139.830	99.243	1.00	0.67	C
ATOM	11606	O	ASN	A1459	124.374	138.803	99.727	1.00	0.67	O
ATOM	11607	CB	ASN	A1459	124.203	140.513	96.795	1.00	0.67	C
ATOM	11608	CG	ASN	A1459	125.523	139.770	96.569	1.00	0.67	C
ATOM	11609	OD1	ASN	A1459	125.519	138.600	96.185	1.00	0.67	O
ATOM	11610	ND2	ASN	A1459	126.670	140.461	96.771	1.00	0.67	N
ATOM	11611	N	GLN	A1460	123.881	140.976	99.963	1.00	0.68	N
ATOM	11612	CA	GLN	A1460	124.498	141.057	101.279	1.00	0.68	C
ATOM	11613	C	GLN	A1460	123.574	140.544	102.378	1.00	0.68	C
ATOM	11614	O	GLN	A1460	124.035	140.102	103.429	1.00	0.68	O
ATOM	11615	CB	GLN	A1460	125.045	142.484	101.573	1.00	0.68	C
ATOM	11616	CG	GLN	A1460	123.994	143.619	101.563	1.00	0.68	C
ATOM	11617	CD	GLN	A1460	124.546	145.047	101.729	1.00	0.68	C
ATOM	11618	OE1	GLN	A1460	123.751	145.982	101.833	1.00	0.68	O
ATOM	11619	NE2	GLN	A1460	125.880	145.252	101.753	1.00	0.68	N
ATOM	11620	N	GLU	A1461	122.244	140.494	102.120	1.00	0.72	N
ATOM	11621	CA	GLU	A1461	121.288	139.778	102.955	1.00	0.72	C
ATOM	11622	C	GLU	A1461	121.585	138.278	103.001	1.00	0.72	C
ATOM	11623	O	GLU	A1461	121.727	137.677	104.066	1.00	0.72	O
ATOM	11624	CB	GLU	A1461	119.849	139.988	102.406	1.00	0.72	C

ATOM	11625	CG	GLU	A1461	118.746	139.290	103.243	1.00	0.72	C
ATOM	11626	CD	GLU	A1461	117.370	139.264	102.581	1.00	0.72	C
ATOM	11627	OE1	GLU	A1461	116.629	138.269	102.803	1.00	0.72	O
ATOM	11628	OE2	GLU	A1461	116.969	140.237	101.905	1.00	0.72	O
ATOM	11629	N	ARG	A1462	121.767	137.652	101.822	1.00	0.67	N
ATOM	11630	CA	ARG	A1462	122.092	136.244	101.687	1.00	0.67	C
ATOM	11631	C	ARG	A1462	123.464	135.853	102.223	1.00	0.67	C
ATOM	11632	O	ARG	A1462	123.659	134.773	102.774	1.00	0.67	O
ATOM	11633	CB	ARG	A1462	121.929	135.820	100.210	1.00	0.67	C
ATOM	11634	CG	ARG	A1462	122.022	134.295	100.001	1.00	0.67	C
ATOM	11635	CD	ARG	A1462	121.603	133.822	98.607	1.00	0.67	C
ATOM	11636	NE	ARG	A1462	120.120	134.032	98.509	1.00	0.67	N
ATOM	11637	CZ	ARG	A1462	119.404	133.957	97.380	1.00	0.67	C
ATOM	11638	NH1	ARG	A1462	119.989	133.691	96.215	1.00	0.67	N
ATOM	11639	NH2	ARG	A1462	118.088	134.166	97.410	1.00	0.67	N
ATOM	11640	N	MET	A1463	124.480	136.722	102.070	1.00	0.60	N
ATOM	11641	CA	MET	A1463	125.775	136.497	102.688	1.00	0.60	C
ATOM	11642	C	MET	A1463	125.778	136.539	104.220	1.00	0.60	C
ATOM	11643	O	MET	A1463	126.409	135.699	104.864	1.00	0.60	O
ATOM	11644	CB	MET	A1463	126.834	137.462	102.100	1.00	0.60	C
ATOM	11645	CG	MET	A1463	127.730	136.794	101.033	1.00	0.60	C
ATOM	11646	SD	MET	A1463	128.707	135.365	101.608	1.00	0.60	S
ATOM	11647	CE	MET	A1463	129.527	136.182	103.007	1.00	0.60	C
ATOM	11648	N	LEU	A1464	125.067	137.516	104.831	1.00	0.66	N
ATOM	11649	CA	LEU	A1464	124.920	137.661	106.274	1.00	0.66	C
ATOM	11650	C	LEU	A1464	124.125	136.546	106.950	1.00	0.66	C
ATOM	11651	O	LEU	A1464	124.464	136.078	108.040	1.00	0.66	O
ATOM	11652	CB	LEU	A1464	124.253	139.028	106.591	1.00	0.66	C
ATOM	11653	CG	LEU	A1464	123.991	139.332	108.087	1.00	0.66	C
ATOM	11654	CD1	LEU	A1464	125.267	139.270	108.939	1.00	0.66	C
ATOM	11655	CD2	LEU	A1464	123.331	140.706	108.253	1.00	0.66	C
ATOM	11656	N	PHE	A1465	123.022	136.099	106.326	1.00	0.69	N
ATOM	11657	CA	PHE	A1465	122.177	135.058	106.868	1.00	0.69	C
ATOM	11658	C	PHE	A1465	122.295	133.833	105.963	1.00	0.69	C
ATOM	11659	O	PHE	A1465	121.789	133.872	104.847	1.00	0.69	O
ATOM	11660	CB	PHE	A1465	120.687	135.500	106.898	1.00	0.69	C
ATOM	11661	CG	PHE	A1465	120.449	136.673	107.811	1.00	0.69	C
ATOM	11662	CD1	PHE	A1465	120.512	137.984	107.310	1.00	0.69	C
ATOM	11663	CD2	PHE	A1465	120.065	136.480	109.148	1.00	0.69	C
ATOM	11664	CE1	PHE	A1465	120.204	139.079	108.124	1.00	0.69	C
ATOM	11665	CE2	PHE	A1465	119.765	137.575	109.972	1.00	0.69	C
ATOM	11666	CZ	PHE	A1465	119.844	138.876	109.460	1.00	0.69	C
ATOM	11667	N	PRO	A1466	122.884	132.700	106.324	1.00	0.66	N
ATOM	11668	CA	PRO	A1466	123.264	131.705	105.314	1.00	0.66	C
ATOM	11669	C	PRO	A1466	122.151	130.691	105.095	1.00	0.66	C
ATOM	11670	O	PRO	A1466	122.420	129.627	104.545	1.00	0.66	O
ATOM	11671	CB	PRO	A1466	124.525	131.054	105.910	1.00	0.66	C
ATOM	11672	CG	PRO	A1466	124.355	131.213	107.420	1.00	0.66	C
ATOM	11673	CD	PRO	A1466	123.709	132.589	107.528	1.00	0.66	C
ATOM	11674	N	GLN	A1467	120.918	131.015	105.528	1.00	0.66	N
ATOM	11675	CA	GLN	A1467	119.721	130.193	105.441	1.00	0.66	C
ATOM	11676	C	GLN	A1467	118.526	131.082	105.095	1.00	0.66	C
ATOM	11677	O	GLN	A1467	117.409	130.882	105.570	1.00	0.66	O
ATOM	11678	CB	GLN	A1467	119.441	129.447	106.776	1.00	0.66	C
ATOM	11679	CG	GLN	A1467	120.483	128.343	107.061	1.00	0.66	C
ATOM	11680	CD	GLN	A1467	120.269	127.675	108.417	1.00	0.66	C
ATOM	11681	OE1	GLN	A1467	120.200	128.320	109.469	1.00	0.66	O
ATOM	11682	NE2	GLN	A1467	120.227	126.324	108.404	1.00	0.66	N
ATOM	11683	N	VAL	A1468	118.732	132.125	104.247	1.00	0.74	N
ATOM	11684	CA	VAL	A1468	117.668	133.029	103.791	1.00	0.74	C
ATOM	11685	C	VAL	A1468	116.566	132.282	103.072	1.00	0.74	C
ATOM	11686	O	VAL	A1468	115.387	132.497	103.330	1.00	0.74	O
ATOM	11687	CB	VAL	A1468	118.183	134.131	102.850	1.00	0.74	C
ATOM	11688	CG1	VAL	A1468	117.061	134.901	102.125	1.00	0.74	C
ATOM	11689	CG2	VAL	A1468	118.964	135.159	103.667	1.00	0.74	C

ATOM	11690	N	GLN	A1469	116.927	131.342	102.185	1.00	0.68	N
ATOM	11691	CA	GLN	A1469	116.011	130.617	101.333	1.00	0.68	C
ATOM	11692	C	GLN	A1469	114.969	129.813	102.110	1.00	0.68	C
ATOM	11693	O	GLN	A1469	113.773	129.859	101.822	1.00	0.68	O
ATOM	11694	CB	GLN	A1469	116.816	129.688	100.386	1.00	0.68	C
ATOM	11695	CG	GLN	A1469	117.847	130.438	99.495	1.00	0.68	C
ATOM	11696	CD	GLN	A1469	119.235	130.614	100.128	1.00	0.68	C
ATOM	11697	OE1	GLN	A1469	119.497	131.554	100.877	1.00	0.68	O
ATOM	11698	NE2	GLN	A1469	120.184	129.713	99.784	1.00	0.68	N
ATOM	11699	N	GLU	A1470	115.382	129.096	103.171	1.00	0.68	N
ATOM	11700	CA	GLU	A1470	114.499	128.457	104.125	1.00	0.68	C
ATOM	11701	C	GLU	A1470	113.608	129.432	104.879	1.00	0.68	C
ATOM	11702	O	GLU	A1470	112.418	129.177	105.063	1.00	0.68	O
ATOM	11703	CB	GLU	A1470	115.281	127.624	105.171	1.00	0.68	C
ATOM	11704	CG	GLU	A1470	116.195	126.528	104.568	1.00	0.68	C
ATOM	11705	CD	GLU	A1470	117.621	127.022	104.319	1.00	0.68	C
ATOM	11706	OE1	GLU	A1470	117.803	127.903	103.437	1.00	0.68	O
ATOM	11707	OE2	GLU	A1470	118.531	126.533	105.033	1.00	0.68	O
ATOM	11708	N	TYR	A1471	114.155	130.586	105.312	1.00	0.76	N
ATOM	11709	CA	TYR	A1471	113.410	131.651	105.965	1.00	0.76	C
ATOM	11710	C	TYR	A1471	112.347	132.266	105.052	1.00	0.76	C
ATOM	11711	O	TYR	A1471	111.221	132.520	105.481	1.00	0.76	O
ATOM	11712	CB	TYR	A1471	114.341	132.780	106.495	1.00	0.76	C
ATOM	11713	CG	TYR	A1471	115.375	132.376	107.523	1.00	0.76	C
ATOM	11714	CD1	TYR	A1471	115.408	131.135	108.196	1.00	0.76	C
ATOM	11715	CD2	TYR	A1471	116.355	133.332	107.842	1.00	0.76	C
ATOM	11716	CE1	TYR	A1471	116.398	130.868	109.155	1.00	0.76	C
ATOM	11717	CE2	TYR	A1471	117.345	133.067	108.797	1.00	0.76	C
ATOM	11718	CZ	TYR	A1471	117.364	131.832	109.452	1.00	0.76	C
ATOM	11719	OH	TYR	A1471	118.370	131.549	110.397	1.00	0.76	O
ATOM	11720	N	GLU	A1472	112.667	132.470	103.755	1.00	0.72	N
ATOM	11721	CA	GLU	A1472	111.737	132.867	102.709	1.00	0.72	C
ATOM	11722	C	GLU	A1472	110.618	131.857	102.499	1.00	0.72	C
ATOM	11723	O	GLU	A1472	109.451	132.237	102.439	1.00	0.72	O
ATOM	11724	CB	GLU	A1472	112.462	133.127	101.359	1.00	0.72	C
ATOM	11725	CG	GLU	A1472	113.398	134.359	101.410	1.00	0.72	C
ATOM	11726	CD	GLU	A1472	114.162	134.643	100.114	1.00	0.72	C
ATOM	11727	OE1	GLU	A1472	114.901	133.757	99.608	1.00	0.72	O
ATOM	11728	OE2	GLU	A1472	114.050	135.811	99.656	1.00	0.72	O
ATOM	11729	N	ARG	A1473	110.927	130.538	102.454	1.00	0.65	N
ATOM	11730	CA	ARG	A1473	109.911	129.490	102.403	1.00	0.65	C
ATOM	11731	C	ARG	A1473	108.998	129.454	103.623	1.00	0.65	C
ATOM	11732	O	ARG	A1473	107.791	129.279	103.504	1.00	0.65	O
ATOM	11733	CB	ARG	A1473	110.492	128.056	102.257	1.00	0.65	C
ATOM	11734	CG	ARG	A1473	111.316	127.801	100.979	1.00	0.65	C
ATOM	11735	CD	ARG	A1473	111.350	126.335	100.521	1.00	0.65	C
ATOM	11736	NE	ARG	A1473	111.800	125.505	101.691	1.00	0.65	N
ATOM	11737	CZ	ARG	A1473	111.335	124.280	101.968	1.00	0.65	C
ATOM	11738	NH1	ARG	A1473	110.667	123.566	101.069	1.00	0.65	N
ATOM	11739	NH2	ARG	A1473	111.537	123.744	103.169	1.00	0.65	N
ATOM	11740	N	VAL	A1474	109.545	129.619	104.845	1.00	0.73	N
ATOM	11741	CA	VAL	A1474	108.732	129.733	106.050	1.00	0.73	C
ATOM	11742	C	VAL	A1474	107.842	130.968	106.015	1.00	0.73	C
ATOM	11743	O	VAL	A1474	106.652	130.893	106.298	1.00	0.73	O
ATOM	11744	CB	VAL	A1474	109.591	129.715	107.315	1.00	0.73	C
ATOM	11745	CG1	VAL	A1474	108.769	130.032	108.583	1.00	0.73	C
ATOM	11746	CG2	VAL	A1474	110.213	128.312	107.463	1.00	0.73	C
ATOM	11747	N	LEU	A1475	108.373	132.140	105.609	1.00	0.77	N
ATOM	11748	CA	LEU	A1475	107.588	133.358	105.515	1.00	0.77	C
ATOM	11749	C	LEU	A1475	106.450	133.301	104.498	1.00	0.77	C
ATOM	11750	O	LEU	A1475	105.332	133.713	104.799	1.00	0.77	O
ATOM	11751	CB	LEU	A1475	108.500	134.578	105.243	1.00	0.77	C
ATOM	11752	CG	LEU	A1475	107.796	135.953	105.316	1.00	0.77	C
ATOM	11753	CD1	LEU	A1475	107.118	136.210	106.673	1.00	0.77	C
ATOM	11754	CD2	LEU	A1475	108.790	137.081	105.005	1.00	0.77	C



ATOM	11755	N	THR	A1476	106.675	132.739	103.288	1.00	0.73	N
ATOM	11756	CA	THR	A1476	105.617	132.550	102.289	1.00	0.73	C
ATOM	11757	C	THR	A1476	104.513	131.616	102.744	1.00	0.73	C
ATOM	11758	O	THR	A1476	103.341	131.870	102.489	1.00	0.73	O
ATOM	11759	CB	THR	A1476	106.088	132.120	100.901	1.00	0.73	C
ATOM	11760	OG1	THR	A1476	106.893	130.951	100.934	1.00	0.73	O
ATOM	11761	CG2	THR	A1476	106.947	133.235	100.292	1.00	0.73	C
ATOM	11762	N	LEU	A1477	104.844	130.536	103.479	1.00	0.73	N
ATOM	11763	CA	LEU	A1477	103.851	129.647	104.063	1.00	0.73	C
ATOM	11764	C	LEU	A1477	103.126	130.233	105.282	1.00	0.73	C
ATOM	11765	O	LEU	A1477	102.083	129.728	105.692	1.00	0.73	O
ATOM	11766	CB	LEU	A1477	104.501	128.298	104.471	1.00	0.73	C
ATOM	11767	CG	LEU	A1477	105.068	127.465	103.298	1.00	0.73	C
ATOM	11768	CD1	LEU	A1477	105.860	126.261	103.835	1.00	0.73	C
ATOM	11769	CD2	LEU	A1477	103.971	126.986	102.334	1.00	0.73	C
ATOM	11770	N	LEU	A1478	103.635	131.322	105.899	1.00	0.76	N
ATOM	11771	CA	LEU	A1478	102.970	131.959	107.027	1.00	0.76	C
ATOM	11772	C	LEU	A1478	102.075	133.127	106.636	1.00	0.76	C
ATOM	11773	O	LEU	A1478	101.286	133.593	107.457	1.00	0.76	O
ATOM	11774	CB	LEU	A1478	103.994	132.500	108.063	1.00	0.76	C
ATOM	11775	CG	LEU	A1478	104.714	131.425	108.906	1.00	0.76	C
ATOM	11776	CD1	LEU	A1478	105.731	132.089	109.848	1.00	0.76	C
ATOM	11777	CD2	LEU	A1478	103.742	130.552	109.716	1.00	0.76	C
ATOM	11778	N	ASP	A1479	102.094	133.606	105.377	1.00	0.66	N
ATOM	11779	CA	ASP	A1479	101.336	134.791	104.990	1.00	0.66	C
ATOM	11780	C	ASP	A1479	99.915	134.434	104.510	1.00	0.66	C
ATOM	11781	O	ASP	A1479	99.233	135.174	103.807	1.00	0.66	O
ATOM	11782	CB	ASP	A1479	102.159	135.610	103.955	1.00	0.66	C
ATOM	11783	CG	ASP	A1479	101.871	137.107	104.023	1.00	0.66	C
ATOM	11784	OD1	ASP	A1479	102.405	137.828	103.142	1.00	0.66	O
ATOM	11785	OD2	ASP	A1479	101.172	137.550	104.971	1.00	0.66	O
ATOM	11786	N	GLU	A1480	99.414	133.250	104.924	1.00	0.59	N
ATOM	11787	CA	GLU	A1480	98.059	132.797	104.657	1.00	0.59	C
ATOM	11788	C	GLU	A1480	97.253	132.585	105.942	1.00	0.59	C
ATOM	11789	O	GLU	A1480	96.099	132.162	105.904	1.00	0.59	O
ATOM	11790	CB	GLU	A1480	98.085	131.474	103.850	1.00	0.59	C
ATOM	11791	CG	GLU	A1480	98.575	131.646	102.386	1.00	0.59	C
ATOM	11792	CD	GLU	A1480	98.495	130.356	101.565	1.00	0.59	C
ATOM	11793	OE1	GLU	A1480	98.113	129.301	102.135	1.00	0.59	O
ATOM	11794	OE2	GLU	A1480	98.806	130.420	100.346	1.00	0.59	O
ATOM	11795	N	VAL	A1481	97.815	132.906	107.130	1.00	0.73	N
ATOM	11796	CA	VAL	A1481	97.166	132.675	108.425	1.00	0.73	C
ATOM	11797	C	VAL	A1481	96.972	133.982	109.183	1.00	0.73	C
ATOM	11798	O	VAL	A1481	97.086	134.074	110.404	1.00	0.73	O
ATOM	11799	CB	VAL	A1481	97.864	131.630	109.298	1.00	0.73	C
ATOM	11800	CG1	VAL	A1481	97.670	130.241	108.656	1.00	0.73	C
ATOM	11801	CG2	VAL	A1481	99.359	131.943	109.494	1.00	0.73	C
ATOM	11802	N	THR	A1482	96.669	135.065	108.448	1.00	0.66	N
ATOM	11803	CA	THR	A1482	96.497	136.410	108.986	1.00	0.66	C
ATOM	11804	C	THR	A1482	95.165	136.628	109.704	1.00	0.66	C
ATOM	11805	O	THR	A1482	95.030	137.524	110.541	1.00	0.66	O
ATOM	11806	CB	THR	A1482	96.644	137.451	107.880	1.00	0.66	C
ATOM	11807	OG1	THR	A1482	95.738	137.193	106.817	1.00	0.66	O
ATOM	11808	CG2	THR	A1482	98.055	137.352	107.279	1.00	0.66	C
ATOM	11809	N	ALA	A1483	94.157	135.780	109.422	1.00	0.73	N
ATOM	11810	CA	ALA	A1483	92.838	135.830	110.012	1.00	0.73	C
ATOM	11811	C	ALA	A1483	92.640	134.719	111.040	1.00	0.73	C
ATOM	11812	O	ALA	A1483	93.313	133.691	111.026	1.00	0.73	O
ATOM	11813	CB	ALA	A1483	91.779	135.694	108.899	1.00	0.73	C
ATOM	11814	N	LEU	A1484	91.693	134.902	111.987	1.00	0.71	N
ATOM	11815	CA	LEU	A1484	91.333	133.864	112.938	1.00	0.71	C
ATOM	11816	C	LEU	A1484	90.154	133.072	112.397	1.00	0.71	C
ATOM	11817	O	LEU	A1484	88.991	133.426	112.579	1.00	0.71	O
ATOM	11818	CB	LEU	A1484	91.017	134.475	114.327	1.00	0.71	C
ATOM	11819	CG	LEU	A1484	90.822	133.445	115.466	1.00	0.71	C

ATOM	11820	CD1	LEU	A1484	91.674	133.802	116.693	1.00	0.71	C
ATOM	11821	CD2	LEU	A1484	89.349	133.316	115.887	1.00	0.71	C
ATOM	11822	N	THR	A1485	90.436	131.987	111.659	1.00	0.69	N
ATOM	11823	CA	THR	A1485	89.422	131.229	110.947	1.00	0.69	C
ATOM	11824	C	THR	A1485	89.716	129.754	111.035	1.00	0.69	C
ATOM	11825	O	THR	A1485	90.823	129.296	110.769	1.00	0.69	O
ATOM	11826	CB	THR	A1485	89.350	131.606	109.469	1.00	0.69	C
ATOM	11827	OG1	THR	A1485	90.648	131.798	108.888	1.00	0.69	O
ATOM	11828	CG2	THR	A1485	88.617	132.935	109.310	1.00	0.69	C
ATOM	11829	N	GLY	A1486	88.718	128.947	111.431	1.00	0.78	N
ATOM	11830	CA	GLY	A1486	88.947	127.528	111.639	1.00	0.78	C
ATOM	11831	C	GLY	A1486	87.821	126.919	112.417	1.00	0.78	C
ATOM	11832	O	GLY	A1486	86.859	127.598	112.783	1.00	0.78	O
ATOM	11833	N	LYS	A1487	87.893	125.603	112.688	1.00	0.68	N
ATOM	11834	CA	LYS	A1487	86.827	124.870	113.349	1.00	0.68	C
ATOM	11835	C	LYS	A1487	87.319	124.002	114.498	1.00	0.68	C
ATOM	11836	O	LYS	A1487	88.400	123.423	114.477	1.00	0.68	O
ATOM	11837	CB	LYS	A1487	86.044	123.944	112.371	1.00	0.68	C
ATOM	11838	CG	LYS	A1487	85.233	124.647	111.261	1.00	0.68	C
ATOM	11839	CD	LYS	A1487	84.211	125.700	111.743	1.00	0.68	C
ATOM	11840	CE	LYS	A1487	83.128	125.180	112.694	1.00	0.68	C
ATOM	11841	NZ	LYS	A1487	82.372	126.326	113.252	1.00	0.68	N
ATOM	11842	N	PHE	A1488	86.465	123.867	115.535	1.00	0.68	N
ATOM	11843	CA	PHE	A1488	86.604	122.923	116.632	1.00	0.68	C
ATOM	11844	C	PHE	A1488	86.124	121.527	116.239	1.00	0.68	C
ATOM	11845	O	PHE	A1488	85.133	121.018	116.758	1.00	0.68	O
ATOM	11846	CB	PHE	A1488	85.794	123.412	117.870	1.00	0.68	C
ATOM	11847	CG	PHE	A1488	86.606	124.367	118.693	1.00	0.68	C
ATOM	11848	CD1	PHE	A1488	87.670	123.857	119.452	1.00	0.68	C
ATOM	11849	CD2	PHE	A1488	86.318	125.742	118.759	1.00	0.68	C
ATOM	11850	CE1	PHE	A1488	88.449	124.700	120.250	1.00	0.68	C
ATOM	11851	CE2	PHE	A1488	87.091	126.590	119.567	1.00	0.68	C
ATOM	11852	CZ	PHE	A1488	88.160	126.068	120.307	1.00	0.68	C
ATOM	11853	N	VAL	A1489	86.811	120.859	115.293	1.00	0.57	N
ATOM	11854	CA	VAL	A1489	86.504	119.474	114.964	1.00	0.57	C
ATOM	11855	C	VAL	A1489	87.325	118.565	115.852	1.00	0.57	C
ATOM	11856	O	VAL	A1489	88.524	118.365	115.650	1.00	0.57	O
ATOM	11857	CB	VAL	A1489	86.737	119.116	113.495	1.00	0.57	C
ATOM	11858	CG1	VAL	A1489	86.490	117.609	113.244	1.00	0.57	C
ATOM	11859	CG2	VAL	A1489	85.769	119.944	112.628	1.00	0.57	C
ATOM	11860	N	VAL	A1490	86.677	117.967	116.874	1.00	0.56	N
ATOM	11861	CA	VAL	A1490	87.275	116.901	117.656	1.00	0.56	C
ATOM	11862	C	VAL	A1490	87.546	115.672	116.796	1.00	0.56	C
ATOM	11863	O	VAL	A1490	86.702	115.170	116.056	1.00	0.56	O
ATOM	11864	CB	VAL	A1490	86.507	116.576	118.939	1.00	0.56	C
ATOM	11865	CG1	VAL	A1490	85.064	116.119	118.646	1.00	0.56	C
ATOM	11866	CG2	VAL	A1490	87.273	115.533	119.782	1.00	0.56	C
ATOM	11867	N	ARG	A1491	88.799	115.203	116.839	1.00	0.41	N
ATOM	11868	CA	ARG	A1491	89.271	114.078	116.079	1.00	0.41	C
ATOM	11869	C	ARG	A1491	89.287	112.811	116.900	1.00	0.41	C
ATOM	11870	O	ARG	A1491	89.010	112.799	118.097	1.00	0.41	O
ATOM	11871	CB	ARG	A1491	90.676	114.391	115.503	1.00	0.41	C
ATOM	11872	CG	ARG	A1491	90.599	115.082	114.128	1.00	0.41	C
ATOM	11873	CD	ARG	A1491	90.216	114.065	113.051	1.00	0.41	C
ATOM	11874	NE	ARG	A1491	90.255	114.721	111.711	1.00	0.41	N
ATOM	11875	CZ	ARG	A1491	89.780	114.110	110.619	1.00	0.41	C
ATOM	11876	NH1	ARG	A1491	89.395	112.836	110.627	1.00	0.41	N
ATOM	11877	NH2	ARG	A1491	89.669	114.794	109.481	1.00	0.41	N
ATOM	11878	N	GLU	A1492	89.609	111.686	116.229	1.00	0.41	N
ATOM	11879	CA	GLU	A1492	89.884	110.406	116.839	1.00	0.41	C
ATOM	11880	C	GLU	A1492	90.881	110.487	118.001	1.00	0.41	C
ATOM	11881	O	GLU	A1492	91.795	111.308	117.986	1.00	0.41	O
ATOM	11882	CB	GLU	A1492	90.428	109.395	115.789	1.00	0.41	C
ATOM	11883	CG	GLU	A1492	89.774	109.454	114.376	1.00	0.41	C
ATOM	11884	CD	GLU	A1492	90.498	110.372	113.400	1.00	0.41	C

ATOM	11885	OE1	GLU	A1492	91.755	110.324	113.353	1.00	0.41	O
ATOM	11886	OE2	GLU	A1492	89.844	111.103	112.608	1.00	0.41	O
ATOM	11887	N	ARG	A1493	90.713	109.615	119.025	1.00	0.42	N
ATOM	11888	CA	ARG	A1493	91.402	109.600	120.317	1.00	0.42	C
ATOM	11889	C	ARG	A1493	92.844	110.077	120.377	1.00	0.42	C
ATOM	11890	O	ARG	A1493	93.206	110.881	121.230	1.00	0.42	O
ATOM	11891	CB	ARG	A1493	91.271	108.198	120.980	1.00	0.42	C
ATOM	11892	CG	ARG	A1493	91.470	106.980	120.036	1.00	0.42	C
ATOM	11893	CD	ARG	A1493	91.237	105.593	120.673	1.00	0.42	C
ATOM	11894	NE	ARG	A1493	89.948	105.677	121.444	1.00	0.42	N
ATOM	11895	CZ	ARG	A1493	88.748	105.720	120.849	1.00	0.42	C
ATOM	11896	NH1	ARG	A1493	88.533	105.240	119.633	1.00	0.42	N
ATOM	11897	NH2	ARG	A1493	87.722	106.262	121.506	1.00	0.42	N
ATOM	11898	N	ASN	A1494	93.695	109.628	119.444	1.00	0.43	N
ATOM	11899	CA	ASN	A1494	94.961	110.279	119.221	1.00	0.43	C
ATOM	11900	C	ASN	A1494	95.164	110.317	117.724	1.00	0.43	C
ATOM	11901	O	ASN	A1494	95.091	109.288	117.051	1.00	0.43	O
ATOM	11902	CB	ASN	A1494	96.162	109.512	119.842	1.00	0.43	C
ATOM	11903	CG	ASN	A1494	95.933	109.192	121.315	1.00	0.43	C
ATOM	11904	OD1	ASN	A1494	95.587	108.057	121.649	1.00	0.43	O
ATOM	11905	ND2	ASN	A1494	96.148	110.181	122.209	1.00	0.43	N
ATOM	11906	N	ILE	A1495	95.491	111.480	117.138	1.00	0.39	N
ATOM	11907	CA	ILE	A1495	96.188	111.460	115.863	1.00	0.39	C
ATOM	11908	C	ILE	A1495	97.640	111.132	116.168	1.00	0.39	C
ATOM	11909	O	ILE	A1495	98.328	111.903	116.834	1.00	0.39	O
ATOM	11910	CB	ILE	A1495	96.036	112.751	115.060	1.00	0.39	C
ATOM	11911	CG1	ILE	A1495	94.553	112.898	114.633	1.00	0.39	C
ATOM	11912	CG2	ILE	A1495	96.986	112.734	113.838	1.00	0.39	C
ATOM	11913	CD1	ILE	A1495	94.273	114.107	113.733	1.00	0.39	C
ATOM	11914	N	VAL	A1496	98.111	109.943	115.718	1.00	0.43	N
ATOM	11915	CA	VAL	A1496	99.510	109.531	115.792	1.00	0.43	C
ATOM	11916	C	VAL	A1496	100.318	110.485	114.951	1.00	0.43	C
ATOM	11917	O	VAL	A1496	99.922	110.801	113.829	1.00	0.43	O
ATOM	11918	CB	VAL	A1496	99.742	108.100	115.299	1.00	0.43	C
ATOM	11919	CG1	VAL	A1496	101.223	107.701	115.471	1.00	0.43	C
ATOM	11920	CG2	VAL	A1496	98.845	107.133	116.095	1.00	0.43	C
ATOM	11921	N	LYS	A1497	101.427	111.015	115.475	1.00	0.43	N
ATOM	11922	CA	LYS	A1497	102.124	112.078	114.813	1.00	0.43	C
ATOM	11923	C	LYS	A1497	103.366	111.573	114.116	1.00	0.43	C
ATOM	11924	O	LYS	A1497	103.859	110.458	114.262	1.00	0.43	O
ATOM	11925	CB	LYS	A1497	102.395	113.277	115.758	1.00	0.43	C
ATOM	11926	CG	LYS	A1497	101.104	114.042	116.117	1.00	0.43	C
ATOM	11927	CD	LYS	A1497	101.369	115.376	116.839	1.00	0.43	C
ATOM	11928	CE	LYS	A1497	100.087	116.129	117.219	1.00	0.43	C
ATOM	11929	NZ	LYS	A1497	100.402	117.422	117.867	1.00	0.43	N
ATOM	11930	N	SER	A1498	103.863	112.427	113.226	1.00	0.48	N
ATOM	11931	CA	SER	A1498	105.078	112.224	112.487	1.00	0.48	C
ATOM	11932	C	SER	A1498	106.244	112.830	113.220	1.00	0.48	C
ATOM	11933	O	SER	A1498	106.087	113.658	114.113	1.00	0.48	O
ATOM	11934	CB	SER	A1498	104.998	112.910	111.107	1.00	0.48	C
ATOM	11935	OG	SER	A1498	104.731	114.315	111.220	1.00	0.48	O
ATOM	11936	N	ARG	A1499	107.470	112.465	112.820	1.00	0.49	N
ATOM	11937	CA	ARG	A1499	108.650	113.124	113.318	1.00	0.49	C
ATOM	11938	C	ARG	A1499	109.167	114.027	112.216	1.00	0.49	C
ATOM	11939	O	ARG	A1499	109.601	113.559	111.167	1.00	0.49	O
ATOM	11940	CB	ARG	A1499	109.689	112.062	113.749	1.00	0.49	C
ATOM	11941	CG	ARG	A1499	110.849	112.581	114.627	1.00	0.49	C
ATOM	11942	CD	ARG	A1499	110.453	113.294	115.939	1.00	0.49	C
ATOM	11943	NE	ARG	A1499	109.429	112.480	116.706	1.00	0.49	N
ATOM	11944	CZ	ARG	A1499	109.671	111.452	117.534	1.00	0.49	C
ATOM	11945	NH1	ARG	A1499	110.880	110.944	117.734	1.00	0.49	N
ATOM	11946	NH2	ARG	A1499	108.679	110.835	118.179	1.00	0.49	N
ATOM	11947	N	VAL	A1500	109.093	115.356	112.417	1.00	0.48	N
ATOM	11948	CA	VAL	A1500	109.515	116.328	111.428	1.00	0.48	C
ATOM	11949	C	VAL	A1500	110.743	117.010	111.974	1.00	0.48	C

ATOM	11950	O	VAL	A1500	110.789	117.467	113.114	1.00	0.48	O
ATOM	11951	CB	VAL	A1500	108.446	117.378	111.113	1.00	0.48	C
ATOM	11952	CG1	VAL	A1500	108.960	118.420	110.094	1.00	0.48	C
ATOM	11953	CG2	VAL	A1500	107.199	116.671	110.548	1.00	0.48	C
ATOM	11954	N	GLU	A1501	111.795	117.087	111.149	1.00	0.50	N
ATOM	11955	CA	GLU	A1501	113.026	117.744	111.497	1.00	0.50	C
ATOM	11956	C	GLU	A1501	113.153	118.891	110.518	1.00	0.50	C
ATOM	11957	O	GLU	A1501	112.879	118.741	109.327	1.00	0.50	O
ATOM	11958	CB	GLU	A1501	114.201	116.736	111.490	1.00	0.50	C
ATOM	11959	CG	GLU	A1501	113.868	115.550	112.432	1.00	0.50	C
ATOM	11960	CD	GLU	A1501	115.033	114.657	112.837	1.00	0.50	C
ATOM	11961	OE1	GLU	A1501	116.197	115.112	112.957	1.00	0.50	O
ATOM	11962	OE2	GLU	A1501	114.722	113.510	113.262	1.00	0.50	O
ATOM	11963	N	LEU	A1502	113.434	120.105	111.036	1.00	0.47	N
ATOM	11964	CA	LEU	A1502	113.410	121.328	110.246	1.00	0.47	C
ATOM	11965	C	LEU	A1502	114.709	121.556	109.464	1.00	0.47	C
ATOM	11966	O	LEU	A1502	115.321	120.620	108.963	1.00	0.47	O
ATOM	11967	CB	LEU	A1502	112.985	122.535	111.125	1.00	0.47	C
ATOM	11968	CG	LEU	A1502	111.830	123.374	110.531	1.00	0.47	C
ATOM	11969	CD1	LEU	A1502	111.534	124.563	111.447	1.00	0.47	C
ATOM	11970	CD2	LEU	A1502	112.056	123.886	109.098	1.00	0.47	C
ATOM	11971	N	PHE	A1503	115.186	122.813	109.307	1.00	0.44	N
ATOM	11972	CA	PHE	A1503	116.534	123.065	108.812	1.00	0.44	C
ATOM	11973	C	PHE	A1503	117.585	122.480	109.756	1.00	0.44	C
ATOM	11974	O	PHE	A1503	117.538	122.671	110.971	1.00	0.44	O
ATOM	11975	CB	PHE	A1503	116.809	124.567	108.478	1.00	0.44	C
ATOM	11976	CG	PHE	A1503	116.191	125.505	109.485	1.00	0.44	C
ATOM	11977	CD1	PHE	A1503	116.723	125.638	110.778	1.00	0.44	C
ATOM	11978	CD2	PHE	A1503	115.029	126.224	109.156	1.00	0.44	C
ATOM	11979	CE1	PHE	A1503	116.057	126.393	111.748	1.00	0.44	C
ATOM	11980	CE2	PHE	A1503	114.378	127.012	110.114	1.00	0.44	C
ATOM	11981	CZ	PHE	A1503	114.886	127.081	111.417	1.00	0.44	C
ATOM	11982	N	GLN	A1504	118.532	121.713	109.192	1.00	0.44	N
ATOM	11983	CA	GLN	A1504	119.367	120.791	109.921	1.00	0.44	C
ATOM	11984	C	GLN	A1504	120.158	120.063	108.852	1.00	0.44	C
ATOM	11985	O	GLN	A1504	119.679	119.853	107.741	1.00	0.44	O
ATOM	11986	CB	GLN	A1504	118.524	119.828	110.822	1.00	0.44	C
ATOM	11987	CG	GLN	A1504	119.216	118.580	111.428	1.00	0.44	C
ATOM	11988	CD	GLN	A1504	118.799	117.282	110.726	1.00	0.44	C
ATOM	11989	OE1	GLN	A1504	118.001	117.246	109.793	1.00	0.44	O
ATOM	11990	NE2	GLN	A1504	119.328	116.145	111.231	1.00	0.44	N
ATOM	11991	N	GLU	A1505	121.432	119.769	109.155	1.00	0.47	N
ATOM	11992	CA	GLU	A1505	122.383	119.070	108.322	1.00	0.47	C
ATOM	11993	C	GLU	A1505	123.077	118.165	109.329	1.00	0.47	C
ATOM	11994	O	GLU	A1505	122.975	118.460	110.524	1.00	0.47	O
ATOM	11995	CB	GLU	A1505	123.450	120.050	107.734	1.00	0.47	C
ATOM	11996	CG	GLU	A1505	122.889	121.069	106.705	1.00	0.47	C
ATOM	11997	CD	GLU	A1505	123.668	122.382	106.624	1.00	0.47	C
ATOM	11998	OE1	GLU	A1505	123.153	123.417	107.136	1.00	0.47	O
ATOM	11999	OE2	GLU	A1505	124.808	122.432	106.090	1.00	0.47	O
ATOM	12000	N	PRO	A1506	123.786	117.095	108.999	1.00	0.64	N
ATOM	12001	CA	PRO	A1506	124.539	116.354	110.010	1.00	0.64	C
ATOM	12002	C	PRO	A1506	125.875	117.002	110.298	1.00	0.64	C
ATOM	12003	O	PRO	A1506	126.351	116.897	111.425	1.00	0.64	O
ATOM	12004	CB	PRO	A1506	124.739	114.975	109.375	1.00	0.64	C
ATOM	12005	CG	PRO	A1506	124.651	115.229	107.871	1.00	0.64	C
ATOM	12006	CD	PRO	A1506	123.597	116.332	107.762	1.00	0.64	C
ATOM	12007	N	VAL	A1507	126.501	117.624	109.284	1.00	0.58	N
ATOM	12008	CA	VAL	A1507	127.781	118.302	109.386	1.00	0.58	C
ATOM	12009	C	VAL	A1507	127.598	119.652	108.696	1.00	0.58	C
ATOM	12010	O	VAL	A1507	126.884	120.511	109.213	1.00	0.58	O
ATOM	12011	CB	VAL	A1507	128.965	117.443	108.893	1.00	0.58	C
ATOM	12012	CG1	VAL	A1507	129.188	116.317	109.926	1.00	0.58	C
ATOM	12013	CG2	VAL	A1507	128.767	116.784	107.507	1.00	0.58	C
ATOM	12014	N	ASP	A1508	128.162	119.865	107.494	1.00	0.64	N

ATOM	12015	CA	ASP	A1508	127.878	121.019	106.668	1.00	0.64	C
ATOM	12016	C	ASP	A1508	128.208	120.703	105.205	1.00	0.64	C
ATOM	12017	O	ASP	A1508	128.789	119.665	104.888	1.00	0.64	O
ATOM	12018	CB	ASP	A1508	128.623	122.304	107.157	1.00	0.64	C
ATOM	12019	CG	ASP	A1508	130.090	122.287	106.785	1.00	0.64	C
ATOM	12020	OD1	ASP	A1508	130.413	122.851	105.707	1.00	0.64	O
ATOM	12021	OD2	ASP	A1508	130.903	121.640	107.478	1.00	0.64	O
ATOM	12022	N	LEU	A1509	127.861	121.624	104.281	1.00	0.56	N
ATOM	12023	CA	LEU	A1509	128.425	121.647	102.937	1.00	0.56	C
ATOM	12024	C	LEU	A1509	129.097	122.990	102.593	1.00	0.56	C
ATOM	12025	O	LEU	A1509	129.852	123.102	101.624	1.00	0.56	O
ATOM	12026	CB	LEU	A1509	127.293	121.290	101.934	1.00	0.56	C
ATOM	12027	CG	LEU	A1509	127.718	121.043	100.467	1.00	0.56	C
ATOM	12028	CD1	LEU	A1509	126.890	119.902	99.860	1.00	0.56	C
ATOM	12029	CD2	LEU	A1509	127.561	122.290	99.580	1.00	0.56	C
ATOM	12030	N	ARG	A1510	128.900	124.053	103.403	1.00	0.51	N
ATOM	12031	CA	ARG	A1510	129.215	125.426	103.022	1.00	0.51	C
ATOM	12032	C	ARG	A1510	130.371	125.997	103.822	1.00	0.51	C
ATOM	12033	O	ARG	A1510	130.336	126.073	105.048	1.00	0.51	O
ATOM	12034	CB	ARG	A1510	127.999	126.378	103.231	1.00	0.51	C
ATOM	12035	CG	ARG	A1510	128.198	127.850	102.769	1.00	0.51	C
ATOM	12036	CD	ARG	A1510	127.962	128.884	103.884	1.00	0.51	C
ATOM	12037	NE	ARG	A1510	128.037	130.264	103.288	1.00	0.51	N
ATOM	12038	CZ	ARG	A1510	128.036	131.387	104.025	1.00	0.51	C
ATOM	12039	NH1	ARG	A1510	128.224	131.348	105.338	1.00	0.51	N
ATOM	12040	NH2	ARG	A1510	127.819	132.568	103.453	1.00	0.51	N
ATOM	12041	N	CYS	A1511	131.405	126.503	103.115	1.00	0.58	N
ATOM	12042	CA	CYS	A1511	132.522	127.221	103.701	1.00	0.58	C
ATOM	12043	C	CYS	A1511	132.116	128.427	104.548	1.00	0.58	C
ATOM	12044	O	CYS	A1511	131.215	129.198	104.223	1.00	0.58	O
ATOM	12045	CB	CYS	A1511	133.532	127.671	102.603	1.00	0.58	C
ATOM	12046	SG	CYS	A1511	132.739	128.573	101.218	1.00	0.58	S
ATOM	12047	N	LYS	A1512	132.777	128.597	105.705	1.00	0.64	N
ATOM	12048	CA	LYS	A1512	132.506	129.697	106.608	1.00	0.64	C
ATOM	12049	C	LYS	A1512	133.160	130.985	106.132	1.00	0.64	C
ATOM	12050	O	LYS	A1512	134.237	130.938	105.538	1.00	0.64	O
ATOM	12051	CB	LYS	A1512	132.990	129.326	108.032	1.00	0.64	C
ATOM	12052	CG	LYS	A1512	132.144	129.903	109.175	1.00	0.64	C
ATOM	12053	CD	LYS	A1512	130.703	129.372	109.180	1.00	0.64	C
ATOM	12054	CE	LYS	A1512	129.941	129.808	110.430	1.00	0.64	C
ATOM	12055	NZ	LYS	A1512	128.501	129.753	110.161	1.00	0.64	N
ATOM	12056	N	ALA	A1513	132.538	132.160	106.388	1.00	0.73	N
ATOM	12057	CA	ALA	A1513	132.960	133.444	105.843	1.00	0.73	C
ATOM	12058	C	ALA	A1513	134.391	133.870	106.193	1.00	0.73	C
ATOM	12059	O	ALA	A1513	135.120	134.426	105.373	1.00	0.73	O
ATOM	12060	CB	ALA	A1513	131.948	134.520	106.283	1.00	0.73	C
ATOM	12061	N	GLU	A1514	134.830	133.566	107.426	1.00	0.68	N
ATOM	12062	CA	GLU	A1514	136.173	133.784	107.932	1.00	0.68	C
ATOM	12063	C	GLU	A1514	137.279	133.049	107.153	1.00	0.68	C
ATOM	12064	O	GLU	A1514	138.326	133.618	106.836	1.00	0.68	O
ATOM	12065	CB	GLU	A1514	136.135	133.381	109.427	1.00	0.68	C
ATOM	12066	CG	GLU	A1514	137.474	133.500	110.197	1.00	0.68	C
ATOM	12067	CD	GLU	A1514	138.068	132.151	110.602	1.00	0.68	C
ATOM	12068	OE1	GLU	A1514	137.824	131.145	109.896	1.00	0.68	O
ATOM	12069	OE2	GLU	A1514	138.781	132.130	111.646	1.00	0.68	O
ATOM	12070	N	ASN	A1515	137.047	131.780	106.745	1.00	0.75	N
ATOM	12071	CA	ASN	A1515	138.024	130.933	106.068	1.00	0.75	C
ATOM	12072	C	ASN	A1515	138.532	131.477	104.732	1.00	0.75	C
ATOM	12073	O	ASN	A1515	139.682	131.254	104.356	1.00	0.75	O
ATOM	12074	CB	ASN	A1515	137.473	129.504	105.806	1.00	0.75	C
ATOM	12075	CG	ASN	A1515	137.497	128.673	107.085	1.00	0.75	C
ATOM	12076	OD1	ASN	A1515	138.552	128.399	107.648	1.00	0.75	O
ATOM	12077	ND2	ASN	A1515	136.323	128.170	107.517	1.00	0.75	N
ATOM	12078	N	LEU	A1516	137.686	132.198	103.963	1.00	0.74	N
ATOM	12079	CA	LEU	A1516	138.086	132.830	102.712	1.00	0.74	C

ATOM	12080	C	LEU	A1516	139.158	133.892	102.910	1.00	0.74	C
ATOM	12081	O	LEU	A1516	140.107	133.983	102.139	1.00	0.74	O
ATOM	12082	CB	LEU	A1516	136.902	133.478	101.947	1.00	0.74	C
ATOM	12083	CG	LEU	A1516	135.736	132.522	101.627	1.00	0.74	C
ATOM	12084	CD1	LEU	A1516	134.645	132.563	102.701	1.00	0.74	C
ATOM	12085	CD2	LEU	A1516	135.100	132.876	100.281	1.00	0.74	C
ATOM	12086	N	ILE	A1517	139.043	134.697	103.985	1.00	0.76	N
ATOM	12087	CA	ILE	A1517	140.028	135.694	104.388	1.00	0.76	C
ATOM	12088	C	ILE	A1517	141.358	135.058	104.758	1.00	0.76	C
ATOM	12089	O	ILE	A1517	142.419	135.517	104.344	1.00	0.76	O
ATOM	12090	CB	ILE	A1517	139.501	136.521	105.560	1.00	0.76	C
ATOM	12091	CG1	ILE	A1517	138.219	137.284	105.153	1.00	0.76	C
ATOM	12092	CG2	ILE	A1517	140.566	137.492	106.122	1.00	0.76	C
ATOM	12093	CD1	ILE	A1517	138.463	138.538	104.310	1.00	0.76	C
ATOM	12094	N	ALA	A1518	141.335	133.940	105.514	1.00	0.82	N
ATOM	12095	CA	ALA	A1518	142.528	133.204	105.892	1.00	0.82	C
ATOM	12096	C	ALA	A1518	143.317	132.648	104.703	1.00	0.82	C
ATOM	12097	O	ALA	A1518	144.544	132.734	104.658	1.00	0.82	O
ATOM	12098	CB	ALA	A1518	142.142	132.065	106.857	1.00	0.82	C
ATOM	12099	N	GLU	A1519	142.617	132.095	103.693	1.00	0.74	N
ATOM	12100	CA	GLU	A1519	143.215	131.715	102.422	1.00	0.74	C
ATOM	12101	C	GLU	A1519	143.701	132.904	101.593	1.00	0.74	C
ATOM	12102	O	GLU	A1519	144.866	132.987	101.215	1.00	0.74	O
ATOM	12103	CB	GLU	A1519	142.182	130.878	101.621	1.00	0.74	C
ATOM	12104	CG	GLU	A1519	142.561	130.492	100.163	1.00	0.74	C
ATOM	12105	CD	GLU	A1519	143.747	129.537	99.991	1.00	0.74	C
ATOM	12106	OE1	GLU	A1519	144.581	129.405	100.918	1.00	0.74	O
ATOM	12107	OE2	GLU	A1519	143.804	128.900	98.907	1.00	0.74	O
ATOM	12108	N	MET	A1520	142.850	133.920	101.345	1.00	0.74	N
ATOM	12109	CA	MET	A1520	143.208	135.047	100.497	1.00	0.74	C
ATOM	12110	C	MET	A1520	144.305	135.953	101.033	1.00	0.74	C
ATOM	12111	O	MET	A1520	145.158	136.417	100.281	1.00	0.74	O
ATOM	12112	CB	MET	A1520	141.966	135.905	100.165	1.00	0.74	C
ATOM	12113	CG	MET	A1520	140.991	135.219	99.184	1.00	0.74	C
ATOM	12114	SD	MET	A1520	141.660	134.803	97.537	1.00	0.74	S
ATOM	12115	CE	MET	A1520	142.376	136.415	97.102	1.00	0.74	C
ATOM	12116	N	TRP	A1521	144.309	136.250	102.345	1.00	0.77	N
ATOM	12117	CA	TRP	A1521	145.312	137.127	102.918	1.00	0.77	C
ATOM	12118	C	TRP	A1521	146.591	136.405	103.337	1.00	0.77	C
ATOM	12119	O	TRP	A1521	147.629	137.043	103.493	1.00	0.77	O
ATOM	12120	CB	TRP	A1521	144.751	137.851	104.169	1.00	0.77	C
ATOM	12121	CG	TRP	A1521	143.640	138.871	103.954	1.00	0.77	C
ATOM	12122	CD1	TRP	A1521	142.983	139.286	102.824	1.00	0.77	C
ATOM	12123	CD2	TRP	A1521	143.133	139.668	105.034	1.00	0.77	C
ATOM	12124	NE1	TRP	A1521	142.087	140.293	103.138	1.00	0.77	N
ATOM	12125	CE2	TRP	A1521	142.168	140.543	104.487	1.00	0.77	C
ATOM	12126	CE3	TRP	A1521	143.446	139.697	106.391	1.00	0.77	C
ATOM	12127	CZ2	TRP	A1521	141.504	141.454	105.291	1.00	0.77	C
ATOM	12128	CZ3	TRP	A1521	142.784	140.628	107.201	1.00	0.77	C
ATOM	12129	CH2	TRP	A1521	141.821	141.490	106.658	1.00	0.77	C
ATOM	12130	N	PHE	A1522	146.574	135.064	103.529	1.00	0.80	N
ATOM	12131	CA	PHE	A1522	147.730	134.383	104.107	1.00	0.80	C
ATOM	12132	C	PHE	A1522	148.091	133.044	103.459	1.00	0.80	C
ATOM	12133	O	PHE	A1522	149.104	132.451	103.823	1.00	0.80	O
ATOM	12134	CB	PHE	A1522	147.514	134.086	105.623	1.00	0.80	C
ATOM	12135	CG	PHE	A1522	147.254	135.322	106.436	1.00	0.80	C
ATOM	12136	CD1	PHE	A1522	145.946	135.638	106.836	1.00	0.80	C
ATOM	12137	CD2	PHE	A1522	148.306	136.169	106.819	1.00	0.80	C
ATOM	12138	CE1	PHE	A1522	145.691	136.776	107.607	1.00	0.80	C
ATOM	12139	CE2	PHE	A1522	148.053	137.318	107.581	1.00	0.80	C
ATOM	12140	CZ	PHE	A1522	146.745	137.614	107.987	1.00	0.80	C
ATOM	12141	N	GLY	A1523	147.321	132.514	102.479	1.00	0.81	N
ATOM	12142	CA	GLY	A1523	147.653	131.252	101.802	1.00	0.81	C
ATOM	12143	C	GLY	A1523	147.325	129.997	102.581	1.00	0.81	C
ATOM	12144	O	GLY	A1523	147.813	128.895	102.302	1.00	0.81	O

ATOM	12145	N	LEU	A1524	146.511	130.136	103.641	1.00	0.73	N
ATOM	12146	CA	LEU	A1524	146.100	129.024	104.467	1.00	0.73	C
ATOM	12147	C	LEU	A1524	144.784	128.450	103.972	1.00	0.73	C
ATOM	12148	O	LEU	A1524	143.710	128.820	104.445	1.00	0.73	O
ATOM	12149	CB	LEU	A1524	145.964	129.406	105.967	1.00	0.73	C
ATOM	12150	CG	LEU	A1524	147.285	129.408	106.773	1.00	0.73	C
ATOM	12151	CD1	LEU	A1524	148.281	130.476	106.314	1.00	0.73	C
ATOM	12152	CD2	LEU	A1524	146.992	129.606	108.267	1.00	0.73	C
ATOM	12153	N	LYS	A1525	144.878	127.462	103.059	1.00	0.63	N
ATOM	12154	CA	LYS	A1525	143.800	126.664	102.491	1.00	0.63	C
ATOM	12155	C	LYS	A1525	142.982	125.842	103.485	1.00	0.63	C
ATOM	12156	O	LYS	A1525	142.956	124.611	103.505	1.00	0.63	O
ATOM	12157	CB	LYS	A1525	144.301	125.778	101.310	1.00	0.63	C
ATOM	12158	CG	LYS	A1525	145.753	125.250	101.374	1.00	0.63	C
ATOM	12159	CD	LYS	A1525	146.117	124.433	102.632	1.00	0.63	C
ATOM	12160	CE	LYS	A1525	147.522	123.824	102.613	1.00	0.63	C
ATOM	12161	NZ	LYS	A1525	148.506	124.887	102.312	1.00	0.63	N
ATOM	12162	N	ARG	A1526	142.248	126.543	104.361	1.00	0.62	N
ATOM	12163	CA	ARG	A1526	141.225	125.995	105.217	1.00	0.62	C
ATOM	12164	C	ARG	A1526	140.008	125.572	104.413	1.00	0.62	C
ATOM	12165	O	ARG	A1526	139.459	124.479	104.573	1.00	0.62	O
ATOM	12166	CB	ARG	A1526	140.837	127.041	106.283	1.00	0.62	C
ATOM	12167	CG	ARG	A1526	142.006	127.579	107.138	1.00	0.62	C
ATOM	12168	CD	ARG	A1526	142.879	126.477	107.742	1.00	0.62	C
ATOM	12169	NE	ARG	A1526	143.926	127.122	108.595	1.00	0.62	N
ATOM	12170	CZ	ARG	A1526	143.788	127.367	109.905	1.00	0.62	C
ATOM	12171	NH1	ARG	A1526	142.641	127.191	110.545	1.00	0.62	N
ATOM	12172	NH2	ARG	A1526	144.832	127.835	110.581	1.00	0.62	N
ATOM	12173	N	THR	A1527	139.594	126.421	103.452	1.00	0.74	N
ATOM	12174	CA	THR	A1527	138.637	126.038	102.425	1.00	0.74	C
ATOM	12175	C	THR	A1527	139.383	125.393	101.267	1.00	0.74	C
ATOM	12176	O	THR	A1527	140.590	125.538	101.129	1.00	0.74	O
ATOM	12177	CB	THR	A1527	137.712	127.158	101.966	1.00	0.74	C
ATOM	12178	OG1	THR	A1527	136.617	126.630	101.233	1.00	0.74	O
ATOM	12179	CG2	THR	A1527	138.420	128.199	101.088	1.00	0.74	C
ATOM	12180	N	LYS	A1528	138.686	124.603	100.433	1.00	0.61	N
ATOM	12181	CA	LYS	A1528	139.288	123.843	99.346	1.00	0.61	C
ATOM	12182	C	LYS	A1528	138.331	123.951	98.176	1.00	0.61	C
ATOM	12183	O	LYS	A1528	137.674	122.995	97.783	1.00	0.61	O
ATOM	12184	CB	LYS	A1528	139.499	122.340	99.690	1.00	0.61	C
ATOM	12185	CG	LYS	A1528	140.520	122.073	100.814	1.00	0.61	C
ATOM	12186	CD	LYS	A1528	140.197	120.846	101.694	1.00	0.61	C
ATOM	12187	CE	LYS	A1528	138.858	120.904	102.440	1.00	0.61	C
ATOM	12188	NZ	LYS	A1528	138.735	122.210	103.112	1.00	0.61	N
ATOM	12189	N	LEU	A1529	138.161	125.172	97.639	1.00	0.68	N
ATOM	12190	CA	LEU	A1529	137.208	125.425	96.571	1.00	0.68	C
ATOM	12191	C	LEU	A1529	137.845	125.368	95.191	1.00	0.68	C
ATOM	12192	O	LEU	A1529	137.156	125.333	94.174	1.00	0.68	O
ATOM	12193	CB	LEU	A1529	136.641	126.856	96.748	1.00	0.68	C
ATOM	12194	CG	LEU	A1529	135.665	127.037	97.924	1.00	0.68	C
ATOM	12195	CD1	LEU	A1529	135.428	128.533	98.176	1.00	0.68	C
ATOM	12196	CD2	LEU	A1529	134.323	126.333	97.665	1.00	0.68	C
ATOM	12197	N	GLY	A1530	139.189	125.350	95.129	1.00	0.68	N
ATOM	12198	CA	GLY	A1530	139.954	125.475	93.895	1.00	0.68	C
ATOM	12199	C	GLY	A1530	139.978	126.895	93.331	1.00	0.68	C
ATOM	12200	O	GLY	A1530	139.096	127.696	93.650	1.00	0.68	O
ATOM	12201	N	PRO	A1531	140.942	127.279	92.486	1.00	0.74	N
ATOM	12202	CA	PRO	A1531	141.178	128.681	92.117	1.00	0.74	C
ATOM	12203	C	PRO	A1531	140.014	129.466	91.524	1.00	0.74	C
ATOM	12204	O	PRO	A1531	139.834	130.627	91.885	1.00	0.74	O
ATOM	12205	CB	PRO	A1531	142.367	128.608	91.150	1.00	0.74	C
ATOM	12206	CG	PRO	A1531	143.174	127.416	91.667	1.00	0.74	C
ATOM	12207	CD	PRO	A1531	142.098	126.438	92.146	1.00	0.74	C
ATOM	12208	N	ARG	A1532	139.213	128.883	90.602	1.00	0.63	N
ATOM	12209	CA	ARG	A1532	138.059	129.571	90.028	1.00	0.63	C

ATOM	12210	C	ARG	A1532	136.970	129.900	91.034	1.00	0.63	C
ATOM	12211	O	ARG	A1532	136.455	131.016	91.064	1.00	0.63	O
ATOM	12212	CB	ARG	A1532	137.367	128.739	88.911	1.00	0.63	C
ATOM	12213	CG	ARG	A1532	137.953	128.947	87.504	1.00	0.63	C
ATOM	12214	CD	ARG	A1532	137.085	128.339	86.385	1.00	0.63	C
ATOM	12215	NE	ARG	A1532	135.815	129.148	86.247	1.00	0.63	N
ATOM	12216	CZ	ARG	A1532	134.562	128.665	86.180	1.00	0.63	C
ATOM	12217	NH1	ARG	A1532	134.240	127.421	86.504	1.00	0.63	N
ATOM	12218	NH2	ARG	A1532	133.565	129.454	85.785	1.00	0.63	N
ATOM	12219	N	LEU	A1533	136.586	128.926	91.880	1.00	0.73	N
ATOM	12220	CA	LEU	A1533	135.545	129.139	92.863	1.00	0.73	C
ATOM	12221	C	LEU	A1533	136.018	129.986	94.020	1.00	0.73	C
ATOM	12222	O	LEU	A1533	135.277	130.822	94.521	1.00	0.73	O
ATOM	12223	CB	LEU	A1533	134.969	127.825	93.407	1.00	0.73	C
ATOM	12224	CG	LEU	A1533	134.239	126.926	92.396	1.00	0.73	C
ATOM	12225	CD1	LEU	A1533	133.526	125.834	93.199	1.00	0.73	C
ATOM	12226	CD2	LEU	A1533	133.225	127.683	91.525	1.00	0.73	C
ATOM	12227	N	LEU	A1534	137.292	129.845	94.444	1.00	0.75	N
ATOM	12228	CA	LEU	A1534	137.884	130.726	95.436	1.00	0.75	C
ATOM	12229	C	LEU	A1534	137.839	132.185	94.997	1.00	0.75	C
ATOM	12230	O	LEU	A1534	137.462	133.063	95.768	1.00	0.75	O
ATOM	12231	CB	LEU	A1534	139.346	130.298	95.709	1.00	0.75	C
ATOM	12232	CG	LEU	A1534	140.150	131.212	96.659	1.00	0.75	C
ATOM	12233	CD1	LEU	A1534	139.529	131.310	98.063	1.00	0.75	C
ATOM	12234	CD2	LEU	A1534	141.604	130.730	96.741	1.00	0.75	C
ATOM	12235	N	LYS	A1535	138.150	132.466	93.714	1.00	0.74	N
ATOM	12236	CA	LYS	A1535	137.982	133.782	93.131	1.00	0.74	C
ATOM	12237	C	LYS	A1535	136.535	134.280	93.073	1.00	0.74	C
ATOM	12238	O	LYS	A1535	136.286	135.449	93.363	1.00	0.74	O
ATOM	12239	CB	LYS	A1535	138.640	133.858	91.729	1.00	0.74	C
ATOM	12240	CG	LYS	A1535	138.719	135.294	91.179	1.00	0.74	C
ATOM	12241	CD	LYS	A1535	139.440	135.406	89.824	1.00	0.74	C
ATOM	12242	CE	LYS	A1535	139.423	136.840	89.271	1.00	0.74	C
ATOM	12243	NZ	LYS	A1535	140.071	136.918	87.940	1.00	0.74	N
ATOM	12244	N	GLU	A1536	135.539	133.433	92.712	1.00	0.75	N
ATOM	12245	CA	GLU	A1536	134.131	133.828	92.781	1.00	0.75	C
ATOM	12246	C	GLU	A1536	133.658	134.139	94.192	1.00	0.75	C
ATOM	12247	O	GLU	A1536	133.195	135.244	94.468	1.00	0.75	O
ATOM	12248	CB	GLU	A1536	133.183	132.760	92.158	1.00	0.75	C
ATOM	12249	CG	GLU	A1536	131.651	133.020	92.337	1.00	0.75	C
ATOM	12250	CD	GLU	A1536	131.134	134.354	91.782	1.00	0.75	C
ATOM	12251	OE1	GLU	A1536	131.877	135.053	91.045	1.00	0.75	O
ATOM	12252	OE2	GLU	A1536	129.950	134.683	92.096	1.00	0.75	O
ATOM	12253	N	GLU	A1537	133.841	133.212	95.154	1.00	0.74	N
ATOM	12254	CA	GLU	A1537	133.351	133.391	96.510	1.00	0.74	C
ATOM	12255	C	GLU	A1537	134.043	134.540	97.245	1.00	0.74	C
ATOM	12256	O	GLU	A1537	133.430	135.286	98.008	1.00	0.74	O
ATOM	12257	CB	GLU	A1537	133.386	132.079	97.333	1.00	0.74	C
ATOM	12258	CG	GLU	A1537	132.700	130.850	96.667	1.00	0.74	C
ATOM	12259	CD	GLU	A1537	131.232	130.992	96.237	1.00	0.74	C
ATOM	12260	OE1	GLU	A1537	130.776	130.041	95.548	1.00	0.74	O
ATOM	12261	OE2	GLU	A1537	130.554	131.999	96.572	1.00	0.74	O
ATOM	12262	N	TRP	A1538	135.352	134.758	96.993	1.00	0.75	N
ATOM	12263	CA	TRP	A1538	136.063	135.934	97.471	1.00	0.75	C
ATOM	12264	C	TRP	A1538	135.525	137.256	96.931	1.00	0.75	C
ATOM	12265	O	TRP	A1538	135.294	138.208	97.677	1.00	0.75	O
ATOM	12266	CB	TRP	A1538	137.572	135.828	97.090	1.00	0.75	C
ATOM	12267	CG	TRP	A1538	138.424	137.081	97.279	1.00	0.75	C
ATOM	12268	CD1	TRP	A1538	139.144	137.775	96.345	1.00	0.75	C
ATOM	12269	CD2	TRP	A1538	138.495	137.839	98.495	1.00	0.75	C
ATOM	12270	NE1	TRP	A1538	139.692	138.910	96.910	1.00	0.75	N
ATOM	12271	CE2	TRP	A1538	139.291	138.975	98.226	1.00	0.75	C
ATOM	12272	CE3	TRP	A1538	137.939	137.633	99.754	1.00	0.75	C
ATOM	12273	CZ2	TRP	A1538	139.547	139.911	99.216	1.00	0.75	C
ATOM	12274	CZ3	TRP	A1538	138.165	138.602	100.736	1.00	0.75	C



ATOM	12275	CH2	TRP	A1538	138.971	139.719	100.480	1.00	0.75	C
ATOM	12276	N	ASP	A1539	135.296	137.366	95.612	1.00	0.78	N
ATOM	12277	CA	ASP	A1539	134.893	138.630	95.038	1.00	0.78	C
ATOM	12278	C	ASP	A1539	133.399	138.884	95.300	1.00	0.78	C
ATOM	12279	O	ASP	A1539	132.941	140.020	95.393	1.00	0.78	O
ATOM	12280	CB	ASP	A1539	135.288	138.602	93.542	1.00	0.78	C
ATOM	12281	CG	ASP	A1539	135.858	139.900	93.018	1.00	0.78	C
ATOM	12282	OD1	ASP	A1539	135.812	140.073	91.774	1.00	0.78	O
ATOM	12283	OD2	ASP	A1539	136.437	140.716	93.787	1.00	0.78	O
ATOM	12284	N	LYS	A1540	132.620	137.807	95.542	1.00	0.73	N
ATOM	12285	CA	LYS	A1540	131.280	137.845	96.096	1.00	0.73	C
ATOM	12286	C	LYS	A1540	131.224	138.419	97.514	1.00	0.73	C
ATOM	12287	O	LYS	A1540	130.369	139.243	97.850	1.00	0.73	O
ATOM	12288	CB	LYS	A1540	130.725	136.399	96.130	1.00	0.73	C
ATOM	12289	CG	LYS	A1540	129.246	136.282	96.515	1.00	0.73	C
ATOM	12290	CD	LYS	A1540	128.345	136.774	95.375	1.00	0.73	C
ATOM	12291	CE	LYS	A1540	127.477	135.689	94.733	1.00	0.73	C
ATOM	12292	NZ	LYS	A1540	128.307	134.555	94.259	1.00	0.73	N
ATOM	12293	N	LEU	A1541	132.172	138.004	98.379	1.00	0.75	N
ATOM	12294	CA	LEU	A1541	132.386	138.534	99.716	1.00	0.75	C
ATOM	12295	C	LEU	A1541	132.782	140.014	99.697	1.00	0.75	C
ATOM	12296	O	LEU	A1541	132.238	140.829	100.443	1.00	0.75	O
ATOM	12297	CB	LEU	A1541	133.424	137.647	100.453	1.00	0.75	C
ATOM	12298	CG	LEU	A1541	133.816	138.076	101.883	1.00	0.75	C
ATOM	12299	CD1	LEU	A1541	132.617	138.244	102.826	1.00	0.75	C
ATOM	12300	CD2	LEU	A1541	134.804	137.066	102.485	1.00	0.75	C
ATOM	12301	N	ARG	A1542	133.671	140.422	98.765	1.00	0.71	N
ATOM	12302	CA	ARG	A1542	133.946	141.822	98.453	1.00	0.71	C
ATOM	12303	C	ARG	A1542	132.731	142.615	97.973	1.00	0.71	C
ATOM	12304	O	ARG	A1542	132.561	143.782	98.308	1.00	0.71	O
ATOM	12305	CB	ARG	A1542	135.047	141.963	97.375	1.00	0.71	C
ATOM	12306	CG	ARG	A1542	136.472	141.811	97.937	1.00	0.71	C
ATOM	12307	CD	ARG	A1542	137.613	141.949	96.914	1.00	0.71	C
ATOM	12308	NE	ARG	A1542	137.289	143.019	95.905	1.00	0.71	N
ATOM	12309	CZ	ARG	A1542	137.397	144.346	96.092	1.00	0.71	C
ATOM	12310	NH1	ARG	A1542	137.793	144.889	97.234	1.00	0.71	N
ATOM	12311	NH2	ARG	A1542	137.052	145.176	95.107	1.00	0.71	N
ATOM	12312	N	ALA	A1543	131.834	142.006	97.179	1.00	0.76	N
ATOM	12313	CA	ALA	A1543	130.605	142.632	96.727	1.00	0.76	C
ATOM	12314	C	ALA	A1543	129.531	142.728	97.807	1.00	0.76	C
ATOM	12315	O	ALA	A1543	128.479	143.332	97.609	1.00	0.76	O
ATOM	12316	CB	ALA	A1543	130.065	141.864	95.507	1.00	0.76	C
ATOM	12317	N	SER	A1544	129.767	142.121	98.984	1.00	0.70	N
ATOM	12318	CA	SER	A1544	128.884	142.268	100.129	1.00	0.70	C
ATOM	12319	C	SER	A1544	129.357	143.295	101.134	1.00	0.70	C
ATOM	12320	O	SER	A1544	128.530	143.894	101.820	1.00	0.70	O
ATOM	12321	CB	SER	A1544	128.749	140.938	100.894	1.00	0.70	C
ATOM	12322	OG	SER	A1544	128.112	139.979	100.050	1.00	0.70	O
ATOM	12323	N	PHE	A1545	130.679	143.549	101.238	1.00	0.65	N
ATOM	12324	CA	PHE	A1545	131.226	144.517	102.176	1.00	0.65	C
ATOM	12325	C	PHE	A1545	132.091	145.530	101.446	1.00	0.65	C
ATOM	12326	O	PHE	A1545	133.191	145.223	100.993	1.00	0.65	O
ATOM	12327	CB	PHE	A1545	132.118	143.828	103.248	1.00	0.65	C
ATOM	12328	CG	PHE	A1545	131.363	142.866	104.128	1.00	0.65	C
ATOM	12329	CD1	PHE	A1545	130.094	143.167	104.652	1.00	0.65	C
ATOM	12330	CD2	PHE	A1545	131.965	141.647	104.487	1.00	0.65	C
ATOM	12331	CE1	PHE	A1545	129.434	142.263	105.495	1.00	0.65	C
ATOM	12332	CE2	PHE	A1545	131.319	140.750	105.346	1.00	0.65	C
ATOM	12333	CZ	PHE	A1545	130.049	141.058	105.848	1.00	0.65	C
ATOM	12334	N	SER	A1546	131.630	146.793	101.348	1.00	0.67	N
ATOM	12335	CA	SER	A1546	132.203	147.802	100.455	1.00	0.67	C
ATOM	12336	C	SER	A1546	133.654	148.189	100.691	1.00	0.67	C
ATOM	12337	O	SER	A1546	134.389	148.452	99.741	1.00	0.67	O
ATOM	12338	CB	SER	A1546	131.385	149.113	100.435	1.00	0.67	C
ATOM	12339	OG	SER	A1546	130.147	148.927	99.746	1.00	0.67	O

ATOM	12340	N	TRP	A1547	134.114	148.253	101.960	1.00	0.65	N
ATOM	12341	CA	TRP	A1547	135.501	148.578	102.266	1.00	0.65	C
ATOM	12342	C	TRP	A1547	136.448	147.386	102.119	1.00	0.65	C
ATOM	12343	O	TRP	A1547	137.664	147.548	102.104	1.00	0.65	O
ATOM	12344	CB	TRP	A1547	135.645	149.173	103.708	1.00	0.65	C
ATOM	12345	CG	TRP	A1547	135.707	148.168	104.860	1.00	0.65	C
ATOM	12346	CD1	TRP	A1547	136.815	147.559	105.387	1.00	0.65	C
ATOM	12347	CD2	TRP	A1547	134.574	147.579	105.512	1.00	0.65	C
ATOM	12348	NE1	TRP	A1547	136.445	146.615	106.317	1.00	0.65	N
ATOM	12349	CE2	TRP	A1547	135.074	146.605	106.410	1.00	0.65	C
ATOM	12350	CE3	TRP	A1547	133.211	147.807	105.387	1.00	0.65	C
ATOM	12351	CZ2	TRP	A1547	134.216	145.847	107.194	1.00	0.65	C
ATOM	12352	CZ3	TRP	A1547	132.354	147.048	106.191	1.00	0.65	C
ATOM	12353	CH2	TRP	A1547	132.841	146.087	107.086	1.00	0.65	C
ATOM	12354	N	LEU	A1548	135.918	146.143	102.059	1.00	0.74	N
ATOM	12355	CA	LEU	A1548	136.729	144.949	102.204	1.00	0.74	C
ATOM	12356	C	LEU	A1548	137.697	144.726	101.056	1.00	0.74	C
ATOM	12357	O	LEU	A1548	137.333	144.565	99.891	1.00	0.74	O
ATOM	12358	CB	LEU	A1548	135.867	143.685	102.424	1.00	0.74	C
ATOM	12359	CG	LEU	A1548	136.648	142.357	102.557	1.00	0.74	C
ATOM	12360	CD1	LEU	A1548	137.607	142.332	103.759	1.00	0.74	C
ATOM	12361	CD2	LEU	A1548	135.670	141.182	102.634	1.00	0.74	C
ATOM	12362	N	SER	A1549	138.994	144.695	101.386	1.00	0.79	N
ATOM	12363	CA	SER	A1549	140.059	144.686	100.412	1.00	0.79	C
ATOM	12364	C	SER	A1549	140.871	143.411	100.491	1.00	0.79	C
ATOM	12365	O	SER	A1549	140.641	142.517	101.304	1.00	0.79	O
ATOM	12366	CB	SER	A1549	140.958	145.925	100.586	1.00	0.79	C
ATOM	12367	OG	SER	A1549	141.863	146.096	99.496	1.00	0.79	O
ATOM	12368	N	THR	A1550	141.833	143.290	99.567	1.00	0.77	N
ATOM	12369	CA	THR	A1550	142.682	142.127	99.364	1.00	0.77	C
ATOM	12370	C	THR	A1550	144.051	142.342	99.972	1.00	0.77	C
ATOM	12371	O	THR	A1550	144.949	141.520	99.805	1.00	0.77	O
ATOM	12372	CB	THR	A1550	142.790	141.778	97.884	1.00	0.77	C
ATOM	12373	OG1	THR	A1550	143.420	140.523	97.684	1.00	0.77	O
ATOM	12374	CG2	THR	A1550	143.530	142.840	97.054	1.00	0.77	C
ATOM	12375	N	ASP	A1551	144.203	143.445	100.723	1.00	0.78	N
ATOM	12376	CA	ASP	A1551	145.347	143.756	101.543	1.00	0.78	C
ATOM	12377	C	ASP	A1551	144.868	143.706	102.992	1.00	0.78	C
ATOM	12378	O	ASP	A1551	143.768	144.144	103.345	1.00	0.78	O
ATOM	12379	CB	ASP	A1551	145.929	145.141	101.147	1.00	0.78	C
ATOM	12380	CG	ASP	A1551	147.163	145.506	101.957	1.00	0.78	C
ATOM	12381	OD1	ASP	A1551	146.999	145.812	103.169	1.00	0.78	O
ATOM	12382	OD2	ASP	A1551	148.285	145.470	101.400	1.00	0.78	O
ATOM	12383	N	HIS	A1552	145.691	143.112	103.873	1.00	0.71	N
ATOM	12384	CA	HIS	A1552	145.358	142.897	105.259	1.00	0.71	C
ATOM	12385	C	HIS	A1552	145.669	144.075	106.160	1.00	0.71	C
ATOM	12386	O	HIS	A1552	145.231	144.079	107.303	1.00	0.71	O
ATOM	12387	CB	HIS	A1552	146.123	141.672	105.816	1.00	0.71	C
ATOM	12388	CG	HIS	A1552	147.612	141.765	105.701	1.00	0.71	C
ATOM	12389	ND1	HIS	A1552	148.188	141.543	104.471	1.00	0.71	N
ATOM	12390	CD2	HIS	A1552	148.570	142.013	106.631	1.00	0.71	C
ATOM	12391	CE1	HIS	A1552	149.482	141.652	104.666	1.00	0.71	C
ATOM	12392	NE2	HIS	A1552	149.772	141.934	105.961	1.00	0.71	N
ATOM	12393	N	LYS	A1553	146.419	145.092	105.706	1.00	0.69	N
ATOM	12394	CA	LYS	A1553	146.739	146.273	106.491	1.00	0.69	C
ATOM	12395	C	LYS	A1553	145.856	147.441	106.091	1.00	0.69	C
ATOM	12396	O	LYS	A1553	145.276	148.113	106.940	1.00	0.69	O
ATOM	12397	CB	LYS	A1553	148.229	146.656	106.293	1.00	0.69	C
ATOM	12398	CG	LYS	A1553	149.168	145.642	106.964	1.00	0.69	C
ATOM	12399	CD	LYS	A1553	150.659	145.988	106.830	1.00	0.69	C
ATOM	12400	CE	LYS	A1553	151.537	145.051	107.666	1.00	0.69	C
ATOM	12401	NZ	LYS	A1553	152.962	145.437	107.570	1.00	0.69	N
ATOM	12402	N	GLU	A1554	145.688	147.675	104.773	1.00	0.64	N
ATOM	12403	CA	GLU	A1554	144.912	148.772	104.198	1.00	0.64	C
ATOM	12404	C	GLU	A1554	143.446	148.759	104.608	1.00	0.64	C

ATOM	12405	O	GLU	A1554	142.862	149.778	104.955	1.00	0.64	O
ATOM	12406	CB	GLU	A1554	145.064	148.737	102.658	1.00	0.64	C
ATOM	12407	CG	GLU	A1554	144.218	149.768	101.850	1.00	0.64	C
ATOM	12408	CD	GLU	A1554	143.152	149.146	100.946	1.00	0.64	C
ATOM	12409	OE1	GLU	A1554	142.318	149.902	100.391	1.00	0.64	O
ATOM	12410	OE2	GLU	A1554	143.172	147.901	100.761	1.00	0.64	O
ATOM	12411	N	THR	A1555	142.822	147.567	104.690	1.00	0.71	N
ATOM	12412	CA	THR	A1555	141.436	147.394	105.135	1.00	0.71	C
ATOM	12413	C	THR	A1555	141.107	148.013	106.504	1.00	0.71	C
ATOM	12414	O	THR	A1555	139.963	148.359	106.799	1.00	0.71	O
ATOM	12415	CB	THR	A1555	141.052	145.914	105.095	1.00	0.71	C
ATOM	12416	OG1	THR	A1555	139.650	145.687	105.116	1.00	0.71	O
ATOM	12417	CG2	THR	A1555	141.655	145.130	106.265	1.00	0.71	C
ATOM	12418	N	LEU	A1556	142.115	148.192	107.391	1.00	0.66	N
ATOM	12419	CA	LEU	A1556	141.942	148.842	108.675	1.00	0.66	C
ATOM	12420	C	LEU	A1556	141.568	150.328	108.616	1.00	0.66	C
ATOM	12421	O	LEU	A1556	140.661	150.753	109.328	1.00	0.66	O
ATOM	12422	CB	LEU	A1556	143.206	148.634	109.548	1.00	0.66	C
ATOM	12423	CG	LEU	A1556	143.138	149.208	110.982	1.00	0.66	C
ATOM	12424	CD1	LEU	A1556	141.934	148.689	111.780	1.00	0.66	C
ATOM	12425	CD2	LEU	A1556	144.425	148.891	111.741	1.00	0.66	C
ATOM	12426	N	ASP	A1557	142.205	151.170	107.764	1.00	0.57	N
ATOM	12427	CA	ASP	A1557	142.019	152.616	107.852	1.00	0.57	C
ATOM	12428	C	ASP	A1557	140.767	153.106	107.112	1.00	0.57	C
ATOM	12429	O	ASP	A1557	140.284	154.226	107.317	1.00	0.57	O
ATOM	12430	CB	ASP	A1557	143.342	153.391	107.544	1.00	0.57	C
ATOM	12431	CG	ASP	A1557	143.844	153.375	106.108	1.00	0.57	C
ATOM	12432	OD1	ASP	A1557	144.991	153.858	105.918	1.00	0.57	O
ATOM	12433	OD2	ASP	A1557	143.102	152.930	105.206	1.00	0.57	O
ATOM	12434	N	VAL	A1558	140.174	152.210	106.295	1.00	0.60	N
ATOM	12435	CA	VAL	A1558	138.932	152.417	105.575	1.00	0.60	C
ATOM	12436	C	VAL	A1558	137.703	151.793	106.240	1.00	0.60	C
ATOM	12437	O	VAL	A1558	136.575	152.162	105.908	1.00	0.60	O
ATOM	12438	CB	VAL	A1558	139.029	151.859	104.151	1.00	0.60	C
ATOM	12439	CG1	VAL	A1558	140.038	152.701	103.347	1.00	0.60	C
ATOM	12440	CG2	VAL	A1558	139.454	150.379	104.137	1.00	0.60	C
ATOM	12441	N	GLY	A1559	137.852	150.853	107.203	1.00	0.64	N
ATOM	12442	CA	GLY	A1559	136.716	150.169	107.836	1.00	0.64	C
ATOM	12443	C	GLY	A1559	136.339	150.711	109.202	1.00	0.64	C
ATOM	12444	O	GLY	A1559	137.060	151.542	109.747	1.00	0.64	O
ATOM	12445	N	PRO	A1560	135.255	150.271	109.840	1.00	0.64	N
ATOM	12446	CA	PRO	A1560	134.856	150.799	111.153	1.00	0.64	C
ATOM	12447	C	PRO	A1560	135.528	150.065	112.322	1.00	0.64	C
ATOM	12448	O	PRO	A1560	134.863	149.436	113.145	1.00	0.64	O
ATOM	12449	CB	PRO	A1560	133.322	150.624	111.152	1.00	0.64	C
ATOM	12450	CG	PRO	A1560	133.059	149.451	110.203	1.00	0.64	C
ATOM	12451	CD	PRO	A1560	134.149	149.597	109.146	1.00	0.64	C
ATOM	12452	N	PHE	A1561	136.866	150.189	112.452	1.00	0.61	N
ATOM	12453	CA	PHE	A1561	137.656	149.488	113.455	1.00	0.61	C
ATOM	12454	C	PHE	A1561	138.722	150.430	113.998	1.00	0.61	C
ATOM	12455	O	PHE	A1561	139.104	151.381	113.325	1.00	0.61	O
ATOM	12456	CB	PHE	A1561	138.441	148.289	112.841	1.00	0.61	C
ATOM	12457	CG	PHE	A1561	137.549	147.338	112.103	1.00	0.61	C
ATOM	12458	CD1	PHE	A1561	136.843	146.340	112.788	1.00	0.61	C
ATOM	12459	CD2	PHE	A1561	137.392	147.457	110.711	1.00	0.61	C
ATOM	12460	CE1	PHE	A1561	135.971	145.490	112.097	1.00	0.61	C
ATOM	12461	CE2	PHE	A1561	136.487	146.637	110.027	1.00	0.61	C
ATOM	12462	CZ	PHE	A1561	135.767	145.661	110.724	1.00	0.61	C
ATOM	12463	N	LEU	A1562	139.268	150.178	115.213	1.00	0.58	N
ATOM	12464	CA	LEU	A1562	140.479	150.875	115.657	1.00	0.58	C
ATOM	12465	C	LEU	A1562	141.675	149.951	115.806	1.00	0.58	C
ATOM	12466	O	LEU	A1562	142.801	150.401	115.988	1.00	0.58	O
ATOM	12467	CB	LEU	A1562	140.262	151.671	116.975	1.00	0.58	C
ATOM	12468	CG	LEU	A1562	139.985	150.863	118.264	1.00	0.58	C
ATOM	12469	CD1	LEU	A1562	141.235	150.388	119.020	1.00	0.58	C

ATOM	12470	CD2	LEU	A1562	139.173	151.727	119.226	1.00	0.58	C
ATOM	12471	N	SER	A1563	141.487	148.622	115.705	1.00	0.73	N
ATOM	12472	CA	SER	A1563	142.601	147.691	115.767	1.00	0.73	C
ATOM	12473	C	SER	A1563	142.212	146.428	115.050	1.00	0.73	C
ATOM	12474	O	SER	A1563	141.034	146.119	114.865	1.00	0.73	O
ATOM	12475	CB	SER	A1563	143.118	147.325	117.202	1.00	0.73	C
ATOM	12476	OG	SER	A1563	142.225	146.493	117.959	1.00	0.73	O
ATOM	12477	N	HIS	A1564	143.215	145.640	114.635	1.00	0.73	N
ATOM	12478	CA	HIS	A1564	143.007	144.467	113.809	1.00	0.73	C
ATOM	12479	C	HIS	A1564	142.528	143.251	114.605	1.00	0.73	C
ATOM	12480	O	HIS	A1564	142.062	142.241	114.083	1.00	0.73	O
ATOM	12481	CB	HIS	A1564	144.322	144.219	113.052	1.00	0.73	C
ATOM	12482	CG	HIS	A1564	144.224	143.502	111.755	1.00	0.73	C
ATOM	12483	ND1	HIS	A1564	143.003	143.260	111.149	1.00	0.73	N
ATOM	12484	CD2	HIS	A1564	145.233	143.322	110.872	1.00	0.73	C
ATOM	12485	CE1	HIS	A1564	143.300	142.942	109.910	1.00	0.73	C
ATOM	12486	NE2	HIS	A1564	144.634	142.964	109.688	1.00	0.73	N
ATOM	12487	N	VAL	A1565	142.565	143.352	115.949	1.00	0.79	N
ATOM	12488	CA	VAL	A1565	141.927	142.403	116.854	1.00	0.79	C
ATOM	12489	C	VAL	A1565	140.402	142.468	116.766	1.00	0.79	C
ATOM	12490	O	VAL	A1565	139.710	141.451	116.777	1.00	0.79	O
ATOM	12491	CB	VAL	A1565	142.405	142.586	118.294	1.00	0.79	C
ATOM	12492	CG1	VAL	A1565	141.710	141.580	119.238	1.00	0.79	C
ATOM	12493	CG2	VAL	A1565	143.928	142.351	118.333	1.00	0.79	C
ATOM	12494	N	GLN	A1566	139.817	143.680	116.637	1.00	0.68	N
ATOM	12495	CA	GLN	A1566	138.372	143.857	116.552	1.00	0.68	C
ATOM	12496	C	GLN	A1566	137.761	143.197	115.324	1.00	0.68	C
ATOM	12497	O	GLN	A1566	136.744	142.512	115.412	1.00	0.68	O
ATOM	12498	CB	GLN	A1566	137.996	145.354	116.609	1.00	0.68	C
ATOM	12499	CG	GLN	A1566	138.484	146.012	117.919	1.00	0.68	C
ATOM	12500	CD	GLN	A1566	138.073	147.478	118.006	1.00	0.68	C
ATOM	12501	OE1	GLN	A1566	138.027	148.214	117.018	1.00	0.68	O
ATOM	12502	NE2	GLN	A1566	137.806	147.942	119.251	1.00	0.68	N
ATOM	12503	N	PHE	A1567	138.442	143.319	114.165	1.00	0.72	N
ATOM	12504	CA	PHE	A1567	138.114	142.631	112.928	1.00	0.72	C
ATOM	12505	C	PHE	A1567	138.137	141.102	113.076	1.00	0.72	C
ATOM	12506	O	PHE	A1567	137.230	140.411	112.611	1.00	0.72	O
ATOM	12507	CB	PHE	A1567	139.078	143.125	111.809	1.00	0.72	C
ATOM	12508	CG	PHE	A1567	138.843	142.423	110.494	1.00	0.72	C
ATOM	12509	CD1	PHE	A1567	137.664	142.631	109.760	1.00	0.72	C
ATOM	12510	CD2	PHE	A1567	139.775	141.480	110.033	1.00	0.72	C
ATOM	12511	CE1	PHE	A1567	137.429	141.925	108.572	1.00	0.72	C
ATOM	12512	CE2	PHE	A1567	139.528	140.748	108.865	1.00	0.72	C
ATOM	12513	CZ	PHE	A1567	138.367	140.989	108.121	1.00	0.72	C
ATOM	12514	N	ARG	A1568	139.147	140.541	113.782	1.00	0.68	N
ATOM	12515	CA	ARG	A1568	139.232	139.115	114.068	1.00	0.68	C
ATOM	12516	C	ARG	A1568	138.041	138.583	114.862	1.00	0.68	C
ATOM	12517	O	ARG	A1568	137.460	137.559	114.503	1.00	0.68	O
ATOM	12518	CB	ARG	A1568	140.552	138.803	114.839	1.00	0.68	C
ATOM	12519	CG	ARG	A1568	140.680	137.379	115.439	1.00	0.68	C
ATOM	12520	CD	ARG	A1568	140.668	136.267	114.390	1.00	0.68	C
ATOM	12521	NE	ARG	A1568	140.428	134.970	115.101	1.00	0.68	N
ATOM	12522	CZ	ARG	A1568	139.975	133.896	114.438	1.00	0.68	C
ATOM	12523	NH1	ARG	A1568	140.022	133.855	113.113	1.00	0.68	N
ATOM	12524	NH2	ARG	A1568	139.436	132.869	115.082	1.00	0.68	N
ATOM	12525	N	ASN	A1569	137.621	139.285	115.938	1.00	0.68	N
ATOM	12526	CA	ASN	A1569	136.428	138.927	116.690	1.00	0.68	C
ATOM	12527	C	ASN	A1569	135.161	139.078	115.847	1.00	0.68	C
ATOM	12528	O	ASN	A1569	134.318	138.185	115.805	1.00	0.68	O
ATOM	12529	CB	ASN	A1569	136.346	139.772	117.994	1.00	0.68	C
ATOM	12530	CG	ASN	A1569	135.218	139.276	118.902	1.00	0.68	C
ATOM	12531	OD1	ASN	A1569	135.329	138.228	119.535	1.00	0.68	O
ATOM	12532	ND2	ASN	A1569	134.095	140.029	118.943	1.00	0.68	N
ATOM	12533	N	PHE	A1570	135.038	140.202	115.104	1.00	0.67	N
ATOM	12534	CA	PHE	A1570	133.896	140.513	114.261	1.00	0.67	C

ATOM	12535	C	PHE	A1570	133.600	139.421	113.234	1.00	0.67	C
ATOM	12536	O	PHE	A1570	132.477	138.924	113.137	1.00	0.67	O
ATOM	12537	CB	PHE	A1570	134.131	141.918	113.604	1.00	0.67	C
ATOM	12538	CG	PHE	A1570	133.358	142.194	112.333	1.00	0.67	C
ATOM	12539	CD1	PHE	A1570	132.029	142.645	112.360	1.00	0.67	C
ATOM	12540	CD2	PHE	A1570	133.980	141.981	111.089	1.00	0.67	C
ATOM	12541	CE1	PHE	A1570	131.331	142.870	111.165	1.00	0.67	C
ATOM	12542	CE2	PHE	A1570	133.284	142.197	109.894	1.00	0.67	C
ATOM	12543	CZ	PHE	A1570	131.957	142.643	109.932	1.00	0.67	C
ATOM	12544	N	ILE	A1571	134.618	138.979	112.474	1.00	0.71	N
ATOM	12545	CA	ILE	A1571	134.378	138.115	111.333	1.00	0.71	C
ATOM	12546	C	ILE	A1571	134.131	136.658	111.691	1.00	0.71	C
ATOM	12547	O	ILE	A1571	133.547	135.899	110.920	1.00	0.71	O
ATOM	12548	CB	ILE	A1571	135.487	138.256	110.305	1.00	0.71	C
ATOM	12549	CG1	ILE	A1571	134.929	137.901	108.908	1.00	0.71	C
ATOM	12550	CG2	ILE	A1571	136.750	137.458	110.713	1.00	0.71	C
ATOM	12551	CD1	ILE	A1571	135.942	138.126	107.798	1.00	0.71	C
ATOM	12552	N	ALA	A1572	134.520	136.228	112.905	1.00	0.76	N
ATOM	12553	CA	ALA	A1572	134.259	134.883	113.375	1.00	0.76	C
ATOM	12554	C	ALA	A1572	132.768	134.566	113.534	1.00	0.76	C
ATOM	12555	O	ALA	A1572	132.306	133.487	113.169	1.00	0.76	O
ATOM	12556	CB	ALA	A1572	135.013	134.655	114.699	1.00	0.76	C
ATOM	12557	N	HIS	A1573	131.981	135.536	114.051	1.00	0.64	N
ATOM	12558	CA	HIS	A1573	130.580	135.325	114.395	1.00	0.64	C
ATOM	12559	C	HIS	A1573	129.613	136.083	113.492	1.00	0.64	C
ATOM	12560	O	HIS	A1573	128.423	136.192	113.784	1.00	0.64	O
ATOM	12561	CB	HIS	A1573	130.292	135.732	115.861	1.00	0.64	C
ATOM	12562	CG	HIS	A1573	131.172	135.044	116.858	1.00	0.64	C
ATOM	12563	ND1	HIS	A1573	131.230	133.664	116.875	1.00	0.64	N
ATOM	12564	CD2	HIS	A1573	131.986	135.560	117.816	1.00	0.64	C
ATOM	12565	CE1	HIS	A1573	132.077	133.366	117.836	1.00	0.64	C
ATOM	12566	NE2	HIS	A1573	132.564	134.476	118.442	1.00	0.64	N
ATOM	12567	N	VAL	A1574	130.079	136.639	112.350	1.00	0.67	N
ATOM	12568	CA	VAL	A1574	129.220	137.373	111.419	1.00	0.67	C
ATOM	12569	C	VAL	A1574	128.113	136.530	110.768	1.00	0.67	C
ATOM	12570	O	VAL	A1574	126.971	136.987	110.683	1.00	0.67	O
ATOM	12571	CB	VAL	A1574	130.009	138.203	110.399	1.00	0.67	C
ATOM	12572	CG1	VAL	A1574	130.799	137.322	109.413	1.00	0.67	C
ATOM	12573	CG2	VAL	A1574	129.073	139.181	109.652	1.00	0.67	C
ATOM	12574	N	ASP	A1575	128.385	135.265	110.346	1.00	0.63	N
ATOM	12575	CA	ASP	A1575	127.363	134.370	109.813	1.00	0.63	C
ATOM	12576	C	ASP	A1575	126.993	133.262	110.807	1.00	0.63	C
ATOM	12577	O	ASP	A1575	127.811	132.460	111.255	1.00	0.63	O
ATOM	12578	CB	ASP	A1575	127.669	133.866	108.361	1.00	0.63	C
ATOM	12579	CG	ASP	A1575	128.408	132.543	108.223	1.00	0.63	C
ATOM	12580	OD1	ASP	A1575	129.618	132.518	107.889	1.00	0.63	O
ATOM	12581	OD2	ASP	A1575	127.735	131.481	108.346	1.00	0.63	O
ATOM	12582	N	ALA	A1576	125.702	133.185	111.177	1.00	0.61	N
ATOM	12583	CA	ALA	A1576	125.221	132.240	112.157	1.00	0.61	C
ATOM	12584	C	ALA	A1576	123.913	131.649	111.667	1.00	0.61	C
ATOM	12585	O	ALA	A1576	123.068	132.329	111.086	1.00	0.61	O
ATOM	12586	CB	ALA	A1576	125.072	132.867	113.561	1.00	0.61	C
ATOM	12587	N	LYS	A1577	123.762	130.329	111.869	1.00	0.53	N
ATOM	12588	CA	LYS	A1577	122.615	129.545	111.466	1.00	0.53	C
ATOM	12589	C	LYS	A1577	121.654	129.439	112.638	1.00	0.53	C
ATOM	12590	O	LYS	A1577	122.009	129.715	113.782	1.00	0.53	O
ATOM	12591	CB	LYS	A1577	123.047	128.119	111.018	1.00	0.53	C
ATOM	12592	CG	LYS	A1577	123.804	128.080	109.675	1.00	0.53	C
ATOM	12593	CD	LYS	A1577	124.125	126.639	109.216	1.00	0.53	C
ATOM	12594	CE	LYS	A1577	124.749	126.533	107.812	1.00	0.53	C
ATOM	12595	NZ	LYS	A1577	125.088	125.132	107.470	1.00	0.53	N
ATOM	12596	N	SER	A1578	120.395	129.047	112.378	1.00	0.65	N
ATOM	12597	CA	SER	A1578	119.424	128.785	113.435	1.00	0.65	C
ATOM	12598	C	SER	A1578	119.550	127.349	113.943	1.00	0.65	C
ATOM	12599	O	SER	A1578	120.193	126.502	113.328	1.00	0.65	O

ATOM	12600	CB	SER	A1578	117.982	129.093	112.953	1.00	0.65	C
ATOM	12601	OG	SER	A1578	116.998	128.994	113.989	1.00	0.65	O
ATOM	12602	N	ARG	A1579	118.967	127.044	115.120	1.00	0.52	N
ATOM	12603	CA	ARG	A1579	119.055	125.735	115.747	1.00	0.52	C
ATOM	12604	C	ARG	A1579	118.003	124.775	115.200	1.00	0.52	C
ATOM	12605	O	ARG	A1579	116.887	125.170	114.868	1.00	0.52	O
ATOM	12606	CB	ARG	A1579	118.875	125.828	117.291	1.00	0.52	C
ATOM	12607	CG	ARG	A1579	119.957	126.666	118.010	1.00	0.52	C
ATOM	12608	CD	ARG	A1579	119.632	126.960	119.485	1.00	0.52	C
ATOM	12609	NE	ARG	A1579	120.708	127.888	120.001	1.00	0.52	N
ATOM	12610	CZ	ARG	A1579	120.495	129.076	120.592	1.00	0.52	C
ATOM	12611	NH1	ARG	A1579	119.276	129.515	120.879	1.00	0.52	N
ATOM	12612	NH2	ARG	A1579	121.529	129.842	120.933	1.00	0.52	N
ATOM	12613	N	SER	A1580	118.345	123.473	115.111	1.00	0.61	N
ATOM	12614	CA	SER	A1580	117.442	122.391	114.738	1.00	0.61	C
ATOM	12615	C	SER	A1580	116.236	122.250	115.653	1.00	0.61	C
ATOM	12616	O	SER	A1580	116.339	122.476	116.852	1.00	0.61	O
ATOM	12617	CB	SER	A1580	118.153	121.011	114.788	1.00	0.61	C
ATOM	12618	OG	SER	A1580	119.423	121.072	114.137	1.00	0.61	O
ATOM	12619	N	VAL	A1581	115.066	121.850	115.113	1.00	0.70	N
ATOM	12620	CA	VAL	A1581	113.854	121.627	115.897	1.00	0.70	C
ATOM	12621	C	VAL	A1581	113.269	120.273	115.518	1.00	0.70	C
ATOM	12622	O	VAL	A1581	113.137	119.956	114.334	1.00	0.70	O
ATOM	12623	CB	VAL	A1581	112.831	122.751	115.683	1.00	0.70	C
ATOM	12624	CG1	VAL	A1581	111.407	122.369	116.139	1.00	0.70	C
ATOM	12625	CG2	VAL	A1581	113.300	123.987	116.473	1.00	0.70	C
ATOM	12626	N	ARG	A1582	112.917	119.433	116.522	1.00	0.59	N
ATOM	12627	CA	ARG	A1582	112.362	118.096	116.341	1.00	0.59	C
ATOM	12628	C	ARG	A1582	110.851	118.043	116.584	1.00	0.59	C
ATOM	12629	O	ARG	A1582	110.360	117.383	117.498	1.00	0.59	O
ATOM	12630	CB	ARG	A1582	113.039	117.102	117.322	1.00	0.59	C
ATOM	12631	CG	ARG	A1582	114.576	117.077	117.206	1.00	0.59	C
ATOM	12632	CD	ARG	A1582	115.273	116.009	118.072	1.00	0.59	C
ATOM	12633	NE	ARG	A1582	114.878	114.633	117.589	1.00	0.59	N
ATOM	12634	CZ	ARG	A1582	115.225	114.151	116.389	1.00	0.59	C
ATOM	12635	NH1	ARG	A1582	116.153	114.742	115.649	1.00	0.59	N
ATOM	12636	NH2	ARG	A1582	114.582	113.106	115.883	1.00	0.59	N
ATOM	12637	N	LEU	A1583	110.058	118.745	115.760	1.00	0.63	N
ATOM	12638	CA	LEU	A1583	108.637	118.948	115.989	1.00	0.63	C
ATOM	12639	C	LEU	A1583	107.756	117.797	115.487	1.00	0.63	C
ATOM	12640	O	LEU	A1583	108.039	117.131	114.493	1.00	0.63	O
ATOM	12641	CB	LEU	A1583	108.246	120.307	115.356	1.00	0.63	C
ATOM	12642	CG	LEU	A1583	106.818	120.841	115.587	1.00	0.63	C
ATOM	12643	CD1	LEU	A1583	106.435	120.950	117.071	1.00	0.63	C
ATOM	12644	CD2	LEU	A1583	106.704	122.230	114.941	1.00	0.63	C
ATOM	12645	N	LEU	A1584	106.638	117.515	116.189	1.00	0.51	N
ATOM	12646	CA	LEU	A1584	105.716	116.450	115.832	1.00	0.51	C
ATOM	12647	C	LEU	A1584	104.494	117.012	115.120	1.00	0.51	C
ATOM	12648	O	LEU	A1584	103.759	117.834	115.669	1.00	0.51	O
ATOM	12649	CB	LEU	A1584	105.220	115.667	117.077	1.00	0.51	C
ATOM	12650	CG	LEU	A1584	106.164	114.563	117.599	1.00	0.51	C
ATOM	12651	CD1	LEU	A1584	107.472	115.093	118.203	1.00	0.51	C
ATOM	12652	CD2	LEU	A1584	105.423	113.697	118.629	1.00	0.51	C
ATOM	12653	N	GLY	A1585	104.224	116.563	113.875	1.00	0.50	N
ATOM	12654	CA	GLY	A1585	103.097	117.041	113.074	1.00	0.50	C
ATOM	12655	C	GLY	A1585	102.108	115.958	112.752	1.00	0.50	C
ATOM	12656	O	GLY	A1585	102.447	114.781	112.722	1.00	0.50	O
ATOM	12657	N	ALA	A1586	100.843	116.314	112.456	1.00	0.48	N
ATOM	12658	CA	ALA	A1586	99.872	115.357	111.946	1.00	0.48	C
ATOM	12659	C	ALA	A1586	100.248	114.763	110.567	1.00	0.48	C
ATOM	12660	O	ALA	A1586	100.855	115.472	109.760	1.00	0.48	O
ATOM	12661	CB	ALA	A1586	98.464	115.989	111.901	1.00	0.48	C
ATOM	12662	N	PRO	A1587	99.950	113.506	110.243	1.00	0.41	N
ATOM	12663	CA	PRO	A1587	100.289	112.926	108.952	1.00	0.41	C
ATOM	12664	C	PRO	A1587	99.121	113.060	107.989	1.00	0.41	C

ATOM	12665	O	PRO	A1587	97.956	113.008	108.388	1.00	0.41	O
ATOM	12666	CB	PRO	A1587	100.542	111.451	109.307	1.00	0.41	C
ATOM	12667	CG	PRO	A1587	99.542	111.163	110.430	1.00	0.41	C
ATOM	12668	CD	PRO	A1587	99.506	112.488	111.195	1.00	0.41	C
ATOM	12669	N	VAL	A1588	99.399	113.230	106.684	1.00	0.44	N
ATOM	12670	CA	VAL	A1588	98.343	113.403	105.703	1.00	0.44	C
ATOM	12671	C	VAL	A1588	97.754	112.060	105.296	1.00	0.44	C
ATOM	12672	O	VAL	A1588	98.313	111.305	104.498	1.00	0.44	O
ATOM	12673	CB	VAL	A1588	98.805	114.160	104.465	1.00	0.44	C
ATOM	12674	CG1	VAL	A1588	97.608	114.455	103.538	1.00	0.44	C
ATOM	12675	CG2	VAL	A1588	99.432	115.500	104.888	1.00	0.44	C
ATOM	12676	N	LYS	A1589	96.553	111.739	105.822	1.00	0.45	N
ATOM	12677	CA	LYS	A1589	95.860	110.478	105.596	1.00	0.45	C
ATOM	12678	C	LYS	A1589	95.427	110.261	104.147	1.00	0.45	C
ATOM	12679	O	LYS	A1589	95.170	109.140	103.723	1.00	0.45	O
ATOM	12680	CB	LYS	A1589	94.586	110.391	106.480	1.00	0.45	C
ATOM	12681	CG	LYS	A1589	94.830	110.333	107.999	1.00	0.45	C
ATOM	12682	CD	LYS	A1589	93.489	110.251	108.754	1.00	0.45	C
ATOM	12683	CE	LYS	A1589	93.609	110.129	110.277	1.00	0.45	C
ATOM	12684	NZ	LYS	A1589	92.256	110.060	110.849	1.00	0.45	N
ATOM	12685	N	LYS	A1590	95.356	111.339	103.344	1.00	0.36	N
ATOM	12686	CA	LYS	A1590	94.969	111.277	101.947	1.00	0.36	C
ATOM	12687	C	LYS	A1590	96.174	111.224	101.012	1.00	0.36	C
ATOM	12688	O	LYS	A1590	96.017	111.132	99.798	1.00	0.36	O
ATOM	12689	CB	LYS	A1590	94.127	112.531	101.592	1.00	0.36	C
ATOM	12690	CG	LYS	A1590	92.789	112.598	102.349	1.00	0.36	C
ATOM	12691	CD	LYS	A1590	91.951	113.821	101.936	1.00	0.36	C
ATOM	12692	CE	LYS	A1590	90.555	113.833	102.566	1.00	0.36	C
ATOM	12693	NZ	LYS	A1590	89.777	114.987	102.060	1.00	0.36	N
ATOM	12694	N	SER	A1591	97.412	111.240	101.555	1.00	0.28	N
ATOM	12695	CA	SER	A1591	98.614	111.398	100.736	1.00	0.28	C
ATOM	12696	C	SER	A1591	99.730	110.509	101.229	1.00	0.28	C
ATOM	12697	O	SER	A1591	100.907	110.793	101.024	1.00	0.28	O
ATOM	12698	CB	SER	A1591	99.182	112.847	100.700	1.00	0.28	C
ATOM	12699	OG	SER	A1591	98.208	113.765	100.204	1.00	0.28	O
ATOM	12700	N	GLY	A1592	99.405	109.383	101.900	1.00	0.23	N
ATOM	12701	CA	GLY	A1592	100.415	108.402	102.304	1.00	0.23	C
ATOM	12702	C	GLY	A1592	101.187	108.754	103.546	1.00	0.23	C
ATOM	12703	O	GLY	A1592	102.231	108.175	103.821	1.00	0.23	O
ATOM	12704	N	GLY	A1593	100.709	109.740	104.326	1.00	0.22	N
ATOM	12705	CA	GLY	A1593	101.371	110.196	105.540	1.00	0.22	C
ATOM	12706	C	GLY	A1593	102.470	111.202	105.321	1.00	0.22	C
ATOM	12707	O	GLY	A1593	103.110	111.623	106.278	1.00	0.22	O
ATOM	12708	N	VAL	A1594	102.703	111.634	104.063	1.00	0.41	N
ATOM	12709	CA	VAL	A1594	103.685	112.653	103.692	1.00	0.41	C
ATOM	12710	C	VAL	A1594	103.382	114.002	104.333	1.00	0.41	C
ATOM	12711	O	VAL	A1594	102.267	114.507	104.259	1.00	0.41	O
ATOM	12712	CB	VAL	A1594	103.793	112.808	102.175	1.00	0.41	C
ATOM	12713	CG1	VAL	A1594	104.800	113.914	101.787	1.00	0.41	C
ATOM	12714	CG2	VAL	A1594	104.239	111.459	101.575	1.00	0.41	C
ATOM	12715	N	THR	A1595	104.368	114.614	105.012	1.00	0.42	N
ATOM	12716	CA	THR	A1595	104.144	115.747	105.896	1.00	0.42	C
ATOM	12717	C	THR	A1595	104.554	117.064	105.280	1.00	0.42	C
ATOM	12718	O	THR	A1595	105.199	117.138	104.239	1.00	0.42	O
ATOM	12719	CB	THR	A1595	104.863	115.590	107.223	1.00	0.42	C
ATOM	12720	OG1	THR	A1595	106.245	115.322	107.035	1.00	0.42	O
ATOM	12721	CG2	THR	A1595	104.281	114.376	107.945	1.00	0.42	C
ATOM	12722	N	THR	A1596	104.145	118.181	105.910	1.00	0.52	N
ATOM	12723	CA	THR	A1596	104.547	119.502	105.463	1.00	0.52	C
ATOM	12724	C	THR	A1596	104.355	120.445	106.630	1.00	0.52	C
ATOM	12725	O	THR	A1596	103.613	120.149	107.565	1.00	0.52	O
ATOM	12726	CB	THR	A1596	103.794	119.984	104.216	1.00	0.52	C
ATOM	12727	OG1	THR	A1596	104.162	121.301	103.820	1.00	0.52	O
ATOM	12728	CG2	THR	A1596	102.274	119.971	104.431	1.00	0.52	C
ATOM	12729	N	VAL	A1597	105.022	121.618	106.609	1.00	0.67	N

ATOM	12730	CA	VAL	A1597	104.942	122.657	107.629	1.00	0.67	C
ATOM	12731	C	VAL	A1597	103.528	123.204	107.756	1.00	0.67	C
ATOM	12732	O	VAL	A1597	103.021	123.426	108.853	1.00	0.67	O
ATOM	12733	CB	VAL	A1597	105.937	123.783	107.351	1.00	0.67	C
ATOM	12734	CG1	VAL	A1597	105.842	124.893	108.420	1.00	0.67	C
ATOM	12735	CG2	VAL	A1597	107.363	123.194	107.344	1.00	0.67	C
ATOM	12736	N	SER	A1598	102.815	123.366	106.624	1.00	0.71	N
ATOM	12737	CA	SER	A1598	101.438	123.845	106.566	1.00	0.71	C
ATOM	12738	C	SER	A1598	100.461	122.992	107.359	1.00	0.71	C
ATOM	12739	O	SER	A1598	99.543	123.491	108.006	1.00	0.71	O
ATOM	12740	CB	SER	A1598	100.918	123.908	105.106	1.00	0.71	C
ATOM	12741	OG	SER	A1598	101.926	124.441	104.249	1.00	0.71	O
ATOM	12742	N	GLN	A1599	100.659	121.656	107.351	1.00	0.71	N
ATOM	12743	CA	GLN	A1599	99.895	120.711	108.147	1.00	0.71	C
ATOM	12744	C	GLN	A1599	100.109	120.898	109.645	1.00	0.71	C
ATOM	12745	O	GLN	A1599	99.165	120.830	110.428	1.00	0.71	O
ATOM	12746	CB	GLN	A1599	100.232	119.250	107.742	1.00	0.71	C
ATOM	12747	CG	GLN	A1599	99.401	118.131	108.432	1.00	0.71	C
ATOM	12748	CD	GLN	A1599	97.952	118.020	107.951	1.00	0.71	C
ATOM	12749	OE1	GLN	A1599	97.546	117.061	107.299	1.00	0.71	O
ATOM	12750	NE2	GLN	A1599	97.105	119.016	108.290	1.00	0.71	N
ATOM	12751	N	VAL	A1600	101.364	121.164	110.061	1.00	0.78	N
ATOM	12752	CA	VAL	A1600	101.747	121.484	111.430	1.00	0.78	C
ATOM	12753	C	VAL	A1600	101.170	122.802	111.925	1.00	0.78	C
ATOM	12754	O	VAL	A1600	100.648	122.891	113.035	1.00	0.78	O
ATOM	12755	CB	VAL	A1600	103.265	121.526	111.584	1.00	0.78	C
ATOM	12756	CG1	VAL	A1600	103.635	121.701	113.066	1.00	0.78	C
ATOM	12757	CG2	VAL	A1600	103.869	120.209	111.068	1.00	0.78	C
ATOM	12758	N	VAL	A1601	101.214	123.869	111.101	1.00	0.79	N
ATOM	12759	CA	VAL	A1601	100.602	125.159	111.412	1.00	0.79	C
ATOM	12760	C	VAL	A1601	99.090	125.037	111.565	1.00	0.79	C
ATOM	12761	O	VAL	A1601	98.495	125.608	112.477	1.00	0.79	O
ATOM	12762	CB	VAL	A1601	100.983	126.231	110.392	1.00	0.79	C
ATOM	12763	CG1	VAL	A1601	100.290	127.575	110.705	1.00	0.79	C
ATOM	12764	CG2	VAL	A1601	102.512	126.433	110.437	1.00	0.79	C
ATOM	12765	N	LYS	A1602	98.445	124.221	110.705	1.00	0.75	N
ATOM	12766	CA	LYS	A1602	97.036	123.889	110.814	1.00	0.75	C
ATOM	12767	C	LYS	A1602	96.635	123.187	112.115	1.00	0.75	C
ATOM	12768	O	LYS	A1602	95.598	123.520	112.683	1.00	0.75	O
ATOM	12769	CB	LYS	A1602	96.589	123.028	109.597	1.00	0.75	C
ATOM	12770	CG	LYS	A1602	95.085	122.700	109.579	1.00	0.75	C
ATOM	12771	CD	LYS	A1602	94.586	122.081	108.262	1.00	0.75	C
ATOM	12772	CE	LYS	A1602	93.052	122.023	108.227	1.00	0.75	C
ATOM	12773	NZ	LYS	A1602	92.557	121.540	106.921	1.00	0.75	N
ATOM	12774	N	SER	A1603	97.418	122.198	112.618	1.00	0.79	N
ATOM	12775	CA	SER	A1603	96.992	121.362	113.747	1.00	0.79	C
ATOM	12776	C	SER	A1603	97.718	121.541	115.077	1.00	0.79	C
ATOM	12777	O	SER	A1603	97.231	121.069	116.102	1.00	0.79	O
ATOM	12778	CB	SER	A1603	97.082	119.849	113.397	1.00	0.79	C
ATOM	12779	OG	SER	A1603	98.425	119.399	113.183	1.00	0.79	O
ATOM	12780	N	ASN	A1604	98.875	122.234	115.139	1.00	0.82	N
ATOM	12781	CA	ASN	A1604	99.584	122.460	116.399	1.00	0.82	C
ATOM	12782	C	ASN	A1604	99.405	123.898	116.883	1.00	0.82	C
ATOM	12783	O	ASN	A1604	100.047	124.333	117.841	1.00	0.82	O
ATOM	12784	CB	ASN	A1604	101.110	122.170	116.286	1.00	0.82	C
ATOM	12785	CG	ASN	A1604	101.465	120.687	116.347	1.00	0.82	C
ATOM	12786	OD1	ASN	A1604	100.679	119.766	116.586	1.00	0.82	O
ATOM	12787	ND2	ASN	A1604	102.783	120.428	116.173	1.00	0.82	N
ATOM	12788	N	PHE	A1605	98.514	124.693	116.255	1.00	0.84	N
ATOM	12789	CA	PHE	A1605	98.163	126.010	116.760	1.00	0.84	C
ATOM	12790	C	PHE	A1605	97.453	125.960	118.124	1.00	0.84	C
ATOM	12791	O	PHE	A1605	97.798	126.709	119.039	1.00	0.84	O
ATOM	12792	CB	PHE	A1605	97.330	126.796	115.703	1.00	0.84	C
ATOM	12793	CG	PHE	A1605	97.091	128.204	116.183	1.00	0.84	C
ATOM	12794	CD1	PHE	A1605	98.165	129.104	116.295	1.00	0.84	C



ATOM	12795	CD2	PHE	A1605	95.829	128.581	116.671	1.00	0.84	C
ATOM	12796	CE1	PHE	A1605	98.002	130.328	116.955	1.00	0.84	C
ATOM	12797	CE2	PHE	A1605	95.656	129.815	117.309	1.00	0.84	C
ATOM	12798	CZ	PHE	A1605	96.750	130.672	117.480	1.00	0.84	C
ATOM	12799	N	PHE	A1606	96.470	125.052	118.285	1.00	0.83	N
ATOM	12800	CA	PHE	A1606	95.778	124.816	119.535	1.00	0.83	C
ATOM	12801	C	PHE	A1606	95.290	123.366	119.479	1.00	0.83	C
ATOM	12802	O	PHE	A1606	94.910	122.944	118.385	1.00	0.83	O
ATOM	12803	CB	PHE	A1606	94.595	125.824	119.670	1.00	0.83	C
ATOM	12804	CG	PHE	A1606	93.883	125.729	120.994	1.00	0.83	C
ATOM	12805	CD1	PHE	A1606	94.542	126.072	122.186	1.00	0.83	C
ATOM	12806	CD2	PHE	A1606	92.559	125.263	121.061	1.00	0.83	C
ATOM	12807	CE1	PHE	A1606	93.907	125.895	123.423	1.00	0.83	C
ATOM	12808	CE2	PHE	A1606	91.913	125.112	122.294	1.00	0.83	C
ATOM	12809	CZ	PHE	A1606	92.591	125.422	123.477	1.00	0.83	C
ATOM	12810	N	PRO	A1607	95.266	122.540	120.525	1.00	0.80	N
ATOM	12811	CA	PRO	A1607	94.757	121.174	120.422	1.00	0.80	C
ATOM	12812	C	PRO	A1607	93.238	121.136	120.287	1.00	0.80	C
ATOM	12813	O	PRO	A1607	92.533	121.924	120.911	1.00	0.80	O
ATOM	12814	CB	PRO	A1607	95.233	120.504	121.727	1.00	0.80	C
ATOM	12815	CG	PRO	A1607	95.395	121.666	122.711	1.00	0.80	C
ATOM	12816	CD	PRO	A1607	95.910	122.791	121.817	1.00	0.80	C
ATOM	12817	N	GLY	A1608	92.698	120.222	119.448	1.00	0.76	N
ATOM	12818	CA	GLY	A1608	91.253	120.102	119.236	1.00	0.76	C
ATOM	12819	C	GLY	A1608	90.672	121.099	118.265	1.00	0.76	C
ATOM	12820	O	GLY	A1608	89.457	121.222	118.138	1.00	0.76	O
ATOM	12821	N	PHE	A1609	91.534	121.845	117.560	1.00	0.73	N
ATOM	12822	CA	PHE	A1609	91.143	122.933	116.700	1.00	0.73	C
ATOM	12823	C	PHE	A1609	91.995	122.858	115.446	1.00	0.73	C
ATOM	12824	O	PHE	A1609	93.108	122.335	115.464	1.00	0.73	O
ATOM	12825	CB	PHE	A1609	91.394	124.252	117.481	1.00	0.73	C
ATOM	12826	CG	PHE	A1609	90.989	125.508	116.758	1.00	0.73	C
ATOM	12827	CD1	PHE	A1609	89.649	125.922	116.750	1.00	0.73	C
ATOM	12828	CD2	PHE	A1609	91.951	126.298	116.106	1.00	0.73	C
ATOM	12829	CE1	PHE	A1609	89.270	127.102	116.097	1.00	0.73	C
ATOM	12830	CE2	PHE	A1609	91.577	127.476	115.447	1.00	0.73	C
ATOM	12831	CZ	PHE	A1609	90.235	127.878	115.443	1.00	0.73	C
ATOM	12832	N	ILE	A1610	91.477	123.365	114.314	1.00	0.77	N
ATOM	12833	CA	ILE	A1610	92.229	123.473	113.077	1.00	0.77	C
ATOM	12834	C	ILE	A1610	92.195	124.910	112.604	1.00	0.77	C
ATOM	12835	O	ILE	A1610	91.196	125.602	112.775	1.00	0.77	O
ATOM	12836	CB	ILE	A1610	91.741	122.544	111.963	1.00	0.77	C
ATOM	12837	CG1	ILE	A1610	90.241	122.740	111.633	1.00	0.77	C
ATOM	12838	CG2	ILE	A1610	92.063	121.094	112.387	1.00	0.77	C
ATOM	12839	CD1	ILE	A1610	89.765	121.961	110.402	1.00	0.77	C
ATOM	12840	N	LEU	A1611	93.300	125.399	112.011	1.00	0.78	N
ATOM	12841	CA	LEU	A1611	93.397	126.746	111.474	1.00	0.78	C
ATOM	12842	C	LEU	A1611	93.541	126.681	109.960	1.00	0.78	C
ATOM	12843	O	LEU	A1611	94.453	126.037	109.438	1.00	0.78	O
ATOM	12844	CB	LEU	A1611	94.638	127.447	112.090	1.00	0.78	C
ATOM	12845	CG	LEU	A1611	94.811	128.947	111.764	1.00	0.78	C
ATOM	12846	CD1	LEU	A1611	93.725	129.815	112.416	1.00	0.78	C
ATOM	12847	CD2	LEU	A1611	96.191	129.440	112.224	1.00	0.78	C
ATOM	12848	N	ASP	A1612	92.641	127.338	109.204	1.00	0.69	N
ATOM	12849	CA	ASP	A1612	92.669	127.290	107.758	1.00	0.69	C
ATOM	12850	C	ASP	A1612	92.182	128.603	107.159	1.00	0.69	C
ATOM	12851	O	ASP	A1612	91.647	129.485	107.829	1.00	0.69	O
ATOM	12852	CB	ASP	A1612	91.968	126.027	107.164	1.00	0.69	C
ATOM	12853	CG	ASP	A1612	90.629	125.662	107.791	1.00	0.69	C
ATOM	12854	OD1	ASP	A1612	90.511	124.460	108.165	1.00	0.69	O
ATOM	12855	OD2	ASP	A1612	89.721	126.525	107.844	1.00	0.69	O
ATOM	12856	N	SER	A1613	92.418	128.810	105.849	1.00	0.54	N
ATOM	12857	CA	SER	A1613	91.972	130.013	105.163	1.00	0.54	C
ATOM	12858	C	SER	A1613	90.570	129.794	104.633	1.00	0.54	C
ATOM	12859	O	SER	A1613	90.367	129.299	103.530	1.00	0.54	O

ATOM	12860	CB	SER	A1613	92.911	130.427	103.999	1.00	0.54	C
ATOM	12861	OG	SER	A1613	92.551	131.715	103.497	1.00	0.54	O
ATOM	12862	N	SER	A1614	89.540	130.160	105.421	1.00	0.39	N
ATOM	12863	CA	SER	A1614	88.147	129.853	105.108	1.00	0.39	C
ATOM	12864	C	SER	A1614	87.560	130.701	103.994	1.00	0.39	C
ATOM	12865	O	SER	A1614	86.472	130.423	103.495	1.00	0.39	O
ATOM	12866	CB	SER	A1614	87.217	129.945	106.345	1.00	0.39	C
ATOM	12867	OG	SER	A1614	87.156	131.272	106.874	1.00	0.39	O
ATOM	12868	N	GLU	A1615	88.298	131.741	103.562	1.00	0.26	N
ATOM	12869	CA	GLU	A1615	88.021	132.560	102.400	1.00	0.26	C
ATOM	12870	C	GLU	A1615	87.993	131.775	101.092	1.00	0.26	C
ATOM	12871	O	GLU	A1615	87.252	132.115	100.172	1.00	0.26	O
ATOM	12872	CB	GLU	A1615	89.081	133.682	102.279	1.00	0.26	C
ATOM	12873	CG	GLU	A1615	89.070	134.694	103.453	1.00	0.26	C
ATOM	12874	CD	GLU	A1615	90.081	135.828	103.272	1.00	0.26	C
ATOM	12875	OE1	GLU	A1615	90.811	135.834	102.248	1.00	0.26	O
ATOM	12876	OE2	GLU	A1615	90.116	136.704	104.174	1.00	0.26	O
ATOM	12877	N	SER	A1616	88.802	130.701	100.962	1.00	0.22	N
ATOM	12878	CA	SER	A1616	88.880	129.968	99.708	1.00	0.22	C
ATOM	12879	C	SER	A1616	89.090	128.489	99.941	1.00	0.22	C
ATOM	12880	O	SER	A1616	89.728	128.062	100.898	1.00	0.22	O
ATOM	12881	CB	SER	A1616	90.030	130.483	98.798	1.00	0.22	C
ATOM	12882	OG	SER	A1616	89.908	129.983	97.463	1.00	0.22	O
ATOM	12883	N	LEU	A1617	88.560	127.656	99.034	1.00	0.24	N
ATOM	12884	CA	LEU	A1617	88.798	126.234	99.021	1.00	0.24	C
ATOM	12885	C	LEU	A1617	88.774	125.811	97.571	1.00	0.24	C
ATOM	12886	O	LEU	A1617	88.106	126.433	96.744	1.00	0.24	O
ATOM	12887	CB	LEU	A1617	87.790	125.428	99.896	1.00	0.24	C
ATOM	12888	CG	LEU	A1617	86.284	125.529	99.544	1.00	0.24	C
ATOM	12889	CD1	LEU	A1617	85.835	124.585	98.413	1.00	0.24	C
ATOM	12890	CD2	LEU	A1617	85.431	125.221	100.785	1.00	0.24	C
ATOM	12891	N	ASP	A1618	89.528	124.758	97.218	1.00	0.22	N
ATOM	12892	CA	ASP	A1618	89.632	124.300	95.855	1.00	0.22	C
ATOM	12893	C	ASP	A1618	88.691	123.143	95.561	1.00	0.22	C
ATOM	12894	O	ASP	A1618	88.628	122.143	96.275	1.00	0.22	O
ATOM	12895	CB	ASP	A1618	91.075	123.853	95.547	1.00	0.22	C
ATOM	12896	CG	ASP	A1618	91.970	125.072	95.487	1.00	0.22	C
ATOM	12897	OD1	ASP	A1618	91.752	125.891	94.559	1.00	0.22	O
ATOM	12898	OD2	ASP	A1618	92.885	125.176	96.339	1.00	0.22	O
ATOM	12899	N	ASP	A1619	87.964	123.257	94.437	1.00	0.27	N
ATOM	12900	CA	ASP	A1619	87.149	122.209	93.874	1.00	0.27	C
ATOM	12901	C	ASP	A1619	87.774	121.839	92.533	1.00	0.27	C
ATOM	12902	O	ASP	A1619	87.975	122.688	91.662	1.00	0.27	O
ATOM	12903	CB	ASP	A1619	85.682	122.688	93.732	1.00	0.27	C
ATOM	12904	CG	ASP	A1619	84.853	121.677	92.960	1.00	0.27	C
ATOM	12905	OD1	ASP	A1619	84.156	120.879	93.616	1.00	0.27	O
ATOM	12906	OD2	ASP	A1619	84.981	121.682	91.698	1.00	0.27	O
ATOM	12907	N	GLN	A1620	88.085	120.540	92.358	1.00	0.34	N
ATOM	12908	CA	GLN	A1620	88.797	120.026	91.207	1.00	0.34	C
ATOM	12909	C	GLN	A1620	87.910	119.211	90.270	1.00	0.34	C
ATOM	12910	O	GLN	A1620	88.417	118.634	89.312	1.00	0.34	O
ATOM	12911	CB	GLN	A1620	89.992	119.136	91.653	1.00	0.34	C
ATOM	12912	CG	GLN	A1620	91.054	119.855	92.524	1.00	0.34	C
ATOM	12913	CD	GLN	A1620	91.752	120.983	91.760	1.00	0.34	C
ATOM	12914	OE1	GLN	A1620	92.218	120.816	90.634	1.00	0.34	O
ATOM	12915	NE2	GLN	A1620	91.853	122.174	92.390	1.00	0.34	N
ATOM	12916	N	GLU	A1621	86.563	119.164	90.451	1.00	0.23	N
ATOM	12917	CA	GLU	A1621	85.697	118.303	89.634	1.00	0.23	C
ATOM	12918	C	GLU	A1621	85.672	118.685	88.159	1.00	0.23	C
ATOM	12919	O	GLU	A1621	85.409	117.880	87.269	1.00	0.23	O
ATOM	12920	CB	GLU	A1621	84.230	118.279	90.131	1.00	0.23	C
ATOM	12921	CG	GLU	A1621	84.011	117.442	91.415	1.00	0.23	C
ATOM	12922	CD	GLU	A1621	82.554	117.002	91.600	1.00	0.23	C
ATOM	12923	OE1	GLU	A1621	81.678	117.433	90.807	1.00	0.23	O
ATOM	12924	OE2	GLU	A1621	82.326	116.173	92.521	1.00	0.23	O

ATOM	12925	N	ARG	A1622	85.993	119.953	87.868	1.00	0.24	N
ATOM	12926	CA	ARG	A1622	86.014	120.502	86.531	1.00	0.24	C
ATOM	12927	C	ARG	A1622	87.406	120.455	85.914	1.00	0.24	C
ATOM	12928	O	ARG	A1622	87.633	121.033	84.854	1.00	0.24	O
ATOM	12929	CB	ARG	A1622	85.564	121.981	86.604	1.00	0.24	C
ATOM	12930	CG	ARG	A1622	84.129	122.153	87.148	1.00	0.24	C
ATOM	12931	CD	ARG	A1622	83.858	123.533	87.752	1.00	0.24	C
ATOM	12932	NE	ARG	A1622	84.623	123.597	89.046	1.00	0.24	N
ATOM	12933	CZ	ARG	A1622	85.095	124.721	89.597	1.00	0.24	C
ATOM	12934	NH1	ARG	A1622	84.767	125.919	89.118	1.00	0.24	N
ATOM	12935	NH2	ARG	A1622	85.898	124.638	90.652	1.00	0.24	N
ATOM	12936	N	VAL	A1623	88.382	119.786	86.569	1.00	0.48	N
ATOM	12937	CA	VAL	A1623	89.746	119.689	86.069	1.00	0.48	C
ATOM	12938	C	VAL	A1623	89.950	118.339	85.381	1.00	0.48	C
ATOM	12939	O	VAL	A1623	89.281	118.051	84.390	1.00	0.48	O
ATOM	12940	CB	VAL	A1623	90.806	120.058	87.115	1.00	0.48	C
ATOM	12941	CG1	VAL	A1623	92.186	120.312	86.466	1.00	0.48	C
ATOM	12942	CG2	VAL	A1623	90.380	121.378	87.791	1.00	0.48	C
ATOM	12943	N	GLU	A1624	90.928	117.511	85.812	1.00	0.57	N
ATOM	12944	CA	GLU	A1624	91.387	116.255	85.221	1.00	0.57	C
ATOM	12945	C	GLU	A1624	91.951	116.320	83.801	1.00	0.57	C
ATOM	12946	O	GLU	A1624	92.914	115.634	83.460	1.00	0.57	O
ATOM	12947	CB	GLU	A1624	90.381	115.097	85.444	1.00	0.57	C
ATOM	12948	CG	GLU	A1624	90.088	114.851	86.950	1.00	0.57	C
ATOM	12949	CD	GLU	A1624	91.369	114.625	87.754	1.00	0.57	C
ATOM	12950	OE1	GLU	A1624	92.002	115.645	88.142	1.00	0.57	O
ATOM	12951	OE2	GLU	A1624	91.749	113.443	87.944	1.00	0.57	O
ATOM	12952	N	GLY	A1625	91.463	117.263	82.966	1.00	0.67	N
ATOM	12953	CA	GLY	A1625	91.977	117.576	81.638	1.00	0.67	C
ATOM	12954	C	GLY	A1625	93.397	118.070	81.649	1.00	0.67	C
ATOM	12955	O	GLY	A1625	94.192	117.769	80.767	1.00	0.67	O
ATOM	12956	N	VAL	A1626	93.775	118.803	82.710	1.00	0.66	N
ATOM	12957	CA	VAL	A1626	95.134	119.259	82.956	1.00	0.66	C
ATOM	12958	C	VAL	A1626	96.096	118.096	83.185	1.00	0.66	C
ATOM	12959	O	VAL	A1626	97.222	118.096	82.690	1.00	0.66	O
ATOM	12960	CB	VAL	A1626	95.170	120.246	84.122	1.00	0.66	C
ATOM	12961	CG1	VAL	A1626	96.612	120.683	84.444	1.00	0.66	C
ATOM	12962	CG2	VAL	A1626	94.337	121.488	83.744	1.00	0.66	C
ATOM	12963	N	SER	A1627	95.666	117.054	83.931	1.00	0.71	N
ATOM	12964	CA	SER	A1627	96.468	115.860	84.191	1.00	0.71	C
ATOM	12965	C	SER	A1627	96.743	115.037	82.937	1.00	0.71	C
ATOM	12966	O	SER	A1627	97.885	114.682	82.643	1.00	0.71	O
ATOM	12967	CB	SER	A1627	95.808	114.963	85.277	1.00	0.71	C
ATOM	12968	OG	SER	A1627	96.707	113.961	85.754	1.00	0.71	O
ATOM	12969	N	ILE	A1628	95.707	114.780	82.100	1.00	0.75	N
ATOM	12970	CA	ILE	A1628	95.888	114.091	80.823	1.00	0.75	C
ATOM	12971	C	ILE	A1628	96.755	114.879	79.848	1.00	0.75	C
ATOM	12972	O	ILE	A1628	97.603	114.321	79.154	1.00	0.75	O
ATOM	12973	CB	ILE	A1628	94.588	113.619	80.148	1.00	0.75	C
ATOM	12974	CG1	ILE	A1628	93.705	114.750	79.571	1.00	0.75	C
ATOM	12975	CG2	ILE	A1628	93.786	112.785	81.170	1.00	0.75	C
ATOM	12976	CD1	ILE	A1628	92.563	114.256	78.674	1.00	0.75	C
ATOM	12977	N	LEU	A1629	96.582	116.216	79.797	1.00	0.75	N
ATOM	12978	CA	LEU	A1629	97.314	117.097	78.913	1.00	0.75	C
ATOM	12979	C	LEU	A1629	98.806	117.146	79.194	1.00	0.75	C
ATOM	12980	O	LEU	A1629	99.615	117.024	78.279	1.00	0.75	O
ATOM	12981	CB	LEU	A1629	96.670	118.500	78.970	1.00	0.75	C
ATOM	12982	CG	LEU	A1629	97.158	119.540	77.945	1.00	0.75	C
ATOM	12983	CD1	LEU	A1629	97.269	118.964	76.528	1.00	0.75	C
ATOM	12984	CD2	LEU	A1629	96.170	120.716	77.937	1.00	0.75	C
ATOM	12985	N	LYS	A1630	99.224	117.245	80.475	1.00	0.76	N
ATOM	12986	CA	LYS	A1630	100.633	117.185	80.841	1.00	0.76	C
ATOM	12987	C	LYS	A1630	101.304	115.868	80.477	1.00	0.76	C
ATOM	12988	O	LYS	A1630	102.404	115.857	79.928	1.00	0.76	O
ATOM	12989	CB	LYS	A1630	100.830	117.398	82.351	1.00	0.76	C

ATOM	12990	CG	LYS	A1630	100.508	118.814	82.834	1.00	0.76	C
ATOM	12991	CD	LYS	A1630	100.592	118.839	84.362	1.00	0.76	C
ATOM	12992	CE	LYS	A1630	100.331	120.197	84.988	1.00	0.76	C
ATOM	12993	NZ	LYS	A1630	100.260	120.010	86.449	1.00	0.76	N
ATOM	12994	N	HIS	A1631	100.618	114.727	80.719	1.00	0.79	N
ATOM	12995	CA	HIS	A1631	101.084	113.407	80.314	1.00	0.79	C
ATOM	12996	C	HIS	A1631	101.298	113.316	78.811	1.00	0.79	C
ATOM	12997	O	HIS	A1631	102.350	112.899	78.336	1.00	0.79	O
ATOM	12998	CB	HIS	A1631	100.042	112.330	80.723	1.00	0.79	C
ATOM	12999	CG	HIS	A1631	100.319	110.936	80.227	1.00	0.79	C
ATOM	13000	ND1	HIS	A1631	101.233	110.146	80.892	1.00	0.79	N
ATOM	13001	CD2	HIS	A1631	99.808	110.263	79.159	1.00	0.79	C
ATOM	13002	CE1	HIS	A1631	101.259	109.009	80.223	1.00	0.79	C
ATOM	13003	NE2	HIS	A1631	100.416	109.025	79.162	1.00	0.79	N
ATOM	13004	N	ILE	A1632	100.320	113.776	78.006	1.00	0.81	N
ATOM	13005	CA	ILE	A1632	100.445	113.797	76.556	1.00	0.81	C
ATOM	13006	C	ILE	A1632	101.550	114.726	76.069	1.00	0.81	C
ATOM	13007	O	ILE	A1632	102.343	114.330	75.221	1.00	0.81	O
ATOM	13008	CB	ILE	A1632	99.101	114.058	75.880	1.00	0.81	C
ATOM	13009	CG1	ILE	A1632	98.172	112.856	76.184	1.00	0.81	C
ATOM	13010	CG2	ILE	A1632	99.268	114.267	74.354	1.00	0.81	C
ATOM	13011	CD1	ILE	A1632	96.720	113.072	75.756	1.00	0.81	C
ATOM	13012	N	LEU	A1633	101.688	115.948	76.627	1.00	0.82	N
ATOM	13013	CA	LEU	A1633	102.773	116.866	76.294	1.00	0.82	C
ATOM	13014	C	LEU	A1633	104.158	116.332	76.620	1.00	0.82	C
ATOM	13015	O	LEU	A1633	105.090	116.459	75.827	1.00	0.82	O
ATOM	13016	CB	LEU	A1633	102.601	118.226	77.015	1.00	0.82	C
ATOM	13017	CG	LEU	A1633	101.433	119.078	76.484	1.00	0.82	C
ATOM	13018	CD1	LEU	A1633	101.183	120.274	77.414	1.00	0.82	C
ATOM	13019	CD2	LEU	A1633	101.675	119.550	75.043	1.00	0.82	C
ATOM	13020	N	PHE	A1634	104.333	115.685	77.790	1.00	0.82	N
ATOM	13021	CA	PHE	A1634	105.565	115.004	78.140	1.00	0.82	C
ATOM	13022	C	PHE	A1634	105.902	113.878	77.155	1.00	0.82	C
ATOM	13023	O	PHE	A1634	107.012	113.803	76.624	1.00	0.82	O
ATOM	13024	CB	PHE	A1634	105.426	114.455	79.593	1.00	0.82	C
ATOM	13025	CG	PHE	A1634	106.612	113.627	80.009	1.00	0.82	C
ATOM	13026	CD1	PHE	A1634	107.803	114.229	80.436	1.00	0.82	C
ATOM	13027	CD2	PHE	A1634	106.557	112.228	79.905	1.00	0.82	C
ATOM	13028	CE1	PHE	A1634	108.920	113.452	80.757	1.00	0.82	C
ATOM	13029	CE2	PHE	A1634	107.671	111.444	80.222	1.00	0.82	C
ATOM	13030	CZ	PHE	A1634	108.848	112.060	80.663	1.00	0.82	C
ATOM	13031	N	MET	A1635	104.924	113.001	76.862	1.00	0.79	N
ATOM	13032	CA	MET	A1635	105.103	111.882	75.960	1.00	0.79	C
ATOM	13033	C	MET	A1635	105.320	112.288	74.508	1.00	0.79	C
ATOM	13034	O	MET	A1635	106.118	111.664	73.808	1.00	0.79	O
ATOM	13035	CB	MET	A1635	103.950	110.855	76.103	1.00	0.79	C
ATOM	13036	CG	MET	A1635	103.886	110.186	77.499	1.00	0.79	C
ATOM	13037	SD	MET	A1635	105.386	109.292	78.018	1.00	0.79	S
ATOM	13038	CE	MET	A1635	105.082	107.818	77.018	1.00	0.79	C
ATOM	13039	N	THR	A1636	104.650	113.327	73.978	1.00	0.82	N
ATOM	13040	CA	THR	A1636	104.945	113.828	72.633	1.00	0.82	C
ATOM	13041	C	THR	A1636	106.264	114.572	72.507	1.00	0.82	C
ATOM	13042	O	THR	A1636	107.002	114.333	71.555	1.00	0.82	O
ATOM	13043	CB	THR	A1636	103.852	114.669	71.977	1.00	0.82	C
ATOM	13044	OG1	THR	A1636	103.521	115.820	72.740	1.00	0.82	O
ATOM	13045	CG2	THR	A1636	102.579	113.824	71.839	1.00	0.82	C
ATOM	13046	N	LEU	A1637	106.626	115.483	73.443	1.00	0.79	N
ATOM	13047	CA	LEU	A1637	107.872	116.242	73.337	1.00	0.79	C
ATOM	13048	C	LEU	A1637	109.144	115.422	73.442	1.00	0.79	C
ATOM	13049	O	LEU	A1637	110.032	115.565	72.602	1.00	0.79	O
ATOM	13050	CB	LEU	A1637	107.986	117.363	74.402	1.00	0.79	C
ATOM	13051	CG	LEU	A1637	107.138	118.619	74.132	1.00	0.79	C
ATOM	13052	CD1	LEU	A1637	107.345	119.623	75.277	1.00	0.79	C
ATOM	13053	CD2	LEU	A1637	107.490	119.287	72.793	1.00	0.79	C
ATOM	13054	N	ASN	A1638	109.215	114.524	74.451	1.00	0.75	N

ATOM	13055	CA	ASN	A1638	110.394	113.718	74.739	1.00	0.75	C
ATOM	13056	C	ASN	A1638	110.246	112.363	74.058	1.00	0.75	C
ATOM	13057	O	ASN	A1638	111.048	111.444	74.216	1.00	0.75	O
ATOM	13058	CB	ASN	A1638	110.557	113.460	76.267	1.00	0.75	C
ATOM	13059	CG	ASN	A1638	110.530	114.749	77.082	1.00	0.75	C
ATOM	13060	OD1	ASN	A1638	111.510	115.463	77.268	1.00	0.75	O
ATOM	13061	ND2	ASN	A1638	109.348	115.076	77.654	1.00	0.75	N
ATOM	13062	N	GLY	A1639	109.159	112.195	73.279	1.00	0.79	N
ATOM	13063	CA	GLY	A1639	108.927	110.997	72.502	1.00	0.79	C
ATOM	13064	C	GLY	A1639	109.700	110.970	71.214	1.00	0.79	C
ATOM	13065	O	GLY	A1639	110.263	111.976	70.776	1.00	0.79	O
ATOM	13066	N	PRO	A1640	109.686	109.850	70.515	1.00	0.69	N
ATOM	13067	CA	PRO	A1640	110.520	109.740	69.335	1.00	0.69	C
ATOM	13068	C	PRO	A1640	109.666	110.093	68.129	1.00	0.69	C
ATOM	13069	O	PRO	A1640	108.940	109.257	67.605	1.00	0.69	O
ATOM	13070	CB	PRO	A1640	110.971	108.266	69.385	1.00	0.69	C
ATOM	13071	CG	PRO	A1640	109.814	107.524	70.059	1.00	0.69	C
ATOM	13072	CD	PRO	A1640	109.323	108.545	71.080	1.00	0.69	C
ATOM	13073	N	TYR	A1641	109.797	111.347	67.659	1.00	0.62	N
ATOM	13074	CA	TYR	A1641	109.005	111.951	66.604	1.00	0.62	C
ATOM	13075	C	TYR	A1641	109.909	112.997	65.982	1.00	0.62	C
ATOM	13076	O	TYR	A1641	110.930	113.352	66.573	1.00	0.62	O
ATOM	13077	CB	TYR	A1641	107.761	112.709	67.145	1.00	0.62	C
ATOM	13078	CG	TYR	A1641	106.796	111.771	67.798	1.00	0.62	C
ATOM	13079	CD1	TYR	A1641	106.016	110.900	67.023	1.00	0.62	C
ATOM	13080	CD2	TYR	A1641	106.683	111.734	69.198	1.00	0.62	C
ATOM	13081	CE1	TYR	A1641	105.145	109.990	67.640	1.00	0.62	C
ATOM	13082	CE2	TYR	A1641	105.815	110.826	69.817	1.00	0.62	C
ATOM	13083	CZ	TYR	A1641	105.048	109.957	69.035	1.00	0.62	C
ATOM	13084	OH	TYR	A1641	104.176	109.061	69.675	1.00	0.62	O
ATOM	13085	N	THR	A1642	109.581	113.535	64.790	1.00	0.66	N
ATOM	13086	CA	THR	A1642	110.258	114.726	64.269	1.00	0.66	C
ATOM	13087	C	THR	A1642	109.634	115.986	64.866	1.00	0.66	C
ATOM	13088	O	THR	A1642	108.494	115.956	65.321	1.00	0.66	O
ATOM	13089	CB	THR	A1642	110.301	114.816	62.745	1.00	0.66	C
ATOM	13090	OG1	THR	A1642	109.060	115.188	62.164	1.00	0.66	O
ATOM	13091	CG2	THR	A1642	110.680	113.460	62.145	1.00	0.66	C
ATOM	13092	N	ASP	A1643	110.344	117.132	64.926	1.00	0.74	N
ATOM	13093	CA	ASP	A1643	109.837	118.336	65.572	1.00	0.74	C
ATOM	13094	C	ASP	A1643	108.609	118.973	64.885	1.00	0.74	C
ATOM	13095	O	ASP	A1643	107.711	119.487	65.560	1.00	0.74	O
ATOM	13096	CB	ASP	A1643	110.988	119.344	65.858	1.00	0.74	C
ATOM	13097	CG	ASP	A1643	111.869	118.918	67.037	1.00	0.74	C
ATOM	13098	OD1	ASP	A1643	111.618	117.852	67.666	1.00	0.74	O
ATOM	13099	OD2	ASP	A1643	112.806	119.688	67.366	1.00	0.74	O
ATOM	13100	N	GLU	A1644	108.479	118.913	63.538	1.00	0.71	N
ATOM	13101	CA	GLU	A1644	107.250	119.263	62.836	1.00	0.71	C
ATOM	13102	C	GLU	A1644	106.072	118.346	63.181	1.00	0.71	C
ATOM	13103	O	GLU	A1644	104.954	118.810	63.414	1.00	0.71	O
ATOM	13104	CB	GLU	A1644	107.424	119.388	61.290	1.00	0.71	C
ATOM	13105	CG	GLU	A1644	107.909	118.143	60.493	1.00	0.71	C
ATOM	13106	CD	GLU	A1644	109.418	117.927	60.542	1.00	0.71	C
ATOM	13107	OE1	GLU	A1644	109.918	117.617	61.655	1.00	0.71	O
ATOM	13108	OE2	GLU	A1644	110.073	118.016	59.481	1.00	0.71	O
ATOM	13109	N	GLN	A1645	106.302	117.018	63.284	1.00	0.73	N
ATOM	13110	CA	GLN	A1645	105.316	116.050	63.743	1.00	0.73	C
ATOM	13111	C	GLN	A1645	104.905	116.256	65.193	1.00	0.73	C
ATOM	13112	O	GLN	A1645	103.723	116.184	65.523	1.00	0.73	O
ATOM	13113	CB	GLN	A1645	105.819	114.602	63.545	1.00	0.73	C
ATOM	13114	CG	GLN	A1645	105.871	114.200	62.055	1.00	0.73	C
ATOM	13115	CD	GLN	A1645	106.498	112.818	61.863	1.00	0.73	C
ATOM	13116	OE1	GLN	A1645	107.211	112.279	62.713	1.00	0.73	O
ATOM	13117	NE2	GLN	A1645	106.223	112.231	60.673	1.00	0.73	N
ATOM	13118	N	LYS	A1646	105.863	116.573	66.093	1.00	0.76	N
ATOM	13119	CA	LYS	A1646	105.576	116.944	67.472	1.00	0.76	C

ATOM	13120	C	LYS	A1646	104.690	118.169	67.565	1.00	0.76	C
ATOM	13121	O	LYS	A1646	103.707	118.174	68.301	1.00	0.76	O
ATOM	13122	CB	LYS	A1646	106.854	117.302	68.271	1.00	0.76	C
ATOM	13123	CG	LYS	A1646	107.786	116.128	68.577	1.00	0.76	C
ATOM	13124	CD	LYS	A1646	109.053	116.617	69.291	1.00	0.76	C
ATOM	13125	CE	LYS	A1646	110.176	115.580	69.351	1.00	0.76	C
ATOM	13126	NZ	LYS	A1646	111.401	116.262	69.804	1.00	0.76	N
ATOM	13127	N	LYS	A1647	104.983	119.228	66.780	1.00	0.76	N
ATOM	13128	CA	LYS	A1647	104.150	120.414	66.743	1.00	0.76	C
ATOM	13129	C	LYS	A1647	102.736	120.128	66.262	1.00	0.76	C
ATOM	13130	O	LYS	A1647	101.774	120.597	66.863	1.00	0.76	O
ATOM	13131	CB	LYS	A1647	104.782	121.542	65.891	1.00	0.76	C
ATOM	13132	CG	LYS	A1647	103.972	122.849	65.957	1.00	0.76	C
ATOM	13133	CD	LYS	A1647	104.648	124.033	65.254	1.00	0.76	C
ATOM	13134	CE	LYS	A1647	103.727	125.256	65.202	1.00	0.76	C
ATOM	13135	NZ	LYS	A1647	104.424	126.413	64.605	1.00	0.76	N
ATOM	13136	N	ALA	A1648	102.574	119.304	65.206	1.00	0.83	N
ATOM	13137	CA	ALA	A1648	101.267	118.861	64.760	1.00	0.83	C
ATOM	13138	C	ALA	A1648	100.506	118.066	65.823	1.00	0.83	C
ATOM	13139	O	ALA	A1648	99.376	118.391	66.164	1.00	0.83	O
ATOM	13140	CB	ALA	A1648	101.432	118.012	63.482	1.00	0.83	C
ATOM	13141	N	MET	A1649	101.133	117.055	66.464	1.00	0.78	N
ATOM	13142	CA	MET	A1649	100.491	116.277	67.516	1.00	0.78	C
ATOM	13143	C	MET	A1649	100.082	117.093	68.738	1.00	0.78	C
ATOM	13144	O	MET	A1649	99.011	116.883	69.307	1.00	0.78	O
ATOM	13145	CB	MET	A1649	101.376	115.097	67.982	1.00	0.78	C
ATOM	13146	CG	MET	A1649	101.543	114.002	66.913	1.00	0.78	C
ATOM	13147	SD	MET	A1649	102.651	112.655	67.427	1.00	0.78	S
ATOM	13148	CE	MET	A1649	101.487	111.786	68.518	1.00	0.78	C
ATOM	13149	N	VAL	A1650	100.924	118.060	69.161	1.00	0.80	N
ATOM	13150	CA	VAL	A1650	100.598	119.022	70.205	1.00	0.80	C
ATOM	13151	C	VAL	A1650	99.422	119.915	69.825	1.00	0.80	C
ATOM	13152	O	VAL	A1650	98.487	120.079	70.607	1.00	0.80	O
ATOM	13153	CB	VAL	A1650	101.830	119.857	70.567	1.00	0.80	C
ATOM	13154	CG1	VAL	A1650	101.486	121.040	71.495	1.00	0.80	C
ATOM	13155	CG2	VAL	A1650	102.853	118.946	71.276	1.00	0.80	C
ATOM	13156	N	LEU	A1651	99.391	120.473	68.595	1.00	0.73	N
ATOM	13157	CA	LEU	A1651	98.269	121.277	68.135	1.00	0.73	C
ATOM	13158	C	LEU	A1651	96.961	120.509	67.980	1.00	0.73	C
ATOM	13159	O	LEU	A1651	95.919	120.990	68.417	1.00	0.73	O
ATOM	13160	CB	LEU	A1651	98.599	122.063	66.843	1.00	0.73	C
ATOM	13161	CG	LEU	A1651	99.685	123.151	67.019	1.00	0.73	C
ATOM	13162	CD1	LEU	A1651	100.008	123.796	65.664	1.00	0.73	C
ATOM	13163	CD2	LEU	A1651	99.292	124.239	68.034	1.00	0.73	C
ATOM	13164	N	GLU	A1652	96.958	119.280	67.420	1.00	0.72	N
ATOM	13165	CA	GLU	A1652	95.755	118.456	67.345	1.00	0.72	C
ATOM	13166	C	GLU	A1652	95.201	118.083	68.720	1.00	0.72	C
ATOM	13167	O	GLU	A1652	93.995	118.115	68.960	1.00	0.72	O
ATOM	13168	CB	GLU	A1652	95.938	117.168	66.496	1.00	0.72	C
ATOM	13169	CG	GLU	A1652	96.454	117.386	65.047	1.00	0.72	C
ATOM	13170	CD	GLU	A1652	95.867	118.618	64.367	1.00	0.72	C
ATOM	13171	OE1	GLU	A1652	94.652	118.598	64.051	1.00	0.72	O
ATOM	13172	OE2	GLU	A1652	96.626	119.604	64.178	1.00	0.72	O
ATOM	13173	N	ALA	A1653	96.087	117.771	69.692	1.00	0.78	N
ATOM	13174	CA	ALA	A1653	95.710	117.574	71.082	1.00	0.78	C
ATOM	13175	C	ALA	A1653	95.101	118.825	71.722	1.00	0.78	C
ATOM	13176	O	ALA	A1653	94.088	118.763	72.414	1.00	0.78	O
ATOM	13177	CB	ALA	A1653	96.943	117.119	71.891	1.00	0.78	C
ATOM	13178	N	PHE	A1654	95.684	120.012	71.463	1.00	0.71	N
ATOM	13179	CA	PHE	A1654	95.140	121.298	71.875	1.00	0.71	C
ATOM	13180	C	PHE	A1654	93.772	121.612	71.276	1.00	0.71	C
ATOM	13181	O	PHE	A1654	92.920	122.186	71.947	1.00	0.71	O
ATOM	13182	CB	PHE	A1654	96.119	122.459	71.535	1.00	0.71	C
ATOM	13183	CG	PHE	A1654	97.362	122.534	72.396	1.00	0.71	C
ATOM	13184	CD1	PHE	A1654	97.635	121.680	73.486	1.00	0.71	C

ATOM	13185	CD2	PHE	A1654	98.278	123.562	72.112	1.00	0.71	C
ATOM	13186	CE1	PHE	A1654	98.783	121.863	74.268	1.00	0.71	C
ATOM	13187	CE2	PHE	A1654	99.429	123.743	72.888	1.00	0.71	C
ATOM	13188	CZ	PHE	A1654	99.681	122.892	73.970	1.00	0.71	C
ATOM	13189	N	GLN	A1655	93.530	121.255	69.999	1.00	0.62	N
ATOM	13190	CA	GLN	A1655	92.224	121.365	69.367	1.00	0.62	C
ATOM	13191	C	GLN	A1655	91.143	120.453	69.945	1.00	0.62	C
ATOM	13192	O	GLN	A1655	90.004	120.878	70.120	1.00	0.62	O
ATOM	13193	CB	GLN	A1655	92.330	121.085	67.849	1.00	0.62	C
ATOM	13194	CG	GLN	A1655	93.081	122.188	67.070	1.00	0.62	C
ATOM	13195	CD	GLN	A1655	93.155	121.817	65.588	1.00	0.62	C
ATOM	13196	OE1	GLN	A1655	92.169	121.961	64.863	1.00	0.62	O
ATOM	13197	NE2	GLN	A1655	94.328	121.322	65.143	1.00	0.62	N
ATOM	13198	N	TYR	A1656	91.458	119.169	70.226	1.00	0.65	N
ATOM	13199	CA	TYR	A1656	90.500	118.222	70.785	1.00	0.65	C
ATOM	13200	C	TYR	A1656	90.121	118.503	72.241	1.00	0.65	C
ATOM	13201	O	TYR	A1656	88.970	118.350	72.648	1.00	0.65	O
ATOM	13202	CB	TYR	A1656	91.024	116.764	70.631	1.00	0.65	C
ATOM	13203	CG	TYR	A1656	89.900	115.752	70.646	1.00	0.65	C
ATOM	13204	CD1	TYR	A1656	89.771	114.817	71.688	1.00	0.65	C
ATOM	13205	CD2	TYR	A1656	88.980	115.709	69.583	1.00	0.65	C
ATOM	13206	CE1	TYR	A1656	88.752	113.852	71.662	1.00	0.65	C
ATOM	13207	CE2	TYR	A1656	87.953	114.753	69.560	1.00	0.65	C
ATOM	13208	CZ	TYR	A1656	87.847	113.818	70.596	1.00	0.65	C
ATOM	13209	OH	TYR	A1656	86.831	112.839	70.552	1.00	0.65	O
ATOM	13210	N	PHE	A1657	91.098	118.901	73.077	1.00	0.62	N
ATOM	13211	CA	PHE	A1657	90.883	119.106	74.497	1.00	0.62	C
ATOM	13212	C	PHE	A1657	90.339	120.484	74.875	1.00	0.62	C
ATOM	13213	O	PHE	A1657	90.232	121.419	74.086	1.00	0.62	O
ATOM	13214	CB	PHE	A1657	92.175	118.807	75.308	1.00	0.62	C
ATOM	13215	CG	PHE	A1657	92.652	117.379	75.150	1.00	0.62	C
ATOM	13216	CD1	PHE	A1657	91.785	116.269	75.098	1.00	0.62	C
ATOM	13217	CD2	PHE	A1657	94.034	117.149	75.067	1.00	0.62	C
ATOM	13218	CE1	PHE	A1657	92.293	114.972	74.937	1.00	0.62	C
ATOM	13219	CE2	PHE	A1657	94.548	115.855	74.928	1.00	0.62	C
ATOM	13220	CZ	PHE	A1657	93.674	114.765	74.858	1.00	0.62	C
ATOM	13221	N	ALA	A1658	89.951	120.623	76.156	1.00	0.63	N
ATOM	13222	CA	ALA	A1658	89.380	121.825	76.710	1.00	0.63	C
ATOM	13223	C	ALA	A1658	90.022	122.076	78.063	1.00	0.63	C
ATOM	13224	O	ALA	A1658	90.760	121.239	78.584	1.00	0.63	O
ATOM	13225	CB	ALA	A1658	87.849	121.689	76.836	1.00	0.63	C
ATOM	13226	N	LEU	A1659	89.794	123.265	78.648	1.00	0.56	N
ATOM	13227	CA	LEU	A1659	90.565	123.730	79.773	1.00	0.56	C
ATOM	13228	C	LEU	A1659	89.786	124.771	80.567	1.00	0.56	C
ATOM	13229	O	LEU	A1659	88.835	125.345	80.030	1.00	0.56	O
ATOM	13230	CB	LEU	A1659	91.882	124.379	79.284	1.00	0.56	C
ATOM	13231	CG	LEU	A1659	91.752	125.688	78.471	1.00	0.56	C
ATOM	13232	CD1	LEU	A1659	93.088	126.400	78.605	1.00	0.56	C
ATOM	13233	CD2	LEU	A1659	91.413	125.492	76.985	1.00	0.56	C
ATOM	13234	N	PRO	A1660	90.129	125.061	81.820	1.00	0.54	N
ATOM	13235	CA	PRO	A1660	89.617	126.227	82.525	1.00	0.54	C
ATOM	13236	C	PRO	A1660	90.254	127.529	82.047	1.00	0.54	C
ATOM	13237	O	PRO	A1660	91.418	127.573	81.648	1.00	0.54	O
ATOM	13238	CB	PRO	A1660	89.953	125.938	83.999	1.00	0.54	C
ATOM	13239	CG	PRO	A1660	91.205	125.059	83.936	1.00	0.54	C
ATOM	13240	CD	PRO	A1660	90.980	124.227	82.675	1.00	0.54	C
ATOM	13241	N	HIS	A1661	89.465	128.622	82.056	1.00	0.46	N
ATOM	13242	CA	HIS	A1661	89.935	129.975	81.811	1.00	0.46	C
ATOM	13243	C	HIS	A1661	90.961	130.457	82.825	1.00	0.46	C
ATOM	13244	O	HIS	A1661	90.864	130.147	84.007	1.00	0.46	O
ATOM	13245	CB	HIS	A1661	88.770	130.987	81.859	1.00	0.46	C
ATOM	13246	CG	HIS	A1661	87.716	130.713	80.842	1.00	0.46	C
ATOM	13247	ND1	HIS	A1661	87.987	130.961	79.513	1.00	0.46	N
ATOM	13248	CD2	HIS	A1661	86.443	130.262	80.992	1.00	0.46	C
ATOM	13249	CE1	HIS	A1661	86.874	130.661	78.878	1.00	0.46	C

ATOM	13250	NE2	HIS	A1661	85.906	130.232	79.724	1.00	0.46	N
ATOM	13251	N	ALA	A1662	91.933	131.283	82.383	1.00	0.49	N
ATOM	13252	CA	ALA	A1662	93.066	131.791	83.145	1.00	0.49	C
ATOM	13253	C	ALA	A1662	92.797	132.690	84.368	1.00	0.49	C
ATOM	13254	O	ALA	A1662	93.669	133.428	84.822	1.00	0.49	O
ATOM	13255	CB	ALA	A1662	93.991	132.538	82.162	1.00	0.49	C
ATOM	13256	N	ALA	A1663	91.598	132.622	84.968	1.00	0.48	N
ATOM	13257	CA	ALA	A1663	91.246	133.273	86.212	1.00	0.48	C
ATOM	13258	C	ALA	A1663	91.437	132.269	87.348	1.00	0.48	C
ATOM	13259	O	ALA	A1663	90.520	131.958	88.106	1.00	0.48	O
ATOM	13260	CB	ALA	A1663	89.787	133.775	86.142	1.00	0.48	C
ATOM	13261	N	GLU	A1664	92.664	131.724	87.453	1.00	0.43	N
ATOM	13262	CA	GLU	A1664	92.996	130.569	88.262	1.00	0.43	C
ATOM	13263	C	GLU	A1664	94.365	130.754	88.907	1.00	0.43	C
ATOM	13264	O	GLU	A1664	95.026	131.778	88.744	1.00	0.43	O
ATOM	13265	CB	GLU	A1664	92.978	129.254	87.429	1.00	0.43	C
ATOM	13266	CG	GLU	A1664	94.091	129.138	86.349	1.00	0.43	C
ATOM	13267	CD	GLU	A1664	94.225	127.744	85.726	1.00	0.43	C
ATOM	13268	OE1	GLU	A1664	93.410	126.844	86.044	1.00	0.43	O
ATOM	13269	OE2	GLU	A1664	95.200	127.567	84.945	1.00	0.43	O
ATOM	13270	N	VAL	A1665	94.818	129.776	89.720	1.00	0.44	N
ATOM	13271	CA	VAL	A1665	96.099	129.819	90.412	1.00	0.44	C
ATOM	13272	C	VAL	A1665	97.341	129.746	89.508	1.00	0.44	C
ATOM	13273	O	VAL	A1665	97.722	128.727	88.929	1.00	0.44	O
ATOM	13274	CB	VAL	A1665	96.151	128.818	91.565	1.00	0.44	C
ATOM	13275	CG1	VAL	A1665	95.916	127.371	91.082	1.00	0.44	C
ATOM	13276	CG2	VAL	A1665	97.471	128.960	92.351	1.00	0.44	C
ATOM	13277	N	VAL	A1666	98.055	130.879	89.381	1.00	0.53	N
ATOM	13278	CA	VAL	A1666	99.126	131.059	88.417	1.00	0.53	C
ATOM	13279	C	VAL	A1666	100.498	130.504	88.819	1.00	0.53	C
ATOM	13280	O	VAL	A1666	101.500	131.208	88.904	1.00	0.53	O
ATOM	13281	CB	VAL	A1666	99.199	132.508	87.930	1.00	0.53	C
ATOM	13282	CG1	VAL	A1666	97.903	132.827	87.156	1.00	0.53	C
ATOM	13283	CG2	VAL	A1666	99.397	133.513	89.084	1.00	0.53	C
ATOM	13284	N	LYS	A1667	100.609	129.173	89.021	1.00	0.55	N
ATOM	13285	CA	LYS	A1667	101.883	128.523	89.318	1.00	0.55	C
ATOM	13286	C	LYS	A1667	102.548	128.024	88.041	1.00	0.55	C
ATOM	13287	O	LYS	A1667	103.442	128.683	87.511	1.00	0.55	O
ATOM	13288	CB	LYS	A1667	101.749	127.418	90.398	1.00	0.55	C
ATOM	13289	CG	LYS	A1667	101.411	128.025	91.772	1.00	0.55	C
ATOM	13290	CD	LYS	A1667	101.323	126.995	92.916	1.00	0.55	C
ATOM	13291	CE	LYS	A1667	100.918	127.649	94.250	1.00	0.55	C
ATOM	13292	NZ	LYS	A1667	100.804	126.661	95.353	1.00	0.55	N
ATOM	13293	N	ARG	A1668	102.136	126.855	87.503	1.00	0.57	N
ATOM	13294	CA	ARG	A1668	102.626	126.368	86.215	1.00	0.57	C
ATOM	13295	C	ARG	A1668	101.496	126.184	85.207	1.00	0.57	C
ATOM	13296	O	ARG	A1668	101.733	126.164	84.002	1.00	0.57	O
ATOM	13297	CB	ARG	A1668	103.380	125.016	86.354	1.00	0.57	C
ATOM	13298	CG	ARG	A1668	104.742	125.130	87.073	1.00	0.57	C
ATOM	13299	CD	ARG	A1668	105.582	123.837	87.062	1.00	0.57	C
ATOM	13300	NE	ARG	A1668	104.916	122.838	87.979	1.00	0.57	N
ATOM	13301	CZ	ARG	A1668	104.865	121.507	87.801	1.00	0.57	C
ATOM	13302	NH1	ARG	A1668	105.332	120.895	86.717	1.00	0.57	N
ATOM	13303	NH2	ARG	A1668	104.311	120.740	88.742	1.00	0.57	N
ATOM	13304	N	SER	A1669	100.223	126.102	85.657	1.00	0.63	N
ATOM	13305	CA	SER	A1669	99.072	125.933	84.771	1.00	0.63	C
ATOM	13306	C	SER	A1669	98.774	127.171	83.964	1.00	0.63	C
ATOM	13307	O	SER	A1669	98.221	127.084	82.874	1.00	0.63	O
ATOM	13308	CB	SER	A1669	97.774	125.557	85.520	1.00	0.63	C
ATOM	13309	OG	SER	A1669	97.982	124.387	86.317	1.00	0.63	O
ATOM	13310	N	ARG	A1670	99.249	128.348	84.434	1.00	0.46	N
ATOM	13311	CA	ARG	A1670	99.177	129.607	83.715	1.00	0.46	C
ATOM	13312	C	ARG	A1670	99.751	129.534	82.308	1.00	0.46	C
ATOM	13313	O	ARG	A1670	99.108	129.932	81.347	1.00	0.46	O
ATOM	13314	CB	ARG	A1670	99.907	130.747	84.474	1.00	0.46	C



ATOM	13315	CG	ARG	A1670	101.281	130.390	85.081	1.00	0.46	C
ATOM	13316	CD	ARG	A1670	102.188	131.610	85.284	1.00	0.46	C
ATOM	13317	NE	ARG	A1670	103.300	131.141	86.165	1.00	0.46	N
ATOM	13318	CZ	ARG	A1670	103.995	131.949	86.972	1.00	0.46	C
ATOM	13319	NH1	ARG	A1670	104.038	133.261	86.782	1.00	0.46	N
ATOM	13320	NH2	ARG	A1670	104.655	131.403	87.988	1.00	0.46	N
ATOM	13321	N	SER	A1671	100.949	128.951	82.132	1.00	0.62	N
ATOM	13322	CA	SER	A1671	101.590	128.791	80.839	1.00	0.62	C
ATOM	13323	C	SER	A1671	100.790	127.924	79.892	1.00	0.62	C
ATOM	13324	O	SER	A1671	100.676	128.209	78.702	1.00	0.62	O
ATOM	13325	CB	SER	A1671	102.994	128.163	80.991	1.00	0.62	C
ATOM	13326	OG	SER	A1671	103.815	129.005	81.800	1.00	0.62	O
ATOM	13327	N	LEU	A1672	100.195	126.846	80.436	1.00	0.61	N
ATOM	13328	CA	LEU	A1672	99.317	125.942	79.726	1.00	0.61	C
ATOM	13329	C	LEU	A1672	97.993	126.575	79.302	1.00	0.61	C
ATOM	13330	O	LEU	A1672	97.612	126.527	78.135	1.00	0.61	O
ATOM	13331	CB	LEU	A1672	99.061	124.717	80.638	1.00	0.61	C
ATOM	13332	CG	LEU	A1672	98.299	123.546	79.995	1.00	0.61	C
ATOM	13333	CD1	LEU	A1672	99.103	122.935	78.840	1.00	0.61	C
ATOM	13334	CD2	LEU	A1672	97.980	122.490	81.067	1.00	0.61	C
ATOM	13335	N	THR	A1673	97.273	127.262	80.221	1.00	0.55	N
ATOM	13336	CA	THR	A1673	96.031	127.967	79.882	1.00	0.55	C
ATOM	13337	C	THR	A1673	96.287	129.107	78.915	1.00	0.55	C
ATOM	13338	O	THR	A1673	95.559	129.309	77.942	1.00	0.55	O
ATOM	13339	CB	THR	A1673	95.153	128.371	81.079	1.00	0.55	C
ATOM	13340	OG1	THR	A1673	93.898	128.917	80.684	1.00	0.55	O
ATOM	13341	CG2	THR	A1673	95.837	129.405	81.971	1.00	0.55	C
ATOM	13342	N	LEU	A1674	97.413	129.838	79.085	1.00	0.54	N
ATOM	13343	CA	LEU	A1674	97.834	130.826	78.120	1.00	0.54	C
ATOM	13344	C	LEU	A1674	98.096	130.265	76.728	1.00	0.54	C
ATOM	13345	O	LEU	A1674	97.580	130.836	75.771	1.00	0.54	O
ATOM	13346	CB	LEU	A1674	99.087	131.625	78.579	1.00	0.54	C
ATOM	13347	CG	LEU	A1674	98.762	132.960	79.281	1.00	0.54	C
ATOM	13348	CD1	LEU	A1674	98.100	132.809	80.657	1.00	0.54	C
ATOM	13349	CD2	LEU	A1674	100.026	133.818	79.418	1.00	0.54	C
ATOM	13350	N	CYS	A1675	98.865	129.166	76.549	1.00	0.59	N
ATOM	13351	CA	CYS	A1675	99.153	128.624	75.220	1.00	0.59	C
ATOM	13352	C	CYS	A1675	97.946	128.039	74.491	1.00	0.59	C
ATOM	13353	O	CYS	A1675	97.760	128.267	73.296	1.00	0.59	O
ATOM	13354	CB	CYS	A1675	100.384	127.668	75.173	1.00	0.59	C
ATOM	13355	SG	CYS	A1675	100.200	126.058	76.014	1.00	0.59	S
ATOM	13356	N	LEU	A1676	97.053	127.322	75.203	1.00	0.54	N
ATOM	13357	CA	LEU	A1676	95.799	126.805	74.666	1.00	0.54	C
ATOM	13358	C	LEU	A1676	94.883	127.923	74.177	1.00	0.54	C
ATOM	13359	O	LEU	A1676	94.362	127.902	73.058	1.00	0.54	O
ATOM	13360	CB	LEU	A1676	95.063	126.008	75.768	1.00	0.54	C
ATOM	13361	CG	LEU	A1676	95.365	124.494	75.837	1.00	0.54	C
ATOM	13362	CD1	LEU	A1676	94.672	123.731	74.701	1.00	0.54	C
ATOM	13363	CD2	LEU	A1676	96.861	124.157	75.890	1.00	0.54	C
ATOM	13364	N	MET	A1677	94.749	128.999	74.978	1.00	0.56	N
ATOM	13365	CA	MET	A1677	93.995	130.179	74.605	1.00	0.56	C
ATOM	13366	C	MET	A1677	94.781	131.137	73.706	1.00	0.56	C
ATOM	13367	O	MET	A1677	94.546	132.343	73.703	1.00	0.56	O
ATOM	13368	CB	MET	A1677	93.454	130.928	75.851	1.00	0.56	C
ATOM	13369	CG	MET	A1677	92.481	130.090	76.711	1.00	0.56	C
ATOM	13370	SD	MET	A1677	90.979	129.510	75.855	1.00	0.56	S
ATOM	13371	CE	MET	A1677	90.131	131.112	75.760	1.00	0.56	C
ATOM	13372	N	LYS	A1678	95.713	130.625	72.872	1.00	0.50	N
ATOM	13373	CA	LYS	A1678	96.195	131.340	71.701	1.00	0.50	C
ATOM	13374	C	LYS	A1678	95.571	130.803	70.427	1.00	0.50	C
ATOM	13375	O	LYS	A1678	95.784	131.357	69.359	1.00	0.50	O
ATOM	13376	CB	LYS	A1678	97.737	131.276	71.553	1.00	0.50	C
ATOM	13377	CG	LYS	A1678	98.498	131.858	72.754	1.00	0.50	C
ATOM	13378	CD	LYS	A1678	98.232	133.353	73.013	1.00	0.50	C
ATOM	13379	CE	LYS	A1678	98.713	133.855	74.379	1.00	0.50	C

ATOM	13380	NZ	LYS	A1678	97.769	133.487	75.447	1.00	0.50	N
ATOM	13381	N	ASN	A1679	94.728	129.752	70.506	1.00	0.50	N
ATOM	13382	CA	ASN	A1679	94.107	129.180	69.315	1.00	0.50	C
ATOM	13383	C	ASN	A1679	92.627	129.546	69.253	1.00	0.50	C
ATOM	13384	O	ASN	A1679	92.046	129.788	68.199	1.00	0.50	O
ATOM	13385	CB	ASN	A1679	94.230	127.632	69.329	1.00	0.50	C
ATOM	13386	CG	ASN	A1679	95.686	127.198	69.490	1.00	0.50	C
ATOM	13387	OD1	ASN	A1679	96.431	127.038	68.527	1.00	0.50	O
ATOM	13388	ND2	ASN	A1679	96.123	126.979	70.754	1.00	0.50	N
ATOM	13389	N	PHE	A1680	91.962	129.659	70.422	1.00	0.43	N
ATOM	13390	CA	PHE	A1680	90.549	130.002	70.480	1.00	0.43	C
ATOM	13391	C	PHE	A1680	90.279	131.487	70.264	1.00	0.43	C
ATOM	13392	O	PHE	A1680	89.146	131.882	69.995	1.00	0.43	O
ATOM	13393	CB	PHE	A1680	89.924	129.584	71.839	1.00	0.43	C
ATOM	13394	CG	PHE	A1680	89.843	128.087	71.943	1.00	0.43	C
ATOM	13395	CD1	PHE	A1680	88.893	127.379	71.185	1.00	0.43	C
ATOM	13396	CD2	PHE	A1680	90.702	127.372	72.794	1.00	0.43	C
ATOM	13397	CE1	PHE	A1680	88.801	125.984	71.278	1.00	0.43	C
ATOM	13398	CE2	PHE	A1680	90.612	125.977	72.890	1.00	0.43	C
ATOM	13399	CZ	PHE	A1680	89.662	125.283	72.133	1.00	0.43	C
ATOM	13400	N	ILE	A1681	91.320	132.341	70.369	1.00	0.42	N
ATOM	13401	CA	ILE	A1681	91.243	133.781	70.155	1.00	0.42	C
ATOM	13402	C	ILE	A1681	90.845	134.161	68.738	1.00	0.42	C
ATOM	13403	O	ILE	A1681	89.953	134.982	68.545	1.00	0.42	O
ATOM	13404	CB	ILE	A1681	92.540	134.497	70.559	1.00	0.42	C
ATOM	13405	CG1	ILE	A1681	93.815	133.939	69.886	1.00	0.42	C
ATOM	13406	CG2	ILE	A1681	92.636	134.418	72.094	1.00	0.42	C
ATOM	13407	CD1	ILE	A1681	95.094	134.723	70.213	1.00	0.42	C
ATOM	13408	N	GLU	A1682	91.451	133.527	67.713	1.00	0.37	N
ATOM	13409	CA	GLU	A1682	91.198	133.802	66.312	1.00	0.37	C
ATOM	13410	C	GLU	A1682	89.799	133.423	65.873	1.00	0.37	C
ATOM	13411	O	GLU	A1682	89.077	134.190	65.245	1.00	0.37	O
ATOM	13412	CB	GLU	A1682	92.156	132.949	65.453	1.00	0.37	C
ATOM	13413	CG	GLU	A1682	93.662	133.219	65.660	1.00	0.37	C
ATOM	13414	CD	GLU	A1682	94.495	132.288	64.777	1.00	0.37	C
ATOM	13415	OE1	GLU	A1682	93.902	131.351	64.178	1.00	0.37	O
ATOM	13416	OE2	GLU	A1682	95.725	132.520	64.701	1.00	0.37	O
ATOM	13417	N	GLN	A1683	89.391	132.193	66.234	1.00	0.40	N
ATOM	13418	CA	GLN	A1683	88.134	131.602	65.832	1.00	0.40	C
ATOM	13419	C	GLN	A1683	86.918	132.224	66.501	1.00	0.40	C
ATOM	13420	O	GLN	A1683	85.864	132.364	65.891	1.00	0.40	O
ATOM	13421	CB	GLN	A1683	88.169	130.071	66.070	1.00	0.40	C
ATOM	13422	CG	GLN	A1683	89.362	129.348	65.387	1.00	0.40	C
ATOM	13423	CD	GLN	A1683	89.356	129.540	63.867	1.00	0.40	C
ATOM	13424	OE1	GLN	A1683	88.375	129.217	63.196	1.00	0.40	O
ATOM	13425	NE2	GLN	A1683	90.464	130.062	63.293	1.00	0.40	N
ATOM	13426	N	ARG	A1684	87.020	132.605	67.793	1.00	0.33	N
ATOM	13427	CA	ARG	A1684	85.882	133.176	68.494	1.00	0.33	C
ATOM	13428	C	ARG	A1684	85.885	134.698	68.512	1.00	0.33	C
ATOM	13429	O	ARG	A1684	84.838	135.317	68.672	1.00	0.33	O
ATOM	13430	CB	ARG	A1684	85.879	132.719	69.978	1.00	0.33	C
ATOM	13431	CG	ARG	A1684	85.742	131.196	70.183	1.00	0.33	C
ATOM	13432	CD	ARG	A1684	85.792	130.818	71.667	1.00	0.33	C
ATOM	13433	NE	ARG	A1684	85.669	129.326	71.764	1.00	0.33	N
ATOM	13434	CZ	ARG	A1684	85.891	128.626	72.886	1.00	0.33	C
ATOM	13435	NH1	ARG	A1684	86.225	129.225	74.025	1.00	0.33	N
ATOM	13436	NH2	ARG	A1684	85.778	127.300	72.873	1.00	0.33	N
ATOM	13437	N	GLY	A1685	87.064	135.351	68.404	1.00	0.42	N
ATOM	13438	CA	GLY	A1685	87.193	136.810	68.426	1.00	0.42	C
ATOM	13439	C	GLY	A1685	87.053	137.437	69.793	1.00	0.42	C
ATOM	13440	O	GLY	A1685	87.120	138.650	69.947	1.00	0.42	O
ATOM	13441	N	GLY	A1686	86.844	136.611	70.835	1.00	0.34	N
ATOM	13442	CA	GLY	A1686	86.407	137.077	72.149	1.00	0.34	C
ATOM	13443	C	GLY	A1686	87.479	137.341	73.162	1.00	0.34	C
ATOM	13444	O	GLY	A1686	87.170	137.715	74.286	1.00	0.34	O

ATOM	13445	N	SER	A1687	88.762	137.151	72.817	1.00	0.43	N
ATOM	13446	CA	SER	A1687	89.840	137.292	73.783	1.00	0.43	C
ATOM	13447	C	SER	A1687	91.068	137.797	73.057	1.00	0.43	C
ATOM	13448	O	SER	A1687	91.296	137.456	71.901	1.00	0.43	O
ATOM	13449	CB	SER	A1687	90.213	135.947	74.470	1.00	0.43	C
ATOM	13450	OG	SER	A1687	89.308	135.609	75.516	1.00	0.43	O
ATOM	13451	N	ILE	A1688	91.897	138.639	73.715	1.00	0.44	N
ATOM	13452	CA	ILE	A1688	93.012	139.346	73.081	1.00	0.44	C
ATOM	13453	C	ILE	A1688	94.308	139.034	73.811	1.00	0.44	C
ATOM	13454	O	ILE	A1688	94.394	139.188	75.026	1.00	0.44	O
ATOM	13455	CB	ILE	A1688	92.797	140.864	73.105	1.00	0.44	C
ATOM	13456	CG1	ILE	A1688	91.576	141.242	72.234	1.00	0.44	C
ATOM	13457	CG2	ILE	A1688	94.064	141.626	72.638	1.00	0.44	C
ATOM	13458	CD1	ILE	A1688	91.135	142.703	72.391	1.00	0.44	C
ATOM	13459	N	LEU	A1689	95.362	138.585	73.092	1.00	0.54	N
ATOM	13460	CA	LEU	A1689	96.618	138.164	73.696	1.00	0.54	C
ATOM	13461	C	LEU	A1689	97.514	139.192	74.403	1.00	0.54	C
ATOM	13462	O	LEU	A1689	98.034	138.833	75.455	1.00	0.54	O
ATOM	13463	CB	LEU	A1689	97.414	137.163	72.823	1.00	0.54	C
ATOM	13464	CG	LEU	A1689	98.204	137.683	71.610	1.00	0.54	C
ATOM	13465	CD1	LEU	A1689	99.006	136.519	71.007	1.00	0.54	C
ATOM	13466	CD2	LEU	A1689	97.325	138.311	70.523	1.00	0.54	C
ATOM	13467	N	ASP	A1690	97.682	140.472	73.928	1.00	0.57	N
ATOM	13468	CA	ASP	A1690	98.536	141.510	74.559	1.00	0.57	C
ATOM	13469	C	ASP	A1690	98.415	141.525	76.072	1.00	0.57	C
ATOM	13470	O	ASP	A1690	99.371	141.329	76.813	1.00	0.57	O
ATOM	13471	CB	ASP	A1690	98.181	142.969	74.036	1.00	0.57	C
ATOM	13472	CG	ASP	A1690	98.608	144.164	74.926	1.00	0.57	C
ATOM	13473	OD1	ASP	A1690	99.749	144.666	74.834	1.00	0.57	O
ATOM	13474	OD2	ASP	A1690	97.774	144.584	75.782	1.00	0.57	O
ATOM	13475	N	GLN	A1691	97.186	141.750	76.559	1.00	0.58	N
ATOM	13476	CA	GLN	A1691	96.946	142.018	77.950	1.00	0.58	C
ATOM	13477	C	GLN	A1691	97.005	140.784	78.824	1.00	0.58	C
ATOM	13478	O	GLN	A1691	97.328	140.898	79.998	1.00	0.58	O
ATOM	13479	CB	GLN	A1691	95.682	142.903	78.124	1.00	0.58	C
ATOM	13480	CG	GLN	A1691	94.407	142.491	77.351	1.00	0.58	C
ATOM	13481	CD	GLN	A1691	93.655	141.349	78.026	1.00	0.58	C
ATOM	13482	OE1	GLN	A1691	93.682	141.172	79.241	1.00	0.58	O
ATOM	13483	NE2	GLN	A1691	92.920	140.562	77.211	1.00	0.58	N
ATOM	13484	N	ILE	A1692	96.814	139.596	78.222	1.00	0.51	N
ATOM	13485	CA	ILE	A1692	97.064	138.282	78.798	1.00	0.51	C
ATOM	13486	C	ILE	A1692	98.552	138.006	79.049	1.00	0.51	C
ATOM	13487	O	ILE	A1692	98.929	137.359	80.022	1.00	0.51	O
ATOM	13488	CB	ILE	A1692	96.405	137.219	77.904	1.00	0.51	C
ATOM	13489	CG1	ILE	A1692	94.873	137.254	78.128	1.00	0.51	C
ATOM	13490	CG2	ILE	A1692	96.979	135.809	78.148	1.00	0.51	C
ATOM	13491	CD1	ILE	A1692	94.064	136.398	77.143	1.00	0.51	C
ATOM	13492	N	GLU	A1693	99.444	138.452	78.143	1.00	0.57	N
ATOM	13493	CA	GLU	A1693	100.883	138.273	78.272	1.00	0.57	C
ATOM	13494	C	GLU	A1693	101.583	139.390	79.041	1.00	0.57	C
ATOM	13495	O	GLU	A1693	102.507	139.158	79.817	1.00	0.57	O
ATOM	13496	CB	GLU	A1693	101.476	138.154	76.852	1.00	0.57	C
ATOM	13497	CG	GLU	A1693	101.113	136.791	76.210	1.00	0.57	C
ATOM	13498	CD	GLU	A1693	101.183	136.762	74.686	1.00	0.57	C
ATOM	13499	OE1	GLU	A1693	101.333	137.823	74.038	1.00	0.57	O
ATOM	13500	OE2	GLU	A1693	101.027	135.629	74.159	1.00	0.57	O
ATOM	13501	N	LYS	A1694	101.162	140.647	78.824	1.00	0.55	N
ATOM	13502	CA	LYS	A1694	101.616	141.841	79.519	1.00	0.55	C
ATOM	13503	C	LYS	A1694	101.246	141.877	80.999	1.00	0.55	C
ATOM	13504	O	LYS	A1694	102.038	142.298	81.842	1.00	0.55	O
ATOM	13505	CB	LYS	A1694	100.976	143.047	78.790	1.00	0.55	C
ATOM	13506	CG	LYS	A1694	101.162	144.453	79.390	1.00	0.55	C
ATOM	13507	CD	LYS	A1694	100.185	145.452	78.736	1.00	0.55	C
ATOM	13508	CE	LYS	A1694	98.730	145.241	79.188	1.00	0.55	C
ATOM	13509	NZ	LYS	A1694	97.772	145.657	78.144	1.00	0.55	N

ATOM	13510	N	ALA	A1695	100.015	141.456	81.357	1.00	0.57	N
ATOM	13511	CA	ALA	A1695	99.606	141.300	82.736	1.00	0.57	C
ATOM	13512	C	ALA	A1695	99.829	139.848	83.158	1.00	0.57	C
ATOM	13513	O	ALA	A1695	100.485	139.073	82.471	1.00	0.57	O
ATOM	13514	CB	ALA	A1695	98.150	141.769	82.950	1.00	0.57	C
ATOM	13515	N	GLN	A1696	99.376	139.468	84.374	1.00	0.43	N
ATOM	13516	CA	GLN	A1696	99.384	138.093	84.876	1.00	0.43	C
ATOM	13517	C	GLN	A1696	100.760	137.410	84.987	1.00	0.43	C
ATOM	13518	O	GLN	A1696	100.868	136.202	85.195	1.00	0.43	O
ATOM	13519	CB	GLN	A1696	98.346	137.183	84.156	1.00	0.43	C
ATOM	13520	CG	GLN	A1696	96.860	137.609	84.337	1.00	0.43	C
ATOM	13521	CD	GLN	A1696	96.368	138.592	83.270	1.00	0.43	C
ATOM	13522	OE1	GLN	A1696	96.850	138.629	82.145	1.00	0.43	O
ATOM	13523	NE2	GLN	A1696	95.339	139.406	83.603	1.00	0.43	N
ATOM	13524	N	SER	A1697	101.843	138.215	84.939	1.00	0.52	N
ATOM	13525	CA	SER	A1697	103.233	137.832	85.141	1.00	0.52	C
ATOM	13526	C	SER	A1697	103.894	137.119	83.969	1.00	0.52	C
ATOM	13527	O	SER	A1697	104.646	136.163	84.169	1.00	0.52	O
ATOM	13528	CB	SER	A1697	103.497	137.078	86.479	1.00	0.52	C
ATOM	13529	OG	SER	A1697	104.894	137.025	86.812	1.00	0.52	O
ATOM	13530	N	GLY	A1698	103.665	137.582	82.718	1.00	0.59	N
ATOM	13531	CA	GLY	A1698	104.486	137.195	81.569	1.00	0.59	C
ATOM	13532	C	GLY	A1698	105.814	137.925	81.459	1.00	0.59	C
ATOM	13533	O	GLY	A1698	106.217	138.686	82.338	1.00	0.59	O
ATOM	13534	N	THR	A1699	106.535	137.680	80.342	1.00	0.65	N
ATOM	13535	CA	THR	A1699	107.879	138.214	80.101	1.00	0.65	C
ATOM	13536	C	THR	A1699	108.006	138.679	78.664	1.00	0.65	C
ATOM	13537	O	THR	A1699	108.007	137.861	77.749	1.00	0.65	O
ATOM	13538	CB	THR	A1699	108.949	137.143	80.328	1.00	0.65	C
ATOM	13539	OG1	THR	A1699	108.993	136.805	81.705	1.00	0.65	O
ATOM	13540	CG2	THR	A1699	110.362	137.626	79.966	1.00	0.65	C
ATOM	13541	N	VAL	A1700	108.148	139.996	78.392	1.00	0.73	N
ATOM	13542	CA	VAL	A1700	108.202	140.487	77.013	1.00	0.73	C
ATOM	13543	C	VAL	A1700	108.852	141.867	76.962	1.00	0.73	C
ATOM	13544	O	VAL	A1700	108.908	142.574	77.963	1.00	0.73	O
ATOM	13545	CB	VAL	A1700	106.803	140.496	76.370	1.00	0.73	C
ATOM	13546	CG1	VAL	A1700	105.875	141.530	77.044	1.00	0.73	C
ATOM	13547	CG2	VAL	A1700	106.849	140.654	74.833	1.00	0.73	C
ATOM	13548	N	GLY	A1701	109.393	142.300	75.804	1.00	0.78	N
ATOM	13549	CA	GLY	A1701	109.974	143.632	75.680	1.00	0.78	C
ATOM	13550	C	GLY	A1701	110.407	143.937	74.281	1.00	0.78	C
ATOM	13551	O	GLY	A1701	111.055	143.127	73.625	1.00	0.78	O
ATOM	13552	N	GLY	A1702	110.033	145.114	73.758	1.00	0.72	N
ATOM	13553	CA	GLY	A1702	110.430	145.524	72.415	1.00	0.72	C
ATOM	13554	C	GLY	A1702	111.827	146.098	72.296	1.00	0.72	C
ATOM	13555	O	GLY	A1702	112.542	146.343	73.262	1.00	0.72	O
ATOM	13556	N	PHE	A1703	112.266	146.387	71.055	1.00	0.70	N
ATOM	13557	CA	PHE	A1703	113.594	146.926	70.828	1.00	0.70	C
ATOM	13558	C	PHE	A1703	113.491	148.431	70.650	1.00	0.70	C
ATOM	13559	O	PHE	A1703	113.195	148.942	69.573	1.00	0.70	O
ATOM	13560	CB	PHE	A1703	114.297	146.249	69.610	1.00	0.70	C
ATOM	13561	CG	PHE	A1703	115.812	146.157	69.698	1.00	0.70	C
ATOM	13562	CD1	PHE	A1703	116.599	146.862	70.629	1.00	0.70	C
ATOM	13563	CD2	PHE	A1703	116.461	145.266	68.826	1.00	0.70	C
ATOM	13564	CE1	PHE	A1703	117.983	146.656	70.709	1.00	0.70	C
ATOM	13565	CE2	PHE	A1703	117.847	145.064	68.893	1.00	0.70	C
ATOM	13566	CZ	PHE	A1703	118.609	145.759	69.839	1.00	0.70	C
ATOM	13567	N	SER	A1704	113.742	149.196	71.730	1.00	0.79	N
ATOM	13568	CA	SER	A1704	113.645	150.652	71.713	1.00	0.79	C
ATOM	13569	C	SER	A1704	114.573	151.348	70.730	1.00	0.79	C
ATOM	13570	O	SER	A1704	114.189	152.334	70.097	1.00	0.79	O
ATOM	13571	CB	SER	A1704	113.909	151.280	73.105	1.00	0.79	C
ATOM	13572	OG	SER	A1704	112.736	151.253	73.914	1.00	0.79	O
ATOM	13573	N	LYS	A1705	115.835	150.900	70.602	1.00	0.79	N
ATOM	13574	CA	LYS	A1705	116.736	151.355	69.555	1.00	0.79	C

ATOM	13575	C	LYS	A1705	117.441	150.152	68.936	1.00	0.79	C
ATOM	13576	O	LYS	A1705	118.307	149.585	69.608	1.00	0.79	O
ATOM	13577	CB	LYS	A1705	117.827	152.325	70.096	1.00	0.79	C
ATOM	13578	CG	LYS	A1705	117.287	153.607	70.758	1.00	0.79	C
ATOM	13579	CD	LYS	A1705	116.668	154.591	69.748	1.00	0.79	C
ATOM	13580	CE	LYS	A1705	115.686	155.608	70.341	1.00	0.79	C
ATOM	13581	NZ	LYS	A1705	114.494	154.906	70.864	1.00	0.79	N
ATOM	13582	N	PRO	A1706	117.165	149.721	67.702	1.00	0.77	N
ATOM	13583	CA	PRO	A1706	117.922	148.654	67.064	1.00	0.77	C
ATOM	13584	C	PRO	A1706	119.275	149.149	66.597	1.00	0.77	C
ATOM	13585	O	PRO	A1706	119.391	150.266	66.095	1.00	0.77	O
ATOM	13586	CB	PRO	A1706	117.049	148.235	65.872	1.00	0.77	C
ATOM	13587	CG	PRO	A1706	116.264	149.502	65.521	1.00	0.77	C
ATOM	13588	CD	PRO	A1706	116.010	150.128	66.893	1.00	0.77	C
ATOM	13589	N	GLN	A1707	120.318	148.314	66.765	1.00	0.70	N
ATOM	13590	CA	GLN	A1707	121.701	148.647	66.487	1.00	0.70	C
ATOM	13591	C	GLN	A1707	121.958	149.097	65.041	1.00	0.70	C
ATOM	13592	O	GLN	A1707	122.058	150.291	64.755	1.00	0.70	O
ATOM	13593	CB	GLN	A1707	122.572	147.419	66.859	1.00	0.70	C
ATOM	13594	CG	GLN	A1707	122.353	146.888	68.297	1.00	0.70	C
ATOM	13595	CD	GLN	A1707	123.233	145.665	68.570	1.00	0.70	C
ATOM	13596	OE1	GLN	A1707	122.744	144.529	68.613	1.00	0.70	O
ATOM	13597	NE2	GLN	A1707	124.548	145.907	68.738	1.00	0.70	N
ATOM	13598	N	LYS	A1708	121.957	148.159	64.069	1.00	0.70	N
ATOM	13599	CA	LYS	A1708	122.161	148.438	62.659	1.00	0.70	C
ATOM	13600	C	LYS	A1708	122.207	147.102	61.937	1.00	0.70	C
ATOM	13601	O	LYS	A1708	122.873	146.211	62.462	1.00	0.70	O
ATOM	13602	CB	LYS	A1708	123.515	149.156	62.353	1.00	0.70	C
ATOM	13603	CG	LYS	A1708	123.534	150.024	61.081	1.00	0.70	C
ATOM	13604	CD	LYS	A1708	122.516	151.186	61.080	1.00	0.70	C
ATOM	13605	CE	LYS	A1708	122.703	152.213	62.215	1.00	0.70	C
ATOM	13606	NZ	LYS	A1708	121.495	152.309	63.071	1.00	0.70	N
ATOM	13607	N	PRO	A1709	121.554	146.862	60.802	1.00	0.67	N
ATOM	13608	CA	PRO	A1709	121.838	145.691	59.988	1.00	0.67	C
ATOM	13609	C	PRO	A1709	123.147	145.863	59.224	1.00	0.67	C
ATOM	13610	O	PRO	A1709	123.464	146.954	58.752	1.00	0.67	O
ATOM	13611	CB	PRO	A1709	120.624	145.632	59.046	1.00	0.67	C
ATOM	13612	CG	PRO	A1709	120.251	147.101	58.814	1.00	0.67	C
ATOM	13613	CD	PRO	A1709	120.613	147.775	60.143	1.00	0.67	C
ATOM	13614	N	TYR	A1710	123.934	144.786	59.103	1.00	0.60	N
ATOM	13615	CA	TYR	A1710	125.168	144.771	58.355	1.00	0.60	C
ATOM	13616	C	TYR	A1710	125.272	143.396	57.717	1.00	0.60	C
ATOM	13617	O	TYR	A1710	124.834	142.398	58.282	1.00	0.60	O
ATOM	13618	CB	TYR	A1710	126.363	145.058	59.306	1.00	0.60	C
ATOM	13619	CG	TYR	A1710	127.683	145.089	58.586	1.00	0.60	C
ATOM	13620	CD1	TYR	A1710	128.567	144.002	58.682	1.00	0.60	C
ATOM	13621	CD2	TYR	A1710	128.033	146.189	57.786	1.00	0.60	C
ATOM	13622	CE1	TYR	A1710	129.784	144.013	57.987	1.00	0.60	C
ATOM	13623	CE2	TYR	A1710	129.254	146.203	57.093	1.00	0.60	C
ATOM	13624	CZ	TYR	A1710	130.127	145.112	57.195	1.00	0.60	C
ATOM	13625	OH	TYR	A1710	131.356	145.108	56.509	1.00	0.60	O
ATOM	13626	N	ARG	A1711	125.836	143.299	56.500	1.00	0.55	N
ATOM	13627	CA	ARG	A1711	125.869	142.051	55.769	1.00	0.55	C
ATOM	13628	C	ARG	A1711	127.287	141.539	55.665	1.00	0.55	C
ATOM	13629	O	ARG	A1711	128.119	142.068	54.931	1.00	0.55	O
ATOM	13630	CB	ARG	A1711	125.283	142.245	54.348	1.00	0.55	C
ATOM	13631	CG	ARG	A1711	125.230	140.957	53.499	1.00	0.55	C
ATOM	13632	CD	ARG	A1711	124.660	141.194	52.100	1.00	0.55	C
ATOM	13633	NE	ARG	A1711	124.728	139.883	51.379	1.00	0.55	N
ATOM	13634	CZ	ARG	A1711	124.289	139.692	50.127	1.00	0.55	C
ATOM	13635	NH1	ARG	A1711	123.745	140.681	49.424	1.00	0.55	N
ATOM	13636	NH2	ARG	A1711	124.400	138.491	49.563	1.00	0.55	N
ATOM	13637	N	LYS	A1712	127.593	140.442	56.382	1.00	0.62	N
ATOM	13638	CA	LYS	A1712	128.799	139.675	56.156	1.00	0.62	C
ATOM	13639	C	LYS	A1712	128.758	139.002	54.783	1.00	0.62	C

ATOM	13640	O	LYS	A1712	127.716	138.523	54.330	1.00	0.62	O
ATOM	13641	CB	LYS	A1712	129.014	138.640	57.293	1.00	0.62	C
ATOM	13642	CG	LYS	A1712	130.372	137.918	57.272	1.00	0.62	C
ATOM	13643	CD	LYS	A1712	130.535	136.929	58.441	1.00	0.62	C
ATOM	13644	CE	LYS	A1712	131.865	136.167	58.392	1.00	0.62	C
ATOM	13645	NZ	LYS	A1712	131.928	135.166	59.481	1.00	0.62	N
ATOM	13646	N	GLN	A1713	129.904	138.925	54.078	1.00	0.48	N
ATOM	13647	CA	GLN	A1713	129.977	138.422	52.714	1.00	0.48	C
ATOM	13648	C	GLN	A1713	129.668	136.934	52.580	1.00	0.48	C
ATOM	13649	O	GLN	A1713	129.278	136.461	51.518	1.00	0.48	O
ATOM	13650	CB	GLN	A1713	131.366	138.740	52.117	1.00	0.48	C
ATOM	13651	CG	GLN	A1713	131.600	140.260	51.941	1.00	0.48	C
ATOM	13652	CD	GLN	A1713	133.020	140.542	51.449	1.00	0.48	C
ATOM	13653	OE1	GLN	A1713	133.946	139.761	51.661	1.00	0.48	O
ATOM	13654	NE2	GLN	A1713	133.213	141.705	50.786	1.00	0.48	N
ATOM	13655	N	SER	A1714	129.736	136.172	53.691	1.00	0.48	N
ATOM	13656	CA	SER	A1714	129.340	134.772	53.746	1.00	0.48	C
ATOM	13657	C	SER	A1714	127.859	134.595	54.067	1.00	0.48	C
ATOM	13658	O	SER	A1714	127.442	133.531	54.511	1.00	0.48	O
ATOM	13659	CB	SER	A1714	130.166	133.974	54.800	1.00	0.48	C
ATOM	13660	OG	SER	A1714	129.904	134.401	56.145	1.00	0.48	O
ATOM	13661	N	GLY	A1715	127.027	135.643	53.872	1.00	0.60	N
ATOM	13662	CA	GLY	A1715	125.572	135.550	53.994	1.00	0.60	C
ATOM	13663	C	GLY	A1715	125.032	135.772	55.377	1.00	0.60	C
ATOM	13664	O	GLY	A1715	123.946	135.310	55.705	1.00	0.60	O
ATOM	13665	N	GLY	A1716	125.772	136.495	56.235	1.00	0.59	N
ATOM	13666	CA	GLY	A1716	125.373	136.690	57.625	1.00	0.59	C
ATOM	13667	C	GLY	A1716	124.820	138.060	57.881	1.00	0.59	C
ATOM	13668	O	GLY	A1716	125.486	139.060	57.621	1.00	0.59	O
ATOM	13669	N	ILE	A1717	123.607	138.139	58.456	1.00	0.61	N
ATOM	13670	CA	ILE	A1717	123.009	139.387	58.905	1.00	0.61	C
ATOM	13671	C	ILE	A1717	123.517	139.691	60.306	1.00	0.61	C
ATOM	13672	O	ILE	A1717	123.144	139.070	61.299	1.00	0.61	O
ATOM	13673	CB	ILE	A1717	121.482	139.345	58.877	1.00	0.61	C
ATOM	13674	CG1	ILE	A1717	120.941	138.914	57.487	1.00	0.61	C
ATOM	13675	CG2	ILE	A1717	120.890	140.708	59.308	1.00	0.61	C
ATOM	13676	CD1	ILE	A1717	121.358	139.816	56.315	1.00	0.61	C
ATOM	13677	N	GLY	A1718	124.451	140.653	60.408	1.00	0.69	N
ATOM	13678	CA	GLY	A1718	125.099	141.018	61.654	1.00	0.69	C
ATOM	13679	C	GLY	A1718	124.506	142.274	62.213	1.00	0.69	C
ATOM	13680	O	GLY	A1718	124.031	143.135	61.482	1.00	0.69	O
ATOM	13681	N	TYR	A1719	124.562	142.424	63.545	1.00	0.67	N
ATOM	13682	CA	TYR	A1719	124.033	143.582	64.236	1.00	0.67	C
ATOM	13683	C	TYR	A1719	125.192	144.283	64.897	1.00	0.67	C
ATOM	13684	O	TYR	A1719	125.885	143.677	65.714	1.00	0.67	O
ATOM	13685	CB	TYR	A1719	123.005	143.177	65.323	1.00	0.67	C
ATOM	13686	CG	TYR	A1719	121.647	143.014	64.708	1.00	0.67	C
ATOM	13687	CD1	TYR	A1719	121.358	141.942	63.845	1.00	0.67	C
ATOM	13688	CD2	TYR	A1719	120.653	143.977	64.957	1.00	0.67	C
ATOM	13689	CE1	TYR	A1719	120.123	141.874	63.190	1.00	0.67	C
ATOM	13690	CE2	TYR	A1719	119.412	143.902	64.312	1.00	0.67	C
ATOM	13691	CZ	TYR	A1719	119.165	142.866	63.407	1.00	0.67	C
ATOM	13692	OH	TYR	A1719	117.972	142.820	62.673	1.00	0.67	O
ATOM	13693	N	LYS	A1720	125.443	145.553	64.514	1.00	0.72	N
ATOM	13694	CA	LYS	A1720	126.617	146.321	64.900	1.00	0.72	C
ATOM	13695	C	LYS	A1720	126.164	147.698	65.361	1.00	0.72	C
ATOM	13696	O	LYS	A1720	125.063	148.128	65.024	1.00	0.72	O
ATOM	13697	CB	LYS	A1720	127.592	146.540	63.700	1.00	0.72	C
ATOM	13698	CG	LYS	A1720	127.943	145.306	62.834	1.00	0.72	C
ATOM	13699	CD	LYS	A1720	128.502	144.091	63.592	1.00	0.72	C
ATOM	13700	CE	LYS	A1720	129.777	144.366	64.383	1.00	0.72	C
ATOM	13701	NZ	LYS	A1720	129.803	143.506	65.580	1.00	0.72	N
ATOM	13702	N	GLY	A1721	126.996	148.445	66.113	1.00	0.79	N
ATOM	13703	CA	GLY	A1721	126.632	149.706	66.745	1.00	0.79	C
ATOM	13704	C	GLY	A1721	125.824	149.603	68.013	1.00	0.79	C

ATOM	13705	O	GLY	A1721	125.347	148.548	68.427	1.00	0.79	O
ATOM	13706	N	LYS	A1722	125.658	150.750	68.688	1.00	0.79	N
ATOM	13707	CA	LYS	A1722	125.000	150.846	69.973	1.00	0.79	C
ATOM	13708	C	LYS	A1722	123.483	150.727	69.906	1.00	0.79	C
ATOM	13709	O	LYS	A1722	122.821	151.355	69.081	1.00	0.79	O
ATOM	13710	CB	LYS	A1722	125.415	152.164	70.662	1.00	0.79	C
ATOM	13711	CG	LYS	A1722	125.131	152.208	72.171	1.00	0.79	C
ATOM	13712	CD	LYS	A1722	125.916	153.342	72.847	1.00	0.79	C
ATOM	13713	CE	LYS	A1722	125.761	153.363	74.368	1.00	0.79	C
ATOM	13714	NZ	LYS	A1722	126.699	154.348	74.949	1.00	0.79	N
ATOM	13715	N	GLY	A1723	122.888	149.905	70.793	1.00	0.84	N
ATOM	13716	CA	GLY	A1723	121.448	149.703	70.859	1.00	0.84	C
ATOM	13717	C	GLY	A1723	120.918	149.843	72.255	1.00	0.84	C
ATOM	13718	O	GLY	A1723	121.645	149.796	73.247	1.00	0.84	O
ATOM	13719	N	VAL	A1724	119.590	149.998	72.362	1.00	0.84	N
ATOM	13720	CA	VAL	A1724	118.898	150.096	73.636	1.00	0.84	C
ATOM	13721	C	VAL	A1724	117.723	149.156	73.581	1.00	0.84	C
ATOM	13722	O	VAL	A1724	116.790	149.358	72.804	1.00	0.84	O
ATOM	13723	CB	VAL	A1724	118.390	151.505	73.948	1.00	0.84	C
ATOM	13724	CG1	VAL	A1724	117.665	151.529	75.313	1.00	0.84	C
ATOM	13725	CG2	VAL	A1724	119.587	152.475	73.945	1.00	0.84	C
ATOM	13726	N	TRP	A1725	117.731	148.107	74.419	1.00	0.80	N
ATOM	13727	CA	TRP	A1725	116.638	147.168	74.536	1.00	0.80	C
ATOM	13728	C	TRP	A1725	115.911	147.464	75.834	1.00	0.80	C
ATOM	13729	O	TRP	A1725	116.480	147.998	76.789	1.00	0.80	O
ATOM	13730	CB	TRP	A1725	117.154	145.701	74.490	1.00	0.80	C
ATOM	13731	CG	TRP	A1725	116.074	144.644	74.345	1.00	0.80	C
ATOM	13732	CD1	TRP	A1725	115.464	144.178	73.211	1.00	0.80	C
ATOM	13733	CD2	TRP	A1725	115.385	144.001	75.446	1.00	0.80	C
ATOM	13734	NE1	TRP	A1725	114.444	143.297	73.525	1.00	0.80	N
ATOM	13735	CE2	TRP	A1725	114.394	143.198	74.901	1.00	0.80	C
ATOM	13736	CE3	TRP	A1725	115.554	144.119	76.830	1.00	0.80	C
ATOM	13737	CZ2	TRP	A1725	113.516	142.476	75.709	1.00	0.80	C
ATOM	13738	CZ3	TRP	A1725	114.671	143.396	77.653	1.00	0.80	C
ATOM	13739	CH2	TRP	A1725	113.664	142.597	77.102	1.00	0.80	C
ATOM	13740	N	SER	A1726	114.616	147.146	75.902	1.00	0.82	N
ATOM	13741	CA	SER	A1726	113.814	147.468	77.058	1.00	0.82	C
ATOM	13742	C	SER	A1726	112.783	146.388	77.215	1.00	0.82	C
ATOM	13743	O	SER	A1726	112.470	145.672	76.270	1.00	0.82	O
ATOM	13744	CB	SER	A1726	113.167	148.877	76.977	1.00	0.82	C
ATOM	13745	OG	SER	A1726	112.475	149.126	75.750	1.00	0.82	O
ATOM	13746	N	GLY	A1727	112.268	146.165	78.436	1.00	0.82	N
ATOM	13747	CA	GLY	A1727	111.244	145.153	78.555	1.00	0.82	C
ATOM	13748	C	GLY	A1727	110.751	144.923	79.934	1.00	0.82	C
ATOM	13749	O	GLY	A1727	111.379	145.234	80.942	1.00	0.82	O
ATOM	13750	N	ILE	A1728	109.569	144.309	80.013	1.00	0.73	N
ATOM	13751	CA	ILE	A1728	108.863	144.123	81.248	1.00	0.73	C
ATOM	13752	C	ILE	A1728	108.782	142.636	81.503	1.00	0.73	C
ATOM	13753	O	ILE	A1728	108.084	141.870	80.839	1.00	0.73	O
ATOM	13754	CB	ILE	A1728	107.495	144.796	81.241	1.00	0.73	C
ATOM	13755	CG1	ILE	A1728	107.653	146.273	80.791	1.00	0.73	C
ATOM	13756	CG2	ILE	A1728	106.890	144.692	82.660	1.00	0.73	C
ATOM	13757	CD1	ILE	A1728	106.354	147.081	80.729	1.00	0.73	C
ATOM	13758	N	MET	A1729	109.544	142.195	82.510	1.00	0.70	N
ATOM	13759	CA	MET	A1729	109.515	140.859	83.040	1.00	0.70	C
ATOM	13760	C	MET	A1729	109.154	141.062	84.489	1.00	0.70	C
ATOM	13761	O	MET	A1729	109.651	141.995	85.114	1.00	0.70	O
ATOM	13762	CB	MET	A1729	110.884	140.146	82.856	1.00	0.70	C
ATOM	13763	CG	MET	A1729	112.123	140.890	83.404	1.00	0.70	C
ATOM	13764	SD	MET	A1729	113.731	140.154	82.957	1.00	0.70	S
ATOM	13765	CE	MET	A1729	113.701	140.503	81.173	1.00	0.70	C
ATOM	13766	N	GLU	A1730	108.209	140.271	85.032	1.00	0.67	N
ATOM	13767	CA	GLU	A1730	107.871	140.192	86.452	1.00	0.67	C
ATOM	13768	C	GLU	A1730	107.823	141.474	87.301	1.00	0.67	C
ATOM	13769	O	GLU	A1730	108.196	141.493	88.474	1.00	0.67	O

ATOM	13770	CB	GLU	A1730	108.650	139.044	87.134	1.00	0.67	C
ATOM	13771	CG	GLU	A1730	110.204	139.110	87.104	1.00	0.67	C
ATOM	13772	CD	GLU	A1730	110.801	137.817	86.548	1.00	0.67	C
ATOM	13773	OE1	GLU	A1730	110.361	136.745	87.046	1.00	0.67	O
ATOM	13774	OE2	GLU	A1730	111.667	137.878	85.640	1.00	0.67	O
ATOM	13775	N	ASN	A1731	107.287	142.567	86.710	1.00	0.72	N
ATOM	13776	CA	ASN	A1731	107.136	143.891	87.295	1.00	0.72	C
ATOM	13777	C	ASN	A1731	108.452	144.623	87.596	1.00	0.72	C
ATOM	13778	O	ASN	A1731	108.596	145.291	88.616	1.00	0.72	O
ATOM	13779	CB	ASN	A1731	106.179	143.851	88.521	1.00	0.72	C
ATOM	13780	CG	ASN	A1731	105.591	145.229	88.803	1.00	0.72	C
ATOM	13781	OD1	ASN	A1731	105.254	145.974	87.884	1.00	0.72	O
ATOM	13782	ND2	ASN	A1731	105.446	145.578	90.099	1.00	0.72	N
ATOM	13783	N	THR	A1732	109.452	144.535	86.695	1.00	0.78	N
ATOM	13784	CA	THR	A1732	110.741	145.195	86.909	1.00	0.78	C
ATOM	13785	C	THR	A1732	111.011	146.387	86.013	1.00	0.78	C
ATOM	13786	O	THR	A1732	111.752	147.290	86.404	1.00	0.78	O
ATOM	13787	CB	THR	A1732	111.894	144.228	86.688	1.00	0.78	C
ATOM	13788	OG1	THR	A1732	111.881	143.660	85.387	1.00	0.78	O
ATOM	13789	CG2	THR	A1732	111.789	143.073	87.690	1.00	0.78	C
ATOM	13790	N	ASN	A1733	110.409	146.416	84.804	1.00	0.77	N
ATOM	13791	CA	ASN	A1733	110.656	147.373	83.729	1.00	0.77	C
ATOM	13792	C	ASN	A1733	112.135	147.665	83.438	1.00	0.77	C
ATOM	13793	O	ASN	A1733	112.635	148.777	83.602	1.00	0.77	O
ATOM	13794	CB	ASN	A1733	109.788	148.655	83.873	1.00	0.77	C
ATOM	13795	CG	ASN	A1733	109.452	149.191	82.487	1.00	0.77	C
ATOM	13796	OD1	ASN	A1733	109.917	148.674	81.473	1.00	0.77	O
ATOM	13797	ND2	ASN	A1733	108.583	150.218	82.409	1.00	0.77	N
ATOM	13798	N	VAL	A1734	112.883	146.617	83.049	1.00	0.85	N
ATOM	13799	CA	VAL	A1734	114.307	146.684	82.801	1.00	0.85	C
ATOM	13800	C	VAL	A1734	114.688	147.390	81.517	1.00	0.85	C
ATOM	13801	O	VAL	A1734	114.007	147.336	80.494	1.00	0.85	O
ATOM	13802	CB	VAL	A1734	115.003	145.324	82.854	1.00	0.85	C
ATOM	13803	CG1	VAL	A1734	115.030	144.874	84.320	1.00	0.85	C
ATOM	13804	CG2	VAL	A1734	114.303	144.277	81.967	1.00	0.85	C
ATOM	13805	N	GLN	A1735	115.853	148.058	81.544	1.00	0.83	N
ATOM	13806	CA	GLN	A1735	116.424	148.675	80.369	1.00	0.83	C
ATOM	13807	C	GLN	A1735	117.834	148.145	80.204	1.00	0.83	C
ATOM	13808	O	GLN	A1735	118.624	148.158	81.148	1.00	0.83	O
ATOM	13809	CB	GLN	A1735	116.428	150.219	80.484	1.00	0.83	C
ATOM	13810	CG	GLN	A1735	116.344	150.919	79.109	1.00	0.83	C
ATOM	13811	CD	GLN	A1735	116.456	152.438	79.221	1.00	0.83	C
ATOM	13812	OE1	GLN	A1735	117.010	153.008	80.164	1.00	0.83	O
ATOM	13813	NE2	GLN	A1735	115.927	153.145	78.196	1.00	0.83	N
ATOM	13814	N	ILE	A1736	118.182	147.638	79.008	1.00	0.85	N
ATOM	13815	CA	ILE	A1736	119.468	147.012	78.753	1.00	0.85	C
ATOM	13816	C	ILE	A1736	120.149	147.805	77.655	1.00	0.85	C
ATOM	13817	O	ILE	A1736	119.631	147.954	76.548	1.00	0.85	O
ATOM	13818	CB	ILE	A1736	119.354	145.538	78.344	1.00	0.85	C
ATOM	13819	CG1	ILE	A1736	118.458	144.746	79.335	1.00	0.85	C
ATOM	13820	CG2	ILE	A1736	120.774	144.927	78.251	1.00	0.85	C
ATOM	13821	CD1	ILE	A1736	118.290	143.260	78.984	1.00	0.85	C
ATOM	13822	N	LEU	A1737	121.344	148.361	77.936	1.00	0.84	N
ATOM	13823	CA	LEU	A1737	122.113	149.078	76.939	1.00	0.84	C
ATOM	13824	C	LEU	A1737	123.138	148.114	76.376	1.00	0.84	C
ATOM	13825	O	LEU	A1737	123.739	147.325	77.109	1.00	0.84	O
ATOM	13826	CB	LEU	A1737	122.822	150.349	77.471	1.00	0.84	C
ATOM	13827	CG	LEU	A1737	121.954	151.337	78.286	1.00	0.84	C
ATOM	13828	CD1	LEU	A1737	122.720	152.659	78.414	1.00	0.84	C
ATOM	13829	CD2	LEU	A1737	120.575	151.638	77.683	1.00	0.84	C
ATOM	13830	N	ILE	A1738	123.341	148.124	75.050	1.00	0.81	N
ATOM	13831	CA	ILE	A1738	124.076	147.063	74.390	1.00	0.81	C
ATOM	13832	C	ILE	A1738	124.912	147.673	73.286	1.00	0.81	C
ATOM	13833	O	ILE	A1738	124.532	148.689	72.705	1.00	0.81	O
ATOM	13834	CB	ILE	A1738	123.089	145.988	73.914	1.00	0.81	C



ATOM	13835	CG1	ILE	A1738	123.666	144.566	74.022	1.00	0.81	C
ATOM	13836	CG2	ILE	A1738	122.490	146.282	72.519	1.00	0.81	C
ATOM	13837	CD1	ILE	A1738	122.549	143.516	74.056	1.00	0.81	C
ATOM	13838	N	ASP	A1739	126.096	147.107	73.000	1.00	0.81	N
ATOM	13839	CA	ASP	A1739	127.039	147.705	72.077	1.00	0.81	C
ATOM	13840	C	ASP	A1739	127.785	146.569	71.381	1.00	0.81	C
ATOM	13841	O	ASP	A1739	127.585	145.395	71.705	1.00	0.81	O
ATOM	13842	CB	ASP	A1739	127.963	148.683	72.851	1.00	0.81	C
ATOM	13843	CG	ASP	A1739	128.715	149.601	71.907	1.00	0.81	C
ATOM	13844	OD1	ASP	A1739	128.158	150.679	71.584	1.00	0.81	O
ATOM	13845	OD2	ASP	A1739	129.825	149.209	71.463	1.00	0.81	O
ATOM	13846	N	GLY	A1740	128.631	146.859	70.370	1.00	0.80	N
ATOM	13847	CA	GLY	A1740	129.303	145.773	69.679	1.00	0.80	C
ATOM	13848	C	GLY	A1740	129.797	146.008	68.289	1.00	0.80	C
ATOM	13849	O	GLY	A1740	129.288	145.404	67.349	1.00	0.80	O
ATOM	13850	N	ASP	A1741	130.851	146.818	68.095	1.00	0.73	N
ATOM	13851	CA	ASP	A1741	131.408	147.060	66.767	1.00	0.73	C
ATOM	13852	C	ASP	A1741	132.487	146.072	66.316	1.00	0.73	C
ATOM	13853	O	ASP	A1741	132.845	146.030	65.142	1.00	0.73	O
ATOM	13854	CB	ASP	A1741	131.947	148.511	66.686	1.00	0.73	C
ATOM	13855	CG	ASP	A1741	130.806	149.483	66.431	1.00	0.73	C
ATOM	13856	OD1	ASP	A1741	129.672	149.006	66.166	1.00	0.73	O
ATOM	13857	OD2	ASP	A1741	131.074	150.708	66.444	1.00	0.73	O
ATOM	13858	N	GLY	A1742	132.996	145.185	67.201	1.00	0.61	N
ATOM	13859	CA	GLY	A1742	133.993	144.172	66.823	1.00	0.61	C
ATOM	13860	C	GLY	A1742	133.375	142.930	66.219	1.00	0.61	C
ATOM	13861	O	GLY	A1742	132.392	142.993	65.493	1.00	0.61	O
ATOM	13862	N	SER	A1743	133.900	141.723	66.496	1.00	0.71	N
ATOM	13863	CA	SER	A1743	133.350	140.477	65.949	1.00	0.71	C
ATOM	13864	C	SER	A1743	131.904	140.188	66.322	1.00	0.71	C
ATOM	13865	O	SER	A1743	131.109	139.723	65.513	1.00	0.71	O
ATOM	13866	CB	SER	A1743	134.164	139.239	66.399	1.00	0.71	C
ATOM	13867	OG	SER	A1743	135.551	139.468	66.167	1.00	0.71	O
ATOM	13868	N	SER	A1744	131.525	140.480	67.578	1.00	0.77	N
ATOM	13869	CA	SER	A1744	130.194	140.215	68.102	1.00	0.77	C
ATOM	13870	C	SER	A1744	129.746	141.422	68.906	1.00	0.77	C
ATOM	13871	O	SER	A1744	130.263	142.522	68.717	1.00	0.77	O
ATOM	13872	CB	SER	A1744	130.147	138.907	68.948	1.00	0.77	C
ATOM	13873	OG	SER	A1744	128.806	138.498	69.239	1.00	0.77	O
ATOM	13874	N	ASN	A1745	128.760	141.236	69.798	1.00	0.79	N
ATOM	13875	CA	ASN	A1745	128.181	142.245	70.659	1.00	0.79	C
ATOM	13876	C	ASN	A1745	128.456	141.919	72.112	1.00	0.79	C
ATOM	13877	O	ASN	A1745	128.749	140.774	72.467	1.00	0.79	O
ATOM	13878	CB	ASN	A1745	126.647	142.342	70.471	1.00	0.79	C
ATOM	13879	CG	ASN	A1745	126.344	142.795	69.056	1.00	0.79	C
ATOM	13880	OD1	ASN	A1745	126.537	143.956	68.712	1.00	0.79	O
ATOM	13881	ND2	ASN	A1745	125.847	141.889	68.185	1.00	0.79	N
ATOM	13882	N	TRP	A1746	128.353	142.935	72.984	1.00	0.77	N
ATOM	13883	CA	TRP	A1746	128.573	142.803	74.407	1.00	0.77	C
ATOM	13884	C	TRP	A1746	127.527	143.593	75.187	1.00	0.77	C
ATOM	13885	O	TRP	A1746	126.859	144.488	74.671	1.00	0.77	O
ATOM	13886	CB	TRP	A1746	130.021	143.231	74.792	1.00	0.77	C
ATOM	13887	CG	TRP	A1746	130.494	144.546	74.200	1.00	0.77	C
ATOM	13888	CD1	TRP	A1746	130.283	145.826	74.635	1.00	0.77	C
ATOM	13889	CD2	TRP	A1746	131.295	144.688	72.989	1.00	0.77	C
ATOM	13890	NE1	TRP	A1746	130.887	146.749	73.796	1.00	0.77	N
ATOM	13891	CE2	TRP	A1746	131.512	146.033	72.791	1.00	0.77	C
ATOM	13892	CE3	TRP	A1746	131.803	143.716	72.111	1.00	0.77	C
ATOM	13893	CZ2	TRP	A1746	132.262	146.511	71.706	1.00	0.77	C
ATOM	13894	CZ3	TRP	A1746	132.574	144.182	71.023	1.00	0.77	C
ATOM	13895	CH2	TRP	A1746	132.806	145.548	70.830	1.00	0.77	C
ATOM	13896	N	ILE	A1747	127.332	143.239	76.475	1.00	0.82	N
ATOM	13897	CA	ILE	A1747	126.395	143.916	77.360	1.00	0.82	C
ATOM	13898	C	ILE	A1747	127.073	145.108	78.000	1.00	0.82	C
ATOM	13899	O	ILE	A1747	127.995	144.951	78.796	1.00	0.82	O

ATOM	13900	CB	ILE	A1747	125.869	143.003	78.472	1.00	0.82	C
ATOM	13901	CG1	ILE	A1747	125.265	141.691	77.913	1.00	0.82	C
ATOM	13902	CG2	ILE	A1747	124.837	143.765	79.341	1.00	0.82	C
ATOM	13903	CD1	ILE	A1747	124.039	141.897	77.019	1.00	0.82	C
ATOM	13904	N	GLU	A1748	126.617	146.334	77.676	1.00	0.80	N
ATOM	13905	CA	GLU	A1748	127.212	147.536	78.220	1.00	0.80	C
ATOM	13906	C	GLU	A1748	126.742	147.780	79.651	1.00	0.80	C
ATOM	13907	O	GLU	A1748	127.548	147.898	80.575	1.00	0.80	O
ATOM	13908	CB	GLU	A1748	126.854	148.732	77.294	1.00	0.80	C
ATOM	13909	CG	GLU	A1748	127.693	150.018	77.518	1.00	0.80	C
ATOM	13910	CD	GLU	A1748	129.146	149.924	77.040	1.00	0.80	C
ATOM	13911	OE1	GLU	A1748	129.841	150.970	77.143	1.00	0.80	O
ATOM	13912	OE2	GLU	A1748	129.567	148.842	76.562	1.00	0.80	O
ATOM	13913	N	GLU	A1749	125.400	147.779	79.866	1.00	0.82	N
ATOM	13914	CA	GLU	A1749	124.789	148.161	81.130	1.00	0.82	C
ATOM	13915	C	GLU	A1749	123.366	147.661	81.291	1.00	0.82	C
ATOM	13916	O	GLU	A1749	122.638	147.445	80.325	1.00	0.82	O
ATOM	13917	CB	GLU	A1749	124.700	149.696	81.218	1.00	0.82	C
ATOM	13918	CG	GLU	A1749	125.925	150.326	81.905	1.00	0.82	C
ATOM	13919	CD	GLU	A1749	126.370	151.634	81.276	1.00	0.82	C
ATOM	13920	OE1	GLU	A1749	127.368	152.187	81.777	1.00	0.82	O
ATOM	13921	OE2	GLU	A1749	125.634	152.171	80.398	1.00	0.82	O
ATOM	13922	N	ILE	A1750	122.909	147.545	82.558	1.00	0.83	N
ATOM	13923	CA	ILE	A1750	121.542	147.167	82.896	1.00	0.83	C
ATOM	13924	C	ILE	A1750	120.974	148.207	83.862	1.00	0.83	C
ATOM	13925	O	ILE	A1750	121.704	148.843	84.628	1.00	0.83	O
ATOM	13926	CB	ILE	A1750	121.441	145.757	83.501	1.00	0.83	C
ATOM	13927	CG1	ILE	A1750	122.355	144.757	82.747	1.00	0.83	C
ATOM	13928	CG2	ILE	A1750	119.968	145.281	83.483	1.00	0.83	C
ATOM	13929	CD1	ILE	A1750	122.284	143.322	83.280	1.00	0.83	C
ATOM	13930	N	ARG	A1751	119.647	148.436	83.824	1.00	0.78	N
ATOM	13931	CA	ARG	A1751	118.906	149.234	84.779	1.00	0.78	C
ATOM	13932	C	ARG	A1751	117.680	148.449	85.226	1.00	0.78	C
ATOM	13933	O	ARG	A1751	117.166	147.611	84.489	1.00	0.78	O
ATOM	13934	CB	ARG	A1751	118.402	150.556	84.150	1.00	0.78	C
ATOM	13935	CG	ARG	A1751	119.518	151.446	83.571	1.00	0.78	C
ATOM	13936	CD	ARG	A1751	118.966	152.640	82.789	1.00	0.78	C
ATOM	13937	NE	ARG	A1751	120.131	153.396	82.216	1.00	0.78	N
ATOM	13938	CZ	ARG	A1751	119.983	154.470	81.427	1.00	0.78	C
ATOM	13939	NH1	ARG	A1751	121.065	155.141	81.033	1.00	0.78	N
ATOM	13940	NH2	ARG	A1751	118.792	154.892	81.023	1.00	0.78	N
ATOM	13941	N	LEU	A1752	117.188	148.723	86.447	1.00	0.82	N
ATOM	13942	CA	LEU	A1752	116.107	148.007	87.100	1.00	0.82	C
ATOM	13943	C	LEU	A1752	115.366	149.047	87.924	1.00	0.82	C
ATOM	13944	O	LEU	A1752	115.984	150.025	88.351	1.00	0.82	O
ATOM	13945	CB	LEU	A1752	116.703	146.939	88.066	1.00	0.82	C
ATOM	13946	CG	LEU	A1752	116.702	145.485	87.567	1.00	0.82	C
ATOM	13947	CD1	LEU	A1752	117.849	144.668	88.182	1.00	0.82	C
ATOM	13948	CD2	LEU	A1752	115.361	144.835	87.911	1.00	0.82	C
ATOM	13949	N	SER	A1753	114.040	148.887	88.156	1.00	0.80	N
ATOM	13950	CA	SER	A1753	113.269	149.838	88.964	1.00	0.80	C
ATOM	13951	C	SER	A1753	113.049	149.386	90.403	1.00	0.80	C
ATOM	13952	O	SER	A1753	112.642	150.171	91.254	1.00	0.80	O
ATOM	13953	CB	SER	A1753	111.869	150.146	88.350	1.00	0.80	C
ATOM	13954	OG	SER	A1753	110.959	149.039	88.412	1.00	0.80	O
ATOM	13955	N	SER	A1754	113.341	148.109	90.718	1.00	0.77	N
ATOM	13956	CA	SER	A1754	113.096	147.513	92.024	1.00	0.77	C
ATOM	13957	C	SER	A1754	114.109	146.415	92.246	1.00	0.77	C
ATOM	13958	O	SER	A1754	114.574	145.801	91.291	1.00	0.77	O
ATOM	13959	CB	SER	A1754	111.694	146.856	92.130	1.00	0.77	C
ATOM	13960	OG	SER	A1754	110.705	147.826	92.455	1.00	0.77	O
ATOM	13961	N	GLU	A1755	114.483	146.145	93.517	1.00	0.72	N
ATOM	13962	CA	GLU	A1755	115.515	145.173	93.849	1.00	0.72	C
ATOM	13963	C	GLU	A1755	115.012	143.897	94.510	1.00	0.72	C
ATOM	13964	O	GLU	A1755	115.786	142.973	94.742	1.00	0.72	O

ATOM	13965	CB	GLU	A1755	116.532	145.825	94.811	1.00	0.72	C
ATOM	13966	CG	GLU	A1755	115.960	146.327	96.160	1.00	0.72	C
ATOM	13967	CD	GLU	A1755	117.043	147.020	96.988	1.00	0.72	C
ATOM	13968	OE1	GLU	A1755	116.667	147.922	97.781	1.00	0.72	O
ATOM	13969	OE2	GLU	A1755	118.236	146.654	96.832	1.00	0.72	O
ATOM	13970	N	SER	A1756	113.695	143.788	94.803	1.00	0.74	N
ATOM	13971	CA	SER	A1756	113.118	142.643	95.522	1.00	0.74	C
ATOM	13972	C	SER	A1756	113.297	141.310	94.805	1.00	0.74	C
ATOM	13973	O	SER	A1756	113.732	140.316	95.380	1.00	0.74	O
ATOM	13974	CB	SER	A1756	111.598	142.865	95.782	1.00	0.74	C
ATOM	13975	OG	SER	A1756	111.032	141.851	96.616	1.00	0.74	O
ATOM	13976	N	ARG	A1757	113.026	141.282	93.489	1.00	0.66	N
ATOM	13977	CA	ARG	A1757	113.308	140.134	92.660	1.00	0.66	C
ATOM	13978	C	ARG	A1757	114.499	140.515	91.806	1.00	0.66	C
ATOM	13979	O	ARG	A1757	114.400	141.338	90.899	1.00	0.66	O
ATOM	13980	CB	ARG	A1757	112.077	139.751	91.801	1.00	0.66	C
ATOM	13981	CG	ARG	A1757	110.901	139.253	92.673	1.00	0.66	C
ATOM	13982	CD	ARG	A1757	109.670	138.770	91.902	1.00	0.66	C
ATOM	13983	NE	ARG	A1757	110.080	137.525	91.214	1.00	0.66	N
ATOM	13984	CZ	ARG	A1757	109.392	136.913	90.251	1.00	0.66	C
ATOM	13985	NH1	ARG	A1757	110.028	135.993	89.533	1.00	0.66	N
ATOM	13986	NH2	ARG	A1757	108.137	137.208	89.960	1.00	0.66	N
ATOM	13987	N	LEU	A1758	115.679	139.965	92.148	1.00	0.75	N
ATOM	13988	CA	LEU	A1758	116.925	140.288	91.484	1.00	0.75	C
ATOM	13989	C	LEU	A1758	117.603	139.040	90.956	1.00	0.75	C
ATOM	13990	O	LEU	A1758	118.053	138.999	89.815	1.00	0.75	O
ATOM	13991	CB	LEU	A1758	117.850	141.023	92.491	1.00	0.75	C
ATOM	13992	CG	LEU	A1758	119.204	141.510	91.928	1.00	0.75	C
ATOM	13993	CD1	LEU	A1758	119.561	142.888	92.502	1.00	0.75	C
ATOM	13994	CD2	LEU	A1758	120.356	140.530	92.207	1.00	0.75	C
ATOM	13995	N	PHE	A1759	117.675	137.958	91.759	1.00	0.73	N
ATOM	13996	CA	PHE	A1759	118.369	136.729	91.401	1.00	0.73	C
ATOM	13997	C	PHE	A1759	117.766	135.999	90.203	1.00	0.73	C
ATOM	13998	O	PHE	A1759	118.479	135.510	89.329	1.00	0.73	O
ATOM	13999	CB	PHE	A1759	118.432	135.767	92.621	1.00	0.73	C
ATOM	14000	CG	PHE	A1759	119.430	136.254	93.640	1.00	0.73	C
ATOM	14001	CD1	PHE	A1759	120.802	136.232	93.335	1.00	0.73	C
ATOM	14002	CD2	PHE	A1759	119.028	136.693	94.914	1.00	0.73	C
ATOM	14003	CE1	PHE	A1759	121.754	136.650	94.273	1.00	0.73	C
ATOM	14004	CE2	PHE	A1759	119.982	137.063	95.874	1.00	0.73	C
ATOM	14005	CZ	PHE	A1759	121.344	137.049	95.550	1.00	0.73	C
ATOM	14006	N	ASP	A1760	116.428	135.946	90.135	1.00	0.78	N
ATOM	14007	CA	ASP	A1760	115.632	135.460	89.031	1.00	0.78	C
ATOM	14008	C	ASP	A1760	115.796	136.310	87.775	1.00	0.78	C
ATOM	14009	O	ASP	A1760	116.007	135.796	86.677	1.00	0.78	O
ATOM	14010	CB	ASP	A1760	114.139	135.342	89.465	1.00	0.78	C
ATOM	14011	CG	ASP	A1760	113.597	136.456	90.355	1.00	0.78	C
ATOM	14012	OD1	ASP	A1760	114.332	137.382	90.779	1.00	0.78	O
ATOM	14013	OD2	ASP	A1760	112.389	136.347	90.680	1.00	0.78	O
ATOM	14014	N	VAL	A1761	115.798	137.649	87.927	1.00	0.83	N
ATOM	14015	CA	VAL	A1761	116.024	138.597	86.840	1.00	0.83	C
ATOM	14016	C	VAL	A1761	117.371	138.388	86.159	1.00	0.83	C
ATOM	14017	O	VAL	A1761	117.467	138.416	84.934	1.00	0.83	O
ATOM	14018	CB	VAL	A1761	115.879	140.043	87.307	1.00	0.83	C
ATOM	14019	CG1	VAL	A1761	116.236	141.052	86.190	1.00	0.83	C
ATOM	14020	CG2	VAL	A1761	114.420	140.249	87.751	1.00	0.83	C
ATOM	14021	N	ILE	A1762	118.451	138.106	86.921	1.00	0.82	N
ATOM	14022	CA	ILE	A1762	119.760	137.789	86.354	1.00	0.82	C
ATOM	14023	C	ILE	A1762	119.744	136.558	85.439	1.00	0.82	C
ATOM	14024	O	ILE	A1762	120.292	136.600	84.335	1.00	0.82	O
ATOM	14025	CB	ILE	A1762	120.841	137.638	87.436	1.00	0.82	C
ATOM	14026	CG1	ILE	A1762	121.035	138.928	88.279	1.00	0.82	C
ATOM	14027	CG2	ILE	A1762	122.201	137.210	86.831	1.00	0.82	C
ATOM	14028	CD1	ILE	A1762	121.276	140.219	87.483	1.00	0.82	C
ATOM	14029	N	GLU	A1763	119.085	135.437	85.824	1.00	0.79	N

ATOM	14030	CA	GLU	A1763	118.954	134.282	84.936	1.00	0.79	C
ATOM	14031	C	GLU	A1763	117.991	134.505	83.769	1.00	0.79	C
ATOM	14032	O	GLU	A1763	118.253	134.075	82.645	1.00	0.79	O
ATOM	14033	CB	GLU	A1763	118.770	132.926	85.678	1.00	0.79	C
ATOM	14034	CG	GLU	A1763	117.330	132.398	85.930	1.00	0.79	C
ATOM	14035	CD	GLU	A1763	116.732	131.602	84.755	1.00	0.79	C
ATOM	14036	OE1	GLU	A1763	115.610	131.942	84.304	1.00	0.79	O
ATOM	14037	OE2	GLU	A1763	117.377	130.621	84.281	1.00	0.79	O
ATOM	14038	N	SER	A1764	116.889	135.259	83.982	1.00	0.84	N
ATOM	14039	CA	SER	A1764	115.956	135.665	82.931	1.00	0.84	C
ATOM	14040	C	SER	A1764	116.612	136.537	81.858	1.00	0.84	C
ATOM	14041	O	SER	A1764	116.454	136.299	80.659	1.00	0.84	O
ATOM	14042	CB	SER	A1764	114.716	136.390	83.527	1.00	0.84	C
ATOM	14043	OG	SER	A1764	113.634	136.523	82.595	1.00	0.84	O
ATOM	14044	N	VAL	A1765	117.448	137.525	82.264	1.00	0.85	N
ATOM	14045	CA	VAL	A1765	118.325	138.292	81.378	1.00	0.85	C
ATOM	14046	C	VAL	A1765	119.360	137.410	80.695	1.00	0.85	C
ATOM	14047	O	VAL	A1765	119.586	137.536	79.495	1.00	0.85	O
ATOM	14048	CB	VAL	A1765	119.009	139.472	82.080	1.00	0.85	C
ATOM	14049	CG1	VAL	A1765	120.060	140.156	81.173	1.00	0.85	C
ATOM	14050	CG2	VAL	A1765	117.930	140.508	82.454	1.00	0.85	C
ATOM	14051	N	ARG	A1766	119.985	136.444	81.411	1.00	0.77	N
ATOM	14052	CA	ARG	A1766	120.906	135.483	80.812	1.00	0.77	C
ATOM	14053	C	ARG	A1766	120.272	134.683	79.694	1.00	0.77	C
ATOM	14054	O	ARG	A1766	120.834	134.608	78.607	1.00	0.77	O
ATOM	14055	CB	ARG	A1766	121.480	134.517	81.886	1.00	0.77	C
ATOM	14056	CG	ARG	A1766	122.613	133.554	81.436	1.00	0.77	C
ATOM	14057	CD	ARG	A1766	122.252	132.294	80.624	1.00	0.77	C
ATOM	14058	NE	ARG	A1766	121.264	131.515	81.427	1.00	0.77	N
ATOM	14059	CZ	ARG	A1766	120.872	130.287	81.071	1.00	0.77	C
ATOM	14060	NH1	ARG	A1766	121.210	129.733	79.912	1.00	0.77	N
ATOM	14061	NH2	ARG	A1766	120.106	129.578	81.903	1.00	0.77	N
ATOM	14062	N	ARG	A1767	119.055	134.145	79.906	1.00	0.78	N
ATOM	14063	CA	ARG	A1767	118.274	133.467	78.887	1.00	0.78	C
ATOM	14064	C	ARG	A1767	117.944	134.365	77.702	1.00	0.78	C
ATOM	14065	O	ARG	A1767	118.016	133.954	76.549	1.00	0.78	O
ATOM	14066	CB	ARG	A1767	116.947	132.968	79.512	1.00	0.78	C
ATOM	14067	CG	ARG	A1767	116.002	132.252	78.520	1.00	0.78	C
ATOM	14068	CD	ARG	A1767	114.619	131.922	79.088	1.00	0.78	C
ATOM	14069	NE	ARG	A1767	113.950	133.220	79.448	1.00	0.78	N
ATOM	14070	CZ	ARG	A1767	113.121	133.919	78.658	1.00	0.78	C
ATOM	14071	NH1	ARG	A1767	112.544	135.017	79.139	1.00	0.78	N
ATOM	14072	NH2	ARG	A1767	112.853	133.563	77.407	1.00	0.78	N
ATOM	14073	N	LEU	A1768	117.580	135.635	77.955	1.00	0.83	N
ATOM	14074	CA	LEU	A1768	117.309	136.604	76.910	1.00	0.83	C
ATOM	14075	C	LEU	A1768	118.527	136.912	76.042	1.00	0.83	C
ATOM	14076	O	LEU	A1768	118.443	136.930	74.818	1.00	0.83	O
ATOM	14077	CB	LEU	A1768	116.718	137.876	77.557	1.00	0.83	C
ATOM	14078	CG	LEU	A1768	115.910	138.769	76.597	1.00	0.83	C
ATOM	14079	CD1	LEU	A1768	114.733	139.399	77.353	1.00	0.83	C
ATOM	14080	CD2	LEU	A1768	116.763	139.863	75.935	1.00	0.83	C
ATOM	14081	N	CYS	A1769	119.714	137.093	76.660	1.00	0.82	N
ATOM	14082	CA	CYS	A1769	120.991	137.259	75.976	1.00	0.82	C
ATOM	14083	C	CYS	A1769	121.420	136.050	75.149	1.00	0.82	C
ATOM	14084	O	CYS	A1769	122.017	136.209	74.085	1.00	0.82	O
ATOM	14085	CB	CYS	A1769	122.134	137.627	76.954	1.00	0.82	C
ATOM	14086	SG	CYS	A1769	121.820	139.214	77.795	1.00	0.82	S
ATOM	14087	N	ASP	A1770	121.112	134.827	75.630	1.00	0.83	N
ATOM	14088	CA	ASP	A1770	121.256	133.548	74.946	1.00	0.83	C
ATOM	14089	C	ASP	A1770	120.398	133.521	73.657	1.00	0.83	C
ATOM	14090	O	ASP	A1770	120.889	133.275	72.557	1.00	0.83	O
ATOM	14091	CB	ASP	A1770	120.800	132.487	76.011	1.00	0.83	C
ATOM	14092	CG	ASP	A1770	121.647	131.236	76.215	1.00	0.83	C
ATOM	14093	OD1	ASP	A1770	122.290	130.762	75.254	1.00	0.83	O
ATOM	14094	OD2	ASP	A1770	121.641	130.745	77.387	1.00	0.83	O

ATOM	14095	N	ASP	A1771	119.104	133.918	73.762	1.00	0.80	N
ATOM	14096	CA	ASP	A1771	118.126	134.020	72.679	1.00	0.80	C
ATOM	14097	C	ASP	A1771	118.545	135.036	71.586	1.00	0.80	C
ATOM	14098	O	ASP	A1771	118.473	134.774	70.384	1.00	0.80	O
ATOM	14099	CB	ASP	A1771	116.753	134.379	73.350	1.00	0.80	C
ATOM	14100	CG	ASP	A1771	115.502	133.650	72.863	1.00	0.80	C
ATOM	14101	OD1	ASP	A1771	115.562	132.739	72.001	1.00	0.80	O
ATOM	14102	OD2	ASP	A1771	114.425	133.962	73.451	1.00	0.80	O
ATOM	14103	N	ILE	A1772	119.073	136.228	71.970	1.00	0.77	N
ATOM	14104	CA	ILE	A1772	119.458	137.272	71.010	1.00	0.77	C
ATOM	14105	C	ILE	A1772	120.932	137.234	70.599	1.00	0.77	C
ATOM	14106	O	ILE	A1772	121.385	138.060	69.797	1.00	0.77	O
ATOM	14107	CB	ILE	A1772	119.121	138.694	71.475	1.00	0.77	C
ATOM	14108	CG1	ILE	A1772	119.907	139.132	72.735	1.00	0.77	C
ATOM	14109	CG2	ILE	A1772	117.594	138.780	71.687	1.00	0.77	C
ATOM	14110	CD1	ILE	A1772	119.790	140.627	73.054	1.00	0.77	C
ATOM	14111	N	ASN	A1773	121.698	136.240	71.099	1.00	0.77	N
ATOM	14112	CA	ASN	A1773	123.105	135.984	70.801	1.00	0.77	C
ATOM	14113	C	ASN	A1773	124.089	137.097	71.196	1.00	0.77	C
ATOM	14114	O	ASN	A1773	124.749	137.691	70.342	1.00	0.77	O
ATOM	14115	CB	ASN	A1773	123.355	135.564	69.321	1.00	0.77	C
ATOM	14116	CG	ASN	A1773	122.651	134.260	68.959	1.00	0.77	C
ATOM	14117	OD1	ASN	A1773	123.276	133.201	68.938	1.00	0.77	O
ATOM	14118	ND2	ASN	A1773	121.345	134.324	68.617	1.00	0.77	N
ATOM	14119	N	VAL	A1774	124.212	137.425	72.505	1.00	0.80	N
ATOM	14120	CA	VAL	A1774	125.128	138.467	72.982	1.00	0.80	C
ATOM	14121	C	VAL	A1774	126.074	137.963	74.077	1.00	0.80	C
ATOM	14122	O	VAL	A1774	125.675	137.286	75.022	1.00	0.80	O
ATOM	14123	CB	VAL	A1774	124.395	139.730	73.440	1.00	0.80	C
ATOM	14124	CG1	VAL	A1774	125.403	140.790	73.927	1.00	0.80	C
ATOM	14125	CG2	VAL	A1774	123.585	140.288	72.249	1.00	0.80	C
ATOM	14126	N	ASN	A1775	127.387	138.290	73.966	1.00	0.75	N
ATOM	14127	CA	ASN	A1775	128.435	137.877	74.889	1.00	0.75	C
ATOM	14128	C	ASN	A1775	128.508	138.779	76.142	1.00	0.75	C
ATOM	14129	O	ASN	A1775	128.019	139.905	76.167	1.00	0.75	O
ATOM	14130	CB	ASN	A1775	129.780	137.849	74.095	1.00	0.75	C
ATOM	14131	CG	ASN	A1775	130.894	137.064	74.780	1.00	0.75	C
ATOM	14132	OD1	ASN	A1775	130.744	136.505	75.865	1.00	0.75	O
ATOM	14133	ND2	ASN	A1775	132.083	137.025	74.136	1.00	0.75	N
ATOM	14134	N	ASN	A1776	129.141	138.298	77.233	1.00	0.79	N
ATOM	14135	CA	ASN	A1776	129.189	138.982	78.519	1.00	0.79	C
ATOM	14136	C	ASN	A1776	130.579	138.817	79.142	1.00	0.79	C
ATOM	14137	O	ASN	A1776	130.748	138.643	80.349	1.00	0.79	O
ATOM	14138	CB	ASN	A1776	128.059	138.433	79.436	1.00	0.79	C
ATOM	14139	CG	ASN	A1776	127.594	139.492	80.430	1.00	0.79	C
ATOM	14140	OD1	ASN	A1776	128.322	140.385	80.855	1.00	0.79	O
ATOM	14141	ND2	ASN	A1776	126.302	139.415	80.822	1.00	0.79	N
ATOM	14142	N	ARG	A1777	131.616	138.841	78.278	1.00	0.69	N
ATOM	14143	CA	ARG	A1777	133.011	138.655	78.649	1.00	0.69	C
ATOM	14144	C	ARG	A1777	133.828	139.950	78.624	1.00	0.69	C
ATOM	14145	O	ARG	A1777	134.859	140.056	79.288	1.00	0.69	O
ATOM	14146	CB	ARG	A1777	133.619	137.636	77.634	1.00	0.69	C
ATOM	14147	CG	ARG	A1777	135.159	137.572	77.475	1.00	0.69	C
ATOM	14148	CD	ARG	A1777	135.944	137.169	78.731	1.00	0.69	C
ATOM	14149	NE	ARG	A1777	137.403	137.357	78.403	1.00	0.69	N
ATOM	14150	CZ	ARG	A1777	138.080	138.506	78.552	1.00	0.69	C
ATOM	14151	NH1	ARG	A1777	139.368	138.550	78.210	1.00	0.69	N
ATOM	14152	NH2	ARG	A1777	137.521	139.616	79.019	1.00	0.69	N
ATOM	14153	N	VAL	A1778	133.423	140.981	77.860	1.00	0.76	N
ATOM	14154	CA	VAL	A1778	134.216	142.201	77.705	1.00	0.76	C
ATOM	14155	C	VAL	A1778	133.905	143.175	78.843	1.00	0.76	C
ATOM	14156	O	VAL	A1778	132.809	143.184	79.398	1.00	0.76	O
ATOM	14157	CB	VAL	A1778	134.065	142.812	76.304	1.00	0.76	C
ATOM	14158	CG1	VAL	A1778	134.938	144.070	76.103	1.00	0.76	C
ATOM	14159	CG2	VAL	A1778	134.481	141.761	75.251	1.00	0.76	C

ATOM	14160	N	THR	A1779	134.901	143.982	79.267	1.00	0.75	N
ATOM	14161	CA	THR	A1779	134.775	144.986	80.318	1.00	0.75	C
ATOM	14162	C	THR	A1779	134.102	146.249	79.798	1.00	0.75	C
ATOM	14163	O	THR	A1779	134.027	146.469	78.593	1.00	0.75	O
ATOM	14164	CB	THR	A1779	136.124	145.359	80.934	1.00	0.75	C
ATOM	14165	OG1	THR	A1779	137.064	145.755	79.942	1.00	0.75	O
ATOM	14166	CG2	THR	A1779	136.730	144.126	81.617	1.00	0.75	C
ATOM	14167	N	SER	A1780	133.581	147.125	80.687	1.00	0.78	N
ATOM	14168	CA	SER	A1780	132.886	148.336	80.246	1.00	0.78	C
ATOM	14169	C	SER	A1780	133.355	149.558	81.010	1.00	0.78	C
ATOM	14170	O	SER	A1780	133.954	149.471	82.083	1.00	0.78	O
ATOM	14171	CB	SER	A1780	131.328	148.247	80.308	1.00	0.78	C
ATOM	14172	OG	SER	A1780	130.786	148.294	81.633	1.00	0.78	O
ATOM	14173	N	SER	A1781	133.099	150.764	80.459	1.00	0.76	N
ATOM	14174	CA	SER	A1781	133.490	152.015	81.093	1.00	0.76	C
ATOM	14175	C	SER	A1781	132.419	152.462	82.074	1.00	0.76	C
ATOM	14176	O	SER	A1781	131.237	152.528	81.760	1.00	0.76	O
ATOM	14177	CB	SER	A1781	133.755	153.152	80.074	1.00	0.76	C
ATOM	14178	OG	SER	A1781	134.434	154.249	80.692	1.00	0.76	O
ATOM	14179	N	PHE	A1782	132.799	152.737	83.333	1.00	0.64	N
ATOM	14180	CA	PHE	A1782	131.869	153.069	84.393	1.00	0.64	C
ATOM	14181	C	PHE	A1782	131.197	154.444	84.276	1.00	0.64	C
ATOM	14182	O	PHE	A1782	131.852	155.480	84.211	1.00	0.64	O
ATOM	14183	CB	PHE	A1782	132.638	152.940	85.734	1.00	0.64	C
ATOM	14184	CG	PHE	A1782	131.811	153.136	86.978	1.00	0.64	C
ATOM	14185	CD1	PHE	A1782	130.500	152.640	87.105	1.00	0.64	C
ATOM	14186	CD2	PHE	A1782	132.380	153.825	88.060	1.00	0.64	C
ATOM	14187	CE1	PHE	A1782	129.795	152.802	88.303	1.00	0.64	C
ATOM	14188	CE2	PHE	A1782	131.653	154.047	89.233	1.00	0.64	C
ATOM	14189	CZ	PHE	A1782	130.369	153.511	89.363	1.00	0.64	C
ATOM	14190	N	ARG	A1783	129.846	154.470	84.297	1.00	0.56	N
ATOM	14191	CA	ARG	A1783	129.072	155.677	84.071	1.00	0.56	C
ATOM	14192	C	ARG	A1783	128.404	156.308	85.296	1.00	0.56	C
ATOM	14193	O	ARG	A1783	127.560	157.193	85.152	1.00	0.56	O
ATOM	14194	CB	ARG	A1783	127.928	155.344	83.089	1.00	0.56	C
ATOM	14195	CG	ARG	A1783	126.815	154.457	83.687	1.00	0.56	C
ATOM	14196	CD	ARG	A1783	125.553	154.476	82.834	1.00	0.56	C
ATOM	14197	NE	ARG	A1783	124.589	153.555	83.535	1.00	0.56	N
ATOM	14198	CZ	ARG	A1783	123.661	152.828	82.905	1.00	0.56	C
ATOM	14199	NH1	ARG	A1783	122.953	151.924	83.575	1.00	0.56	N
ATOM	14200	NH2	ARG	A1783	123.465	152.920	81.598	1.00	0.56	N
ATOM	14201	N	GLY	A1784	128.683	155.860	86.539	1.00	0.69	N
ATOM	14202	CA	GLY	A1784	128.027	156.437	87.718	1.00	0.69	C
ATOM	14203	C	GLY	A1784	127.399	155.430	88.633	1.00	0.69	C
ATOM	14204	O	GLY	A1784	126.823	154.442	88.175	1.00	0.69	O
ATOM	14205	N	HIS	A1785	127.492	155.710	89.952	1.00	0.67	N
ATOM	14206	CA	HIS	A1785	127.182	154.882	91.119	1.00	0.67	C
ATOM	14207	C	HIS	A1785	126.292	153.657	90.936	1.00	0.67	C
ATOM	14208	O	HIS	A1785	125.103	153.790	90.667	1.00	0.67	O
ATOM	14209	CB	HIS	A1785	126.606	155.756	92.264	1.00	0.67	C
ATOM	14210	CG	HIS	A1785	126.714	155.112	93.607	1.00	0.67	C
ATOM	14211	ND1	HIS	A1785	127.964	154.741	94.051	1.00	0.67	N
ATOM	14212	CD2	HIS	A1785	125.765	154.762	94.512	1.00	0.67	C
ATOM	14213	CE1	HIS	A1785	127.758	154.163	95.217	1.00	0.67	C
ATOM	14214	NE2	HIS	A1785	126.443	154.152	95.547	1.00	0.67	N
ATOM	14215	N	CYS	A1786	126.836	152.435	91.117	1.00	0.74	N
ATOM	14216	CA	CYS	A1786	126.114	151.189	90.914	1.00	0.74	C
ATOM	14217	C	CYS	A1786	126.108	150.373	92.184	1.00	0.74	C
ATOM	14218	O	CYS	A1786	126.981	150.510	93.034	1.00	0.74	O
ATOM	14219	CB	CYS	A1786	126.678	150.324	89.744	1.00	0.74	C
ATOM	14220	SG	CYS	A1786	128.429	149.807	89.914	1.00	0.74	S
ATOM	14221	N	MET	A1787	125.093	149.501	92.347	1.00	0.67	N
ATOM	14222	CA	MET	A1787	125.023	148.590	93.472	1.00	0.67	C
ATOM	14223	C	MET	A1787	126.096	147.507	93.423	1.00	0.67	C
ATOM	14224	O	MET	A1787	126.841	147.294	94.375	1.00	0.67	O

ATOM	14225	CB	MET	A1787	123.615	147.953	93.451	1.00	0.67	C
ATOM	14226	CG	MET	A1787	123.401	146.802	94.450	1.00	0.67	C
ATOM	14227	SD	MET	A1787	121.658	146.371	94.709	1.00	0.67	S
ATOM	14228	CE	MET	A1787	121.194	146.020	93.002	1.00	0.67	C
ATOM	14229	N	VAL	A1788	126.229	146.839	92.263	1.00	0.77	N
ATOM	14230	CA	VAL	A1788	127.206	145.794	92.021	1.00	0.77	C
ATOM	14231	C	VAL	A1788	127.453	145.788	90.526	1.00	0.77	C
ATOM	14232	O	VAL	A1788	126.856	146.546	89.757	1.00	0.77	O
ATOM	14233	CB	VAL	A1788	126.841	144.366	92.490	1.00	0.77	C
ATOM	14234	CG1	VAL	A1788	126.776	144.275	94.027	1.00	0.77	C
ATOM	14235	CG2	VAL	A1788	125.526	143.867	91.859	1.00	0.77	C
ATOM	14236	N	ARG	A1789	128.382	144.944	90.068	1.00	0.71	N
ATOM	14237	CA	ARG	A1789	128.698	144.753	88.677	1.00	0.71	C
ATOM	14238	C	ARG	A1789	128.618	143.275	88.387	1.00	0.71	C
ATOM	14239	O	ARG	A1789	128.473	142.457	89.291	1.00	0.71	O
ATOM	14240	CB	ARG	A1789	130.121	145.264	88.343	1.00	0.71	C
ATOM	14241	CG	ARG	A1789	130.383	146.705	88.808	1.00	0.71	C
ATOM	14242	CD	ARG	A1789	131.796	147.187	88.490	1.00	0.71	C
ATOM	14243	NE	ARG	A1789	131.859	147.467	87.015	1.00	0.71	N
ATOM	14244	CZ	ARG	A1789	131.882	148.681	86.450	1.00	0.71	C
ATOM	14245	NH1	ARG	A1789	131.975	148.762	85.125	1.00	0.71	N
ATOM	14246	NH2	ARG	A1789	131.816	149.784	87.185	1.00	0.71	N
ATOM	14247	N	LEU	A1790	128.698	142.885	87.110	1.00	0.77	N
ATOM	14248	CA	LEU	A1790	128.625	141.496	86.733	1.00	0.77	C
ATOM	14249	C	LEU	A1790	129.560	141.186	85.590	1.00	0.77	C
ATOM	14250	O	LEU	A1790	129.842	142.012	84.730	1.00	0.77	O
ATOM	14251	CB	LEU	A1790	127.166	141.043	86.453	1.00	0.77	C
ATOM	14252	CG	LEU	A1790	126.401	141.790	85.337	1.00	0.77	C
ATOM	14253	CD1	LEU	A1790	126.551	141.138	83.952	1.00	0.77	C
ATOM	14254	CD2	LEU	A1790	124.911	141.893	85.698	1.00	0.77	C
ATOM	14255	N	SER	A1791	130.125	139.972	85.607	1.00	0.81	N
ATOM	14256	CA	SER	A1791	131.103	139.510	84.635	1.00	0.81	C
ATOM	14257	C	SER	A1791	130.826	138.039	84.439	1.00	0.81	C
ATOM	14258	O	SER	A1791	130.752	137.305	85.421	1.00	0.81	O
ATOM	14259	CB	SER	A1791	132.524	139.706	85.219	1.00	0.81	C
ATOM	14260	OG	SER	A1791	133.589	139.219	84.405	1.00	0.81	O
ATOM	14261	N	ASN	A1792	130.593	137.566	83.190	1.00	0.78	N
ATOM	14262	CA	ASN	A1792	130.238	136.178	82.878	1.00	0.78	C
ATOM	14263	C	ASN	A1792	129.017	135.633	83.639	1.00	0.78	C
ATOM	14264	O	ASN	A1792	128.956	134.453	83.981	1.00	0.78	O
ATOM	14265	CB	ASN	A1792	131.430	135.199	83.068	1.00	0.78	C
ATOM	14266	CG	ASN	A1792	132.654	135.684	82.301	1.00	0.78	C
ATOM	14267	OD1	ASN	A1792	132.715	135.642	81.072	1.00	0.78	O
ATOM	14268	ND2	ASN	A1792	133.685	136.155	83.039	1.00	0.78	N
ATOM	14269	N	PHE	A1793	128.017	136.499	83.922	1.00	0.78	N
ATOM	14270	CA	PHE	A1793	126.850	136.206	84.754	1.00	0.78	C
ATOM	14271	C	PHE	A1793	127.180	135.814	86.205	1.00	0.78	C
ATOM	14272	O	PHE	A1793	126.503	134.993	86.821	1.00	0.78	O
ATOM	14273	CB	PHE	A1793	125.876	135.185	84.100	1.00	0.78	C
ATOM	14274	CG	PHE	A1793	125.471	135.652	82.726	1.00	0.78	C
ATOM	14275	CD1	PHE	A1793	124.486	136.641	82.564	1.00	0.78	C
ATOM	14276	CD2	PHE	A1793	126.078	135.105	81.583	1.00	0.78	C
ATOM	14277	CE1	PHE	A1793	124.114	137.075	81.284	1.00	0.78	C
ATOM	14278	CE2	PHE	A1793	125.694	135.518	80.302	1.00	0.78	C
ATOM	14279	CZ	PHE	A1793	124.710	136.503	80.151	1.00	0.78	C
ATOM	14280	N	LYS	A1794	128.212	136.452	86.795	1.00	0.75	N
ATOM	14281	CA	LYS	A1794	128.656	136.264	88.166	1.00	0.75	C
ATOM	14282	C	LYS	A1794	128.774	137.647	88.791	1.00	0.75	C
ATOM	14283	O	LYS	A1794	128.768	138.648	88.079	1.00	0.75	O
ATOM	14284	CB	LYS	A1794	130.048	135.585	88.258	1.00	0.75	C
ATOM	14285	CG	LYS	A1794	130.250	134.315	87.411	1.00	0.75	C
ATOM	14286	CD	LYS	A1794	129.372	133.105	87.778	1.00	0.75	C
ATOM	14287	CE	LYS	A1794	129.628	131.939	86.811	1.00	0.75	C
ATOM	14288	NZ	LYS	A1794	128.694	130.823	87.047	1.00	0.75	N
ATOM	14289	N	VAL	A1795	128.866	137.753	90.132	1.00	0.76	N

ATOM	14290	CA	VAL	A1795	128.723	139.025	90.840	1.00	0.76	C
ATOM	14291	C	VAL	A1795	130.077	139.664	91.120	1.00	0.76	C
ATOM	14292	O	VAL	A1795	131.007	139.021	91.604	1.00	0.76	O
ATOM	14293	CB	VAL	A1795	127.950	138.841	92.147	1.00	0.76	C
ATOM	14294	CG1	VAL	A1795	127.885	140.132	92.992	1.00	0.76	C
ATOM	14295	CG2	VAL	A1795	126.519	138.374	91.818	1.00	0.76	C
ATOM	14296	N	LYS	A1796	130.224	140.970	90.807	1.00	0.70	N
ATOM	14297	CA	LYS	A1796	131.451	141.719	90.991	1.00	0.70	C
ATOM	14298	C	LYS	A1796	131.228	142.992	91.801	1.00	0.70	C
ATOM	14299	O	LYS	A1796	130.184	143.627	91.663	1.00	0.70	O
ATOM	14300	CB	LYS	A1796	132.090	142.065	89.612	1.00	0.70	C
ATOM	14301	CG	LYS	A1796	132.504	140.831	88.790	1.00	0.70	C
ATOM	14302	CD	LYS	A1796	133.555	140.009	89.544	1.00	0.70	C
ATOM	14303	CE	LYS	A1796	133.851	138.614	89.010	1.00	0.70	C
ATOM	14304	NZ	LYS	A1796	134.473	137.873	90.127	1.00	0.70	N
ATOM	14305	N	PRO	A1797	132.134	143.428	92.676	1.00	0.73	N
ATOM	14306	CA	PRO	A1797	131.942	144.639	93.465	1.00	0.73	C
ATOM	14307	C	PRO	A1797	132.067	145.901	92.631	1.00	0.73	C
ATOM	14308	O	PRO	A1797	132.755	145.919	91.608	1.00	0.73	O
ATOM	14309	CB	PRO	A1797	133.061	144.570	94.519	1.00	0.73	C
ATOM	14310	CG	PRO	A1797	134.165	143.758	93.844	1.00	0.73	C
ATOM	14311	CD	PRO	A1797	133.389	142.746	93.006	1.00	0.73	C
ATOM	14312	N	ALA	A1798	131.425	147.000	93.077	1.00	0.73	N
ATOM	14313	CA	ALA	A1798	131.494	148.297	92.435	1.00	0.73	C
ATOM	14314	C	ALA	A1798	132.915	148.853	92.337	1.00	0.73	C
ATOM	14315	O	ALA	A1798	133.326	149.344	91.286	1.00	0.73	O
ATOM	14316	CB	ALA	A1798	130.590	149.282	93.199	1.00	0.73	C
ATOM	14317	N	SER	A1799	133.715	148.705	93.418	1.00	0.69	N
ATOM	14318	CA	SER	A1799	135.072	149.230	93.539	1.00	0.69	C
ATOM	14319	C	SER	A1799	136.115	148.533	92.686	1.00	0.69	C
ATOM	14320	O	SER	A1799	137.189	149.075	92.461	1.00	0.69	O
ATOM	14321	CB	SER	A1799	135.579	149.242	95.018	1.00	0.69	C
ATOM	14322	OG	SER	A1799	135.641	147.941	95.624	1.00	0.69	O
ATOM	14323	N	ARG	A1800	135.843	147.316	92.170	1.00	0.60	N
ATOM	14324	CA	ARG	A1800	136.757	146.660	91.245	1.00	0.60	C
ATOM	14325	C	ARG	A1800	136.764	147.267	89.850	1.00	0.60	C
ATOM	14326	O	ARG	A1800	137.797	147.311	89.190	1.00	0.60	O
ATOM	14327	CB	ARG	A1800	136.461	145.141	91.155	1.00	0.60	C
ATOM	14328	CG	ARG	A1800	137.421	144.376	90.219	1.00	0.60	C
ATOM	14329	CD	ARG	A1800	137.298	142.840	90.219	1.00	0.60	C
ATOM	14330	NE	ARG	A1800	137.578	142.277	91.581	1.00	0.60	N
ATOM	14331	CZ	ARG	A1800	138.791	142.190	92.140	1.00	0.60	C
ATOM	14332	NH1	ARG	A1800	138.927	141.465	93.245	1.00	0.60	N
ATOM	14333	NH2	ARG	A1800	139.858	142.789	91.626	1.00	0.60	N
ATOM	14334	N	VAL	A1801	135.587	147.716	89.367	1.00	0.61	N
ATOM	14335	CA	VAL	A1801	135.399	148.224	88.012	1.00	0.61	C
ATOM	14336	C	VAL	A1801	135.731	147.191	86.917	1.00	0.61	C
ATOM	14337	O	VAL	A1801	136.395	147.464	85.923	1.00	0.61	O
ATOM	14338	CB	VAL	A1801	136.002	149.618	87.794	1.00	0.61	C
ATOM	14339	CG1	VAL	A1801	135.414	150.273	86.527	1.00	0.61	C
ATOM	14340	CG2	VAL	A1801	135.674	150.521	89.006	1.00	0.61	C
ATOM	14341	N	GLU	A1802	135.242	145.937	87.077	1.00	0.65	N
ATOM	14342	CA	GLU	A1802	135.491	144.868	86.113	1.00	0.65	C
ATOM	14343	C	GLU	A1802	134.469	144.885	84.970	1.00	0.65	C
ATOM	14344	O	GLU	A1802	134.568	145.648	84.011	1.00	0.65	O
ATOM	14345	CB	GLU	A1802	135.528	143.485	86.839	1.00	0.65	C
ATOM	14346	CG	GLU	A1802	136.058	142.293	85.993	1.00	0.65	C
ATOM	14347	CD	GLU	A1802	136.039	140.961	86.747	1.00	0.65	C
ATOM	14348	OE1	GLU	A1802	135.416	140.000	86.224	1.00	0.65	O
ATOM	14349	OE2	GLU	A1802	136.645	140.878	87.846	1.00	0.65	O
ATOM	14350	N	GLY	A1803	133.433	144.026	85.040	1.00	0.78	N
ATOM	14351	CA	GLY	A1803	132.400	143.916	84.018	1.00	0.78	C
ATOM	14352	C	GLY	A1803	131.312	144.961	84.079	1.00	0.78	C
ATOM	14353	O	GLY	A1803	131.456	146.025	84.680	1.00	0.78	O
ATOM	14354	N	CYS	A1804	130.168	144.645	83.453	1.00	0.82	N



ATOM	14355	CA	CYS	A1804	128.970	145.461	83.321	1.00	0.82	C
ATOM	14356	C	CYS	A1804	128.389	145.941	84.667	1.00	0.82	C
ATOM	14357	O	CYS	A1804	128.262	145.127	85.579	1.00	0.82	O
ATOM	14358	CB	CYS	A1804	127.933	144.594	82.543	1.00	0.82	C
ATOM	14359	SG	CYS	A1804	126.215	145.202	82.470	1.00	0.82	S
ATOM	14360	N	PRO	A1805	128.006	147.200	84.881	1.00	0.83	N
ATOM	14361	CA	PRO	A1805	127.442	147.641	86.151	1.00	0.83	C
ATOM	14362	C	PRO	A1805	125.918	147.598	86.129	1.00	0.83	C
ATOM	14363	O	PRO	A1805	125.278	148.258	85.308	1.00	0.83	O
ATOM	14364	CB	PRO	A1805	127.972	149.079	86.298	1.00	0.83	C
ATOM	14365	CG	PRO	A1805	128.115	149.587	84.862	1.00	0.83	C
ATOM	14366	CD	PRO	A1805	128.477	148.326	84.074	1.00	0.83	C
ATOM	14367	N	VAL	A1806	125.288	146.853	87.065	1.00	0.85	N
ATOM	14368	CA	VAL	A1806	123.842	146.896	87.225	1.00	0.85	C
ATOM	14369	C	VAL	A1806	123.468	148.103	88.076	1.00	0.85	C
ATOM	14370	O	VAL	A1806	123.745	148.209	89.273	1.00	0.85	O
ATOM	14371	CB	VAL	A1806	123.225	145.579	87.705	1.00	0.85	C
ATOM	14372	CG1	VAL	A1806	123.708	145.146	89.103	1.00	0.85	C
ATOM	14373	CG2	VAL	A1806	121.688	145.667	87.654	1.00	0.85	C
ATOM	14374	N	ARG	A1807	122.861	149.116	87.429	1.00	0.69	N
ATOM	14375	CA	ARG	A1807	122.666	150.402	88.055	1.00	0.69	C
ATOM	14376	C	ARG	A1807	121.196	150.706	88.189	1.00	0.69	C
ATOM	14377	O	ARG	A1807	120.558	151.289	87.310	1.00	0.69	O
ATOM	14378	CB	ARG	A1807	123.424	151.492	87.266	1.00	0.69	C
ATOM	14379	CG	ARG	A1807	123.829	152.701	88.126	1.00	0.69	C
ATOM	14380	CD	ARG	A1807	122.815	153.833	88.351	1.00	0.69	C
ATOM	14381	NE	ARG	A1807	122.419	154.416	87.025	1.00	0.69	N
ATOM	14382	CZ	ARG	A1807	123.175	155.241	86.287	1.00	0.69	C
ATOM	14383	NH1	ARG	A1807	122.593	155.915	85.295	1.00	0.69	N
ATOM	14384	NH2	ARG	A1807	124.477	155.413	86.494	1.00	0.69	N
ATOM	14385	N	LEU	A1808	120.629	150.294	89.335	1.00	0.76	N
ATOM	14386	CA	LEU	A1808	119.265	150.559	89.733	1.00	0.76	C
ATOM	14387	C	LEU	A1808	118.993	152.035	89.916	1.00	0.76	C
ATOM	14388	O	LEU	A1808	119.811	152.767	90.464	1.00	0.76	O
ATOM	14389	CB	LEU	A1808	118.908	149.811	91.040	1.00	0.76	C
ATOM	14390	CG	LEU	A1808	118.485	148.348	90.820	1.00	0.76	C
ATOM	14391	CD1	LEU	A1808	119.559	147.479	90.151	1.00	0.76	C
ATOM	14392	CD2	LEU	A1808	118.028	147.717	92.134	1.00	0.76	C
ATOM	14393	N	MET	A1809	117.822	152.489	89.445	1.00	0.70	N
ATOM	14394	CA	MET	A1809	117.288	153.795	89.755	1.00	0.70	C
ATOM	14395	C	MET	A1809	115.786	153.535	89.760	1.00	0.70	C
ATOM	14396	O	MET	A1809	115.320	152.951	88.778	1.00	0.70	O
ATOM	14397	CB	MET	A1809	117.627	154.881	88.686	1.00	0.70	C
ATOM	14398	CG	MET	A1809	119.136	155.108	88.435	1.00	0.70	C
ATOM	14399	SD	MET	A1809	119.540	156.232	87.057	1.00	0.70	S
ATOM	14400	CE	MET	A1809	119.140	155.091	85.702	1.00	0.70	C
ATOM	14401	N	PRO	A1810	114.957	153.875	90.741	1.00	0.82	N
ATOM	14402	CA	PRO	A1810	113.523	153.568	90.712	1.00	0.82	C
ATOM	14403	C	PRO	A1810	112.757	154.204	89.561	1.00	0.82	C
ATOM	14404	O	PRO	A1810	111.681	153.730	89.193	1.00	0.82	O
ATOM	14405	CB	PRO	A1810	113.036	154.047	92.085	1.00	0.82	C
ATOM	14406	CG	PRO	A1810	114.232	153.752	92.993	1.00	0.82	C
ATOM	14407	CD	PRO	A1810	115.420	154.128	92.108	1.00	0.82	C
ATOM	14408	N	SER	A1811	113.266	155.314	89.007	1.00	0.80	N
ATOM	14409	CA	SER	A1811	112.701	156.067	87.898	1.00	0.80	C
ATOM	14410	C	SER	A1811	113.492	155.873	86.615	1.00	0.80	C
ATOM	14411	O	SER	A1811	113.380	156.665	85.686	1.00	0.80	O
ATOM	14412	CB	SER	A1811	112.655	157.581	88.237	1.00	0.80	C
ATOM	14413	OG	SER	A1811	113.913	158.006	88.762	1.00	0.80	O
ATOM	14414	N	SER	A1812	114.281	154.780	86.516	1.00	0.85	N
ATOM	14415	CA	SER	A1812	115.193	154.489	85.411	1.00	0.85	C
ATOM	14416	C	SER	A1812	114.589	154.449	84.025	1.00	0.85	C
ATOM	14417	O	SER	A1812	115.162	154.964	83.065	1.00	0.85	O
ATOM	14418	CB	SER	A1812	115.873	153.098	85.611	1.00	0.85	C
ATOM	14419	OG	SER	A1812	114.929	152.040	85.807	1.00	0.85	O

ATOM	14420	N	PHE	A1813	113.436	153.788	83.904	1.00	0.83	N
ATOM	14421	CA	PHE	A1813	112.727	153.606	82.674	1.00	0.83	C
ATOM	14422	C	PHE	A1813	111.292	153.303	83.080	1.00	0.83	C
ATOM	14423	O	PHE	A1813	111.043	152.464	83.942	1.00	0.83	O
ATOM	14424	CB	PHE	A1813	113.405	152.457	81.885	1.00	0.83	C
ATOM	14425	CG	PHE	A1813	112.731	152.175	80.583	1.00	0.83	C
ATOM	14426	CD1	PHE	A1813	112.872	153.035	79.482	1.00	0.83	C
ATOM	14427	CD2	PHE	A1813	111.943	151.026	80.461	1.00	0.83	C
ATOM	14428	CE1	PHE	A1813	112.250	152.729	78.263	1.00	0.83	C
ATOM	14429	CE2	PHE	A1813	111.281	150.742	79.264	1.00	0.83	C
ATOM	14430	CZ	PHE	A1813	111.447	151.584	78.159	1.00	0.83	C
ATOM	14431	N	ARG	A1814	110.300	154.018	82.513	1.00	0.67	N
ATOM	14432	CA	ARG	A1814	108.911	153.839	82.902	1.00	0.67	C
ATOM	14433	C	ARG	A1814	107.986	153.993	81.703	1.00	0.67	C
ATOM	14434	O	ARG	A1814	107.064	154.804	81.703	1.00	0.67	O
ATOM	14435	CB	ARG	A1814	108.456	154.793	84.046	1.00	0.67	C
ATOM	14436	CG	ARG	A1814	109.134	154.534	85.411	1.00	0.67	C
ATOM	14437	CD	ARG	A1814	108.418	155.249	86.559	1.00	0.67	C
ATOM	14438	NE	ARG	A1814	109.133	154.923	87.837	1.00	0.67	N
ATOM	14439	CZ	ARG	A1814	108.788	155.419	89.033	1.00	0.67	C
ATOM	14440	NH1	ARG	A1814	107.774	156.265	89.177	1.00	0.67	N
ATOM	14441	NH2	ARG	A1814	109.482	155.054	90.105	1.00	0.67	N
ATOM	14442	N	ILE	A1815	108.204	153.189	80.649	1.00	0.75	N
ATOM	14443	CA	ILE	A1815	107.360	153.163	79.464	1.00	0.75	C
ATOM	14444	C	ILE	A1815	107.407	151.728	78.953	1.00	0.75	C
ATOM	14445	O	ILE	A1815	107.979	150.866	79.614	1.00	0.75	O
ATOM	14446	CB	ILE	A1815	107.724	154.258	78.442	1.00	0.75	C
ATOM	14447	CG1	ILE	A1815	106.694	154.512	77.307	1.00	0.75	C
ATOM	14448	CG2	ILE	A1815	109.134	154.022	77.868	1.00	0.75	C
ATOM	14449	CD1	ILE	A1815	105.265	154.787	77.791	1.00	0.75	C
ATOM	14450	N	LYS	A1816	106.738	151.405	77.834	1.00	0.73	N
ATOM	14451	CA	LYS	A1816	106.661	150.073	77.271	1.00	0.73	C
ATOM	14452	C	LYS	A1816	106.575	150.261	75.765	1.00	0.73	C
ATOM	14453	O	LYS	A1816	106.268	151.360	75.303	1.00	0.73	O
ATOM	14454	CB	LYS	A1816	105.408	149.310	77.784	1.00	0.73	C
ATOM	14455	CG	LYS	A1816	104.097	150.039	77.463	1.00	0.73	C
ATOM	14456	CD	LYS	A1816	102.822	149.262	77.792	1.00	0.73	C
ATOM	14457	CE	LYS	A1816	101.627	150.016	77.213	1.00	0.73	C
ATOM	14458	NZ	LYS	A1816	100.394	149.250	77.444	1.00	0.73	N
ATOM	14459	N	GLU	A1817	106.845	149.221	74.954	1.00	0.67	N
ATOM	14460	CA	GLU	A1817	107.162	149.420	73.548	1.00	0.67	C
ATOM	14461	C	GLU	A1817	106.029	149.177	72.560	1.00	0.67	C
ATOM	14462	O	GLU	A1817	106.203	149.401	71.367	1.00	0.67	O
ATOM	14463	CB	GLU	A1817	108.338	148.491	73.156	1.00	0.67	C
ATOM	14464	CG	GLU	A1817	109.550	148.590	74.122	1.00	0.67	C
ATOM	14465	CD	GLU	A1817	109.378	147.811	75.424	1.00	0.67	C
ATOM	14466	OE1	GLU	A1817	108.481	146.928	75.482	1.00	0.67	O
ATOM	14467	OE2	GLU	A1817	110.120	148.133	76.381	1.00	0.67	O
ATOM	14468	N	LEU	A1818	104.833	148.745	73.025	1.00	0.73	N
ATOM	14469	CA	LEU	A1818	103.633	148.592	72.194	1.00	0.73	C
ATOM	14470	C	LEU	A1818	103.798	147.613	71.018	1.00	0.73	C
ATOM	14471	O	LEU	A1818	103.511	147.927	69.866	1.00	0.73	O
ATOM	14472	CB	LEU	A1818	103.033	149.950	71.704	1.00	0.73	C
ATOM	14473	CG	LEU	A1818	102.339	150.843	72.764	1.00	0.73	C
ATOM	14474	CD1	LEU	A1818	103.304	151.474	73.776	1.00	0.73	C
ATOM	14475	CD2	LEU	A1818	101.566	151.972	72.064	1.00	0.73	C
ATOM	14476	N	GLN	A1819	104.274	146.381	71.299	1.00	0.75	N
ATOM	14477	CA	GLN	A1819	104.508	145.345	70.300	1.00	0.75	C
ATOM	14478	C	GLN	A1819	103.267	144.909	69.516	1.00	0.75	C
ATOM	14479	O	GLN	A1819	102.173	144.790	70.065	1.00	0.75	O
ATOM	14480	CB	GLN	A1819	105.139	144.105	70.985	1.00	0.75	C
ATOM	14481	CG	GLN	A1819	105.733	143.041	70.027	1.00	0.75	C
ATOM	14482	CD	GLN	A1819	106.946	143.568	69.258	1.00	0.75	C
ATOM	14483	OE1	GLN	A1819	107.737	144.338	69.808	1.00	0.75	O
ATOM	14484	NE2	GLN	A1819	107.121	143.150	67.983	1.00	0.75	N

ATOM	14485	N	ASN	A1820	103.405	144.657	68.194	1.00	0.69	N
ATOM	14486	CA	ASN	A1820	102.297	144.217	67.367	1.00	0.69	C
ATOM	14487	C	ASN	A1820	101.840	142.776	67.701	1.00	0.69	C
ATOM	14488	O	ASN	A1820	102.708	141.931	67.926	1.00	0.69	O
ATOM	14489	CB	ASN	A1820	102.654	144.374	65.863	1.00	0.69	C
ATOM	14490	CG	ASN	A1820	101.444	144.836	65.051	1.00	0.69	C
ATOM	14491	OD1	ASN	A1820	100.520	145.472	65.564	1.00	0.69	O
ATOM	14492	ND2	ASN	A1820	101.443	144.531	63.740	1.00	0.69	N
ATOM	14493	N	PRO	A1821	100.555	142.396	67.774	1.00	0.64	N
ATOM	14494	CA	PRO	A1821	100.200	141.060	68.270	1.00	0.64	C
ATOM	14495	C	PRO	A1821	100.208	139.981	67.198	1.00	0.64	C
ATOM	14496	O	PRO	A1821	100.057	138.810	67.538	1.00	0.64	O
ATOM	14497	CB	PRO	A1821	98.770	141.229	68.826	1.00	0.64	C
ATOM	14498	CG	PRO	A1821	98.621	142.728	69.078	1.00	0.64	C
ATOM	14499	CD	PRO	A1821	99.442	143.336	67.947	1.00	0.64	C
ATOM	14500	N	ASP	A1822	100.290	140.343	65.908	1.00	0.63	N
ATOM	14501	CA	ASP	A1822	100.234	139.452	64.764	1.00	0.63	C
ATOM	14502	C	ASP	A1822	101.481	138.586	64.574	1.00	0.63	C
ATOM	14503	O	ASP	A1822	101.380	137.415	64.216	1.00	0.63	O
ATOM	14504	CB	ASP	A1822	99.840	140.237	63.476	1.00	0.63	C
ATOM	14505	CG	ASP	A1822	100.667	141.484	63.214	1.00	0.63	C
ATOM	14506	OD1	ASP	A1822	101.579	141.795	64.020	1.00	0.63	O
ATOM	14507	OD2	ASP	A1822	100.355	142.180	62.218	1.00	0.63	O
ATOM	14508	N	GLU	A1823	102.688	139.120	64.844	1.00	0.65	N
ATOM	14509	CA	GLU	A1823	103.973	138.458	64.649	1.00	0.65	C
ATOM	14510	C	GLU	A1823	104.296	137.326	65.644	1.00	0.65	C
ATOM	14511	O	GLU	A1823	105.452	136.944	65.835	1.00	0.65	O
ATOM	14512	CB	GLU	A1823	105.100	139.519	64.760	1.00	0.65	C
ATOM	14513	CG	GLU	A1823	104.953	140.724	63.798	1.00	0.65	C
ATOM	14514	CD	GLU	A1823	105.927	141.853	64.136	1.00	0.65	C
ATOM	14515	OE1	GLU	A1823	105.889	142.352	65.296	1.00	0.65	O
ATOM	14516	OE2	GLU	A1823	106.704	142.237	63.224	1.00	0.65	O
ATOM	14517	N	VAL	A1824	103.275	136.746	66.300	1.00	0.71	N
ATOM	14518	CA	VAL	A1824	103.385	135.751	67.354	1.00	0.71	C
ATOM	14519	C	VAL	A1824	103.390	134.343	66.778	1.00	0.71	C
ATOM	14520	O	VAL	A1824	102.574	133.975	65.936	1.00	0.71	O
ATOM	14521	CB	VAL	A1824	102.258	135.923	68.377	1.00	0.71	C
ATOM	14522	CG1	VAL	A1824	102.094	134.706	69.312	1.00	0.71	C
ATOM	14523	CG2	VAL	A1824	102.558	137.186	69.207	1.00	0.71	C
ATOM	14524	N	PHE	A1825	104.335	133.491	67.230	1.00	0.70	N
ATOM	14525	CA	PHE	A1825	104.489	132.149	66.710	1.00	0.70	C
ATOM	14526	C	PHE	A1825	104.729	131.148	67.831	1.00	0.70	C
ATOM	14527	O	PHE	A1825	105.220	131.460	68.915	1.00	0.70	O
ATOM	14528	CB	PHE	A1825	105.695	132.039	65.733	1.00	0.70	C
ATOM	14529	CG	PHE	A1825	105.472	132.869	64.498	1.00	0.70	C
ATOM	14530	CD1	PHE	A1825	104.754	132.358	63.403	1.00	0.70	C
ATOM	14531	CD2	PHE	A1825	105.971	134.178	64.426	1.00	0.70	C
ATOM	14532	CE1	PHE	A1825	104.544	133.142	62.259	1.00	0.70	C
ATOM	14533	CE2	PHE	A1825	105.758	134.967	63.289	1.00	0.70	C
ATOM	14534	CZ	PHE	A1825	105.047	134.447	62.203	1.00	0.70	C
ATOM	14535	N	LEU	A1826	104.409	129.868	67.558	1.00	0.73	N
ATOM	14536	CA	LEU	A1826	104.663	128.759	68.459	1.00	0.73	C
ATOM	14537	C	LEU	A1826	105.777	127.899	67.890	1.00	0.73	C
ATOM	14538	O	LEU	A1826	105.759	127.525	66.711	1.00	0.73	O
ATOM	14539	CB	LEU	A1826	103.410	127.866	68.646	1.00	0.73	C
ATOM	14540	CG	LEU	A1826	102.203	128.583	69.284	1.00	0.73	C
ATOM	14541	CD1	LEU	A1826	100.977	127.658	69.312	1.00	0.73	C
ATOM	14542	CD2	LEU	A1826	102.519	129.077	70.702	1.00	0.73	C
ATOM	14543	N	ARG	A1827	106.786	127.578	68.718	1.00	0.68	N
ATOM	14544	CA	ARG	A1827	107.979	126.861	68.309	1.00	0.68	C
ATOM	14545	C	ARG	A1827	108.221	125.680	69.229	1.00	0.68	C
ATOM	14546	O	ARG	A1827	108.204	125.805	70.452	1.00	0.68	O
ATOM	14547	CB	ARG	A1827	109.240	127.771	68.354	1.00	0.68	C
ATOM	14548	CG	ARG	A1827	109.246	128.911	67.309	1.00	0.68	C
ATOM	14549	CD	ARG	A1827	110.271	130.033	67.564	1.00	0.68	C

ATOM	14550	NE	ARG	A1827	111.660	129.456	67.557	1.00	0.68	N
ATOM	14551	CZ	ARG	A1827	112.449	129.348	66.478	1.00	0.68	C
ATOM	14552	NH1	ARG	A1827	112.027	129.661	65.258	1.00	0.68	N
ATOM	14553	NH2	ARG	A1827	113.707	128.930	66.620	1.00	0.68	N
ATOM	14554	N	VAL	A1828	108.497	124.503	68.648	1.00	0.77	N
ATOM	14555	CA	VAL	A1828	108.920	123.321	69.370	1.00	0.77	C
ATOM	14556	C	VAL	A1828	110.401	123.189	69.061	1.00	0.77	C
ATOM	14557	O	VAL	A1828	110.847	123.543	67.971	1.00	0.77	O
ATOM	14558	CB	VAL	A1828	108.123	122.079	68.956	1.00	0.77	C
ATOM	14559	CG1	VAL	A1828	108.634	120.818	69.678	1.00	0.77	C
ATOM	14560	CG2	VAL	A1828	106.640	122.300	69.318	1.00	0.77	C
ATOM	14561	N	ARG	A1829	111.204	122.746	70.039	1.00	0.62	N
ATOM	14562	CA	ARG	A1829	112.575	122.331	69.827	1.00	0.62	C
ATOM	14563	C	ARG	A1829	112.654	121.013	70.558	1.00	0.62	C
ATOM	14564	O	ARG	A1829	111.727	120.661	71.290	1.00	0.62	O
ATOM	14565	CB	ARG	A1829	113.658	123.272	70.456	1.00	0.62	C
ATOM	14566	CG	ARG	A1829	113.692	124.715	69.911	1.00	0.62	C
ATOM	14567	CD	ARG	A1829	114.937	125.527	70.332	1.00	0.62	C
ATOM	14568	NE	ARG	A1829	114.843	125.919	71.785	1.00	0.62	N
ATOM	14569	CZ	ARG	A1829	114.223	127.014	72.249	1.00	0.62	C
ATOM	14570	NH1	ARG	A1829	113.528	127.815	71.450	1.00	0.62	N
ATOM	14571	NH2	ARG	A1829	114.198	127.281	73.552	1.00	0.62	N
ATOM	14572	N	GLY	A1830	113.766	120.261	70.414	1.00	0.71	N
ATOM	14573	CA	GLY	A1830	114.108	119.156	71.312	1.00	0.71	C
ATOM	14574	C	GLY	A1830	113.855	119.449	72.777	1.00	0.71	C
ATOM	14575	O	GLY	A1830	114.451	120.350	73.364	1.00	0.71	O
ATOM	14576	N	ASP	A1831	112.907	118.688	73.344	1.00	0.74	N
ATOM	14577	CA	ASP	A1831	112.460	118.642	74.719	1.00	0.74	C
ATOM	14578	C	ASP	A1831	112.077	119.994	75.337	1.00	0.74	C
ATOM	14579	O	ASP	A1831	112.223	120.255	76.536	1.00	0.74	O
ATOM	14580	CB	ASP	A1831	113.434	117.746	75.524	1.00	0.74	C
ATOM	14581	CG	ASP	A1831	113.826	116.536	74.668	1.00	0.74	C
ATOM	14582	OD1	ASP	A1831	112.947	116.003	73.935	1.00	0.74	O
ATOM	14583	OD2	ASP	A1831	115.041	116.220	74.643	1.00	0.74	O
ATOM	14584	N	ILE	A1832	111.519	120.890	74.490	1.00	0.76	N
ATOM	14585	CA	ILE	A1832	111.188	122.257	74.851	1.00	0.76	C
ATOM	14586	C	ILE	A1832	110.005	122.745	74.009	1.00	0.76	C
ATOM	14587	O	ILE	A1832	109.901	122.488	72.809	1.00	0.76	O
ATOM	14588	CB	ILE	A1832	112.442	123.143	74.699	1.00	0.76	C
ATOM	14589	CG1	ILE	A1832	113.079	123.555	76.051	1.00	0.76	C
ATOM	14590	CG2	ILE	A1832	112.237	124.384	73.813	1.00	0.76	C
ATOM	14591	CD1	ILE	A1832	112.344	124.683	76.787	1.00	0.76	C
ATOM	14592	N	LEU	A1833	109.077	123.508	74.621	1.00	0.75	N
ATOM	14593	CA	LEU	A1833	107.976	124.169	73.936	1.00	0.75	C
ATOM	14594	C	LEU	A1833	108.088	125.668	74.187	1.00	0.75	C
ATOM	14595	O	LEU	A1833	108.509	126.097	75.260	1.00	0.75	O
ATOM	14596	CB	LEU	A1833	106.624	123.595	74.437	1.00	0.75	C
ATOM	14597	CG	LEU	A1833	105.332	124.303	73.967	1.00	0.75	C
ATOM	14598	CD1	LEU	A1833	105.151	124.269	72.441	1.00	0.75	C
ATOM	14599	CD2	LEU	A1833	104.105	123.667	74.640	1.00	0.75	C
ATOM	14600	N	ASN	A1834	107.768	126.517	73.183	1.00	0.75	N
ATOM	14601	CA	ASN	A1834	107.975	127.955	73.260	1.00	0.75	C
ATOM	14602	C	ASN	A1834	106.849	128.714	72.577	1.00	0.75	C
ATOM	14603	O	ASN	A1834	106.343	128.321	71.524	1.00	0.75	O
ATOM	14604	CB	ASN	A1834	109.266	128.468	72.546	1.00	0.75	C
ATOM	14605	CG	ASN	A1834	110.493	127.600	72.771	1.00	0.75	C
ATOM	14606	OD1	ASN	A1834	111.425	127.943	73.502	1.00	0.75	O
ATOM	14607	ND2	ASN	A1834	110.561	126.470	72.025	1.00	0.75	N
ATOM	14608	N	LEU	A1835	106.506	129.877	73.148	1.00	0.72	N
ATOM	14609	CA	LEU	A1835	105.640	130.882	72.577	1.00	0.72	C
ATOM	14610	C	LEU	A1835	106.516	132.112	72.435	1.00	0.72	C
ATOM	14611	O	LEU	A1835	107.277	132.479	73.331	1.00	0.72	O
ATOM	14612	CB	LEU	A1835	104.417	131.101	73.497	1.00	0.72	C
ATOM	14613	CG	LEU	A1835	103.608	132.398	73.308	1.00	0.72	C
ATOM	14614	CD1	LEU	A1835	102.982	132.537	71.915	1.00	0.72	C

ATOM	14615	CD2	LEU	A1835	102.511	132.474	74.380	1.00	0.72	C
ATOM	14616	N	SER	A1836	106.521	132.715	71.237	1.00	0.77	N
ATOM	14617	CA	SER	A1836	107.673	133.466	70.786	1.00	0.77	C
ATOM	14618	C	SER	A1836	107.248	134.485	69.752	1.00	0.77	C
ATOM	14619	O	SER	A1836	106.192	134.364	69.136	1.00	0.77	O
ATOM	14620	CB	SER	A1836	108.685	132.460	70.173	1.00	0.77	C
ATOM	14621	OG	SER	A1836	109.944	133.032	69.838	1.00	0.77	O
ATOM	14622	N	ILE	A1837	108.055	135.537	69.549	1.00	0.75	N
ATOM	14623	CA	ILE	A1837	107.742	136.630	68.646	1.00	0.75	C
ATOM	14624	C	ILE	A1837	109.043	137.093	68.019	1.00	0.75	C
ATOM	14625	O	ILE	A1837	110.110	137.059	68.634	1.00	0.75	O
ATOM	14626	CB	ILE	A1837	106.989	137.772	69.342	1.00	0.75	C
ATOM	14627	CG1	ILE	A1837	106.616	138.928	68.384	1.00	0.75	C
ATOM	14628	CG2	ILE	A1837	107.781	138.301	70.556	1.00	0.75	C
ATOM	14629	CD1	ILE	A1837	105.428	139.759	68.876	1.00	0.75	C
ATOM	14630	N	LEU	A1838	109.008	137.498	66.736	1.00	0.71	N
ATOM	14631	CA	LEU	A1838	110.165	138.013	66.035	1.00	0.71	C
ATOM	14632	C	LEU	A1838	110.205	139.500	66.295	1.00	0.71	C
ATOM	14633	O	LEU	A1838	109.215	140.195	66.111	1.00	0.71	O
ATOM	14634	CB	LEU	A1838	110.109	137.752	64.506	1.00	0.71	C
ATOM	14635	CG	LEU	A1838	110.404	136.294	64.077	1.00	0.71	C
ATOM	14636	CD1	LEU	A1838	109.367	135.257	64.536	1.00	0.71	C
ATOM	14637	CD2	LEU	A1838	110.596	136.200	62.555	1.00	0.71	C
ATOM	14638	N	LEU	A1839	111.339	140.023	66.789	1.00	0.70	N
ATOM	14639	CA	LEU	A1839	111.387	141.409	67.210	1.00	0.70	C
ATOM	14640	C	LEU	A1839	112.195	142.251	66.243	1.00	0.70	C
ATOM	14641	O	LEU	A1839	112.082	143.473	66.192	1.00	0.70	O
ATOM	14642	CB	LEU	A1839	112.018	141.449	68.620	1.00	0.70	C
ATOM	14643	CG	LEU	A1839	112.132	142.852	69.241	1.00	0.70	C
ATOM	14644	CD1	LEU	A1839	110.781	143.578	69.282	1.00	0.70	C
ATOM	14645	CD2	LEU	A1839	112.739	142.755	70.644	1.00	0.70	C
ATOM	14646	N	GLN	A1840	113.018	141.600	65.414	1.00	0.64	N
ATOM	14647	CA	GLN	A1840	113.784	142.277	64.403	1.00	0.64	C
ATOM	14648	C	GLN	A1840	114.171	141.196	63.419	1.00	0.64	C
ATOM	14649	O	GLN	A1840	114.065	140.009	63.733	1.00	0.64	O
ATOM	14650	CB	GLN	A1840	115.033	142.970	65.022	1.00	0.64	C
ATOM	14651	CG	GLN	A1840	115.532	144.220	64.260	1.00	0.64	C
ATOM	14652	CD	GLN	A1840	114.564	145.402	64.362	1.00	0.64	C
ATOM	14653	OE1	GLN	A1840	114.489	146.057	65.404	1.00	0.64	O
ATOM	14654	NE2	GLN	A1840	113.857	145.711	63.256	1.00	0.64	N
ATOM	14655	N	GLU	A1841	114.606	141.554	62.202	1.00	0.64	N
ATOM	14656	CA	GLU	A1841	115.066	140.634	61.182	1.00	0.64	C
ATOM	14657	C	GLU	A1841	116.138	139.659	61.681	1.00	0.64	C
ATOM	14658	O	GLU	A1841	117.160	140.049	62.239	1.00	0.64	O
ATOM	14659	CB	GLU	A1841	115.554	141.409	59.933	1.00	0.64	C
ATOM	14660	CG	GLU	A1841	114.516	142.428	59.376	1.00	0.64	C
ATOM	14661	CD	GLU	A1841	114.613	143.845	59.952	1.00	0.64	C
ATOM	14662	OE1	GLU	A1841	114.373	144.015	61.178	1.00	0.64	O
ATOM	14663	OE2	GLU	A1841	114.912	144.782	59.173	1.00	0.64	O
ATOM	14664	N	ASP	A1842	115.864	138.343	61.581	1.00	0.67	N
ATOM	14665	CA	ASP	A1842	116.700	137.273	62.104	1.00	0.67	C
ATOM	14666	C	ASP	A1842	117.009	137.325	63.615	1.00	0.67	C
ATOM	14667	O	ASP	A1842	117.905	136.650	64.120	1.00	0.67	O
ATOM	14668	CB	ASP	A1842	117.942	137.050	61.201	1.00	0.67	C
ATOM	14669	CG	ASP	A1842	117.455	136.797	59.784	1.00	0.67	C
ATOM	14670	OD1	ASP	A1842	116.558	135.926	59.634	1.00	0.67	O
ATOM	14671	OD2	ASP	A1842	117.944	137.478	58.849	1.00	0.67	O
ATOM	14672	N	ARG	A1843	116.212	138.079	64.410	1.00	0.60	N
ATOM	14673	CA	ARG	A1843	116.322	138.111	65.856	1.00	0.60	C
ATOM	14674	C	ARG	A1843	114.970	137.863	66.512	1.00	0.60	C
ATOM	14675	O	ARG	A1843	113.993	138.601	66.363	1.00	0.60	O
ATOM	14676	CB	ARG	A1843	116.941	139.433	66.381	1.00	0.60	C
ATOM	14677	CG	ARG	A1843	118.485	139.438	66.368	1.00	0.60	C
ATOM	14678	CD	ARG	A1843	119.074	140.668	67.067	1.00	0.60	C
ATOM	14679	NE	ARG	A1843	120.510	140.372	67.377	1.00	0.60	N

ATOM	14680	CZ	ARG	A1843	121.351	141.244	67.948	1.00	0.60	C
ATOM	14681	NH1	ARG	A1843	120.998	142.506	68.160	1.00	0.60	N
ATOM	14682	NH2	ARG	A1843	122.567	140.848	68.308	1.00	0.60	N
ATOM	14683	N	VAL	A1844	114.905	136.774	67.294	1.00	0.74	N
ATOM	14684	CA	VAL	A1844	113.693	136.237	67.872	1.00	0.74	C
ATOM	14685	C	VAL	A1844	113.732	136.485	69.368	1.00	0.74	C
ATOM	14686	O	VAL	A1844	114.799	136.671	69.946	1.00	0.74	O
ATOM	14687	CB	VAL	A1844	113.568	134.746	67.552	1.00	0.74	C
ATOM	14688	CG1	VAL	A1844	112.169	134.222	67.901	1.00	0.74	C
ATOM	14689	CG2	VAL	A1844	113.772	134.549	66.040	1.00	0.74	C
ATOM	14690	N	MET	A1845	112.565	136.544	70.030	1.00	0.75	N
ATOM	14691	CA	MET	A1845	112.479	136.575	71.472	1.00	0.75	C
ATOM	14692	C	MET	A1845	111.453	135.557	71.951	1.00	0.75	C
ATOM	14693	O	MET	A1845	110.268	135.632	71.619	1.00	0.75	O
ATOM	14694	CB	MET	A1845	112.038	137.998	71.892	1.00	0.75	C
ATOM	14695	CG	MET	A1845	111.518	138.151	73.335	1.00	0.75	C
ATOM	14696	SD	MET	A1845	111.197	139.870	73.834	1.00	0.75	S
ATOM	14697	CE	MET	A1845	110.072	140.357	72.490	1.00	0.75	C
ATOM	14698	N	ASN	A1846	111.859	134.577	72.787	1.00	0.79	N
ATOM	14699	CA	ASN	A1846	110.914	133.702	73.459	1.00	0.79	C
ATOM	14700	C	ASN	A1846	110.262	134.401	74.648	1.00	0.79	C
ATOM	14701	O	ASN	A1846	110.865	134.594	75.710	1.00	0.79	O
ATOM	14702	CB	ASN	A1846	111.562	132.388	73.957	1.00	0.79	C
ATOM	14703	CG	ASN	A1846	112.079	131.577	72.776	1.00	0.79	C
ATOM	14704	OD1	ASN	A1846	111.438	131.442	71.728	1.00	0.79	O
ATOM	14705	ND2	ASN	A1846	113.287	130.993	72.958	1.00	0.79	N
ATOM	14706	N	LEU	A1847	108.975	134.767	74.477	1.00	0.72	N
ATOM	14707	CA	LEU	A1847	108.098	135.331	75.486	1.00	0.72	C
ATOM	14708	C	LEU	A1847	107.871	134.346	76.623	1.00	0.72	C
ATOM	14709	O	LEU	A1847	107.978	134.664	77.807	1.00	0.72	O
ATOM	14710	CB	LEU	A1847	106.760	135.699	74.776	1.00	0.72	C
ATOM	14711	CG	LEU	A1847	105.726	136.546	75.556	1.00	0.72	C
ATOM	14712	CD1	LEU	A1847	104.759	137.215	74.566	1.00	0.72	C
ATOM	14713	CD2	LEU	A1847	104.896	135.762	76.586	1.00	0.72	C
ATOM	14714	N	LEU	A1848	107.607	133.078	76.265	1.00	0.71	N
ATOM	14715	CA	LEU	A1848	107.239	132.065	77.219	1.00	0.71	C
ATOM	14716	C	LEU	A1848	107.810	130.734	76.777	1.00	0.71	C
ATOM	14717	O	LEU	A1848	107.823	130.398	75.594	1.00	0.71	O
ATOM	14718	CB	LEU	A1848	105.694	132.044	77.340	1.00	0.71	C
ATOM	14719	CG	LEU	A1848	105.086	131.040	78.337	1.00	0.71	C
ATOM	14720	CD1	LEU	A1848	103.835	131.648	78.991	1.00	0.71	C
ATOM	14721	CD2	LEU	A1848	104.733	129.702	77.667	1.00	0.71	C
ATOM	14722	N	SER	A1849	108.309	129.939	77.742	1.00	0.77	N
ATOM	14723	CA	SER	A1849	108.902	128.638	77.490	1.00	0.77	C
ATOM	14724	C	SER	A1849	108.266	127.642	78.427	1.00	0.77	C
ATOM	14725	O	SER	A1849	107.823	127.990	79.520	1.00	0.77	O
ATOM	14726	CB	SER	A1849	110.431	128.565	77.763	1.00	0.77	C
ATOM	14727	OG	SER	A1849	111.164	129.437	76.903	1.00	0.77	O
ATOM	14728	N	TYR	A1850	108.217	126.363	78.023	1.00	0.71	N
ATOM	14729	CA	TYR	A1850	107.665	125.292	78.819	1.00	0.71	C
ATOM	14730	C	TYR	A1850	108.567	124.073	78.702	1.00	0.71	C
ATOM	14731	O	TYR	A1850	108.943	123.646	77.610	1.00	0.71	O
ATOM	14732	CB	TYR	A1850	106.220	124.968	78.340	1.00	0.71	C
ATOM	14733	CG	TYR	A1850	105.557	123.853	79.113	1.00	0.71	C
ATOM	14734	CD1	TYR	A1850	105.720	122.513	78.715	1.00	0.71	C
ATOM	14735	CD2	TYR	A1850	104.762	124.137	80.235	1.00	0.71	C
ATOM	14736	CE1	TYR	A1850	105.105	121.477	79.430	1.00	0.71	C
ATOM	14737	CE2	TYR	A1850	104.135	123.101	80.945	1.00	0.71	C
ATOM	14738	CZ	TYR	A1850	104.311	121.772	80.540	1.00	0.71	C
ATOM	14739	OH	TYR	A1850	103.692	120.719	81.240	1.00	0.71	O
ATOM	14740	N	ARG	A1851	108.907	123.472	79.858	1.00	0.71	N
ATOM	14741	CA	ARG	A1851	109.516	122.165	79.947	1.00	0.71	C
ATOM	14742	C	ARG	A1851	108.595	121.327	80.805	1.00	0.71	C
ATOM	14743	O	ARG	A1851	108.053	121.807	81.800	1.00	0.71	O
ATOM	14744	CB	ARG	A1851	110.915	122.162	80.618	1.00	0.71	C

ATOM	14745	CG	ARG	A1851	111.929	123.089	79.927	1.00	0.71	C
ATOM	14746	CD	ARG	A1851	113.363	122.970	80.453	1.00	0.71	C
ATOM	14747	NE	ARG	A1851	113.924	121.680	79.930	1.00	0.71	N
ATOM	14748	CZ	ARG	A1851	115.148	121.222	80.228	1.00	0.71	C
ATOM	14749	NH1	ARG	A1851	115.883	121.799	81.173	1.00	0.71	N
ATOM	14750	NH2	ARG	A1851	115.655	120.194	79.557	1.00	0.71	N
ATOM	14751	N	ALA	A1852	108.398	120.054	80.427	1.00	0.83	N
ATOM	14752	CA	ALA	A1852	107.684	119.086	81.228	1.00	0.83	C
ATOM	14753	C	ALA	A1852	108.531	118.594	82.410	1.00	0.83	C
ATOM	14754	O	ALA	A1852	109.678	119.004	82.591	1.00	0.83	O
ATOM	14755	CB	ALA	A1852	107.219	117.922	80.333	1.00	0.83	C
ATOM	14756	N	ARG	A1853	107.963	117.732	83.271	1.00	0.74	N
ATOM	14757	CA	ARG	A1853	108.664	117.107	84.375	1.00	0.74	C
ATOM	14758	C	ARG	A1853	108.370	115.613	84.298	1.00	0.74	C
ATOM	14759	O	ARG	A1853	107.559	115.156	83.496	1.00	0.74	O
ATOM	14760	CB	ARG	A1853	108.204	117.673	85.757	1.00	0.74	C
ATOM	14761	CG	ARG	A1853	109.224	118.594	86.473	1.00	0.74	C
ATOM	14762	CD	ARG	A1853	109.281	120.046	85.967	1.00	0.74	C
ATOM	14763	NE	ARG	A1853	110.109	120.895	86.917	1.00	0.74	N
ATOM	14764	CZ	ARG	A1853	109.722	121.320	88.127	1.00	0.74	C
ATOM	14765	NH1	ARG	A1853	108.589	120.902	88.683	1.00	0.74	N
ATOM	14766	NH2	ARG	A1853	110.479	122.145	88.841	1.00	0.74	N
ATOM	14767	N	ASP	A1854	109.021	114.821	85.165	1.00	0.83	N
ATOM	14768	CA	ASP	A1854	108.930	113.381	85.246	1.00	0.83	C
ATOM	14769	C	ASP	A1854	107.810	112.937	86.174	1.00	0.83	C
ATOM	14770	O	ASP	A1854	107.550	111.751	86.385	1.00	0.83	O
ATOM	14771	CB	ASP	A1854	110.286	112.858	85.803	1.00	0.83	C
ATOM	14772	CG	ASP	A1854	110.751	113.522	87.094	1.00	0.83	C
ATOM	14773	OD1	ASP	A1854	110.827	114.780	87.157	1.00	0.83	O
ATOM	14774	OD2	ASP	A1854	111.195	112.785	88.008	1.00	0.83	O
ATOM	14775	N	THR	A1855	107.101	113.914	86.758	1.00	0.81	N
ATOM	14776	CA	THR	A1855	106.146	113.688	87.825	1.00	0.81	C
ATOM	14777	C	THR	A1855	104.725	113.801	87.352	1.00	0.81	C
ATOM	14778	O	THR	A1855	103.800	113.531	88.113	1.00	0.81	O
ATOM	14779	CB	THR	A1855	106.343	114.627	89.010	1.00	0.81	C
ATOM	14780	OG1	THR	A1855	106.217	116.008	88.687	1.00	0.81	O
ATOM	14781	CG2	THR	A1855	107.772	114.456	89.529	1.00	0.81	C
ATOM	14782	N	ASP	A1856	104.514	114.156	86.068	1.00	0.79	N
ATOM	14783	CA	ASP	A1856	103.193	114.271	85.491	1.00	0.79	C
ATOM	14784	C	ASP	A1856	102.923	113.157	84.453	1.00	0.79	C
ATOM	14785	O	ASP	A1856	101.970	113.214	83.676	1.00	0.79	O
ATOM	14786	CB	ASP	A1856	102.869	115.725	84.977	1.00	0.79	C
ATOM	14787	CG	ASP	A1856	103.858	116.865	85.292	1.00	0.79	C
ATOM	14788	OD1	ASP	A1856	105.001	116.838	84.777	1.00	0.79	O
ATOM	14789	OD2	ASP	A1856	103.453	117.848	85.990	1.00	0.79	O
ATOM	14790	N	ILE	A1857	103.737	112.073	84.457	1.00	0.79	N
ATOM	14791	CA	ILE	A1857	103.514	110.850	83.684	1.00	0.79	C
ATOM	14792	C	ILE	A1857	102.470	110.004	84.422	1.00	0.79	C
ATOM	14793	O	ILE	A1857	102.660	109.690	85.590	1.00	0.79	O
ATOM	14794	CB	ILE	A1857	104.797	110.015	83.510	1.00	0.79	C
ATOM	14795	CG1	ILE	A1857	106.072	110.886	83.351	1.00	0.79	C
ATOM	14796	CG2	ILE	A1857	104.609	109.044	82.319	1.00	0.79	C
ATOM	14797	CD1	ILE	A1857	107.385	110.084	83.322	1.00	0.79	C
ATOM	14798	N	SER	A1858	101.322	109.654	83.800	1.00	0.82	N
ATOM	14799	CA	SER	A1858	100.170	109.136	84.545	1.00	0.82	C
ATOM	14800	C	SER	A1858	99.541	107.899	83.919	1.00	0.82	C
ATOM	14801	O	SER	A1858	99.069	107.905	82.780	1.00	0.82	O
ATOM	14802	CB	SER	A1858	99.089	110.251	84.684	1.00	0.82	C
ATOM	14803	OG	SER	A1858	97.876	109.805	85.302	1.00	0.82	O
ATOM	14804	N	GLU	A1859	99.475	106.788	84.682	1.00	0.78	N
ATOM	14805	CA	GLU	A1859	98.809	105.551	84.327	1.00	0.78	C
ATOM	14806	C	GLU	A1859	97.293	105.669	84.193	1.00	0.78	C
ATOM	14807	O	GLU	A1859	96.690	105.066	83.308	1.00	0.78	O
ATOM	14808	CB	GLU	A1859	99.156	104.411	85.323	1.00	0.78	C
ATOM	14809	CG	GLU	A1859	100.681	104.127	85.476	1.00	0.78	C

ATOM	14810	CD	GLU	A1859	101.460	105.127	86.341	1.00	0.78	C
ATOM	14811	OE1	GLU	A1859	102.715	105.008	86.387	1.00	0.78	O
ATOM	14812	OE2	GLU	A1859	100.809	106.032	86.921	1.00	0.78	O
ATOM	14813	N	SER	A1860	96.605	106.459	85.053	1.00	0.83	N
ATOM	14814	CA	SER	A1860	95.156	106.665	84.936	1.00	0.83	C
ATOM	14815	C	SER	A1860	94.768	107.374	83.646	1.00	0.83	C
ATOM	14816	O	SER	A1860	93.828	106.979	82.954	1.00	0.83	O
ATOM	14817	CB	SER	A1860	94.510	107.405	86.147	1.00	0.83	C
ATOM	14818	OG	SER	A1860	95.021	108.728	86.316	1.00	0.83	O
ATOM	14819	N	ALA	A1861	95.550	108.405	83.263	1.00	0.84	N
ATOM	14820	CA	ALA	A1861	95.450	109.093	81.993	1.00	0.84	C
ATOM	14821	C	ALA	A1861	95.720	108.178	80.804	1.00	0.84	C
ATOM	14822	O	ALA	A1861	94.984	108.182	79.819	1.00	0.84	O
ATOM	14823	CB	ALA	A1861	96.451	110.266	81.968	1.00	0.84	C
ATOM	14824	N	ALA	A1862	96.763	107.331	80.896	1.00	0.85	N
ATOM	14825	CA	ALA	A1862	97.105	106.336	79.899	1.00	0.85	C
ATOM	14826	C	ALA	A1862	96.032	105.278	79.662	1.00	0.85	C
ATOM	14827	O	ALA	A1862	95.713	104.949	78.521	1.00	0.85	O
ATOM	14828	CB	ALA	A1862	98.406	105.642	80.324	1.00	0.85	C
ATOM	14829	N	SER	A1863	95.414	104.747	80.736	1.00	0.79	N
ATOM	14830	CA	SER	A1863	94.283	103.824	80.663	1.00	0.79	C
ATOM	14831	C	SER	A1863	93.059	104.426	80.003	1.00	0.79	C
ATOM	14832	O	SER	A1863	92.399	103.776	79.196	1.00	0.79	O
ATOM	14833	CB	SER	A1863	93.860	103.294	82.054	1.00	0.79	C
ATOM	14834	OG	SER	A1863	94.862	102.413	82.559	1.00	0.79	O
ATOM	14835	N	TYR	A1864	92.739	105.707	80.296	1.00	0.74	N
ATOM	14836	CA	TYR	A1864	91.717	106.451	79.573	1.00	0.74	C
ATOM	14837	C	TYR	A1864	92.063	106.622	78.087	1.00	0.74	C
ATOM	14838	O	TYR	A1864	91.251	106.339	77.208	1.00	0.74	O
ATOM	14839	CB	TYR	A1864	91.496	107.831	80.273	1.00	0.74	C
ATOM	14840	CG	TYR	A1864	90.589	108.757	79.494	1.00	0.74	C
ATOM	14841	CD1	TYR	A1864	89.281	108.370	79.156	1.00	0.74	C
ATOM	14842	CD2	TYR	A1864	91.087	109.976	79.002	1.00	0.74	C
ATOM	14843	CE1	TYR	A1864	88.495	109.178	78.322	1.00	0.74	C
ATOM	14844	CE2	TYR	A1864	90.306	110.780	78.159	1.00	0.74	C
ATOM	14845	CZ	TYR	A1864	89.010	110.375	77.819	1.00	0.74	C
ATOM	14846	OH	TYR	A1864	88.224	111.139	76.938	1.00	0.74	O
ATOM	14847	N	LEU	A1865	93.305	107.030	77.762	1.00	0.76	N
ATOM	14848	CA	LEU	A1865	93.788	107.197	76.398	1.00	0.76	C
ATOM	14849	C	LEU	A1865	93.761	105.900	75.591	1.00	0.76	C
ATOM	14850	O	LEU	A1865	93.376	105.890	74.424	1.00	0.76	O
ATOM	14851	CB	LEU	A1865	95.186	107.873	76.397	1.00	0.76	C
ATOM	14852	CG	LEU	A1865	95.167	109.393	76.101	1.00	0.76	C
ATOM	14853	CD1	LEU	A1865	94.885	109.662	74.615	1.00	0.76	C
ATOM	14854	CD2	LEU	A1865	94.190	110.181	76.990	1.00	0.76	C
ATOM	14855	N	TRP	A1866	94.077	104.749	76.224	1.00	0.69	N
ATOM	14856	CA	TRP	A1866	93.955	103.417	75.645	1.00	0.69	C
ATOM	14857	C	TRP	A1866	92.541	103.078	75.174	1.00	0.69	C
ATOM	14858	O	TRP	A1866	92.341	102.325	74.220	1.00	0.69	O
ATOM	14859	CB	TRP	A1866	94.440	102.322	76.648	1.00	0.69	C
ATOM	14860	CG	TRP	A1866	94.871	101.013	75.989	1.00	0.69	C
ATOM	14861	CD1	TRP	A1866	96.128	100.664	75.586	1.00	0.69	C
ATOM	14862	CD2	TRP	A1866	93.999	99.957	75.529	1.00	0.69	C
ATOM	14863	NE1	TRP	A1866	96.097	99.480	74.877	1.00	0.69	N
ATOM	14864	CE2	TRP	A1866	94.793	99.059	74.790	1.00	0.69	C
ATOM	14865	CE3	TRP	A1866	92.628	99.755	75.665	1.00	0.69	C
ATOM	14866	CZ2	TRP	A1866	94.232	97.955	74.158	1.00	0.69	C
ATOM	14867	CZ3	TRP	A1866	92.056	98.650	75.016	1.00	0.69	C
ATOM	14868	CH2	TRP	A1866	92.847	97.763	74.272	1.00	0.69	C
ATOM	14869	N	MET	A1867	91.507	103.632	75.836	1.00	0.59	N
ATOM	14870	CA	MET	A1867	90.120	103.340	75.539	1.00	0.59	C
ATOM	14871	C	MET	A1867	89.524	104.247	74.467	1.00	0.59	C
ATOM	14872	O	MET	A1867	88.400	104.024	74.023	1.00	0.59	O
ATOM	14873	CB	MET	A1867	89.270	103.383	76.833	1.00	0.59	C
ATOM	14874	CG	MET	A1867	89.542	102.183	77.769	1.00	0.59	C



ATOM	14875	SD	MET	A1867	89.248	100.541	77.025	1.00	0.59	S
ATOM	14876	CE	MET	A1867	87.450	100.652	76.794	1.00	0.59	C
ATOM	14877	N	ASN	A1868	90.291	105.228	73.951	1.00	0.70	N
ATOM	14878	CA	ASN	A1868	89.854	106.114	72.886	1.00	0.70	C
ATOM	14879	C	ASN	A1868	90.218	105.557	71.512	1.00	0.70	C
ATOM	14880	O	ASN	A1868	91.052	104.666	71.372	1.00	0.70	O
ATOM	14881	CB	ASN	A1868	90.450	107.532	73.075	1.00	0.70	C
ATOM	14882	CG	ASN	A1868	89.635	108.253	74.139	1.00	0.70	C
ATOM	14883	OD1	ASN	A1868	88.556	108.767	73.842	1.00	0.70	O
ATOM	14884	ND2	ASN	A1868	90.099	108.264	75.405	1.00	0.70	N
ATOM	14885	N	ARG	A1869	89.556	106.061	70.444	1.00	0.48	N
ATOM	14886	CA	ARG	A1869	89.821	105.649	69.066	1.00	0.48	C
ATOM	14887	C	ARG	A1869	89.718	106.817	68.095	1.00	0.48	C
ATOM	14888	O	ARG	A1869	90.148	106.721	66.951	1.00	0.48	O
ATOM	14889	CB	ARG	A1869	88.783	104.607	68.541	1.00	0.48	C
ATOM	14890	CG	ARG	A1869	88.532	103.382	69.444	1.00	0.48	C
ATOM	14891	CD	ARG	A1869	89.715	102.417	69.566	1.00	0.48	C
ATOM	14892	NE	ARG	A1869	89.476	101.644	70.828	1.00	0.48	N
ATOM	14893	CZ	ARG	A1869	90.484	101.205	71.589	1.00	0.48	C
ATOM	14894	NH1	ARG	A1869	91.681	100.934	71.087	1.00	0.48	N
ATOM	14895	NH2	ARG	A1869	90.306	101.076	72.897	1.00	0.48	N
ATOM	14896	N	THR	A1870	89.103	107.937	68.524	1.00	0.58	N
ATOM	14897	CA	THR	A1870	88.883	109.146	67.742	1.00	0.58	C
ATOM	14898	C	THR	A1870	90.142	109.918	67.436	1.00	0.58	C
ATOM	14899	O	THR	A1870	90.307	110.420	66.324	1.00	0.58	O
ATOM	14900	CB	THR	A1870	87.905	110.080	68.440	1.00	0.58	C
ATOM	14901	OG1	THR	A1870	88.155	110.102	69.841	1.00	0.58	O
ATOM	14902	CG2	THR	A1870	86.492	109.507	68.257	1.00	0.58	C
ATOM	14903	N	ASP	A1871	91.065	110.034	68.409	1.00	0.62	N
ATOM	14904	CA	ASP	A1871	92.364	110.633	68.210	1.00	0.62	C
ATOM	14905	C	ASP	A1871	93.221	109.872	67.193	1.00	0.62	C
ATOM	14906	O	ASP	A1871	93.843	108.850	67.468	1.00	0.62	O
ATOM	14907	CB	ASP	A1871	93.125	110.742	69.549	1.00	0.62	C
ATOM	14908	CG	ASP	A1871	92.388	111.633	70.530	1.00	0.62	C
ATOM	14909	OD1	ASP	A1871	92.069	112.783	70.139	1.00	0.62	O
ATOM	14910	OD2	ASP	A1871	92.159	111.175	71.678	1.00	0.62	O
ATOM	14911	N	PHE	A1872	93.300	110.420	65.966	1.00	0.56	N
ATOM	14912	CA	PHE	A1872	94.066	109.915	64.837	1.00	0.56	C
ATOM	14913	C	PHE	A1872	95.580	110.078	65.043	1.00	0.56	C
ATOM	14914	O	PHE	A1872	96.394	109.514	64.317	1.00	0.56	O
ATOM	14915	CB	PHE	A1872	93.495	110.633	63.564	1.00	0.56	C
ATOM	14916	CG	PHE	A1872	94.437	110.753	62.392	1.00	0.56	C
ATOM	14917	CD1	PHE	A1872	94.609	109.705	61.474	1.00	0.56	C
ATOM	14918	CD2	PHE	A1872	95.207	111.919	62.248	1.00	0.56	C
ATOM	14919	CE1	PHE	A1872	95.548	109.817	60.437	1.00	0.56	C
ATOM	14920	CE2	PHE	A1872	96.150	112.031	61.221	1.00	0.56	C
ATOM	14921	CZ	PHE	A1872	96.321	110.979	60.315	1.00	0.56	C
ATOM	14922	N	SER	A1873	95.982	110.857	66.064	1.00	0.66	N
ATOM	14923	CA	SER	A1873	97.356	111.067	66.489	1.00	0.66	C
ATOM	14924	C	SER	A1873	98.066	109.811	66.979	1.00	0.66	C
ATOM	14925	O	SER	A1873	99.262	109.645	66.747	1.00	0.66	O
ATOM	14926	CB	SER	A1873	97.425	112.171	67.579	1.00	0.66	C
ATOM	14927	OG	SER	A1873	96.560	111.869	68.675	1.00	0.66	O
ATOM	14928	N	PHE	A1874	97.358	108.896	67.673	1.00	0.71	N
ATOM	14929	CA	PHE	A1874	97.874	107.579	67.999	1.00	0.71	C
ATOM	14930	C	PHE	A1874	97.434	106.522	66.992	1.00	0.71	C
ATOM	14931	O	PHE	A1874	96.642	106.737	66.079	1.00	0.71	O
ATOM	14932	CB	PHE	A1874	97.594	107.151	69.477	1.00	0.71	C
ATOM	14933	CG	PHE	A1874	96.137	107.107	69.884	1.00	0.71	C
ATOM	14934	CD1	PHE	A1874	95.216	106.218	69.296	1.00	0.71	C
ATOM	14935	CD2	PHE	A1874	95.688	107.938	70.926	1.00	0.71	C
ATOM	14936	CE1	PHE	A1874	93.868	106.228	69.669	1.00	0.71	C
ATOM	14937	CE2	PHE	A1874	94.356	107.899	71.351	1.00	0.71	C
ATOM	14938	CZ	PHE	A1874	93.441	107.071	70.696	1.00	0.71	C
ATOM	14939	N	GLY	A1875	97.948	105.288	67.149	1.00	0.52	N

ATOM	14940	CA	GLY	A1875	97.443	104.154	66.392	1.00	0.52	C
ATOM	14941	C	GLY	A1875	98.292	103.884	65.191	1.00	0.52	C
ATOM	14942	O	GLY	A1875	99.515	103.940	65.253	1.00	0.52	O
ATOM	14943	N	LYS	A1876	97.634	103.511	64.074	1.00	0.59	N
ATOM	14944	CA	LYS	A1876	98.222	103.365	62.748	1.00	0.59	C
ATOM	14945	C	LYS	A1876	99.440	102.452	62.658	1.00	0.59	C
ATOM	14946	O	LYS	A1876	100.346	102.674	61.863	1.00	0.59	O
ATOM	14947	CB	LYS	A1876	98.494	104.751	62.104	1.00	0.59	C
ATOM	14948	CG	LYS	A1876	97.239	105.637	61.963	1.00	0.59	C
ATOM	14949	CD	LYS	A1876	96.197	105.070	60.980	1.00	0.59	C
ATOM	14950	CE	LYS	A1876	94.975	105.979	60.825	1.00	0.59	C
ATOM	14951	NZ	LYS	A1876	94.026	105.406	59.841	1.00	0.59	N
ATOM	14952	N	LYS	A1877	99.445	101.371	63.470	1.00	0.41	N
ATOM	14953	CA	LYS	A1877	100.503	100.376	63.598	1.00	0.41	C
ATOM	14954	C	LYS	A1877	101.804	100.852	64.231	1.00	0.41	C
ATOM	14955	O	LYS	A1877	102.616	100.034	64.657	1.00	0.41	O
ATOM	14956	CB	LYS	A1877	100.815	99.638	62.274	1.00	0.41	C
ATOM	14957	CG	LYS	A1877	99.593	98.944	61.659	1.00	0.41	C
ATOM	14958	CD	LYS	A1877	99.961	98.297	60.317	1.00	0.41	C
ATOM	14959	CE	LYS	A1877	98.782	97.608	59.633	1.00	0.41	C
ATOM	14960	NZ	LYS	A1877	99.230	97.021	58.352	1.00	0.41	N
ATOM	14961	N	GLU	A1878	102.039	102.172	64.349	1.00	0.50	N
ATOM	14962	CA	GLU	A1878	103.249	102.711	64.928	1.00	0.50	C
ATOM	14963	C	GLU	A1878	103.450	102.362	66.418	1.00	0.50	C
ATOM	14964	O	GLU	A1878	102.483	102.243	67.180	1.00	0.50	O
ATOM	14965	CB	GLU	A1878	103.420	104.242	64.666	1.00	0.50	C
ATOM	14966	CG	GLU	A1878	104.881	104.688	64.947	1.00	0.50	C
ATOM	14967	CD	GLU	A1878	105.390	106.042	64.471	1.00	0.50	C
ATOM	14968	OE1	GLU	A1878	106.521	106.007	63.902	1.00	0.50	O
ATOM	14969	OE2	GLU	A1878	104.744	107.069	64.759	1.00	0.50	O
ATOM	14970	N	PRO	A1879	104.687	102.238	66.917	1.00	0.68	N
ATOM	14971	CA	PRO	A1879	104.990	102.278	68.343	1.00	0.68	C
ATOM	14972	C	PRO	A1879	104.548	103.534	69.094	1.00	0.68	C
ATOM	14973	O	PRO	A1879	104.696	103.536	70.308	1.00	0.68	O
ATOM	14974	CB	PRO	A1879	106.517	102.096	68.377	1.00	0.68	C
ATOM	14975	CG	PRO	A1879	106.801	101.172	67.192	1.00	0.68	C
ATOM	14976	CD	PRO	A1879	105.804	101.668	66.148	1.00	0.68	C
ATOM	14977	N	SER	A1880	103.983	104.576	68.432	1.00	0.71	N
ATOM	14978	CA	SER	A1880	103.220	105.681	69.029	1.00	0.71	C
ATOM	14979	C	SER	A1880	102.066	105.176	69.892	1.00	0.71	C
ATOM	14980	O	SER	A1880	101.862	105.606	71.028	1.00	0.71	O
ATOM	14981	CB	SER	A1880	102.630	106.596	67.903	1.00	0.71	C
ATOM	14982	OG	SER	A1880	101.692	107.569	68.380	1.00	0.71	O
ATOM	14983	N	CYS	A1881	101.326	104.165	69.389	1.00	0.68	N
ATOM	14984	CA	CYS	A1881	100.204	103.538	70.072	1.00	0.68	C
ATOM	14985	C	CYS	A1881	100.590	102.895	71.403	1.00	0.68	C
ATOM	14986	O	CYS	A1881	99.892	103.030	72.401	1.00	0.68	O
ATOM	14987	CB	CYS	A1881	99.557	102.502	69.109	1.00	0.68	C
ATOM	14988	SG	CYS	A1881	98.015	101.728	69.719	1.00	0.68	S
ATOM	14989	N	SER	A1882	101.755	102.223	71.466	1.00	0.75	N
ATOM	14990	CA	SER	A1882	102.271	101.610	72.686	1.00	0.75	C
ATOM	14991	C	SER	A1882	103.270	102.514	73.394	1.00	0.75	C
ATOM	14992	O	SER	A1882	103.944	102.111	74.338	1.00	0.75	O
ATOM	14993	CB	SER	A1882	102.917	100.219	72.424	1.00	0.75	C
ATOM	14994	OG	SER	A1882	103.627	100.157	71.179	1.00	0.75	O
ATOM	14995	N	TRP	A1883	103.368	103.790	72.977	1.00	0.73	N
ATOM	14996	CA	TRP	A1883	104.142	104.809	73.656	1.00	0.73	C
ATOM	14997	C	TRP	A1883	103.214	105.641	74.523	1.00	0.73	C
ATOM	14998	O	TRP	A1883	103.318	105.628	75.746	1.00	0.73	O
ATOM	14999	CB	TRP	A1883	104.877	105.702	72.609	1.00	0.73	C
ATOM	15000	CG	TRP	A1883	105.684	106.867	73.124	1.00	0.73	C
ATOM	15001	CD1	TRP	A1883	105.452	108.206	73.004	1.00	0.73	C
ATOM	15002	CD2	TRP	A1883	106.911	106.771	73.898	1.00	0.73	C
ATOM	15003	NE1	TRP	A1883	106.440	108.954	73.629	1.00	0.73	N
ATOM	15004	CE2	TRP	A1883	107.327	108.038	74.183	1.00	0.73	C

ATOM	15005	CE3	TRP	A1883	107.596	105.636	74.336	1.00	0.73	C
ATOM	15006	CZ2	TRP	A1883	108.489	108.285	74.939	1.00	0.73	C
ATOM	15007	CZ3	TRP	A1883	108.767	105.855	75.092	1.00	0.73	C
ATOM	15008	CH2	TRP	A1883	109.205	107.150	75.381	1.00	0.73	C
ATOM	15009	N	MET	A1884	102.248	106.364	73.916	1.00	0.74	N
ATOM	15010	CA	MET	A1884	101.315	107.214	74.644	1.00	0.74	C
ATOM	15011	C	MET	A1884	100.385	106.449	75.578	1.00	0.74	C
ATOM	15012	O	MET	A1884	100.124	106.858	76.712	1.00	0.74	O
ATOM	15013	CB	MET	A1884	100.448	108.037	73.660	1.00	0.74	C
ATOM	15014	CG	MET	A1884	101.245	109.093	72.870	1.00	0.74	C
ATOM	15015	SD	MET	A1884	100.262	110.037	71.658	1.00	0.74	S
ATOM	15016	CE	MET	A1884	99.000	110.703	72.783	1.00	0.74	C
ATOM	15017	N	CYS	A1885	99.871	105.305	75.092	1.00	0.72	N
ATOM	15018	CA	CYS	A1885	98.919	104.459	75.780	1.00	0.72	C
ATOM	15019	C	CYS	A1885	99.617	103.204	76.275	1.00	0.72	C
ATOM	15020	O	CYS	A1885	99.333	102.099	75.818	1.00	0.72	O
ATOM	15021	CB	CYS	A1885	97.746	104.082	74.834	1.00	0.72	C
ATOM	15022	SG	CYS	A1885	97.032	105.532	73.983	1.00	0.72	S
ATOM	15023	N	LEU	A1886	100.583	103.372	77.209	1.00	0.74	N
ATOM	15024	CA	LEU	A1886	101.422	102.351	77.827	1.00	0.74	C
ATOM	15025	C	LEU	A1886	100.775	100.991	78.065	1.00	0.74	C
ATOM	15026	O	LEU	A1886	99.804	100.866	78.811	1.00	0.74	O
ATOM	15027	CB	LEU	A1886	101.990	102.784	79.209	1.00	0.74	C
ATOM	15028	CG	LEU	A1886	102.670	104.165	79.311	1.00	0.74	C
ATOM	15029	CD1	LEU	A1886	101.699	105.325	79.566	1.00	0.74	C
ATOM	15030	CD2	LEU	A1886	103.645	104.150	80.494	1.00	0.74	C
ATOM	15031	N	LYS	A1887	101.308	99.920	77.449	1.00	0.72	N
ATOM	15032	CA	LYS	A1887	100.643	98.643	77.540	1.00	0.72	C
ATOM	15033	C	LYS	A1887	101.594	97.515	77.181	1.00	0.72	C
ATOM	15034	O	LYS	A1887	102.516	97.726	76.409	1.00	0.72	O
ATOM	15035	CB	LYS	A1887	99.459	98.640	76.546	1.00	0.72	C
ATOM	15036	CG	LYS	A1887	98.319	97.712	76.960	1.00	0.72	C
ATOM	15037	CD	LYS	A1887	97.472	98.259	78.125	1.00	0.72	C
ATOM	15038	CE	LYS	A1887	96.222	97.429	78.434	1.00	0.72	C
ATOM	15039	NZ	LYS	A1887	95.359	97.364	77.236	1.00	0.72	N
ATOM	15040	N	THR	A1888	101.406	96.280	77.696	1.00	0.44	N
ATOM	15041	CA	THR	A1888	102.235	95.118	77.345	1.00	0.44	C
ATOM	15042	C	THR	A1888	101.983	94.594	75.941	1.00	0.44	C
ATOM	15043	O	THR	A1888	100.981	94.938	75.321	1.00	0.44	O
ATOM	15044	CB	THR	A1888	102.096	93.945	78.312	1.00	0.44	C
ATOM	15045	OG1	THR	A1888	100.756	93.477	78.403	1.00	0.44	O
ATOM	15046	CG2	THR	A1888	102.493	94.432	79.706	1.00	0.44	C
ATOM	15047	N	LEU	A1889	102.888	93.743	75.385	1.00	0.37	N
ATOM	15048	CA	LEU	A1889	102.822	93.337	73.978	1.00	0.37	C
ATOM	15049	C	LEU	A1889	101.538	92.666	73.552	1.00	0.37	C
ATOM	15050	O	LEU	A1889	100.901	93.084	72.585	1.00	0.37	O
ATOM	15051	CB	LEU	A1889	104.025	92.458	73.549	1.00	0.37	C
ATOM	15052	CG	LEU	A1889	104.018	91.982	72.071	1.00	0.37	C
ATOM	15053	CD1	LEU	A1889	105.449	91.904	71.538	1.00	0.37	C
ATOM	15054	CD2	LEU	A1889	103.365	90.603	71.897	1.00	0.37	C
ATOM	15055	N	ASP	A1890	101.073	91.670	74.318	1.00	0.43	N
ATOM	15056	CA	ASP	A1890	99.868	90.904	74.075	1.00	0.43	C
ATOM	15057	C	ASP	A1890	98.647	91.818	74.059	1.00	0.43	C
ATOM	15058	O	ASP	A1890	97.668	91.641	73.340	1.00	0.43	O
ATOM	15059	CB	ASP	A1890	99.758	89.824	75.186	1.00	0.43	C
ATOM	15060	CG	ASP	A1890	101.137	89.227	75.447	1.00	0.43	C
ATOM	15061	OD1	ASP	A1890	101.816	88.827	74.468	1.00	0.43	O
ATOM	15062	OD2	ASP	A1890	101.573	89.316	76.621	1.00	0.43	O
ATOM	15063	N	SER	A1891	98.744	92.897	74.852	1.00	0.43	N
ATOM	15064	CA	SER	A1891	97.688	93.850	75.082	1.00	0.43	C
ATOM	15065	C	SER	A1891	97.790	95.093	74.204	1.00	0.43	C
ATOM	15066	O	SER	A1891	96.929	95.968	74.307	1.00	0.43	O
ATOM	15067	CB	SER	A1891	97.716	94.314	76.556	1.00	0.43	C
ATOM	15068	OG	SER	A1891	97.252	93.300	77.440	1.00	0.43	O
ATOM	15069	N	TRP	A1892	98.802	95.214	73.305	1.00	0.27	N

ATOM	15070	CA	TRP	A1892	98.867	96.286	72.312	1.00	0.27	C
ATOM	15071	C	TRP	A1892	98.485	95.773	70.935	1.00	0.27	C
ATOM	15072	O	TRP	A1892	98.330	96.544	69.983	1.00	0.27	O
ATOM	15073	CB	TRP	A1892	100.269	96.997	72.248	1.00	0.27	C
ATOM	15074	CG	TRP	A1892	101.518	96.305	71.641	1.00	0.27	C
ATOM	15075	CD1	TRP	A1892	101.684	95.536	70.516	1.00	0.27	C
ATOM	15076	CD2	TRP	A1892	102.816	96.396	72.248	1.00	0.27	C
ATOM	15077	NE1	TRP	A1892	102.998	95.131	70.407	1.00	0.27	N
ATOM	15078	CE2	TRP	A1892	103.720	95.667	71.432	1.00	0.27	C
ATOM	15079	CE3	TRP	A1892	103.250	96.966	73.430	1.00	0.27	C
ATOM	15080	CZ2	TRP	A1892	105.052	95.534	71.791	1.00	0.27	C
ATOM	15081	CZ3	TRP	A1892	104.565	96.734	73.846	1.00	0.27	C
ATOM	15082	CH2	TRP	A1892	105.465	96.035	73.031	1.00	0.27	C
ATOM	15083	N	ALA	A1893	98.333	94.441	70.817	1.00	0.45	N
ATOM	15084	CA	ALA	A1893	98.238	93.693	69.586	1.00	0.45	C
ATOM	15085	C	ALA	A1893	96.827	93.581	69.024	1.00	0.45	C
ATOM	15086	O	ALA	A1893	96.260	92.493	68.918	1.00	0.45	O
ATOM	15087	CB	ALA	A1893	98.852	92.295	69.807	1.00	0.45	C
ATOM	15088	N	TRP	A1894	96.226	94.719	68.609	1.00	0.23	N
ATOM	15089	CA	TRP	A1894	94.931	94.759	67.937	1.00	0.23	C
ATOM	15090	C	TRP	A1894	94.897	93.873	66.688	1.00	0.23	C
ATOM	15091	O	TRP	A1894	95.595	94.128	65.708	1.00	0.23	O
ATOM	15092	CB	TRP	A1894	94.535	96.217	67.564	1.00	0.23	C
ATOM	15093	CG	TRP	A1894	93.157	96.372	66.928	1.00	0.23	C
ATOM	15094	CD1	TRP	A1894	92.833	96.504	65.604	1.00	0.23	C
ATOM	15095	CD2	TRP	A1894	91.913	96.325	67.649	1.00	0.23	C
ATOM	15096	NE1	TRP	A1894	91.464	96.563	65.453	1.00	0.23	N
ATOM	15097	CE2	TRP	A1894	90.879	96.442	66.692	1.00	0.23	C
ATOM	15098	CE3	TRP	A1894	91.627	96.184	69.005	1.00	0.23	C
ATOM	15099	CZ2	TRP	A1894	89.546	96.418	67.078	1.00	0.23	C
ATOM	15100	CZ3	TRP	A1894	90.279	96.161	69.393	1.00	0.23	C
ATOM	15101	CH2	TRP	A1894	89.252	96.274	68.443	1.00	0.23	C
ATOM	15102	N	ASN	A1895	94.118	92.770	66.747	1.00	0.21	N
ATOM	15103	CA	ASN	A1895	94.047	91.713	65.746	1.00	0.21	C
ATOM	15104	C	ASN	A1895	95.400	91.115	65.365	1.00	0.21	C
ATOM	15105	O	ASN	A1895	95.654	90.810	64.204	1.00	0.21	O
ATOM	15106	CB	ASN	A1895	93.236	92.147	64.499	1.00	0.21	C
ATOM	15107	CG	ASN	A1895	91.815	92.470	64.938	1.00	0.21	C
ATOM	15108	OD1	ASN	A1895	91.286	91.895	65.890	1.00	0.21	O
ATOM	15109	ND2	ASN	A1895	91.157	93.412	64.229	1.00	0.21	N
ATOM	15110	N	GLN	A1896	96.288	90.940	66.373	1.00	0.39	N
ATOM	15111	CA	GLN	A1896	97.610	90.341	66.259	1.00	0.39	C
ATOM	15112	C	GLN	A1896	98.646	91.264	65.614	1.00	0.39	C
ATOM	15113	O	GLN	A1896	99.739	90.844	65.237	1.00	0.39	O
ATOM	15114	CB	GLN	A1896	97.605	88.911	65.642	1.00	0.39	C
ATOM	15115	CG	GLN	A1896	96.754	87.881	66.428	1.00	0.39	C
ATOM	15116	CD	GLN	A1896	97.362	87.583	67.800	1.00	0.39	C
ATOM	15117	OE1	GLN	A1896	98.484	87.091	67.909	1.00	0.39	O
ATOM	15118	NE2	GLN	A1896	96.618	87.875	68.891	1.00	0.39	N
ATOM	15119	N	ALA	A1897	98.362	92.582	65.520	1.00	0.46	N
ATOM	15120	CA	ALA	A1897	99.307	93.554	65.007	1.00	0.46	C
ATOM	15121	C	ALA	A1897	100.455	93.862	65.972	1.00	0.46	C
ATOM	15122	O	ALA	A1897	100.318	94.611	66.941	1.00	0.46	O
ATOM	15123	CB	ALA	A1897	98.571	94.856	64.639	1.00	0.46	C
ATOM	15124	N	ALA	A1898	101.638	93.285	65.701	1.00	0.49	N
ATOM	15125	CA	ALA	A1898	102.818	93.420	66.519	1.00	0.49	C
ATOM	15126	C	ALA	A1898	103.624	94.685	66.196	1.00	0.49	C
ATOM	15127	O	ALA	A1898	103.427	95.333	65.174	1.00	0.49	O
ATOM	15128	CB	ALA	A1898	103.652	92.131	66.364	1.00	0.49	C
ATOM	15129	N	ARG	A1899	104.545	95.094	67.100	1.00	0.54	N
ATOM	15130	CA	ARG	A1899	105.288	96.344	66.957	1.00	0.54	C
ATOM	15131	C	ARG	A1899	106.784	96.139	66.823	1.00	0.54	C
ATOM	15132	O	ARG	A1899	107.476	96.895	66.145	1.00	0.54	O
ATOM	15133	CB	ARG	A1899	105.076	97.217	68.223	1.00	0.54	C
ATOM	15134	CG	ARG	A1899	103.611	97.633	68.425	1.00	0.54	C

ATOM	15135	CD	ARG	A1899	103.128	98.743	67.490	1.00	0.54	C
ATOM	15136	NE	ARG	A1899	101.646	98.610	67.348	1.00	0.54	N
ATOM	15137	CZ	ARG	A1899	100.761	98.745	68.342	1.00	0.54	C
ATOM	15138	NH1	ARG	A1899	101.072	99.304	69.505	1.00	0.54	N
ATOM	15139	NH2	ARG	A1899	99.530	98.274	68.163	1.00	0.54	N
ATOM	15140	N	VAL	A1900	107.338	95.103	67.481	1.00	0.67	N
ATOM	15141	CA	VAL	A1900	108.769	94.849	67.491	1.00	0.67	C
ATOM	15142	C	VAL	A1900	109.294	94.320	66.163	1.00	0.67	C
ATOM	15143	O	VAL	A1900	110.407	94.632	65.752	1.00	0.67	O
ATOM	15144	CB	VAL	A1900	109.191	93.964	68.666	1.00	0.67	C
ATOM	15145	CG1	VAL	A1900	108.807	94.676	69.981	1.00	0.67	C
ATOM	15146	CG2	VAL	A1900	108.561	92.557	68.608	1.00	0.67	C
ATOM	15147	N	LEU	A1901	108.479	93.524	65.434	1.00	0.57	N
ATOM	15148	CA	LEU	A1901	108.894	92.782	64.254	1.00	0.57	C
ATOM	15149	C	LEU	A1901	109.421	93.634	63.105	1.00	0.57	C
ATOM	15150	O	LEU	A1901	110.473	93.346	62.537	1.00	0.57	O
ATOM	15151	CB	LEU	A1901	107.782	91.802	63.781	1.00	0.57	C
ATOM	15152	CG	LEU	A1901	106.570	92.366	62.996	1.00	0.57	C
ATOM	15153	CD1	LEU	A1901	105.610	91.215	62.657	1.00	0.57	C
ATOM	15154	CD2	LEU	A1901	105.804	93.479	63.727	1.00	0.57	C
ATOM	15155	N	GLU	A1902	108.728	94.746	62.787	1.00	0.60	N
ATOM	15156	CA	GLU	A1902	109.117	95.709	61.783	1.00	0.60	C
ATOM	15157	C	GLU	A1902	110.399	96.444	62.118	1.00	0.60	C
ATOM	15158	O	GLU	A1902	111.239	96.707	61.262	1.00	0.60	O
ATOM	15159	CB	GLU	A1902	108.069	96.836	61.633	1.00	0.60	C
ATOM	15160	CG	GLU	A1902	106.695	96.461	61.026	1.00	0.60	C
ATOM	15161	CD	GLU	A1902	105.915	97.724	60.653	1.00	0.60	C
ATOM	15162	OE1	GLU	A1902	106.465	98.835	60.908	1.00	0.60	O
ATOM	15163	OE2	GLU	A1902	104.812	97.611	60.069	1.00	0.60	O
ATOM	15164	N	ARG	A1903	110.566	96.842	63.394	1.00	0.59	N
ATOM	15165	CA	ARG	A1903	111.572	97.812	63.777	1.00	0.59	C
ATOM	15166	C	ARG	A1903	112.896	97.126	64.084	1.00	0.59	C
ATOM	15167	O	ARG	A1903	113.903	97.795	64.294	1.00	0.59	O
ATOM	15168	CB	ARG	A1903	111.092	98.672	64.983	1.00	0.59	C
ATOM	15169	CG	ARG	A1903	109.954	99.681	64.671	1.00	0.59	C
ATOM	15170	CD	ARG	A1903	110.408	101.022	64.067	1.00	0.59	C
ATOM	15171	NE	ARG	A1903	109.166	101.830	63.779	1.00	0.59	N
ATOM	15172	CZ	ARG	A1903	108.904	103.074	64.221	1.00	0.59	C
ATOM	15173	NH1	ARG	A1903	109.600	103.657	65.184	1.00	0.59	N
ATOM	15174	NH2	ARG	A1903	107.893	103.744	63.668	1.00	0.59	N
ATOM	15175	N	ASN	A1904	112.939	95.777	63.999	1.00	0.64	N
ATOM	15176	CA	ASN	A1904	114.148	94.970	64.063	1.00	0.64	C
ATOM	15177	C	ASN	A1904	115.189	95.333	63.001	1.00	0.64	C
ATOM	15178	O	ASN	A1904	116.381	95.419	63.288	1.00	0.64	O
ATOM	15179	CB	ASN	A1904	113.794	93.473	63.839	1.00	0.64	C
ATOM	15180	CG	ASN	A1904	113.184	92.849	65.088	1.00	0.64	C
ATOM	15181	OD1	ASN	A1904	113.507	93.190	66.225	1.00	0.64	O
ATOM	15182	ND2	ASN	A1904	112.318	91.832	64.877	1.00	0.64	N
ATOM	15183	N	ILE	A1905	114.762	95.559	61.739	1.00	0.57	N
ATOM	15184	CA	ILE	A1905	115.680	95.854	60.642	1.00	0.57	C
ATOM	15185	C	ILE	A1905	115.563	97.287	60.133	1.00	0.57	C
ATOM	15186	O	ILE	A1905	116.231	97.669	59.178	1.00	0.57	O
ATOM	15187	CB	ILE	A1905	115.560	94.872	59.479	1.00	0.57	C
ATOM	15188	CG1	ILE	A1905	114.162	94.882	58.818	1.00	0.57	C
ATOM	15189	CG2	ILE	A1905	115.965	93.467	59.984	1.00	0.57	C
ATOM	15190	CD1	ILE	A1905	114.146	94.119	57.488	1.00	0.57	C
ATOM	15191	N	LYS	A1906	114.778	98.154	60.811	1.00	0.55	N
ATOM	15192	CA	LYS	A1906	114.628	99.559	60.425	1.00	0.55	C
ATOM	15193	C	LYS	A1906	115.648	100.454	61.127	1.00	0.55	C
ATOM	15194	O	LYS	A1906	115.647	101.670	60.961	1.00	0.55	O
ATOM	15195	CB	LYS	A1906	113.198	100.096	60.744	1.00	0.55	C
ATOM	15196	CG	LYS	A1906	112.109	99.559	59.792	1.00	0.55	C
ATOM	15197	CD	LYS	A1906	110.669	100.009	60.136	1.00	0.55	C
ATOM	15198	CE	LYS	A1906	109.628	99.488	59.124	1.00	0.55	C
ATOM	15199	NZ	LYS	A1906	108.244	99.918	59.428	1.00	0.55	N

ATOM	15200	N	THR	A1907	116.559	99.871	61.933	1.00	0.54	N
ATOM	15201	CA	THR	A1907	117.760	100.559	62.417	1.00	0.54	C
ATOM	15202	C	THR	A1907	118.946	100.400	61.462	1.00	0.54	C
ATOM	15203	O	THR	A1907	119.627	101.399	61.232	1.00	0.54	O
ATOM	15204	CB	THR	A1907	118.149	100.186	63.849	1.00	0.54	C
ATOM	15205	OG1	THR	A1907	117.105	100.544	64.740	1.00	0.54	O
ATOM	15206	CG2	THR	A1907	119.395	100.950	64.326	1.00	0.54	C
ATOM	15207	N	PRO	A1908	119.275	99.245	60.852	1.00	0.61	N
ATOM	15208	CA	PRO	A1908	120.270	99.177	59.777	1.00	0.61	C
ATOM	15209	C	PRO	A1908	119.996	100.011	58.532	1.00	0.61	C
ATOM	15210	O	PRO	A1908	120.948	100.531	57.955	1.00	0.61	O
ATOM	15211	CB	PRO	A1908	120.318	97.683	59.417	1.00	0.61	C
ATOM	15212	CG	PRO	A1908	120.018	96.967	60.734	1.00	0.61	C
ATOM	15213	CD	PRO	A1908	119.040	97.916	61.433	1.00	0.61	C
ATOM	15214	N	GLY	A1909	118.732	100.114	58.074	1.00	0.57	N
ATOM	15215	CA	GLY	A1909	118.359	100.914	56.912	1.00	0.57	C
ATOM	15216	C	GLY	A1909	117.409	101.993	57.333	1.00	0.57	C
ATOM	15217	O	GLY	A1909	116.381	101.724	57.948	1.00	0.57	O
ATOM	15218	N	ILE	A1910	117.729	103.266	57.020	1.00	0.47	N
ATOM	15219	CA	ILE	A1910	116.881	104.400	57.356	1.00	0.47	C
ATOM	15220	C	ILE	A1910	115.813	104.584	56.286	1.00	0.47	C
ATOM	15221	O	ILE	A1910	115.886	105.450	55.415	1.00	0.47	O
ATOM	15222	CB	ILE	A1910	117.645	105.700	57.653	1.00	0.47	C
ATOM	15223	CG1	ILE	A1910	118.582	105.545	58.881	1.00	0.47	C
ATOM	15224	CG2	ILE	A1910	116.653	106.853	57.962	1.00	0.47	C
ATOM	15225	CD1	ILE	A1910	119.970	104.951	58.601	1.00	0.47	C
ATOM	15226	N	ASP	A1911	114.768	103.745	56.364	1.00	0.45	N
ATOM	15227	CA	ASP	A1911	113.590	103.843	55.538	1.00	0.45	C
ATOM	15228	C	ASP	A1911	112.422	104.244	56.436	1.00	0.45	C
ATOM	15229	O	ASP	A1911	111.784	103.423	57.101	1.00	0.45	O
ATOM	15230	CB	ASP	A1911	113.312	102.477	54.867	1.00	0.45	C
ATOM	15231	CG	ASP	A1911	114.439	102.129	53.908	1.00	0.45	C
ATOM	15232	OD1	ASP	A1911	115.347	101.358	54.314	1.00	0.45	O
ATOM	15233	OD2	ASP	A1911	114.377	102.615	52.751	1.00	0.45	O
ATOM	15234	N	ASN	A1912	112.101	105.553	56.488	1.00	0.47	N
ATOM	15235	CA	ASN	A1912	111.047	106.054	57.344	1.00	0.47	C
ATOM	15236	C	ASN	A1912	110.556	107.429	56.903	1.00	0.47	C
ATOM	15237	O	ASN	A1912	111.180	108.135	56.117	1.00	0.47	O
ATOM	15238	CB	ASN	A1912	111.426	106.021	58.862	1.00	0.47	C
ATOM	15239	CG	ASN	A1912	112.788	106.653	59.159	1.00	0.47	C
ATOM	15240	OD1	ASN	A1912	113.196	107.658	58.585	1.00	0.47	O
ATOM	15241	ND2	ASN	A1912	113.519	106.060	60.132	1.00	0.47	N
ATOM	15242	N	THR	A1913	109.362	107.814	57.391	1.00	0.46	N
ATOM	15243	CA	THR	A1913	108.721	109.105	57.150	1.00	0.46	C
ATOM	15244	C	THR	A1913	108.460	109.788	58.474	1.00	0.46	C
ATOM	15245	O	THR	A1913	107.581	110.636	58.606	1.00	0.46	O
ATOM	15246	CB	THR	A1913	107.391	108.978	56.416	1.00	0.46	C
ATOM	15247	OG1	THR	A1913	106.590	107.941	56.975	1.00	0.46	O
ATOM	15248	CG2	THR	A1913	107.670	108.601	54.956	1.00	0.46	C
ATOM	15249	N	ALA	A1914	109.222	109.403	59.507	1.00	0.48	N
ATOM	15250	CA	ALA	A1914	109.029	109.860	60.859	1.00	0.48	C
ATOM	15251	C	ALA	A1914	110.396	110.040	61.493	1.00	0.48	C
ATOM	15252	O	ALA	A1914	111.349	110.474	60.853	1.00	0.48	O
ATOM	15253	CB	ALA	A1914	108.129	108.870	61.635	1.00	0.48	C
ATOM	15254	N	MET	A1915	110.533	109.738	62.789	1.00	0.52	N
ATOM	15255	CA	MET	A1915	111.771	109.886	63.519	1.00	0.52	C
ATOM	15256	C	MET	A1915	112.983	109.088	63.034	1.00	0.52	C
ATOM	15257	O	MET	A1915	112.900	107.942	62.601	1.00	0.52	O
ATOM	15258	CB	MET	A1915	111.540	109.571	65.008	1.00	0.52	C
ATOM	15259	CG	MET	A1915	111.269	108.088	65.350	1.00	0.52	C
ATOM	15260	SD	MET	A1915	109.634	107.396	64.947	1.00	0.52	S
ATOM	15261	CE	MET	A1915	110.172	106.428	63.510	1.00	0.52	C
ATOM	15262	N	GLY	A1916	114.183	109.693	63.154	1.00	0.56	N
ATOM	15263	CA	GLY	A1916	115.442	108.999	62.911	1.00	0.56	C
ATOM	15264	C	GLY	A1916	116.042	108.501	64.198	1.00	0.56	C

ATOM	15265	O	GLY	A1916	115.541	107.574	64.828	1.00	0.56	O
ATOM	15266	N	ASN	A1917	117.151	109.135	64.636	1.00	0.63	N
ATOM	15267	CA	ASN	A1917	117.985	108.676	65.738	1.00	0.63	C
ATOM	15268	C	ASN	A1917	117.250	108.500	67.065	1.00	0.63	C
ATOM	15269	O	ASN	A1917	117.477	107.521	67.764	1.00	0.63	O
ATOM	15270	CB	ASN	A1917	119.198	109.630	65.908	1.00	0.63	C
ATOM	15271	CG	ASN	A1917	120.362	108.918	66.599	1.00	0.63	C
ATOM	15272	OD1	ASN	A1917	121.008	108.070	65.980	1.00	0.63	O
ATOM	15273	ND2	ASN	A1917	120.637	109.259	67.872	1.00	0.63	N
ATOM	15274	N	ILE	A1918	116.294	109.400	67.388	1.00	0.63	N
ATOM	15275	CA	ILE	A1918	115.555	109.452	68.649	1.00	0.63	C
ATOM	15276	C	ILE	A1918	114.857	108.133	68.997	1.00	0.63	C
ATOM	15277	O	ILE	A1918	114.734	107.742	70.157	1.00	0.63	O
ATOM	15278	CB	ILE	A1918	114.543	110.608	68.658	1.00	0.63	C
ATOM	15279	CG1	ILE	A1918	115.184	111.945	68.203	1.00	0.63	C
ATOM	15280	CG2	ILE	A1918	113.985	110.783	70.091	1.00	0.63	C
ATOM	15281	CD1	ILE	A1918	114.153	113.056	67.951	1.00	0.63	C
ATOM	15282	N	PHE	A1919	114.394	107.364	67.984	1.00	0.64	N
ATOM	15283	CA	PHE	A1919	113.890	106.016	68.200	1.00	0.64	C
ATOM	15284	C	PHE	A1919	114.948	105.051	68.737	1.00	0.64	C
ATOM	15285	O	PHE	A1919	114.675	104.284	69.655	1.00	0.64	O
ATOM	15286	CB	PHE	A1919	113.269	105.452	66.893	1.00	0.64	C
ATOM	15287	CG	PHE	A1919	112.615	104.113	67.104	1.00	0.64	C
ATOM	15288	CD1	PHE	A1919	111.427	104.001	67.847	1.00	0.64	C
ATOM	15289	CD2	PHE	A1919	113.227	102.951	66.612	1.00	0.64	C
ATOM	15290	CE1	PHE	A1919	110.848	102.744	68.074	1.00	0.64	C
ATOM	15291	CE2	PHE	A1919	112.663	101.695	66.853	1.00	0.64	C
ATOM	15292	CZ	PHE	A1919	111.463	101.592	67.568	1.00	0.64	C
ATOM	15293	N	LYS	A1920	116.183	105.084	68.199	1.00	0.67	N
ATOM	15294	CA	LYS	A1920	117.292	104.282	68.682	1.00	0.67	C
ATOM	15295	C	LYS	A1920	117.723	104.676	70.088	1.00	0.67	C
ATOM	15296	O	LYS	A1920	117.906	103.811	70.942	1.00	0.67	O
ATOM	15297	CB	LYS	A1920	118.496	104.340	67.707	1.00	0.67	C
ATOM	15298	CG	LYS	A1920	119.621	103.364	68.092	1.00	0.67	C
ATOM	15299	CD	LYS	A1920	120.747	103.281	67.050	1.00	0.67	C
ATOM	15300	CE	LYS	A1920	121.789	102.218	67.428	1.00	0.67	C
ATOM	15301	NZ	LYS	A1920	122.792	102.047	66.352	1.00	0.67	N
ATOM	15302	N	ASP	A1921	117.808	105.995	70.376	1.00	0.74	N
ATOM	15303	CA	ASP	A1921	118.115	106.535	71.694	1.00	0.74	C
ATOM	15304	C	ASP	A1921	117.094	106.084	72.748	1.00	0.74	C
ATOM	15305	O	ASP	A1921	117.411	105.689	73.867	1.00	0.74	O
ATOM	15306	CB	ASP	A1921	118.146	108.091	71.646	1.00	0.74	C
ATOM	15307	CG	ASP	A1921	119.085	108.604	70.569	1.00	0.74	C
ATOM	15308	OD1	ASP	A1921	120.223	108.084	70.467	1.00	0.74	O
ATOM	15309	OD2	ASP	A1921	118.676	109.528	69.814	1.00	0.74	O
ATOM	15310	N	CYS	A1922	115.800	106.082	72.371	1.00	0.71	N
ATOM	15311	CA	CYS	A1922	114.707	105.524	73.148	1.00	0.71	C
ATOM	15312	C	CYS	A1922	114.806	104.007	73.365	1.00	0.71	C
ATOM	15313	O	CYS	A1922	114.527	103.511	74.459	1.00	0.71	O
ATOM	15314	CB	CYS	A1922	113.363	105.918	72.456	1.00	0.71	C
ATOM	15315	SG	CYS	A1922	111.808	105.392	73.274	1.00	0.71	S
ATOM	15316	N	LEU	A1923	115.201	103.218	72.341	1.00	0.70	N
ATOM	15317	CA	LEU	A1923	115.100	101.761	72.378	1.00	0.70	C
ATOM	15318	C	LEU	A1923	116.358	101.011	72.828	1.00	0.70	C
ATOM	15319	O	LEU	A1923	116.295	99.793	73.016	1.00	0.70	O
ATOM	15320	CB	LEU	A1923	114.590	101.183	71.031	1.00	0.70	C
ATOM	15321	CG	LEU	A1923	113.294	100.357	71.174	1.00	0.70	C
ATOM	15322	CD1	LEU	A1923	112.069	101.268	71.368	1.00	0.70	C
ATOM	15323	CD2	LEU	A1923	113.106	99.450	69.953	1.00	0.70	C
ATOM	15324	N	GLU	A1924	117.467	101.740	73.135	1.00	0.68	N
ATOM	15325	CA	GLU	A1924	118.659	101.275	73.870	1.00	0.68	C
ATOM	15326	C	GLU	A1924	118.256	100.728	75.235	1.00	0.68	C
ATOM	15327	O	GLU	A1924	118.815	99.804	75.824	1.00	0.68	O
ATOM	15328	CB	GLU	A1924	119.646	102.466	74.115	1.00	0.68	C
ATOM	15329	CG	GLU	A1924	121.035	102.064	74.710	1.00	0.68	C

ATOM	15330	CD	GLU	A1924	121.913	103.199	75.275	1.00	0.68	C
ATOM	15331	OE1	GLU	A1924	121.418	104.333	75.498	1.00	0.68	O
ATOM	15332	OE2	GLU	A1924	123.114	102.923	75.553	1.00	0.68	O
ATOM	15333	N	SER	A1925	117.181	101.323	75.758	1.00	0.75	N
ATOM	15334	CA	SER	A1925	116.545	101.049	77.020	1.00	0.75	C
ATOM	15335	C	SER	A1925	115.944	99.658	77.264	1.00	0.75	C
ATOM	15336	O	SER	A1925	115.240	99.462	78.254	1.00	0.75	O
ATOM	15337	CB	SER	A1925	115.434	102.089	77.279	1.00	0.75	C
ATOM	15338	OG	SER	A1925	115.863	103.425	77.033	1.00	0.75	O
ATOM	15339	N	SER	A1926	116.238	98.609	76.462	1.00	0.73	N
ATOM	15340	CA	SER	A1926	115.904	97.223	76.815	1.00	0.73	C
ATOM	15341	C	SER	A1926	116.651	96.775	78.056	1.00	0.73	C
ATOM	15342	O	SER	A1926	116.165	95.950	78.831	1.00	0.73	O
ATOM	15343	CB	SER	A1926	116.198	96.197	75.690	1.00	0.73	C
ATOM	15344	OG	SER	A1926	117.422	96.490	75.025	1.00	0.73	O
ATOM	15345	N	LEU	A1927	117.821	97.401	78.316	1.00	0.63	N
ATOM	15346	CA	LEU	A1927	118.654	97.218	79.491	1.00	0.63	C
ATOM	15347	C	LEU	A1927	117.913	97.347	80.821	1.00	0.63	C
ATOM	15348	O	LEU	A1927	118.228	96.639	81.772	1.00	0.63	O
ATOM	15349	CB	LEU	A1927	119.844	98.210	79.488	1.00	0.63	C
ATOM	15350	CG	LEU	A1927	120.966	97.862	80.494	1.00	0.63	C
ATOM	15351	CD1	LEU	A1927	121.773	96.636	80.039	1.00	0.63	C
ATOM	15352	CD2	LEU	A1927	121.899	99.063	80.693	1.00	0.63	C
ATOM	15353	N	ARG	A1928	116.866	98.203	80.900	1.00	0.60	N
ATOM	15354	CA	ARG	A1928	116.008	98.354	82.070	1.00	0.60	C
ATOM	15355	C	ARG	A1928	115.314	97.038	82.465	1.00	0.60	C
ATOM	15356	O	ARG	A1928	115.278	96.634	83.624	1.00	0.60	O
ATOM	15357	CB	ARG	A1928	114.870	99.375	81.783	1.00	0.60	C
ATOM	15358	CG	ARG	A1928	115.268	100.785	81.290	1.00	0.60	C
ATOM	15359	CD	ARG	A1928	114.068	101.645	80.834	1.00	0.60	C
ATOM	15360	NE	ARG	A1928	113.435	100.909	79.681	1.00	0.60	N
ATOM	15361	CZ	ARG	A1928	112.455	101.353	78.890	1.00	0.60	C
ATOM	15362	NH1	ARG	A1928	111.851	102.514	79.120	1.00	0.60	N
ATOM	15363	NH2	ARG	A1928	112.056	100.634	77.838	1.00	0.60	N
ATOM	15364	N	LYS	A1929	114.780	96.280	81.476	1.00	0.67	N
ATOM	15365	CA	LYS	A1929	114.137	94.993	81.719	1.00	0.67	C
ATOM	15366	C	LYS	A1929	115.169	93.887	81.889	1.00	0.67	C
ATOM	15367	O	LYS	A1929	114.903	92.840	82.470	1.00	0.67	O
ATOM	15368	CB	LYS	A1929	113.108	94.642	80.607	1.00	0.67	C
ATOM	15369	CG	LYS	A1929	111.670	94.530	81.149	1.00	0.67	C
ATOM	15370	CD	LYS	A1929	110.625	94.303	80.042	1.00	0.67	C
ATOM	15371	CE	LYS	A1929	110.058	92.885	80.101	1.00	0.67	C
ATOM	15372	NZ	LYS	A1929	109.171	92.579	78.966	1.00	0.67	N
ATOM	15373	N	GLN	A1930	116.421	94.151	81.467	1.00	0.60	N
ATOM	15374	CA	GLN	A1930	117.554	93.286	81.724	1.00	0.60	C
ATOM	15375	C	GLN	A1930	118.238	93.674	83.034	1.00	0.60	C
ATOM	15376	O	GLN	A1930	119.318	93.176	83.343	1.00	0.60	O
ATOM	15377	CB	GLN	A1930	118.615	93.345	80.583	1.00	0.60	C
ATOM	15378	CG	GLN	A1930	118.086	93.064	79.152	1.00	0.60	C
ATOM	15379	CD	GLN	A1930	117.539	91.649	78.967	1.00	0.60	C
ATOM	15380	OE1	GLN	A1930	117.503	90.814	79.876	1.00	0.60	O
ATOM	15381	NE2	GLN	A1930	117.089	91.362	77.725	1.00	0.60	N
ATOM	15382	N	GLY	A1931	117.624	94.578	83.833	1.00	0.71	N
ATOM	15383	CA	GLY	A1931	118.065	94.978	85.167	1.00	0.71	C
ATOM	15384	C	GLY	A1931	117.248	94.333	86.250	1.00	0.71	C
ATOM	15385	O	GLY	A1931	117.621	94.350	87.416	1.00	0.71	O
ATOM	15386	N	LEU	A1932	116.117	93.692	85.890	1.00	0.55	N
ATOM	15387	CA	LEU	A1932	115.317	92.921	86.833	1.00	0.55	C
ATOM	15388	C	LEU	A1932	115.923	91.545	87.085	1.00	0.55	C
ATOM	15389	O	LEU	A1932	115.586	90.846	88.037	1.00	0.55	O
ATOM	15390	CB	LEU	A1932	113.866	92.726	86.319	1.00	0.55	C
ATOM	15391	CG	LEU	A1932	113.068	94.026	86.078	1.00	0.55	C
ATOM	15392	CD1	LEU	A1932	111.631	93.683	85.653	1.00	0.55	C
ATOM	15393	CD2	LEU	A1932	113.039	94.945	87.310	1.00	0.55	C
ATOM	15394	N	LEU	A1933	116.865	91.145	86.217	1.00	0.56	N



ATOM	15395	CA	LEU	A1933	117.547	89.876	86.231	1.00	0.56	C
ATOM	15396	C	LEU	A1933	118.968	90.163	85.775	1.00	0.56	C
ATOM	15397	O	LEU	A1933	119.359	91.305	85.566	1.00	0.56	O
ATOM	15398	CB	LEU	A1933	116.905	88.828	85.278	1.00	0.56	C
ATOM	15399	CG	LEU	A1933	115.473	88.380	85.638	1.00	0.56	C
ATOM	15400	CD1	LEU	A1933	114.897	87.504	84.518	1.00	0.56	C
ATOM	15401	CD2	LEU	A1933	115.400	87.624	86.972	1.00	0.56	C
ATOM	15402	N	ARG	A1934	119.796	89.113	85.623	1.00	0.57	N
ATOM	15403	CA	ARG	A1934	121.180	89.220	85.182	1.00	0.57	C
ATOM	15404	C	ARG	A1934	122.118	89.973	86.122	1.00	0.57	C
ATOM	15405	O	ARG	A1934	122.920	90.809	85.712	1.00	0.57	O
ATOM	15406	CB	ARG	A1934	121.355	89.649	83.694	1.00	0.57	C
ATOM	15407	CG	ARG	A1934	120.697	88.686	82.677	1.00	0.57	C
ATOM	15408	CD	ARG	A1934	119.321	89.136	82.160	1.00	0.57	C
ATOM	15409	NE	ARG	A1934	118.627	87.924	81.598	1.00	0.57	N
ATOM	15410	CZ	ARG	A1934	117.290	87.832	81.530	1.00	0.57	C
ATOM	15411	NH1	ARG	A1934	116.513	88.901	81.563	1.00	0.57	N
ATOM	15412	NH2	ARG	A1934	116.692	86.655	81.400	1.00	0.57	N
ATOM	15413	N	SER	A1935	122.037	89.631	87.420	1.00	0.67	N
ATOM	15414	CA	SER	A1935	122.950	90.005	88.491	1.00	0.67	C
ATOM	15415	C	SER	A1935	124.280	89.272	88.389	1.00	0.67	C
ATOM	15416	O	SER	A1935	124.431	88.327	87.610	1.00	0.67	O
ATOM	15417	CB	SER	A1935	122.344	89.665	89.886	1.00	0.67	C
ATOM	15418	OG	SER	A1935	120.919	89.540	89.815	1.00	0.67	O
ATOM	15419	N	ARG	A1936	125.287	89.643	89.205	1.00	0.66	N
ATOM	15420	CA	ARG	A1936	126.572	88.952	89.192	1.00	0.66	C
ATOM	15421	C	ARG	A1936	126.502	87.548	89.804	1.00	0.66	C
ATOM	15422	O	ARG	A1936	125.500	87.161	90.407	1.00	0.66	O
ATOM	15423	CB	ARG	A1936	127.664	89.789	89.904	1.00	0.66	C
ATOM	15424	CG	ARG	A1936	127.885	91.175	89.261	1.00	0.66	C
ATOM	15425	CD	ARG	A1936	128.934	92.011	90.002	1.00	0.66	C
ATOM	15426	NE	ARG	A1936	129.016	93.347	89.324	1.00	0.66	N
ATOM	15427	CZ	ARG	A1936	129.941	94.262	89.642	1.00	0.66	C
ATOM	15428	NH1	ARG	A1936	130.688	94.141	90.731	1.00	0.66	N
ATOM	15429	NH2	ARG	A1936	130.120	95.334	88.875	1.00	0.66	N
ATOM	15430	N	ILE	A1937	127.559	86.713	89.629	1.00	0.74	N
ATOM	15431	CA	ILE	A1937	127.613	85.375	90.221	1.00	0.74	C
ATOM	15432	C	ILE	A1937	127.602	85.429	91.745	1.00	0.74	C
ATOM	15433	O	ILE	A1937	126.628	85.019	92.364	1.00	0.74	O
ATOM	15434	CB	ILE	A1937	128.816	84.569	89.714	1.00	0.74	C
ATOM	15435	CG1	ILE	A1937	128.746	84.403	88.174	1.00	0.74	C
ATOM	15436	CG2	ILE	A1937	128.872	83.185	90.412	1.00	0.74	C
ATOM	15437	CD1	ILE	A1937	130.022	83.810	87.560	1.00	0.74	C
ATOM	15438	N	ALA	A1938	128.621	86.052	92.378	1.00	0.84	N
ATOM	15439	CA	ALA	A1938	128.759	86.144	93.825	1.00	0.84	C
ATOM	15440	C	ALA	A1938	127.572	86.831	94.491	1.00	0.84	C
ATOM	15441	O	ALA	A1938	126.994	86.366	95.462	1.00	0.84	O
ATOM	15442	CB	ALA	A1938	130.081	86.881	94.121	1.00	0.84	C
ATOM	15443	N	GLU	A1939	127.071	87.914	93.876	1.00	0.76	N
ATOM	15444	CA	GLU	A1939	125.877	88.616	94.307	1.00	0.76	C
ATOM	15445	C	GLU	A1939	124.625	87.742	94.454	1.00	0.76	C
ATOM	15446	O	GLU	A1939	123.785	87.977	95.325	1.00	0.76	O
ATOM	15447	CB	GLU	A1939	125.623	89.746	93.284	1.00	0.76	C
ATOM	15448	CG	GLU	A1939	124.336	90.572	93.514	1.00	0.76	C
ATOM	15449	CD	GLU	A1939	124.279	91.797	92.615	1.00	0.76	C
ATOM	15450	OE1	GLU	A1939	124.624	91.657	91.409	1.00	0.76	O
ATOM	15451	OE2	GLU	A1939	123.900	92.879	93.151	1.00	0.76	O
ATOM	15452	N	MET	A1940	124.472	86.697	93.612	1.00	0.70	N
ATOM	15453	CA	MET	A1940	123.308	85.836	93.639	1.00	0.70	C
ATOM	15454	C	MET	A1940	123.535	84.516	94.368	1.00	0.70	C
ATOM	15455	O	MET	A1940	122.606	83.930	94.919	1.00	0.70	O
ATOM	15456	CB	MET	A1940	122.887	85.582	92.173	1.00	0.70	C
ATOM	15457	CG	MET	A1940	121.510	84.912	91.994	1.00	0.70	C
ATOM	15458	SD	MET	A1940	120.123	85.712	92.872	1.00	0.70	S
ATOM	15459	CE	MET	A1940	120.317	87.443	92.351	1.00	0.70	C

ATOM	15460	N	VAL	A1941	124.786	84.029	94.437	1.00	0.80	N
ATOM	15461	CA	VAL	A1941	125.166	82.876	95.243	1.00	0.80	C
ATOM	15462	C	VAL	A1941	125.061	83.154	96.735	1.00	0.80	C
ATOM	15463	O	VAL	A1941	124.480	82.389	97.504	1.00	0.80	O
ATOM	15464	CB	VAL	A1941	126.551	82.406	94.850	1.00	0.80	C
ATOM	15465	CG1	VAL	A1941	126.961	81.197	95.707	1.00	0.80	C
ATOM	15466	CG2	VAL	A1941	126.494	81.988	93.370	1.00	0.80	C
ATOM	15467	N	GLU	A1942	125.525	84.336	97.166	1.00	0.71	N
ATOM	15468	CA	GLU	A1942	125.578	84.780	98.542	1.00	0.71	C
ATOM	15469	C	GLU	A1942	124.199	85.134	99.141	1.00	0.71	C
ATOM	15470	O	GLU	A1942	124.084	85.878	100.116	1.00	0.71	O
ATOM	15471	CB	GLU	A1942	126.474	86.045	98.566	1.00	0.71	C
ATOM	15472	CG	GLU	A1942	128.029	85.902	98.406	1.00	0.71	C
ATOM	15473	CD	GLU	A1942	128.732	84.957	97.413	1.00	0.71	C
ATOM	15474	OE1	GLU	A1942	128.307	83.798	97.219	1.00	0.71	O
ATOM	15475	OE2	GLU	A1942	129.789	85.402	96.892	1.00	0.71	O
ATOM	15476	N	ARG	A1943	123.089	84.597	98.589	1.00	0.62	N
ATOM	15477	CA	ARG	A1943	121.731	84.883	99.019	1.00	0.62	C
ATOM	15478	C	ARG	A1943	121.097	83.733	99.784	1.00	0.62	C
ATOM	15479	O	ARG	A1943	119.937	83.821	100.171	1.00	0.62	O
ATOM	15480	CB	ARG	A1943	120.819	85.251	97.818	1.00	0.62	C
ATOM	15481	CG	ARG	A1943	121.287	86.481	97.009	1.00	0.62	C
ATOM	15482	CD	ARG	A1943	121.522	87.769	97.807	1.00	0.62	C
ATOM	15483	NE	ARG	A1943	120.198	88.197	98.363	1.00	0.62	N
ATOM	15484	CZ	ARG	A1943	119.997	89.395	98.924	1.00	0.62	C
ATOM	15485	NH1	ARG	A1943	121.003	90.223	99.180	1.00	0.62	N
ATOM	15486	NH2	ARG	A1943	118.776	89.807	99.243	1.00	0.62	N
ATOM	15487	N	HIS	A1944	121.848	82.656	100.095	1.00	0.63	N
ATOM	15488	CA	HIS	A1944	121.328	81.564	100.922	1.00	0.63	C
ATOM	15489	C	HIS	A1944	121.636	81.777	102.397	1.00	0.63	C
ATOM	15490	O	HIS	A1944	121.472	80.882	103.223	1.00	0.63	O
ATOM	15491	CB	HIS	A1944	121.923	80.197	100.527	1.00	0.63	C
ATOM	15492	CG	HIS	A1944	121.484	79.752	99.177	1.00	0.63	C
ATOM	15493	ND1	HIS	A1944	120.366	78.956	99.019	1.00	0.63	N
ATOM	15494	CD2	HIS	A1944	122.089	79.954	97.989	1.00	0.63	C
ATOM	15495	CE1	HIS	A1944	120.319	78.684	97.731	1.00	0.63	C
ATOM	15496	NE2	HIS	A1944	121.343	79.262	97.062	1.00	0.63	N
ATOM	15497	N	VAL	A1945	122.113	82.979	102.769	1.00	0.64	N
ATOM	15498	CA	VAL	A1945	122.376	83.360	104.146	1.00	0.64	C
ATOM	15499	C	VAL	A1945	121.126	83.390	105.030	1.00	0.64	C
ATOM	15500	O	VAL	A1945	120.056	83.858	104.643	1.00	0.64	O
ATOM	15501	CB	VAL	A1945	123.171	84.666	104.213	1.00	0.64	C
ATOM	15502	CG1	VAL	A1945	122.328	85.873	103.750	1.00	0.64	C
ATOM	15503	CG2	VAL	A1945	123.738	84.895	105.627	1.00	0.64	C
ATOM	15504	N	ILE	A1946	121.235	82.873	106.268	1.00	0.55	N
ATOM	15505	CA	ILE	A1946	120.162	82.898	107.244	1.00	0.55	C
ATOM	15506	C	ILE	A1946	120.202	84.215	108.028	1.00	0.55	C
ATOM	15507	O	ILE	A1946	121.255	84.854	108.076	1.00	0.55	O
ATOM	15508	CB	ILE	A1946	120.210	81.672	108.161	1.00	0.55	C
ATOM	15509	CG1	ILE	A1946	121.537	81.560	108.952	1.00	0.55	C
ATOM	15510	CG2	ILE	A1946	119.941	80.423	107.289	1.00	0.55	C
ATOM	15511	CD1	ILE	A1946	121.521	80.434	109.995	1.00	0.55	C
ATOM	15512	N	PRO	A1947	119.133	84.728	108.639	1.00	0.51	N
ATOM	15513	CA	PRO	A1947	119.237	85.850	109.575	1.00	0.51	C
ATOM	15514	C	PRO	A1947	120.072	85.507	110.807	1.00	0.51	C
ATOM	15515	O	PRO	A1947	120.148	84.340	111.188	1.00	0.51	O
ATOM	15516	CB	PRO	A1947	117.772	86.147	109.939	1.00	0.51	C
ATOM	15517	CG	PRO	A1947	117.068	84.795	109.785	1.00	0.51	C
ATOM	15518	CD	PRO	A1947	117.774	84.183	108.575	1.00	0.51	C
ATOM	15519	N	LEU	A1948	120.725	86.505	111.446	1.00	0.42	N
ATOM	15520	CA	LEU	A1948	121.458	86.275	112.681	1.00	0.42	C
ATOM	15521	C	LEU	A1948	120.560	85.852	113.831	1.00	0.42	C
ATOM	15522	O	LEU	A1948	119.510	86.435	114.082	1.00	0.42	O
ATOM	15523	CB	LEU	A1948	122.300	87.498	113.119	1.00	0.42	C
ATOM	15524	CG	LEU	A1948	123.450	87.856	112.158	1.00	0.42	C

ATOM	15525	CD1	LEU	A1948	124.282	89.022	112.711	1.00	0.42	C
ATOM	15526	CD2	LEU	A1948	124.378	86.673	111.882	1.00	0.42	C
ATOM	15527	N	THR	A1949	120.959	84.783	114.544	1.00	0.43	N
ATOM	15528	CA	THR	A1949	120.105	84.113	115.514	1.00	0.43	C
ATOM	15529	C	THR	A1949	119.824	84.890	116.783	1.00	0.43	C
ATOM	15530	O	THR	A1949	118.665	85.003	117.170	1.00	0.43	O
ATOM	15531	CB	THR	A1949	120.651	82.740	115.897	1.00	0.43	C
ATOM	15532	OG1	THR	A1949	122.019	82.807	116.291	1.00	0.43	O
ATOM	15533	CG2	THR	A1949	120.598	81.830	114.660	1.00	0.43	C
ATOM	15534	N	SER	A1950	120.873	85.450	117.427	1.00	0.49	N
ATOM	15535	CA	SER	A1950	120.817	86.137	118.715	1.00	0.49	C
ATOM	15536	C	SER	A1950	122.198	86.148	119.346	1.00	0.49	C
ATOM	15537	O	SER	A1950	123.129	85.503	118.871	1.00	0.49	O
ATOM	15538	CB	SER	A1950	119.836	85.565	119.797	1.00	0.49	C
ATOM	15539	OG	SER	A1950	120.128	84.206	120.133	1.00	0.49	O
ATOM	15540	N	GLN	A1951	122.356	86.912	120.449	1.00	0.48	N
ATOM	15541	CA	GLN	A1951	123.418	86.702	121.414	1.00	0.48	C
ATOM	15542	C	GLN	A1951	122.942	85.701	122.454	1.00	0.48	C
ATOM	15543	O	GLN	A1951	121.841	85.817	122.988	1.00	0.48	O
ATOM	15544	CB	GLN	A1951	123.793	88.021	122.144	1.00	0.48	C
ATOM	15545	CG	GLN	A1951	124.811	88.889	121.372	1.00	0.48	C
ATOM	15546	CD	GLN	A1951	126.219	88.324	121.553	1.00	0.48	C
ATOM	15547	OE1	GLN	A1951	126.503	87.157	121.287	1.00	0.48	O
ATOM	15548	NE2	GLN	A1951	127.149	89.161	122.059	1.00	0.48	N
ATOM	15549	N	GLU	A1952	123.770	84.688	122.763	1.00	0.65	N
ATOM	15550	CA	GLU	A1952	123.380	83.587	123.617	1.00	0.65	C
ATOM	15551	C	GLU	A1952	124.528	83.241	124.544	1.00	0.65	C
ATOM	15552	O	GLU	A1952	125.672	83.108	124.116	1.00	0.65	O
ATOM	15553	CB	GLU	A1952	123.012	82.367	122.742	1.00	0.65	C
ATOM	15554	CG	GLU	A1952	122.605	81.094	123.523	1.00	0.65	C
ATOM	15555	CD	GLU	A1952	122.093	80.005	122.600	1.00	0.65	C
ATOM	15556	OE1	GLU	A1952	121.753	80.288	121.419	1.00	0.65	O
ATOM	15557	OE2	GLU	A1952	121.956	78.836	123.057	1.00	0.65	O
ATOM	15558	N	LEU	A1953	124.274	83.089	125.866	1.00	0.72	N
ATOM	15559	CA	LEU	A1953	125.334	82.990	126.866	1.00	0.72	C
ATOM	15560	C	LEU	A1953	126.191	81.741	126.788	1.00	0.72	C
ATOM	15561	O	LEU	A1953	127.308	81.726	127.293	1.00	0.72	O
ATOM	15562	CB	LEU	A1953	124.802	83.179	128.309	1.00	0.72	C
ATOM	15563	CG	LEU	A1953	123.799	82.127	128.841	1.00	0.72	C
ATOM	15564	CD1	LEU	A1953	124.422	80.856	129.438	1.00	0.72	C
ATOM	15565	CD2	LEU	A1953	122.955	82.784	129.934	1.00	0.72	C
ATOM	15566	N	VAL	A1954	125.708	80.684	126.109	1.00	0.64	N
ATOM	15567	CA	VAL	A1954	126.449	79.463	125.827	1.00	0.64	C
ATOM	15568	C	VAL	A1954	127.694	79.745	124.993	1.00	0.64	C
ATOM	15569	O	VAL	A1954	128.762	79.198	125.242	1.00	0.64	O
ATOM	15570	CB	VAL	A1954	125.538	78.431	125.161	1.00	0.64	C
ATOM	15571	CG1	VAL	A1954	126.301	77.128	124.841	1.00	0.64	C
ATOM	15572	CG2	VAL	A1954	124.370	78.126	126.123	1.00	0.64	C
ATOM	15573	N	ASP	A1955	127.610	80.664	124.006	1.00	0.58	N
ATOM	15574	CA	ASP	A1955	128.773	81.159	123.291	1.00	0.58	C
ATOM	15575	C	ASP	A1955	129.682	82.017	124.196	1.00	0.58	C
ATOM	15576	O	ASP	A1955	130.873	81.757	124.324	1.00	0.58	O
ATOM	15577	CB	ASP	A1955	128.222	81.914	122.047	1.00	0.58	C
ATOM	15578	CG	ASP	A1955	129.268	82.365	121.048	1.00	0.58	C
ATOM	15579	OD1	ASP	A1955	130.350	82.859	121.452	1.00	0.58	O
ATOM	15580	OD2	ASP	A1955	128.940	82.427	119.832	1.00	0.58	O
ATOM	15581	N	ILE	A1956	129.117	83.002	124.940	1.00	0.68	N
ATOM	15582	CA	ILE	A1956	129.871	83.926	125.797	1.00	0.68	C
ATOM	15583	C	ILE	A1956	130.667	83.226	126.901	1.00	0.68	C
ATOM	15584	O	ILE	A1956	131.787	83.616	127.226	1.00	0.68	O
ATOM	15585	CB	ILE	A1956	128.976	85.028	126.400	1.00	0.68	C
ATOM	15586	CG1	ILE	A1956	128.524	86.060	125.339	1.00	0.68	C
ATOM	15587	CG2	ILE	A1956	129.718	85.829	127.498	1.00	0.68	C
ATOM	15588	CD1	ILE	A1956	127.276	85.687	124.541	1.00	0.68	C
ATOM	15589	N	LEU	A1957	130.100	82.171	127.510	1.00	0.68	N

ATOM	15590	CA	LEU	A1957	130.749	81.413	128.562	1.00	0.68	C
ATOM	15591	C	LEU	A1957	131.412	80.143	128.051	1.00	0.68	C
ATOM	15592	O	LEU	A1957	131.965	79.390	128.847	1.00	0.68	O
ATOM	15593	CB	LEU	A1957	129.692	80.993	129.617	1.00	0.68	C
ATOM	15594	CG	LEU	A1957	129.134	82.165	130.447	1.00	0.68	C
ATOM	15595	CD1	LEU	A1957	127.849	81.747	131.174	1.00	0.68	C
ATOM	15596	CD2	LEU	A1957	130.173	82.668	131.455	1.00	0.68	C
ATOM	15597	N	GLU	A1958	131.353	79.870	126.730	1.00	0.25	N
ATOM	15598	CA	GLU	A1958	131.951	78.723	126.052	1.00	0.25	C
ATOM	15599	C	GLU	A1958	131.388	77.333	126.408	1.00	0.25	C
ATOM	15600	O	GLU	A1958	131.675	76.345	125.731	1.00	0.25	O
ATOM	15601	CB	GLU	A1958	133.505	78.776	126.081	1.00	0.25	C
ATOM	15602	CG	GLU	A1958	134.085	80.053	125.406	1.00	0.25	C
ATOM	15603	CD	GLU	A1958	135.613	80.140	125.432	1.00	0.25	C
ATOM	15604	OE1	GLU	A1958	136.277	79.195	125.928	1.00	0.25	O
ATOM	15605	OE2	GLU	A1958	136.136	81.177	124.941	1.00	0.25	O
ATOM	15606	N	GLU	A1959	130.526	77.233	127.443	1.00	0.30	N
ATOM	15607	CA	GLU	A1959	129.970	76.000	127.976	1.00	0.30	C
ATOM	15608	C	GLU	A1959	128.459	76.109	128.151	1.00	0.30	C
ATOM	15609	O	GLU	A1959	127.879	77.196	128.220	1.00	0.30	O
ATOM	15610	CB	GLU	A1959	130.569	75.663	129.369	1.00	0.30	C
ATOM	15611	CG	GLU	A1959	132.103	75.436	129.367	1.00	0.30	C
ATOM	15612	CD	GLU	A1959	132.662	75.027	130.729	1.00	0.30	C
ATOM	15613	OE1	GLU	A1959	131.906	75.063	131.736	1.00	0.30	O
ATOM	15614	OE2	GLU	A1959	133.869	74.678	130.784	1.00	0.30	O
ATOM	15615	N	ASP	A1960	127.767	74.955	128.215	1.00	0.42	N
ATOM	15616	CA	ASP	A1960	126.357	74.811	128.489	1.00	0.42	C
ATOM	15617	C	ASP	A1960	125.979	75.083	129.953	1.00	0.42	C
ATOM	15618	O	ASP	A1960	126.779	74.989	130.880	1.00	0.42	O
ATOM	15619	CB	ASP	A1960	125.777	73.471	127.924	1.00	0.42	C
ATOM	15620	CG	ASP	A1960	126.665	72.224	127.992	1.00	0.42	C
ATOM	15621	OD1	ASP	A1960	127.873	72.312	128.321	1.00	0.42	O
ATOM	15622	OD2	ASP	A1960	126.116	71.154	127.622	1.00	0.42	O
ATOM	15623	N	VAL	A1961	124.721	75.521	130.189	1.00	0.37	N
ATOM	15624	CA	VAL	A1961	124.260	75.926	131.511	1.00	0.37	C
ATOM	15625	C	VAL	A1961	122.865	75.383	131.780	1.00	0.37	C
ATOM	15626	O	VAL	A1961	121.913	75.738	131.087	1.00	0.37	O
ATOM	15627	CB	VAL	A1961	124.234	77.458	131.639	1.00	0.37	C
ATOM	15628	CG1	VAL	A1961	123.472	77.933	132.896	1.00	0.37	C
ATOM	15629	CG2	VAL	A1961	125.680	77.992	131.668	1.00	0.37	C
ATOM	15630	N	ASP	A1962	122.694	74.534	132.821	1.00	0.40	N
ATOM	15631	CA	ASP	A1962	121.387	74.196	133.367	1.00	0.40	C
ATOM	15632	C	ASP	A1962	120.741	75.340	134.147	1.00	0.40	C
ATOM	15633	O	ASP	A1962	121.413	76.147	134.794	1.00	0.40	O
ATOM	15634	CB	ASP	A1962	121.386	73.011	134.366	1.00	0.40	C
ATOM	15635	CG	ASP	A1962	122.398	71.936	134.044	1.00	0.40	C
ATOM	15636	OD1	ASP	A1962	122.354	71.365	132.935	1.00	0.40	O
ATOM	15637	OD2	ASP	A1962	123.228	71.706	134.967	1.00	0.40	O
ATOM	15638	N	PHE	A1963	119.397	75.372	134.190	1.00	0.42	N
ATOM	15639	CA	PHE	A1963	118.647	76.380	134.915	1.00	0.42	C
ATOM	15640	C	PHE	A1963	117.843	75.752	136.044	1.00	0.42	C
ATOM	15641	O	PHE	A1963	117.990	74.582	136.385	1.00	0.42	O
ATOM	15642	CB	PHE	A1963	117.761	77.214	133.953	1.00	0.42	C
ATOM	15643	CG	PHE	A1963	118.674	77.958	133.016	1.00	0.42	C
ATOM	15644	CD1	PHE	A1963	119.509	78.984	133.497	1.00	0.42	C
ATOM	15645	CD2	PHE	A1963	118.747	77.604	131.660	1.00	0.42	C
ATOM	15646	CE1	PHE	A1963	120.390	79.651	132.635	1.00	0.42	C
ATOM	15647	CE2	PHE	A1963	119.636	78.257	130.798	1.00	0.42	C
ATOM	15648	CZ	PHE	A1963	120.456	79.282	131.286	1.00	0.42	C
ATOM	15649	N	SER	A1964	117.020	76.564	136.730	1.00	0.41	N
ATOM	15650	CA	SER	A1964	116.164	76.123	137.820	1.00	0.41	C
ATOM	15651	C	SER	A1964	114.782	75.835	137.268	1.00	0.41	C
ATOM	15652	O	SER	A1964	114.109	76.707	136.728	1.00	0.41	O
ATOM	15653	CB	SER	A1964	116.098	77.217	138.927	1.00	0.41	C
ATOM	15654	OG	SER	A1964	115.102	77.006	139.931	1.00	0.41	O

ATOM	15655	N	GLU	A1965	114.329	74.574	137.391	1.00	0.31	N
ATOM	15656	CA	GLU	A1965	113.030	74.131	136.933	1.00	0.31	C
ATOM	15657	C	GLU	A1965	111.958	74.256	138.010	1.00	0.31	C
ATOM	15658	O	GLU	A1965	111.034	73.455	138.076	1.00	0.31	O
ATOM	15659	CB	GLU	A1965	113.103	72.663	136.447	1.00	0.31	C
ATOM	15660	CG	GLU	A1965	113.994	72.463	135.196	1.00	0.31	C
ATOM	15661	CD	GLU	A1965	113.900	71.047	134.622	1.00	0.31	C
ATOM	15662	OE1	GLU	A1965	114.755	70.724	133.759	1.00	0.31	O
ATOM	15663	OE2	GLU	A1965	112.985	70.288	135.026	1.00	0.31	O
ATOM	15664	N	MET	A1966	112.007	75.276	138.896	1.00	0.36	N
ATOM	15665	CA	MET	A1966	111.037	75.395	139.984	1.00	0.36	C
ATOM	15666	C	MET	A1966	109.588	75.495	139.503	1.00	0.36	C
ATOM	15667	O	MET	A1966	108.726	74.707	139.873	1.00	0.36	O
ATOM	15668	CB	MET	A1966	111.387	76.626	140.859	1.00	0.36	C
ATOM	15669	CG	MET	A1966	110.497	76.804	142.109	1.00	0.36	C
ATOM	15670	SD	MET	A1966	110.546	75.448	143.323	1.00	0.36	S
ATOM	15671	CE	MET	A1966	112.215	75.786	143.940	1.00	0.36	C
ATOM	15672	N	MET	A1967	109.313	76.382	138.525	1.00	0.35	N
ATOM	15673	CA	MET	A1967	107.966	76.558	138.012	1.00	0.35	C
ATOM	15674	C	MET	A1967	107.487	75.379	137.158	1.00	0.35	C
ATOM	15675	O	MET	A1967	106.297	75.238	136.886	1.00	0.35	O
ATOM	15676	CB	MET	A1967	107.855	77.882	137.215	1.00	0.35	C
ATOM	15677	CG	MET	A1967	108.085	79.134	138.088	1.00	0.35	C
ATOM	15678	SD	MET	A1967	108.032	80.711	137.175	1.00	0.35	S
ATOM	15679	CE	MET	A1967	109.622	80.534	136.314	1.00	0.35	C
ATOM	15680	N	GLN	A1968	108.400	74.475	136.726	1.00	0.31	N
ATOM	15681	CA	GLN	A1968	108.044	73.201	136.114	1.00	0.31	C
ATOM	15682	C	GLN	A1968	107.389	72.279	137.122	1.00	0.31	C
ATOM	15683	O	GLN	A1968	106.306	71.745	136.884	1.00	0.31	O
ATOM	15684	CB	GLN	A1968	109.318	72.490	135.575	1.00	0.31	C
ATOM	15685	CG	GLN	A1968	109.146	71.174	134.763	1.00	0.31	C
ATOM	15686	CD	GLN	A1968	108.837	69.929	135.609	1.00	0.31	C
ATOM	15687	OE1	GLN	A1968	109.216	69.766	136.767	1.00	0.31	O
ATOM	15688	NE2	GLN	A1968	108.083	68.979	135.008	1.00	0.31	N
ATOM	15689	N	SER	A1969	108.030	72.105	138.300	1.00	0.32	N
ATOM	15690	CA	SER	A1969	107.578	71.197	139.341	1.00	0.32	C
ATOM	15691	C	SER	A1969	106.314	71.670	140.019	1.00	0.32	C
ATOM	15692	O	SER	A1969	105.417	70.872	140.282	1.00	0.32	O
ATOM	15693	CB	SER	A1969	108.679	70.764	140.351	1.00	0.32	C
ATOM	15694	OG	SER	A1969	109.412	71.847	140.946	1.00	0.32	O
ATOM	15695	N	ASP	A1970	106.186	72.990	140.245	1.00	0.32	N
ATOM	15696	CA	ASP	A1970	104.988	73.641	140.748	1.00	0.32	C
ATOM	15697	C	ASP	A1970	103.763	73.455	139.845	1.00	0.32	C
ATOM	15698	O	ASP	A1970	102.672	73.102	140.290	1.00	0.32	O
ATOM	15699	CB	ASP	A1970	105.247	75.161	140.837	1.00	0.32	C
ATOM	15700	CG	ASP	A1970	106.426	75.526	141.718	1.00	0.32	C
ATOM	15701	OD1	ASP	A1970	106.851	76.700	141.561	1.00	0.32	O
ATOM	15702	OD2	ASP	A1970	106.921	74.703	142.523	1.00	0.32	O
ATOM	15703	N	ILE	A1971	103.917	73.650	138.513	1.00	0.33	N
ATOM	15704	CA	ILE	A1971	102.866	73.381	137.532	1.00	0.33	C
ATOM	15705	C	ILE	A1971	102.546	71.893	137.429	1.00	0.33	C
ATOM	15706	O	ILE	A1971	101.385	71.506	137.320	1.00	0.33	O
ATOM	15707	CB	ILE	A1971	103.169	74.014	136.167	1.00	0.33	C
ATOM	15708	CG1	ILE	A1971	103.121	75.558	136.305	1.00	0.33	C
ATOM	15709	CG2	ILE	A1971	102.171	73.533	135.083	1.00	0.33	C
ATOM	15710	CD1	ILE	A1971	103.578	76.312	135.049	1.00	0.33	C
ATOM	15711	N	MET	A1972	103.570	71.016	137.483	1.00	0.56	N
ATOM	15712	CA	MET	A1972	103.413	69.570	137.478	1.00	0.56	C
ATOM	15713	C	MET	A1972	102.625	69.013	138.663	1.00	0.56	C
ATOM	15714	O	MET	A1972	101.780	68.139	138.487	1.00	0.56	O
ATOM	15715	CB	MET	A1972	104.819	68.919	137.450	1.00	0.56	C
ATOM	15716	CG	MET	A1972	104.843	67.379	137.375	1.00	0.56	C
ATOM	15717	SD	MET	A1972	106.520	66.677	137.460	1.00	0.56	S
ATOM	15718	CE	MET	A1972	106.786	66.988	139.232	1.00	0.56	C
ATOM	15719	N	GLU	A1973	102.891	69.493	139.899	1.00	0.60	N

ATOM	15720	CA	GLU	A1973	102.103	69.144	141.075	1.00	0.60	C
ATOM	15721	C	GLU	A1973	100.729	69.817	141.077	1.00	0.60	C
ATOM	15722	O	GLU	A1973	99.696	69.166	141.224	1.00	0.60	O
ATOM	15723	CB	GLU	A1973	102.921	69.449	142.357	1.00	0.60	C
ATOM	15724	CG	GLU	A1973	102.444	68.696	143.630	1.00	0.60	C
ATOM	15725	CD	GLU	A1973	101.363	69.391	144.462	1.00	0.60	C
ATOM	15726	OE1	GLU	A1973	100.967	70.533	144.127	1.00	0.60	O
ATOM	15727	OE2	GLU	A1973	100.955	68.765	145.476	1.00	0.60	O
ATOM	15728	N	GLY	A1974	100.693	71.138	140.782	1.00	0.66	N
ATOM	15729	CA	GLY	A1974	99.468	71.915	140.635	1.00	0.66	C
ATOM	15730	C	GLY	A1974	99.269	73.001	141.661	1.00	0.66	C
ATOM	15731	O	GLY	A1974	98.178	73.556	141.767	1.00	0.66	O
ATOM	15732	N	ASP	A1975	100.313	73.400	142.414	1.00	0.66	N
ATOM	15733	CA	ASP	A1975	100.158	74.194	143.623	1.00	0.66	C
ATOM	15734	C	ASP	A1975	99.960	75.701	143.374	1.00	0.66	C
ATOM	15735	O	ASP	A1975	99.779	76.494	144.303	1.00	0.66	O
ATOM	15736	CB	ASP	A1975	101.329	73.881	144.616	1.00	0.66	C
ATOM	15737	CG	ASP	A1975	102.593	74.706	144.433	1.00	0.66	C
ATOM	15738	OD1	ASP	A1975	102.826	75.255	143.335	1.00	0.66	O
ATOM	15739	OD2	ASP	A1975	103.205	75.013	145.495	1.00	0.66	O
ATOM	15740	N	LEU	A1976	100.030	76.133	142.099	1.00	0.34	N
ATOM	15741	CA	LEU	A1976	99.893	77.524	141.704	1.00	0.34	C
ATOM	15742	C	LEU	A1976	98.587	77.898	141.040	1.00	0.34	C
ATOM	15743	O	LEU	A1976	98.271	79.083	141.031	1.00	0.34	O
ATOM	15744	CB	LEU	A1976	100.981	77.894	140.661	1.00	0.34	C
ATOM	15745	CG	LEU	A1976	102.395	78.053	141.237	1.00	0.34	C
ATOM	15746	CD1	LEU	A1976	103.411	78.271	140.104	1.00	0.34	C
ATOM	15747	CD2	LEU	A1976	102.455	79.217	142.241	1.00	0.34	C
ATOM	15748	N	ASP	A1977	97.823	76.939	140.463	1.00	0.37	N
ATOM	15749	CA	ASP	A1977	96.639	77.188	139.635	1.00	0.37	C
ATOM	15750	C	ASP	A1977	96.686	78.460	138.743	1.00	0.37	C
ATOM	15751	O	ASP	A1977	96.058	79.484	139.004	1.00	0.37	O
ATOM	15752	CB	ASP	A1977	95.358	77.057	140.503	1.00	0.37	C
ATOM	15753	CG	ASP	A1977	94.117	76.787	139.668	1.00	0.37	C
ATOM	15754	OD1	ASP	A1977	94.225	76.813	138.415	1.00	0.37	O
ATOM	15755	OD2	ASP	A1977	93.052	76.532	140.282	1.00	0.37	O
ATOM	15756	N	ILE	A1978	97.509	78.446	137.667	1.00	0.34	N
ATOM	15757	CA	ILE	A1978	97.835	79.635	136.875	1.00	0.34	C
ATOM	15758	C	ILE	A1978	96.612	80.280	136.238	1.00	0.34	C
ATOM	15759	O	ILE	A1978	96.465	81.504	136.207	1.00	0.34	O
ATOM	15760	CB	ILE	A1978	98.883	79.334	135.796	1.00	0.34	C
ATOM	15761	CG1	ILE	A1978	100.167	78.703	136.394	1.00	0.34	C
ATOM	15762	CG2	ILE	A1978	99.225	80.614	134.992	1.00	0.34	C
ATOM	15763	CD1	ILE	A1978	100.932	79.614	137.364	1.00	0.34	C
ATOM	15764	N	ASP	A1979	95.690	79.441	135.749	1.00	0.30	N
ATOM	15765	CA	ASP	A1979	94.465	79.797	135.081	1.00	0.30	C
ATOM	15766	C	ASP	A1979	93.545	80.647	135.974	1.00	0.30	C
ATOM	15767	O	ASP	A1979	93.044	81.691	135.552	1.00	0.30	O
ATOM	15768	CB	ASP	A1979	93.761	78.486	134.613	1.00	0.30	C
ATOM	15769	CG	ASP	A1979	94.617	77.575	133.724	1.00	0.30	C
ATOM	15770	OD1	ASP	A1979	95.834	77.835	133.534	1.00	0.30	O
ATOM	15771	OD2	ASP	A1979	94.041	76.567	133.241	1.00	0.30	O
ATOM	15772	N	ILE	A1980	93.368	80.272	137.267	1.00	0.30	N
ATOM	15773	CA	ILE	A1980	92.589	81.048	138.235	1.00	0.30	C
ATOM	15774	C	ILE	A1980	93.212	82.399	138.587	1.00	0.30	C
ATOM	15775	O	ILE	A1980	92.523	83.391	138.822	1.00	0.30	O
ATOM	15776	CB	ILE	A1980	92.212	80.236	139.483	1.00	0.30	C
ATOM	15777	CG1	ILE	A1980	90.787	80.607	139.959	1.00	0.30	C
ATOM	15778	CG2	ILE	A1980	93.239	80.356	140.636	1.00	0.30	C
ATOM	15779	CD1	ILE	A1980	90.263	79.665	141.050	1.00	0.30	C
ATOM	15780	N	LEU	A1981	94.562	82.497	138.604	1.00	0.33	N
ATOM	15781	CA	LEU	A1981	95.289	83.720	138.922	1.00	0.33	C
ATOM	15782	C	LEU	A1981	95.035	84.872	137.964	1.00	0.33	C
ATOM	15783	O	LEU	A1981	95.033	86.036	138.362	1.00	0.33	O
ATOM	15784	CB	LEU	A1981	96.825	83.503	138.955	1.00	0.33	C

ATOM	15785	CG	LEU	A1981	97.335	82.574	140.071	1.00	0.33	C
ATOM	15786	CD1	LEU	A1981	98.846	82.346	139.914	1.00	0.33	C
ATOM	15787	CD2	LEU	A1981	97.028	83.116	141.476	1.00	0.33	C
ATOM	15788	N	MET	A1982	94.860	84.575	136.664	1.00	0.29	N
ATOM	15789	CA	MET	A1982	94.694	85.599	135.651	1.00	0.29	C
ATOM	15790	C	MET	A1982	93.249	85.784	135.226	1.00	0.29	C
ATOM	15791	O	MET	A1982	92.953	86.627	134.382	1.00	0.29	O
ATOM	15792	CB	MET	A1982	95.602	85.295	134.437	1.00	0.29	C
ATOM	15793	CG	MET	A1982	97.090	85.491	134.799	1.00	0.29	C
ATOM	15794	SD	MET	A1982	98.295	85.057	133.511	1.00	0.29	S
ATOM	15795	CE	MET	A1982	97.658	86.092	132.162	1.00	0.29	C
ATOM	15796	N	GLU	A1983	92.298	85.050	135.837	1.00	0.28	N
ATOM	15797	CA	GLU	A1983	90.879	85.266	135.631	1.00	0.28	C
ATOM	15798	C	GLU	A1983	90.406	86.665	136.061	1.00	0.28	C
ATOM	15799	O	GLU	A1983	90.773	87.199	137.111	1.00	0.28	O
ATOM	15800	CB	GLU	A1983	90.063	84.144	136.319	1.00	0.28	C
ATOM	15801	CG	GLU	A1983	88.558	84.115	135.950	1.00	0.28	C
ATOM	15802	CD	GLU	A1983	87.792	82.960	136.599	1.00	0.28	C
ATOM	15803	OE1	GLU	A1983	86.575	82.858	136.298	1.00	0.28	O
ATOM	15804	OE2	GLU	A1983	88.394	82.189	137.386	1.00	0.28	O
ATOM	15805	N	GLY	A1984	89.580	87.323	135.216	1.00	0.28	N
ATOM	15806	CA	GLY	A1984	89.067	88.669	135.454	1.00	0.28	C
ATOM	15807	C	GLY	A1984	89.566	89.674	134.451	1.00	0.28	C
ATOM	15808	O	GLY	A1984	88.807	90.180	133.631	1.00	0.28	O
ATOM	15809	N	SER	A1985	90.862	90.024	134.517	1.00	0.34	N
ATOM	15810	CA	SER	A1985	91.507	90.987	133.626	1.00	0.34	C
ATOM	15811	C	SER	A1985	91.563	90.555	132.160	1.00	0.34	C
ATOM	15812	O	SER	A1985	91.632	89.357	131.893	1.00	0.34	O
ATOM	15813	CB	SER	A1985	92.941	91.329	134.095	1.00	0.34	C
ATOM	15814	OG	SER	A1985	92.888	91.957	135.376	1.00	0.34	O
ATOM	15815	N	PRO	A1986	91.525	91.440	131.157	1.00	0.31	N
ATOM	15816	CA	PRO	A1986	91.216	91.026	129.790	1.00	0.31	C
ATOM	15817	C	PRO	A1986	92.339	90.260	129.094	1.00	0.31	C
ATOM	15818	O	PRO	A1986	93.521	90.578	129.244	1.00	0.31	O
ATOM	15819	CB	PRO	A1986	90.889	92.348	129.068	1.00	0.31	C
ATOM	15820	CG	PRO	A1986	91.632	93.416	129.874	1.00	0.31	C
ATOM	15821	CD	PRO	A1986	91.497	92.898	131.304	1.00	0.31	C
ATOM	15822	N	MET	A1987	91.959	89.223	128.320	1.00	0.41	N
ATOM	15823	CA	MET	A1987	92.838	88.408	127.504	1.00	0.41	C
ATOM	15824	C	MET	A1987	93.361	89.144	126.280	1.00	0.41	C
ATOM	15825	O	MET	A1987	92.592	89.733	125.524	1.00	0.41	O
ATOM	15826	CB	MET	A1987	92.096	87.138	127.012	1.00	0.41	C
ATOM	15827	CG	MET	A1987	91.577	86.237	128.151	1.00	0.41	C
ATOM	15828	SD	MET	A1987	92.851	85.660	129.318	1.00	0.41	S
ATOM	15829	CE	MET	A1987	93.811	84.634	128.166	1.00	0.41	C
ATOM	15830	N	LEU	A1988	94.688	89.122	126.039	1.00	0.32	N
ATOM	15831	CA	LEU	A1988	95.266	89.939	124.983	1.00	0.32	C
ATOM	15832	C	LEU	A1988	95.845	89.161	123.816	1.00	0.32	C
ATOM	15833	O	LEU	A1988	96.290	89.763	122.846	1.00	0.32	O
ATOM	15834	CB	LEU	A1988	96.366	90.842	125.580	1.00	0.32	C
ATOM	15835	CG	LEU	A1988	95.831	91.904	126.562	1.00	0.32	C
ATOM	15836	CD1	LEU	A1988	97.011	92.617	127.230	1.00	0.32	C
ATOM	15837	CD2	LEU	A1988	94.917	92.929	125.868	1.00	0.32	C
ATOM	15838	N	TRP	A1989	95.826	87.810	123.822	1.00	0.25	N
ATOM	15839	CA	TRP	A1989	96.324	87.030	122.690	1.00	0.25	C
ATOM	15840	C	TRP	A1989	95.515	87.211	121.406	1.00	0.25	C
ATOM	15841	O	TRP	A1989	96.054	87.289	120.307	1.00	0.25	O
ATOM	15842	CB	TRP	A1989	96.458	85.515	123.032	1.00	0.25	C
ATOM	15843	CG	TRP	A1989	95.184	84.695	123.112	1.00	0.25	C
ATOM	15844	CD1	TRP	A1989	94.380	84.425	124.182	1.00	0.25	C
ATOM	15845	CD2	TRP	A1989	94.580	84.036	121.979	1.00	0.25	C
ATOM	15846	NE1	TRP	A1989	93.297	83.659	123.792	1.00	0.25	N
ATOM	15847	CE2	TRP	A1989	93.417	83.408	122.439	1.00	0.25	C
ATOM	15848	CE3	TRP	A1989	94.964	83.964	120.637	1.00	0.25	C
ATOM	15849	CZ2	TRP	A1989	92.603	82.677	121.577	1.00	0.25	C

ATOM	15850	CZ3	TRP	A1989	94.131	83.251	119.759	1.00	0.25	C
ATOM	15851	CH2	TRP	A1989	92.972	82.614	120.221	1.00	0.25	C
ATOM	15852	N	ALA	A1990	94.179	87.275	121.550	1.00	0.36	N
ATOM	15853	CA	ALA	A1990	93.243	87.375	120.456	1.00	0.36	C
ATOM	15854	C	ALA	A1990	92.738	88.795	120.269	1.00	0.36	C
ATOM	15855	O	ALA	A1990	91.818	89.021	119.494	1.00	0.36	O
ATOM	15856	CB	ALA	A1990	92.043	86.449	120.743	1.00	0.36	C
ATOM	15857	N	ALA	A1991	93.328	89.782	120.974	1.00	0.39	N
ATOM	15858	CA	ALA	A1991	92.923	91.167	120.869	1.00	0.39	C
ATOM	15859	C	ALA	A1991	93.669	91.855	119.730	1.00	0.39	C
ATOM	15860	O	ALA	A1991	94.898	91.935	119.711	1.00	0.39	O
ATOM	15861	CB	ALA	A1991	93.187	91.898	122.205	1.00	0.39	C
ATOM	15862	N	GLU	A1992	92.928	92.355	118.730	1.00	0.25	N
ATOM	15863	CA	GLU	A1992	93.443	92.942	117.516	1.00	0.25	C
ATOM	15864	C	GLU	A1992	94.033	94.346	117.679	1.00	0.25	C
ATOM	15865	O	GLU	A1992	93.412	95.367	117.404	1.00	0.25	O
ATOM	15866	CB	GLU	A1992	92.378	92.858	116.381	1.00	0.25	C
ATOM	15867	CG	GLU	A1992	91.019	93.607	116.567	1.00	0.25	C
ATOM	15868	CD	GLU	A1992	89.981	92.979	117.505	1.00	0.25	C
ATOM	15869	OE1	GLU	A1992	88.817	93.452	117.447	1.00	0.25	O
ATOM	15870	OE2	GLU	A1992	90.319	92.040	118.267	1.00	0.25	O
ATOM	15871	N	VAL	A1993	95.301	94.443	118.130	1.00	0.28	N
ATOM	15872	CA	VAL	A1993	95.922	95.719	118.462	1.00	0.28	C
ATOM	15873	C	VAL	A1993	96.990	96.150	117.465	1.00	0.28	C
ATOM	15874	O	VAL	A1993	97.732	95.344	116.904	1.00	0.28	O
ATOM	15875	CB	VAL	A1993	96.503	95.759	119.879	1.00	0.28	C
ATOM	15876	CG1	VAL	A1993	95.382	95.428	120.885	1.00	0.28	C
ATOM	15877	CG2	VAL	A1993	97.694	94.791	120.052	1.00	0.28	C
ATOM	15878	N	GLU	A1994	97.101	97.476	117.227	1.00	0.31	N
ATOM	15879	CA	GLU	A1994	98.239	98.121	116.591	1.00	0.31	C
ATOM	15880	C	GLU	A1994	99.516	97.927	117.429	1.00	0.31	C
ATOM	15881	O	GLU	A1994	99.488	97.895	118.663	1.00	0.31	O
ATOM	15882	CB	GLU	A1994	97.993	99.646	116.356	1.00	0.31	C
ATOM	15883	CG	GLU	A1994	96.789	100.044	115.444	1.00	0.31	C
ATOM	15884	CD	GLU	A1994	96.412	101.537	115.499	1.00	0.31	C
ATOM	15885	OE1	GLU	A1994	97.155	102.349	116.105	1.00	0.31	O
ATOM	15886	OE2	GLU	A1994	95.340	101.921	114.958	1.00	0.31	O
ATOM	15887	N	GLU	A1995	100.678	97.763	116.770	1.00	0.31	N
ATOM	15888	CA	GLU	A1995	101.985	97.578	117.382	1.00	0.31	C
ATOM	15889	C	GLU	A1995	102.494	98.757	118.211	1.00	0.31	C
ATOM	15890	O	GLU	A1995	102.112	99.911	118.036	1.00	0.31	O
ATOM	15891	CB	GLU	A1995	103.062	97.162	116.337	1.00	0.31	C
ATOM	15892	CG	GLU	A1995	103.515	98.270	115.345	1.00	0.31	C
ATOM	15893	CD	GLU	A1995	102.343	98.899	114.605	1.00	0.31	C
ATOM	15894	OE1	GLU	A1995	101.478	98.126	114.113	1.00	0.31	O
ATOM	15895	OE2	GLU	A1995	102.251	100.156	114.610	1.00	0.31	O
ATOM	15896	N	MET	A1996	103.392	98.483	119.180	1.00	0.29	N
ATOM	15897	CA	MET	A1996	104.061	99.503	119.973	1.00	0.29	C
ATOM	15898	C	MET	A1996	104.864	100.522	119.148	1.00	0.29	C
ATOM	15899	O	MET	A1996	105.448	100.190	118.122	1.00	0.29	O
ATOM	15900	CB	MET	A1996	104.995	98.799	120.997	1.00	0.29	C
ATOM	15901	CG	MET	A1996	105.721	99.720	122.004	1.00	0.29	C
ATOM	15902	SD	MET	A1996	104.636	100.799	122.988	1.00	0.29	S
ATOM	15903	CE	MET	A1996	103.820	99.482	123.929	1.00	0.29	C
ATOM	15904	N	GLY	A1997	104.921	101.800	119.584	1.00	0.75	N
ATOM	15905	CA	GLY	A1997	105.710	102.840	118.922	1.00	0.75	C
ATOM	15906	C	GLY	A1997	104.843	103.925	118.353	1.00	0.75	C
ATOM	15907	O	GLY	A1997	103.758	103.668	117.834	1.00	0.75	O
ATOM	15908	N	GLU	A1998	105.308	105.184	118.444	1.00	0.68	N
ATOM	15909	CA	GLU	A1998	104.562	106.353	118.022	1.00	0.68	C
ATOM	15910	C	GLU	A1998	105.081	106.803	116.672	1.00	0.68	C
ATOM	15911	O	GLU	A1998	104.399	106.679	115.654	1.00	0.68	O
ATOM	15912	CB	GLU	A1998	104.719	107.449	119.111	1.00	0.68	C
ATOM	15913	CG	GLU	A1998	103.676	108.600	119.098	1.00	0.68	C
ATOM	15914	CD	GLU	A1998	103.965	109.821	118.217	1.00	0.68	C



ATOM	15915	OE1	GLU	A1998	102.966	110.333	117.642	1.00	0.68	O
ATOM	15916	OE2	GLU	A1998	105.128	110.308	118.189	1.00	0.68	O
ATOM	15917	N	ALA	A1999	106.345	107.259	116.624	1.00	0.64	N
ATOM	15918	CA	ALA	A1999	106.952	107.742	115.415	1.00	0.64	C
ATOM	15919	C	ALA	A1999	107.533	106.671	114.512	1.00	0.64	C
ATOM	15920	O	ALA	A1999	107.834	105.539	114.888	1.00	0.64	O
ATOM	15921	CB	ALA	A1999	108.057	108.750	115.755	1.00	0.64	C
ATOM	15922	N	MET	A2000	107.729	107.064	113.247	1.00	0.54	N
ATOM	15923	CA	MET	A2000	108.390	106.274	112.248	1.00	0.54	C
ATOM	15924	C	MET	A2000	108.942	107.263	111.250	1.00	0.54	C
ATOM	15925	O	MET	A2000	108.477	108.401	111.164	1.00	0.54	O
ATOM	15926	CB	MET	A2000	107.428	105.267	111.565	1.00	0.54	C
ATOM	15927	CG	MET	A2000	106.188	105.913	110.910	1.00	0.54	C
ATOM	15928	SD	MET	A2000	104.926	104.724	110.365	1.00	0.54	S
ATOM	15929	CE	MET	A2000	104.291	104.359	112.029	1.00	0.54	C
ATOM	15930	N	VAL	A2001	109.977	106.868	110.491	1.00	0.30	N
ATOM	15931	CA	VAL	A2001	110.606	107.740	109.518	1.00	0.30	C
ATOM	15932	C	VAL	A2001	110.481	107.097	108.157	1.00	0.30	C
ATOM	15933	O	VAL	A2001	111.038	106.035	107.883	1.00	0.30	O
ATOM	15934	CB	VAL	A2001	112.075	108.018	109.837	1.00	0.30	C
ATOM	15935	CG1	VAL	A2001	112.709	108.929	108.763	1.00	0.30	C
ATOM	15936	CG2	VAL	A2001	112.173	108.704	111.214	1.00	0.30	C
ATOM	15937	N	ILE	A2002	109.748	107.754	107.236	1.00	0.26	N
ATOM	15938	CA	ILE	A2002	109.852	107.461	105.819	1.00	0.26	C
ATOM	15939	C	ILE	A2002	111.068	108.228	105.346	1.00	0.26	C
ATOM	15940	O	ILE	A2002	111.273	109.380	105.726	1.00	0.26	O
ATOM	15941	CB	ILE	A2002	108.636	107.910	104.998	1.00	0.26	C
ATOM	15942	CG1	ILE	A2002	107.313	107.328	105.552	1.00	0.26	C
ATOM	15943	CG2	ILE	A2002	108.827	107.500	103.515	1.00	0.26	C
ATOM	15944	CD1	ILE	A2002	106.069	107.988	104.935	1.00	0.26	C
ATOM	15945	N	LEU	A2003	111.927	107.634	104.500	1.00	0.19	N
ATOM	15946	CA	LEU	A2003	113.062	108.325	103.924	1.00	0.19	C
ATOM	15947	C	LEU	A2003	112.580	109.185	102.753	1.00	0.19	C
ATOM	15948	O	LEU	A2003	112.949	108.987	101.600	1.00	0.19	O
ATOM	15949	CB	LEU	A2003	114.181	107.330	103.528	1.00	0.19	C
ATOM	15950	CG	LEU	A2003	114.897	106.634	104.709	1.00	0.19	C
ATOM	15951	CD1	LEU	A2003	114.029	105.581	105.411	1.00	0.19	C
ATOM	15952	CD2	LEU	A2003	116.188	105.980	104.203	1.00	0.19	C
ATOM	15953	N	SER	A2004	111.683	110.149	103.062	1.00	0.18	N
ATOM	15954	CA	SER	A2004	110.946	111.014	102.154	1.00	0.18	C
ATOM	15955	C	SER	A2004	111.537	112.397	102.065	1.00	0.18	C
ATOM	15956	O	SER	A2004	111.204	113.175	101.177	1.00	0.18	O
ATOM	15957	CB	SER	A2004	109.475	111.218	102.620	1.00	0.18	C
ATOM	15958	OG	SER	A2004	109.414	111.611	103.994	1.00	0.18	O
ATOM	15959	N	GLN	A2005	112.475	112.738	102.952	1.00	0.20	N
ATOM	15960	CA	GLN	A2005	113.045	114.055	102.941	1.00	0.20	C
ATOM	15961	C	GLN	A2005	114.377	114.033	103.639	1.00	0.20	C
ATOM	15962	O	GLN	A2005	114.756	113.055	104.282	1.00	0.20	O
ATOM	15963	CB	GLN	A2005	112.093	115.099	103.580	1.00	0.20	C
ATOM	15964	CG	GLN	A2005	111.686	114.817	105.042	1.00	0.20	C
ATOM	15965	CD	GLN	A2005	110.731	115.909	105.521	1.00	0.20	C
ATOM	15966	OE1	GLN	A2005	109.643	116.097	104.981	1.00	0.20	O
ATOM	15967	NE2	GLN	A2005	111.143	116.680	106.552	1.00	0.20	N
ATOM	15968	N	SER	A2006	115.116	115.134	103.489	1.00	0.25	N
ATOM	15969	CA	SER	A2006	116.388	115.386	104.127	1.00	0.25	C
ATOM	15970	C	SER	A2006	116.484	116.904	104.121	1.00	0.25	C
ATOM	15971	O	SER	A2006	115.578	117.554	103.598	1.00	0.25	O
ATOM	15972	CB	SER	A2006	117.591	114.652	103.462	1.00	0.25	C
ATOM	15973	OG	SER	A2006	118.081	115.296	102.285	1.00	0.25	O
ATOM	15974	N	GLY	A2007	117.518	117.537	104.714	1.00	0.22	N
ATOM	15975	CA	GLY	A2007	117.559	118.990	104.935	1.00	0.22	C
ATOM	15976	C	GLY	A2007	117.468	119.865	103.697	1.00	0.22	C
ATOM	15977	O	GLY	A2007	116.941	120.973	103.727	1.00	0.22	O
ATOM	15978	N	LYS	A2008	117.963	119.362	102.553	1.00	0.27	N
ATOM	15979	CA	LYS	A2008	117.821	119.952	101.227	1.00	0.27	C

ATOM	15980	C	LYS	A2008	116.411	119.964	100.673	1.00	0.27	C
ATOM	15981	O	LYS	A2008	116.033	120.883	99.946	1.00	0.27	O
ATOM	15982	CB	LYS	A2008	118.754	119.166	100.251	1.00	0.27	C
ATOM	15983	CG	LYS	A2008	118.594	119.246	98.711	1.00	0.27	C
ATOM	15984	CD	LYS	A2008	118.577	117.815	98.100	1.00	0.27	C
ATOM	15985	CE	LYS	A2008	118.504	117.660	96.570	1.00	0.27	C
ATOM	15986	NZ	LYS	A2008	117.743	118.765	95.956	1.00	0.27	N
ATOM	15987	N	TYR	A2009	115.615	118.902	100.886	1.00	0.17	N
ATOM	15988	CA	TYR	A2009	114.509	118.696	99.981	1.00	0.17	C
ATOM	15989	C	TYR	A2009	113.467	117.775	100.535	1.00	0.17	C
ATOM	15990	O	TYR	A2009	113.720	116.913	101.372	1.00	0.17	O
ATOM	15991	CB	TYR	A2009	115.039	118.049	98.669	1.00	0.17	C
ATOM	15992	CG	TYR	A2009	114.429	118.544	97.400	1.00	0.17	C
ATOM	15993	CD1	TYR	A2009	113.772	117.635	96.566	1.00	0.17	C
ATOM	15994	CD2	TYR	A2009	114.620	119.865	96.959	1.00	0.17	C
ATOM	15995	CE1	TYR	A2009	113.249	118.044	95.337	1.00	0.17	C
ATOM	15996	CE2	TYR	A2009	114.148	120.264	95.699	1.00	0.17	C
ATOM	15997	CZ	TYR	A2009	113.441	119.356	94.900	1.00	0.17	C
ATOM	15998	OH	TYR	A2009	112.926	119.758	93.655	1.00	0.17	O
ATOM	15999	N	TYR	A2010	112.264	117.898	99.968	1.00	0.19	N
ATOM	16000	CA	TYR	A2010	111.225	116.908	100.099	1.00	0.19	C
ATOM	16001	C	TYR	A2010	111.325	116.112	98.817	1.00	0.19	C
ATOM	16002	O	TYR	A2010	111.154	116.673	97.737	1.00	0.19	O
ATOM	16003	CB	TYR	A2010	109.820	117.557	100.219	1.00	0.19	C
ATOM	16004	CG	TYR	A2010	109.763	118.643	101.266	1.00	0.19	C
ATOM	16005	CD1	TYR	A2010	110.422	118.521	102.502	1.00	0.19	C
ATOM	16006	CD2	TYR	A2010	109.013	119.806	101.014	1.00	0.19	C
ATOM	16007	CE1	TYR	A2010	110.370	119.553	103.448	1.00	0.19	C
ATOM	16008	CE2	TYR	A2010	108.949	120.836	101.963	1.00	0.19	C
ATOM	16009	CZ	TYR	A2010	109.645	120.714	103.169	1.00	0.19	C
ATOM	16010	OH	TYR	A2010	109.610	121.757	104.111	1.00	0.19	O
ATOM	16011	N	HIS	A2011	111.698	114.814	98.875	1.00	0.28	N
ATOM	16012	CA	HIS	A2011	111.993	114.076	97.653	1.00	0.28	C
ATOM	16013	C	HIS	A2011	110.739	113.676	96.913	1.00	0.28	C
ATOM	16014	O	HIS	A2011	109.620	113.855	97.393	1.00	0.28	O
ATOM	16015	CB	HIS	A2011	113.069	112.948	97.785	1.00	0.28	C
ATOM	16016	CG	HIS	A2011	112.649	111.531	98.052	1.00	0.28	C
ATOM	16017	ND1	HIS	A2011	112.134	110.737	97.054	1.00	0.28	N
ATOM	16018	CD2	HIS	A2011	112.670	110.848	99.213	1.00	0.28	C
ATOM	16019	CE1	HIS	A2011	111.819	109.603	97.632	1.00	0.28	C
ATOM	16020	NE2	HIS	A2011	112.131	109.611	98.943	1.00	0.28	N
ATOM	16021	N	LEU	A2012	110.898	113.196	95.671	1.00	0.22	N
ATOM	16022	CA	LEU	A2012	109.787	112.774	94.854	1.00	0.22	C
ATOM	16023	C	LEU	A2012	108.909	111.692	95.453	1.00	0.22	C
ATOM	16024	O	LEU	A2012	109.259	110.967	96.381	1.00	0.22	O
ATOM	16025	CB	LEU	A2012	110.243	112.381	93.440	1.00	0.22	C
ATOM	16026	CG	LEU	A2012	110.752	113.571	92.618	1.00	0.22	C
ATOM	16027	CD1	LEU	A2012	111.292	113.124	91.255	1.00	0.22	C
ATOM	16028	CD2	LEU	A2012	109.601	114.561	92.426	1.00	0.22	C
ATOM	16029	N	LYS	A2013	107.666	111.569	94.960	1.00	0.66	N
ATOM	16030	CA	LYS	A2013	106.746	110.636	95.562	1.00	0.66	C
ATOM	16031	C	LYS	A2013	107.131	109.212	95.202	1.00	0.66	C
ATOM	16032	O	LYS	A2013	106.877	108.726	94.101	1.00	0.66	O
ATOM	16033	CB	LYS	A2013	105.285	110.953	95.186	1.00	0.66	C
ATOM	16034	CG	LYS	A2013	104.247	110.113	95.949	1.00	0.66	C
ATOM	16035	CD	LYS	A2013	102.818	110.555	95.597	1.00	0.66	C
ATOM	16036	CE	LYS	A2013	101.737	109.522	95.944	1.00	0.66	C
ATOM	16037	NZ	LYS	A2013	100.688	109.527	94.906	1.00	0.66	N
ATOM	16038	N	LEU	A2014	107.782	108.512	96.159	1.00	0.69	N
ATOM	16039	CA	LEU	A2014	108.480	107.257	95.957	1.00	0.69	C
ATOM	16040	C	LEU	A2014	107.614	106.175	95.353	1.00	0.69	C
ATOM	16041	O	LEU	A2014	108.066	105.412	94.511	1.00	0.69	O
ATOM	16042	CB	LEU	A2014	109.161	106.739	97.259	1.00	0.69	C
ATOM	16043	CG	LEU	A2014	108.250	106.522	98.492	1.00	0.69	C
ATOM	16044	CD1	LEU	A2014	108.752	105.338	99.333	1.00	0.69	C

ATOM	16045	CD2	LEU	A2014	108.146	107.773	99.381	1.00	0.69	C
ATOM	16046	N	MET	A2015	106.328	106.119	95.741	1.00	0.69	N
ATOM	16047	CA	MET	A2015	105.353	105.227	95.160	1.00	0.69	C
ATOM	16048	C	MET	A2015	105.121	105.436	93.664	1.00	0.69	C
ATOM	16049	O	MET	A2015	105.304	104.512	92.877	1.00	0.69	O
ATOM	16050	CB	MET	A2015	104.030	105.415	95.936	1.00	0.69	C
ATOM	16051	CG	MET	A2015	102.879	104.513	95.463	1.00	0.69	C
ATOM	16052	SD	MET	A2015	101.528	104.404	96.670	1.00	0.69	S
ATOM	16053	CE	MET	A2015	100.695	103.068	95.772	1.00	0.69	C
ATOM	16054	N	ASP	A2016	104.777	106.667	93.231	1.00	0.78	N
ATOM	16055	CA	ASP	A2016	104.450	106.980	91.853	1.00	0.78	C
ATOM	16056	C	ASP	A2016	105.692	106.927	90.983	1.00	0.78	C
ATOM	16057	O	ASP	A2016	105.740	106.263	89.956	1.00	0.78	O
ATOM	16058	CB	ASP	A2016	103.789	108.385	91.732	1.00	0.78	C
ATOM	16059	CG	ASP	A2016	102.546	108.557	92.582	1.00	0.78	C
ATOM	16060	OD1	ASP	A2016	102.220	107.727	93.465	1.00	0.78	O
ATOM	16061	OD2	ASP	A2016	101.909	109.636	92.467	1.00	0.78	O
ATOM	16062	N	GLN	A2017	106.787	107.572	91.428	1.00	0.74	N
ATOM	16063	CA	GLN	A2017	108.024	107.623	90.676	1.00	0.74	C
ATOM	16064	C	GLN	A2017	108.727	106.274	90.537	1.00	0.74	C
ATOM	16065	O	GLN	A2017	109.349	105.993	89.510	1.00	0.74	O
ATOM	16066	CB	GLN	A2017	108.961	108.718	91.232	1.00	0.74	C
ATOM	16067	CG	GLN	A2017	108.710	110.124	90.617	1.00	0.74	C
ATOM	16068	CD	GLN	A2017	107.354	110.750	90.961	1.00	0.74	C
ATOM	16069	OE1	GLN	A2017	107.155	111.343	92.024	1.00	0.74	O
ATOM	16070	NE2	GLN	A2017	106.381	110.661	90.024	1.00	0.74	N
ATOM	16071	N	ALA	A2018	108.646	105.385	91.553	1.00	0.83	N
ATOM	16072	CA	ALA	A2018	109.043	103.996	91.398	1.00	0.83	C
ATOM	16073	C	ALA	A2018	108.107	103.198	90.492	1.00	0.83	C
ATOM	16074	O	ALA	A2018	108.561	102.431	89.644	1.00	0.83	O
ATOM	16075	CB	ALA	A2018	109.163	103.276	92.753	1.00	0.83	C
ATOM	16076	N	ALA	A2019	106.773	103.373	90.626	1.00	0.81	N
ATOM	16077	CA	ALA	A2019	105.799	102.695	89.790	1.00	0.81	C
ATOM	16078	C	ALA	A2019	105.937	103.027	88.311	1.00	0.81	C
ATOM	16079	O	ALA	A2019	106.043	102.129	87.478	1.00	0.81	O
ATOM	16080	CB	ALA	A2019	104.370	103.042	90.258	1.00	0.81	C
ATOM	16081	N	THR	A2020	106.028	104.321	87.948	1.00	0.78	N
ATOM	16082	CA	THR	A2020	106.182	104.759	86.566	1.00	0.78	C
ATOM	16083	C	THR	A2020	107.484	104.312	85.938	1.00	0.78	C
ATOM	16084	O	THR	A2020	107.514	103.849	84.800	1.00	0.78	O
ATOM	16085	CB	THR	A2020	106.107	106.264	86.395	1.00	0.78	C
ATOM	16086	OG1	THR	A2020	104.933	106.779	87.004	1.00	0.78	O
ATOM	16087	CG2	THR	A2020	106.039	106.676	84.921	1.00	0.78	C
ATOM	16088	N	THR	A2021	108.615	104.417	86.672	1.00	0.76	N
ATOM	16089	CA	THR	A2021	109.941	104.055	86.153	1.00	0.76	C
ATOM	16090	C	THR	A2021	110.057	102.572	85.819	1.00	0.76	C
ATOM	16091	O	THR	A2021	110.634	102.187	84.806	1.00	0.76	O
ATOM	16092	CB	THR	A2021	111.101	104.576	87.015	1.00	0.76	C
ATOM	16093	OG1	THR	A2021	112.310	104.700	86.283	1.00	0.76	O
ATOM	16094	CG2	THR	A2021	111.409	103.705	88.236	1.00	0.76	C
ATOM	16095	N	LEU	A2022	109.447	101.688	86.641	1.00	0.71	N
ATOM	16096	CA	LEU	A2022	109.297	100.276	86.329	1.00	0.71	C
ATOM	16097	C	LEU	A2022	108.242	99.991	85.243	1.00	0.71	C
ATOM	16098	O	LEU	A2022	108.405	99.109	84.399	1.00	0.71	O
ATOM	16099	CB	LEU	A2022	109.025	99.477	87.631	1.00	0.71	C
ATOM	16100	CG	LEU	A2022	110.168	99.566	88.676	1.00	0.71	C
ATOM	16101	CD1	LEU	A2022	109.759	98.906	90.003	1.00	0.71	C
ATOM	16102	CD2	LEU	A2022	111.484	98.950	88.171	1.00	0.71	C
ATOM	16103	N	SER	A2023	107.122	100.747	85.223	1.00	0.71	N
ATOM	16104	CA	SER	A2023	106.030	100.625	84.251	1.00	0.71	C
ATOM	16105	C	SER	A2023	106.420	100.898	82.796	1.00	0.71	C
ATOM	16106	O	SER	A2023	106.055	100.153	81.884	1.00	0.71	O
ATOM	16107	CB	SER	A2023	104.838	101.552	84.636	1.00	0.71	C
ATOM	16108	OG	SER	A2023	103.672	101.334	83.839	1.00	0.71	O
ATOM	16109	N	THR	A2024	107.240	101.942	82.521	1.00	0.81	N

ATOM	16110	CA	THR	A2024	107.552	102.412	81.158	1.00	0.81	C
ATOM	16111	C	THR	A2024	108.537	101.528	80.399	1.00	0.81	C
ATOM	16112	O	THR	A2024	109.027	101.872	79.318	1.00	0.81	O
ATOM	16113	CB	THR	A2024	108.103	103.842	81.118	1.00	0.81	C
ATOM	16114	OG1	THR	A2024	109.251	103.994	81.938	1.00	0.81	O
ATOM	16115	CG2	THR	A2024	107.048	104.832	81.627	1.00	0.81	C
ATOM	16116	N	ILE	A2025	108.820	100.335	80.946	1.00	0.75	N
ATOM	16117	CA	ILE	A2025	109.689	99.326	80.384	1.00	0.75	C
ATOM	16118	C	ILE	A2025	108.886	98.220	79.729	1.00	0.75	C
ATOM	16119	O	ILE	A2025	109.112	97.822	78.583	1.00	0.75	O
ATOM	16120	CB	ILE	A2025	110.554	98.683	81.456	1.00	0.75	C
ATOM	16121	CG1	ILE	A2025	111.103	99.702	82.483	1.00	0.75	C
ATOM	16122	CG2	ILE	A2025	111.682	97.947	80.711	1.00	0.75	C
ATOM	16123	CD1	ILE	A2025	111.747	99.029	83.702	1.00	0.75	C
ATOM	16124	N	LEU	A2026	107.864	97.706	80.449	1.00	0.71	N
ATOM	16125	CA	LEU	A2026	106.987	96.637	79.999	1.00	0.71	C
ATOM	16126	C	LEU	A2026	106.228	97.032	78.754	1.00	0.71	C
ATOM	16127	O	LEU	A2026	105.948	96.201	77.889	1.00	0.71	O
ATOM	16128	CB	LEU	A2026	105.968	96.239	81.094	1.00	0.71	C
ATOM	16129	CG	LEU	A2026	106.569	95.559	82.341	1.00	0.71	C
ATOM	16130	CD1	LEU	A2026	105.482	95.343	83.401	1.00	0.71	C
ATOM	16131	CD2	LEU	A2026	107.218	94.209	82.011	1.00	0.71	C
ATOM	16132	N	GLY	A2027	105.945	98.345	78.642	1.00	0.78	N
ATOM	16133	CA	GLY	A2027	105.249	98.930	77.516	1.00	0.78	C
ATOM	16134	C	GLY	A2027	106.034	99.104	76.244	1.00	0.78	C
ATOM	16135	O	GLY	A2027	105.466	99.485	75.228	1.00	0.78	O
ATOM	16136	N	LYS	A2028	107.348	98.801	76.229	1.00	0.69	N
ATOM	16137	CA	LYS	A2028	108.128	98.790	74.996	1.00	0.69	C
ATOM	16138	C	LYS	A2028	108.732	97.422	74.754	1.00	0.69	C
ATOM	16139	O	LYS	A2028	108.761	96.921	73.631	1.00	0.69	O
ATOM	16140	CB	LYS	A2028	109.306	99.807	75.051	1.00	0.69	C
ATOM	16141	CG	LYS	A2028	108.895	101.258	75.365	1.00	0.69	C
ATOM	16142	CD	LYS	A2028	107.766	101.831	74.483	1.00	0.69	C
ATOM	16143	CE	LYS	A2028	108.004	101.869	72.971	1.00	0.69	C
ATOM	16144	NZ	LYS	A2028	109.101	102.810	72.670	1.00	0.69	N
ATOM	16145	N	ASP	A2029	109.206	96.756	75.822	1.00	0.71	N
ATOM	16146	CA	ASP	A2029	110.104	95.631	75.685	1.00	0.71	C
ATOM	16147	C	ASP	A2029	109.416	94.314	76.043	1.00	0.71	C
ATOM	16148	O	ASP	A2029	110.060	93.333	76.420	1.00	0.71	O
ATOM	16149	CB	ASP	A2029	111.380	95.902	76.524	1.00	0.71	C
ATOM	16150	CG	ASP	A2029	112.061	97.164	76.011	1.00	0.71	C
ATOM	16151	OD1	ASP	A2029	112.394	97.182	74.796	1.00	0.71	O
ATOM	16152	OD2	ASP	A2029	112.252	98.121	76.810	1.00	0.71	O
ATOM	16153	N	GLY	A2030	108.060	94.271	75.954	1.00	0.69	N
ATOM	16154	CA	GLY	A2030	107.145	93.120	76.087	1.00	0.69	C
ATOM	16155	C	GLY	A2030	107.688	91.731	75.823	1.00	0.69	C
ATOM	16156	O	GLY	A2030	108.220	91.097	76.733	1.00	0.69	O
ATOM	16157	N	CYS	A2031	107.616	91.239	74.564	1.00	0.61	N
ATOM	16158	CA	CYS	A2031	108.205	89.949	74.214	1.00	0.61	C
ATOM	16159	C	CYS	A2031	109.693	90.024	74.000	1.00	0.61	C
ATOM	16160	O	CYS	A2031	110.332	88.984	73.956	1.00	0.61	O
ATOM	16161	CB	CYS	A2031	107.645	89.256	72.939	1.00	0.61	C
ATOM	16162	SG	CYS	A2031	106.029	88.473	73.203	1.00	0.61	S
ATOM	16163	N	ARG	A2032	110.323	91.212	73.887	1.00	0.57	N
ATOM	16164	CA	ARG	A2032	111.766	91.294	73.677	1.00	0.57	C
ATOM	16165	C	ARG	A2032	112.570	90.594	74.772	1.00	0.57	C
ATOM	16166	O	ARG	A2032	113.532	89.881	74.498	1.00	0.57	O
ATOM	16167	CB	ARG	A2032	112.263	92.755	73.568	1.00	0.57	C
ATOM	16168	CG	ARG	A2032	111.785	93.476	72.292	1.00	0.57	C
ATOM	16169	CD	ARG	A2032	112.273	94.928	72.156	1.00	0.57	C
ATOM	16170	NE	ARG	A2032	113.766	94.882	72.081	1.00	0.57	N
ATOM	16171	CZ	ARG	A2032	114.554	95.944	72.296	1.00	0.57	C
ATOM	16172	NH1	ARG	A2032	114.105	97.111	72.743	1.00	0.57	N
ATOM	16173	NH2	ARG	A2032	115.859	95.817	72.072	1.00	0.57	N
ATOM	16174	N	LEU	A2033	112.128	90.733	76.041	1.00	0.64	N

ATOM	16175	CA	LEU	A2033	112.648	89.943	77.146	1.00	0.64	C
ATOM	16176	C	LEU	A2033	112.383	88.452	76.996	1.00	0.64	C
ATOM	16177	O	LEU	A2033	113.302	87.651	77.128	1.00	0.64	O
ATOM	16178	CB	LEU	A2033	112.034	90.421	78.483	1.00	0.64	C
ATOM	16179	CG	LEU	A2033	112.706	89.845	79.750	1.00	0.64	C
ATOM	16180	CD1	LEU	A2033	114.076	90.491	79.965	1.00	0.64	C
ATOM	16181	CD2	LEU	A2033	111.872	89.966	81.041	1.00	0.64	C
ATOM	16182	N	LEU	A2034	111.141	88.053	76.629	1.00	0.60	N
ATOM	16183	CA	LEU	A2034	110.759	86.661	76.441	1.00	0.60	C
ATOM	16184	C	LEU	A2034	111.569	85.977	75.350	1.00	0.60	C
ATOM	16185	O	LEU	A2034	111.973	84.827	75.485	1.00	0.60	O
ATOM	16186	CB	LEU	A2034	109.260	86.471	76.076	1.00	0.60	C
ATOM	16187	CG	LEU	A2034	108.230	87.086	77.046	1.00	0.60	C
ATOM	16188	CD1	LEU	A2034	106.813	86.665	76.622	1.00	0.60	C
ATOM	16189	CD2	LEU	A2034	108.468	86.690	78.509	1.00	0.60	C
ATOM	16190	N	LEU	A2035	111.850	86.684	74.234	1.00	0.60	N
ATOM	16191	CA	LEU	A2035	112.759	86.223	73.199	1.00	0.60	C
ATOM	16192	C	LEU	A2035	114.168	86.014	73.726	1.00	0.60	C
ATOM	16193	O	LEU	A2035	114.784	84.987	73.464	1.00	0.60	O
ATOM	16194	CB	LEU	A2035	112.857	87.205	71.998	1.00	0.60	C
ATOM	16195	CG	LEU	A2035	111.542	87.496	71.242	1.00	0.60	C
ATOM	16196	CD1	LEU	A2035	111.798	88.480	70.088	1.00	0.60	C
ATOM	16197	CD2	LEU	A2035	110.827	86.234	70.732	1.00	0.60	C
ATOM	16198	N	GLY	A2036	114.695	86.958	74.538	1.00	0.66	N
ATOM	16199	CA	GLY	A2036	116.016	86.821	75.144	1.00	0.66	C
ATOM	16200	C	GLY	A2036	116.121	85.669	76.113	1.00	0.66	C
ATOM	16201	O	GLY	A2036	117.081	84.908	76.069	1.00	0.66	O
ATOM	16202	N	GLU	A2037	115.098	85.495	76.970	1.00	0.56	N
ATOM	16203	CA	GLU	A2037	114.949	84.404	77.920	1.00	0.56	C
ATOM	16204	C	GLU	A2037	114.838	83.032	77.301	1.00	0.56	C
ATOM	16205	O	GLU	A2037	115.453	82.074	77.765	1.00	0.56	O
ATOM	16206	CB	GLU	A2037	113.712	84.677	78.807	1.00	0.56	C
ATOM	16207	CG	GLU	A2037	114.115	85.734	79.842	1.00	0.56	C
ATOM	16208	CD	GLU	A2037	113.038	86.409	80.665	1.00	0.56	C
ATOM	16209	OE1	GLU	A2037	111.823	86.304	80.383	1.00	0.56	O
ATOM	16210	OE2	GLU	A2037	113.533	87.135	81.576	1.00	0.56	O
ATOM	16211	N	ARG	A2038	114.052	82.907	76.218	1.00	0.44	N
ATOM	16212	CA	ARG	A2038	113.971	81.691	75.432	1.00	0.44	C
ATOM	16213	C	ARG	A2038	115.268	81.333	74.726	1.00	0.44	C
ATOM	16214	O	ARG	A2038	115.643	80.165	74.687	1.00	0.44	O
ATOM	16215	CB	ARG	A2038	112.843	81.795	74.383	1.00	0.44	C
ATOM	16216	CG	ARG	A2038	111.435	81.775	75.008	1.00	0.44	C
ATOM	16217	CD	ARG	A2038	110.358	82.164	73.996	1.00	0.44	C
ATOM	16218	NE	ARG	A2038	109.054	82.228	74.733	1.00	0.44	N
ATOM	16219	CZ	ARG	A2038	107.887	82.533	74.151	1.00	0.44	C
ATOM	16220	NH1	ARG	A2038	107.796	82.716	72.837	1.00	0.44	N
ATOM	16221	NH2	ARG	A2038	106.787	82.660	74.891	1.00	0.44	N
ATOM	16222	N	THR	A2039	115.986	82.323	74.149	1.00	0.46	N
ATOM	16223	CA	THR	A2039	117.298	82.096	73.540	1.00	0.46	C
ATOM	16224	C	THR	A2039	118.343	81.651	74.549	1.00	0.46	C
ATOM	16225	O	THR	A2039	119.074	80.691	74.313	1.00	0.46	O
ATOM	16226	CB	THR	A2039	117.837	83.319	72.799	1.00	0.46	C
ATOM	16227	OG1	THR	A2039	116.932	83.706	71.778	1.00	0.46	O
ATOM	16228	CG2	THR	A2039	119.162	83.030	72.076	1.00	0.46	C
ATOM	16229	N	CYS	A2040	118.438	82.308	75.729	1.00	0.44	N
ATOM	16230	CA	CYS	A2040	119.319	81.828	76.779	1.00	0.44	C
ATOM	16231	C	CYS	A2040	118.977	82.472	78.121	1.00	0.44	C
ATOM	16232	O	CYS	A2040	118.551	83.618	78.200	1.00	0.44	O
ATOM	16233	CB	CYS	A2040	120.811	82.118	76.418	1.00	0.44	C
ATOM	16234	SG	CYS	A2040	122.059	81.365	77.517	1.00	0.44	S
ATOM	16235	N	GLY	A2041	119.198	81.764	79.252	1.00	0.55	N
ATOM	16236	CA	GLY	A2041	119.050	82.375	80.575	1.00	0.55	C
ATOM	16237	C	GLY	A2041	120.343	82.552	81.326	1.00	0.55	C
ATOM	16238	O	GLY	A2041	120.518	83.531	82.050	1.00	0.55	O
ATOM	16239	N	SER	A2042	121.297	81.612	81.176	1.00	0.56	N

ATOM	16240	CA	SER	A2042	122.506	81.585	81.996	1.00	0.56	C
ATOM	16241	C	SER	A2042	123.639	82.419	81.442	1.00	0.56	C
ATOM	16242	O	SER	A2042	124.210	83.255	82.135	1.00	0.56	O
ATOM	16243	CB	SER	A2042	123.048	80.146	82.197	1.00	0.56	C
ATOM	16244	OG	SER	A2042	122.035	79.331	82.785	1.00	0.56	O
ATOM	16245	N	ASN	A2043	123.979	82.249	80.146	1.00	0.52	N
ATOM	16246	CA	ASN	A2043	125.175	82.843	79.556	1.00	0.52	C
ATOM	16247	C	ASN	A2043	125.013	84.333	79.290	1.00	0.52	C
ATOM	16248	O	ASN	A2043	125.994	85.038	79.091	1.00	0.52	O
ATOM	16249	CB	ASN	A2043	125.609	82.153	78.228	1.00	0.52	C
ATOM	16250	CG	ASN	A2043	125.920	80.676	78.448	1.00	0.52	C
ATOM	16251	OD1	ASN	A2043	125.962	80.166	79.566	1.00	0.52	O
ATOM	16252	ND2	ASN	A2043	126.146	79.938	77.336	1.00	0.52	N
ATOM	16253	N	LEU	A2044	123.766	84.850	79.333	1.00	0.61	N
ATOM	16254	CA	LEU	A2044	123.464	86.266	79.197	1.00	0.61	C
ATOM	16255	C	LEU	A2044	123.673	87.036	80.495	1.00	0.61	C
ATOM	16256	O	LEU	A2044	123.579	88.260	80.532	1.00	0.61	O
ATOM	16257	CB	LEU	A2044	121.991	86.495	78.773	1.00	0.61	C
ATOM	16258	CG	LEU	A2044	121.603	85.931	77.393	1.00	0.61	C
ATOM	16259	CD1	LEU	A2044	120.118	86.212	77.124	1.00	0.61	C
ATOM	16260	CD2	LEU	A2044	122.449	86.511	76.250	1.00	0.61	C
ATOM	16261	N	ARG	A2045	123.963	86.343	81.617	1.00	0.50	N
ATOM	16262	CA	ARG	A2045	124.476	86.992	82.811	1.00	0.50	C
ATOM	16263	C	ARG	A2045	125.857	87.593	82.616	1.00	0.50	C
ATOM	16264	O	ARG	A2045	126.165	88.643	83.172	1.00	0.50	O
ATOM	16265	CB	ARG	A2045	124.545	86.030	84.021	1.00	0.50	C
ATOM	16266	CG	ARG	A2045	123.165	85.726	84.633	1.00	0.50	C
ATOM	16267	CD	ARG	A2045	123.276	85.262	86.090	1.00	0.50	C
ATOM	16268	NE	ARG	A2045	121.986	85.609	86.794	1.00	0.50	N
ATOM	16269	CZ	ARG	A2045	121.929	86.031	88.068	1.00	0.50	C
ATOM	16270	NH1	ARG	A2045	123.020	86.129	88.818	1.00	0.50	N
ATOM	16271	NH2	ARG	A2045	120.765	86.398	88.602	1.00	0.50	N
ATOM	16272	N	GLU	A2046	126.705	86.914	81.829	1.00	0.60	N
ATOM	16273	CA	GLU	A2046	128.074	87.295	81.588	1.00	0.60	C
ATOM	16274	C	GLU	A2046	128.171	88.090	80.295	1.00	0.60	C
ATOM	16275	O	GLU	A2046	127.607	87.720	79.266	1.00	0.60	O
ATOM	16276	CB	GLU	A2046	128.944	86.013	81.529	1.00	0.60	C
ATOM	16277	CG	GLU	A2046	130.445	86.256	81.257	1.00	0.60	C
ATOM	16278	CD	GLU	A2046	131.027	87.335	82.162	1.00	0.60	C
ATOM	16279	OE1	GLU	A2046	131.294	88.438	81.612	1.00	0.60	O
ATOM	16280	OE2	GLU	A2046	131.191	87.078	83.376	1.00	0.60	O
ATOM	16281	N	GLN	A2047	128.885	89.231	80.309	1.00	0.58	N
ATOM	16282	CA	GLN	A2047	129.007	90.079	79.141	1.00	0.58	C
ATOM	16283	C	GLN	A2047	130.213	89.699	78.312	1.00	0.58	C
ATOM	16284	O	GLN	A2047	130.214	89.892	77.099	1.00	0.58	O
ATOM	16285	CB	GLN	A2047	129.130	91.583	79.499	1.00	0.58	C
ATOM	16286	CG	GLN	A2047	127.880	92.196	80.178	1.00	0.58	C
ATOM	16287	CD	GLN	A2047	127.817	91.905	81.679	1.00	0.58	C
ATOM	16288	OE1	GLN	A2047	128.747	92.173	82.435	1.00	0.58	O
ATOM	16289	NE2	GLN	A2047	126.668	91.362	82.138	1.00	0.58	N
ATOM	16290	N	VAL	A2048	131.278	89.111	78.902	1.00	0.46	N
ATOM	16291	CA	VAL	A2048	132.404	88.660	78.094	1.00	0.46	C
ATOM	16292	C	VAL	A2048	132.062	87.457	77.238	1.00	0.46	C
ATOM	16293	O	VAL	A2048	132.475	87.376	76.090	1.00	0.46	O
ATOM	16294	CB	VAL	A2048	133.741	88.476	78.818	1.00	0.46	C
ATOM	16295	CG1	VAL	A2048	133.999	89.718	79.692	1.00	0.46	C
ATOM	16296	CG2	VAL	A2048	133.840	87.186	79.655	1.00	0.46	C
ATOM	16297	N	LYS	A2049	131.262	86.493	77.742	1.00	0.50	N
ATOM	16298	CA	LYS	A2049	131.002	85.221	77.077	1.00	0.50	C
ATOM	16299	C	LYS	A2049	130.394	85.299	75.669	1.00	0.50	C
ATOM	16300	O	LYS	A2049	130.888	84.567	74.805	1.00	0.50	O
ATOM	16301	CB	LYS	A2049	130.211	84.236	77.991	1.00	0.50	C
ATOM	16302	CG	LYS	A2049	129.932	82.839	77.390	1.00	0.50	C
ATOM	16303	CD	LYS	A2049	131.201	82.071	76.969	1.00	0.50	C
ATOM	16304	CE	LYS	A2049	130.901	80.726	76.301	1.00	0.50	C

ATOM	16305	NZ	LYS	A2049	132.148	80.157	75.745	1.00	0.50	N
ATOM	16306	N	PRO	A2050	129.415	86.137	75.319	1.00	0.61	N
ATOM	16307	CA	PRO	A2050	129.026	86.357	73.929	1.00	0.61	C
ATOM	16308	C	PRO	A2050	130.137	86.884	73.031	1.00	0.61	C
ATOM	16309	O	PRO	A2050	130.146	86.570	71.846	1.00	0.61	O
ATOM	16310	CB	PRO	A2050	127.836	87.328	74.022	1.00	0.61	C
ATOM	16311	CG	PRO	A2050	127.234	87.043	75.399	1.00	0.61	C
ATOM	16312	CD	PRO	A2050	128.474	86.774	76.246	1.00	0.61	C
ATOM	16313	N	TYR	A2051	131.079	87.696	73.550	1.00	0.44	N
ATOM	16314	CA	TYR	A2051	132.068	88.370	72.722	1.00	0.44	C
ATOM	16315	C	TYR	A2051	133.418	87.650	72.746	1.00	0.44	C
ATOM	16316	O	TYR	A2051	134.301	87.928	71.941	1.00	0.44	O
ATOM	16317	CB	TYR	A2051	132.269	89.832	73.221	1.00	0.44	C
ATOM	16318	CG	TYR	A2051	130.970	90.587	73.418	1.00	0.44	C
ATOM	16319	CD1	TYR	A2051	129.837	90.437	72.587	1.00	0.44	C
ATOM	16320	CD2	TYR	A2051	130.875	91.441	74.529	1.00	0.44	C
ATOM	16321	CE1	TYR	A2051	128.620	91.053	72.924	1.00	0.44	C
ATOM	16322	CE2	TYR	A2051	129.666	92.063	74.859	1.00	0.44	C
ATOM	16323	CZ	TYR	A2051	128.535	91.836	74.078	1.00	0.44	C
ATOM	16324	OH	TYR	A2051	127.304	92.366	74.494	1.00	0.44	O
ATOM	16325	N	LEU	A2052	133.584	86.669	73.657	1.00	0.26	N
ATOM	16326	CA	LEU	A2052	134.792	85.884	73.860	1.00	0.26	C
ATOM	16327	C	LEU	A2052	134.701	84.570	73.108	1.00	0.26	C
ATOM	16328	O	LEU	A2052	135.673	83.842	72.915	1.00	0.26	O
ATOM	16329	CB	LEU	A2052	134.910	85.584	75.383	1.00	0.26	C
ATOM	16330	CG	LEU	A2052	136.185	84.883	75.895	1.00	0.26	C
ATOM	16331	CD1	LEU	A2052	137.398	85.819	75.803	1.00	0.26	C
ATOM	16332	CD2	LEU	A2052	135.976	84.428	77.350	1.00	0.26	C
ATOM	16333	N	THR	A2053	133.506	84.212	72.616	1.00	0.33	N
ATOM	16334	CA	THR	A2053	133.376	83.070	71.732	1.00	0.33	C
ATOM	16335	C	THR	A2053	132.466	83.473	70.599	1.00	0.33	C
ATOM	16336	O	THR	A2053	131.256	83.566	70.774	1.00	0.33	O
ATOM	16337	CB	THR	A2053	132.788	81.841	72.425	1.00	0.33	C
ATOM	16338	OG1	THR	A2053	133.516	81.464	73.594	1.00	0.33	O
ATOM	16339	CG2	THR	A2053	132.772	80.626	71.487	1.00	0.33	C
ATOM	16340	N	LEU	A2054	133.015	83.676	69.379	1.00	0.25	N
ATOM	16341	CA	LEU	A2054	132.307	84.238	68.231	1.00	0.25	C
ATOM	16342	C	LEU	A2054	131.061	83.477	67.797	1.00	0.25	C
ATOM	16343	O	LEU	A2054	130.123	84.035	67.239	1.00	0.25	O
ATOM	16344	CB	LEU	A2054	133.247	84.359	67.005	1.00	0.25	C
ATOM	16345	CG	LEU	A2054	134.387	85.387	67.153	1.00	0.25	C
ATOM	16346	CD1	LEU	A2054	135.327	85.290	65.942	1.00	0.25	C
ATOM	16347	CD2	LEU	A2054	133.854	86.824	67.276	1.00	0.25	C
ATOM	16348	N	LEU	A2055	130.988	82.164	68.074	1.00	0.27	N
ATOM	16349	CA	LEU	A2055	129.806	81.375	67.792	1.00	0.27	C
ATOM	16350	C	LEU	A2055	128.586	81.731	68.644	1.00	0.27	C
ATOM	16351	O	LEU	A2055	127.463	81.427	68.259	1.00	0.27	O
ATOM	16352	CB	LEU	A2055	130.114	79.867	67.952	1.00	0.27	C
ATOM	16353	CG	LEU	A2055	131.174	79.321	66.971	1.00	0.27	C
ATOM	16354	CD1	LEU	A2055	131.514	77.866	67.319	1.00	0.27	C
ATOM	16355	CD2	LEU	A2055	130.713	79.408	65.506	1.00	0.27	C
ATOM	16356	N	GLN	A2056	128.763	82.404	69.803	1.00	0.29	N
ATOM	16357	CA	GLN	A2056	127.672	82.758	70.698	1.00	0.29	C
ATOM	16358	C	GLN	A2056	126.917	84.020	70.279	1.00	0.29	C
ATOM	16359	O	GLN	A2056	125.822	84.274	70.769	1.00	0.29	O
ATOM	16360	CB	GLN	A2056	128.226	83.027	72.121	1.00	0.29	C
ATOM	16361	CG	GLN	A2056	129.056	81.890	72.765	1.00	0.29	C
ATOM	16362	CD	GLN	A2056	128.237	80.719	73.307	1.00	0.29	C
ATOM	16363	OE1	GLN	A2056	127.797	80.723	74.460	1.00	0.29	O
ATOM	16364	NE2	GLN	A2056	128.103	79.642	72.501	1.00	0.29	N
ATOM	16365	N	ILE	A2057	127.477	84.844	69.366	1.00	0.38	N
ATOM	16366	CA	ILE	A2057	126.910	86.143	69.000	1.00	0.38	C
ATOM	16367	C	ILE	A2057	126.321	86.108	67.591	1.00	0.38	C
ATOM	16368	O	ILE	A2057	126.092	87.124	66.947	1.00	0.38	O
ATOM	16369	CB	ILE	A2057	127.937	87.272	69.200	1.00	0.38	C

ATOM	16370	CG1	ILE	A2057	127.317	88.691	69.337	1.00	0.38	C
ATOM	16371	CG2	ILE	A2057	129.041	87.240	68.116	1.00	0.38	C
ATOM	16372	CD1	ILE	A2057	126.437	88.878	70.581	1.00	0.38	C
ATOM	16373	N	ARG	A2058	126.027	84.901	67.067	1.00	0.35	N
ATOM	16374	CA	ARG	A2058	125.513	84.730	65.716	1.00	0.35	C
ATOM	16375	C	ARG	A2058	123.999	84.623	65.646	1.00	0.35	C
ATOM	16376	O	ARG	A2058	123.454	84.276	64.599	1.00	0.35	O
ATOM	16377	CB	ARG	A2058	126.043	83.409	65.109	1.00	0.35	C
ATOM	16378	CG	ARG	A2058	127.564	83.365	64.894	1.00	0.35	C
ATOM	16379	CD	ARG	A2058	128.032	82.030	64.308	1.00	0.35	C
ATOM	16380	NE	ARG	A2058	127.386	81.905	62.960	1.00	0.35	N
ATOM	16381	CZ	ARG	A2058	127.224	80.758	62.288	1.00	0.35	C
ATOM	16382	NH1	ARG	A2058	127.710	79.608	62.740	1.00	0.35	N
ATOM	16383	NH2	ARG	A2058	126.550	80.761	61.139	1.00	0.35	N
ATOM	16384	N	GLU	A2059	123.296	84.873	66.762	1.00	0.51	N
ATOM	16385	CA	GLU	A2059	121.858	84.761	66.810	1.00	0.51	C
ATOM	16386	C	GLU	A2059	121.299	85.890	67.639	1.00	0.51	C
ATOM	16387	O	GLU	A2059	121.792	86.225	68.716	1.00	0.51	O
ATOM	16388	CB	GLU	A2059	121.363	83.429	67.427	1.00	0.51	C
ATOM	16389	CG	GLU	A2059	121.730	82.180	66.590	1.00	0.51	C
ATOM	16390	CD	GLU	A2059	121.095	80.895	67.113	1.00	0.51	C
ATOM	16391	OE1	GLU	A2059	120.269	80.967	68.059	1.00	0.51	O
ATOM	16392	OE2	GLU	A2059	121.438	79.824	66.547	1.00	0.51	O
ATOM	16393	N	GLY	A2060	120.208	86.513	67.153	1.00	0.66	N
ATOM	16394	CA	GLY	A2060	119.525	87.571	67.883	1.00	0.66	C
ATOM	16395	C	GLY	A2060	120.067	88.955	67.658	1.00	0.66	C
ATOM	16396	O	GLY	A2060	119.707	89.874	68.391	1.00	0.66	O
ATOM	16397	N	ASP	A2061	120.901	89.142	66.617	1.00	0.61	N
ATOM	16398	CA	ASP	A2061	121.563	90.339	66.122	1.00	0.61	C
ATOM	16399	C	ASP	A2061	120.736	91.616	66.222	1.00	0.61	C
ATOM	16400	O	ASP	A2061	121.202	92.657	66.669	1.00	0.61	O
ATOM	16401	CB	ASP	A2061	121.939	90.156	64.621	1.00	0.61	C
ATOM	16402	CG	ASP	A2061	122.646	88.847	64.266	1.00	0.61	C
ATOM	16403	OD1	ASP	A2061	122.360	87.803	64.904	1.00	0.61	O
ATOM	16404	OD2	ASP	A2061	123.414	88.888	63.274	1.00	0.61	O
ATOM	16405	N	VAL	A2062	119.447	91.535	65.842	1.00	0.65	N
ATOM	16406	CA	VAL	A2062	118.466	92.606	65.912	1.00	0.65	C
ATOM	16407	C	VAL	A2062	118.247	93.167	67.320	1.00	0.65	C
ATOM	16408	O	VAL	A2062	118.128	94.376	67.506	1.00	0.65	O
ATOM	16409	CB	VAL	A2062	117.138	92.190	65.276	1.00	0.65	C
ATOM	16410	CG1	VAL	A2062	117.391	91.808	63.802	1.00	0.65	C
ATOM	16411	CG2	VAL	A2062	116.451	91.025	66.023	1.00	0.65	C
ATOM	16412	N	ASN	A2063	118.236	92.312	68.371	1.00	0.70	N
ATOM	16413	CA	ASN	A2063	118.235	92.764	69.753	1.00	0.70	C
ATOM	16414	C	ASN	A2063	119.556	93.397	70.147	1.00	0.70	C
ATOM	16415	O	ASN	A2063	119.555	94.448	70.774	1.00	0.70	O
ATOM	16416	CB	ASN	A2063	117.910	91.635	70.768	1.00	0.70	C
ATOM	16417	CG	ASN	A2063	116.404	91.411	70.824	1.00	0.70	C
ATOM	16418	OD1	ASN	A2063	115.624	92.348	71.035	1.00	0.70	O
ATOM	16419	ND2	ASN	A2063	115.973	90.138	70.674	1.00	0.70	N
ATOM	16420	N	TRP	A2064	120.704	92.799	69.765	1.00	0.60	N
ATOM	16421	CA	TRP	A2064	122.018	93.339	70.093	1.00	0.60	C
ATOM	16422	C	TRP	A2064	122.285	94.708	69.449	1.00	0.60	C
ATOM	16423	O	TRP	A2064	122.681	95.647	70.126	1.00	0.60	O
ATOM	16424	CB	TRP	A2064	123.128	92.288	69.786	1.00	0.60	C
ATOM	16425	CG	TRP	A2064	124.577	92.706	70.064	1.00	0.60	C
ATOM	16426	CD1	TRP	A2064	125.625	92.653	69.187	1.00	0.60	C
ATOM	16427	CD2	TRP	A2064	125.058	93.366	71.247	1.00	0.60	C
ATOM	16428	NE1	TRP	A2064	126.727	93.279	69.725	1.00	0.60	N
ATOM	16429	CE2	TRP	A2064	126.418	93.720	70.988	1.00	0.60	C
ATOM	16430	CE3	TRP	A2064	124.456	93.721	72.451	1.00	0.60	C
ATOM	16431	CZ2	TRP	A2064	127.146	94.435	71.923	1.00	0.60	C
ATOM	16432	CZ3	TRP	A2064	125.184	94.494	73.362	1.00	0.60	C
ATOM	16433	CH2	TRP	A2064	126.513	94.862	73.096	1.00	0.60	C
ATOM	16434	N	VAL	A2065	121.950	94.890	68.154	1.00	0.71	N



ATOM	16435	CA	VAL	A2065	122.001	96.161	67.424	1.00	0.71	C
ATOM	16436	C	VAL	A2065	121.121	97.238	68.049	1.00	0.71	C
ATOM	16437	O	VAL	A2065	121.428	98.434	68.052	1.00	0.71	O
ATOM	16438	CB	VAL	A2065	121.578	95.922	65.968	1.00	0.71	C
ATOM	16439	CG1	VAL	A2065	121.126	97.199	65.222	1.00	0.71	C
ATOM	16440	CG2	VAL	A2065	122.779	95.288	65.243	1.00	0.71	C
ATOM	16441	N	SER	A2066	119.958	96.819	68.581	1.00	0.81	N
ATOM	16442	CA	SER	A2066	119.086	97.660	69.382	1.00	0.81	C
ATOM	16443	C	SER	A2066	119.693	98.049	70.732	1.00	0.81	C
ATOM	16444	O	SER	A2066	119.618	99.208	71.129	1.00	0.81	O
ATOM	16445	CB	SER	A2066	117.705	96.979	69.547	1.00	0.81	C
ATOM	16446	OG	SER	A2066	116.704	97.883	70.016	1.00	0.81	O
ATOM	16447	N	GLU	A2067	120.344	97.102	71.449	1.00	0.77	N
ATOM	16448	CA	GLU	A2067	121.063	97.351	72.693	1.00	0.77	C
ATOM	16449	C	GLU	A2067	122.307	98.229	72.568	1.00	0.77	C
ATOM	16450	O	GLU	A2067	122.406	99.219	73.285	1.00	0.77	O
ATOM	16451	CB	GLU	A2067	121.422	96.000	73.386	1.00	0.77	C
ATOM	16452	CG	GLU	A2067	120.158	95.367	74.021	1.00	0.77	C
ATOM	16453	CD	GLU	A2067	120.271	94.005	74.702	1.00	0.77	C
ATOM	16454	OE1	GLU	A2067	121.333	93.344	74.633	1.00	0.77	O
ATOM	16455	OE2	GLU	A2067	119.226	93.628	75.311	1.00	0.77	O
ATOM	16456	N	TYR	A2068	123.239	97.932	71.633	1.00	0.65	N
ATOM	16457	CA	TYR	A2068	124.493	98.648	71.433	1.00	0.65	C
ATOM	16458	C	TYR	A2068	125.393	97.825	70.514	1.00	0.65	C
ATOM	16459	O	TYR	A2068	125.423	96.608	70.620	1.00	0.65	O
ATOM	16460	CB	TYR	A2068	125.311	98.910	72.746	1.00	0.65	C
ATOM	16461	CG	TYR	A2068	126.458	99.859	72.530	1.00	0.65	C
ATOM	16462	CD1	TYR	A2068	127.779	99.387	72.497	1.00	0.65	C
ATOM	16463	CD2	TYR	A2068	126.213	101.227	72.328	1.00	0.65	C
ATOM	16464	CE1	TYR	A2068	128.841	100.266	72.250	1.00	0.65	C
ATOM	16465	CE2	TYR	A2068	127.275	102.112	72.090	1.00	0.65	C
ATOM	16466	CZ	TYR	A2068	128.588	101.626	72.046	1.00	0.65	C
ATOM	16467	OH	TYR	A2068	129.669	102.493	71.799	1.00	0.65	O
ATOM	16468	N	LYS	A2069	126.168	98.501	69.633	1.00	0.63	N
ATOM	16469	CA	LYS	A2069	127.160	97.916	68.740	1.00	0.63	C
ATOM	16470	C	LYS	A2069	126.526	97.255	67.483	1.00	0.63	C
ATOM	16471	O	LYS	A2069	125.727	97.971	66.810	1.00	0.63	O
ATOM	16472	CB	LYS	A2069	128.198	97.056	69.526	1.00	0.63	C
ATOM	16473	CG	LYS	A2069	129.468	96.612	68.782	1.00	0.63	C
ATOM	16474	CD	LYS	A2069	130.469	95.945	69.743	1.00	0.63	C
ATOM	16475	CE	LYS	A2069	131.597	95.197	69.032	1.00	0.63	C
ATOM	16476	NZ	LYS	A2069	132.491	94.576	70.038	1.00	0.63	N
ATOM	16477	OXT	LYS	A2069	126.864	96.088	67.150	1.00	0.63	O
TER	16478		LYS	A2069						
END										