

Zika Virus Drug Targets: A Missing Link In Drug Design And Discovery – A Route Map To Fill The Gap

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Supplementary Material

Figure S1: The multiple sequence alignment

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gi | 534286613 | pdb | 4K6M | A      -GRPGGRTLGEQWKEKLNAMSREEFFKYRREAIIEVDRTEARRARRENNI
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205. -GGGTGETLGEKWKARLNQMSALEFYSYKKSIGITEVCREEARRALKDQVA
gi | 985483961 | pdb | 5CCV | A      GTGSQGETLGEKWKKLNQLSRKEFDLYKKSIGITEVDRTEAKEGLKRGEI
gi | 453055587 | pdb | 3VWS | A      -----

gi | 534286613 | pdb | 4K6M | A      VGGHPVSRGSAKLRWLVEKGFVSPIGKVIDLGCGRGGWSYAAATLKKVQE
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  TGGHAVSRGSAKIRWLEERGLQPYGKVVDLGCGRGGWSYAAATIRKIQVE
gi | 985483961 | pdb | 5CCV | A      T-HHAVSRGSAKLQWVFERNMVIPEGRVIDLGCGRGGWSYCAAGLKKVTE
gi | 453055587 | pdb | 3VWS | A      -----

gi | 534286613 | pdb | 4K6M | A      VRGYTKGGGAGHEEPLMQSYGWNLVSLKSGVDVFFYKPEPSDTLFCDIGE
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  VRGYTKGGPGHEEPLVQSYGWNIVRLKSGVDVFHMAAEPDCTLLCDIGE
gi | 985483961 | pdb | 5CCV | A      VRGYTKGGPGHEEPPVMSYTYGWNIVKLSMKGKDVFFYLPFEKCDTLFCDIGE
gi | 453055587 | pdb | 3VWS | A      -----

gi | 534286613 | pdb | 4K6M | A      SSPSPVEVEEQRTLRLVLEMTSDWLHRGPREFCIKVLCPYMPKVIKEKMEVLQ
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  SSSSPVEEETRTLRLVLSMVGDWLEKRPQAFCAIKVLCPYTSMTMETMERLQ
gi | 985483961 | pdb | 5CCV | A      SSPSPVVEESRTIRVLKMPVPEWPKN--NQFCIKVLNFPMPVTVIEHLERLQ
gi | 453055587 | pdb | 3VWS | A      -----

gi | 534286613 | pdb | 4K6M | A      RRFGGGLVRLPLSRNSNHEMYVWVSGAAGNVVHAVNMTSQVLLGRMDRTVW
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  RRHGGGLVRRVPLCRNSTHEMYVWVSGAKSNIKSVSTTSQVLLGRMD-GPR
gi | 985483961 | pdb | 5CCV | A      RKHGGLVRRNPLSRNSTHEMYWISNGTGNIVSSVNMVSRLLLNRFMTTHR
gi | 453055587 | pdb | 3VWS | A      -----

gi | 534286613 | pdb | 4K6M | A      RGPKYEEDVNLGSGTRAVGKGEVHSNQEKIKKRIQKLKEEFATTHKDP
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  -----HHHHHKSDDTSKIKNRIRLRREYSSTWHHDEN
gi | 985483961 | pdb | 5CCV | A      RPVKYEEDVNLGSGTRAVASCAPNMKIIIGRIERIRNEHAETWFLDEN
gi | 453055587 | pdb | 3VWS | A      RP-TIEKDVLDGAGTRHRVNAEPEPTEPNMVDVIGERIKRIKEEHSSTWHYDDE
-----GSHMLDNMDVIGERIKRIKEEHNSTWHYDDE
: * . * * * : : : * . * * . * * :

gi | 534286613 | pdb | 4K6M | A      HPYRTWYTHGSYEVKATGSASSLVNGVVLMKSPWDAIANVTTMAMTDTT
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  HPYRTWYTHGSYEVKPTGSASSLVNGVVRLLSKPWDTITNVTMTAMTDTT
gi | 985483961 | pdb | 5CCV | A      HPYRTWAYHGSYEAPVQGSASSLVNGVVRLLSKPWDDVVTGVTGIAMTDTT
gi | 453055587 | pdb | 3VWS | A      NPYKTWAYHGSYEVKATGSASSMINGVVLLTKFPWVVVPMVTQMAMTDTT
NPYKTWAYHGSYEVKATGSASSMINGVVLLTKFPWVVVPMVTQMAMTDTT
: * * : * * * * * . . * * * * : : * * * * : : * * * * * :

gi | 534286613 | pdb | 4K6M | A      PFGQQRVFKKVDTRKAPEPPAGAKEVLENETTNLWLAFLSREKRPRLCTKE
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  PFGQQRVFKKVDTRKAPEPEGVYVLENETTNLWLAFLAREKRPRMCSRE
gi | 985483961 | pdb | 5CCV | A      PYGQQRVFKKVDTRVDPDQEGTRQVMNIVSSWLWKLGLKRRKPRVCTKE
gi | 453055587 | pdb | 3VWS | A      PFGQQRVFKKVDTRTPRPMFGTRKVMETAEWLWRTLGRNKRPRLCTRE
PFGQQRVFKKVDTRTPRPLPGTRKVMETAEWLWRTLGRNKRPRLCTRE
* : * * * * * * * * * * . * * * * * : : * * * * * : : * * * * * :

gi | 534286613 | pdb | 4K6M | A      EFIRKVNNSNAALGAVFAEQNQWSTAREAVDDPRFVEMVDEEREHLRGEC
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  EFIRKVNNSNAALGAMFEEQNQWRSAREAVEDPKFVEMVDEEREHLRGEC
gi | 985483961 | pdb | 5CCV | A      EFINKVRSNAALGAVFEENQWDSARAAVEDEEFKWLVDREHLKLGKC
gi | 453055587 | pdb | 3VWS | A      EFTKKVRTNAAMGAVFTEENQWDSARAAVEDEEFKWLVDREHLKLGKC
** . * * : * * * : * * * * * : * * * * * : * * * * * : * * *

gi | 534286613 | pdb | 4K6M | A      HTCIYNNMMGKREKKPGEFGKAKGSRAIWFMWLGARYLEFEALGFLNEDHW
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  HTCIYNNMMGKREKKPGEFGKAKGSRAIWFMWLGARFLFEALGFLNEDHW
gi | 985483961 | pdb | 5CCV | A      HSCVYNNMMGKREKKQGEFGKAKGSRAIWFYMWLGARFLFEALGFLNEDHW
gi | 453055587 | pdb | 3VWS | A      GSCVYNNMMGKREKKLGEFGKAKGSRAIWFYMWLGARYLEFEALGFLNEDHW
GSCVYNNMMGKREKKLGEFGKAKGSRAIWFYMWLGVRYLEFEALGFLNEDHW
: * : * * * * * * * * * * * * * * * : * * * * * * * * * *

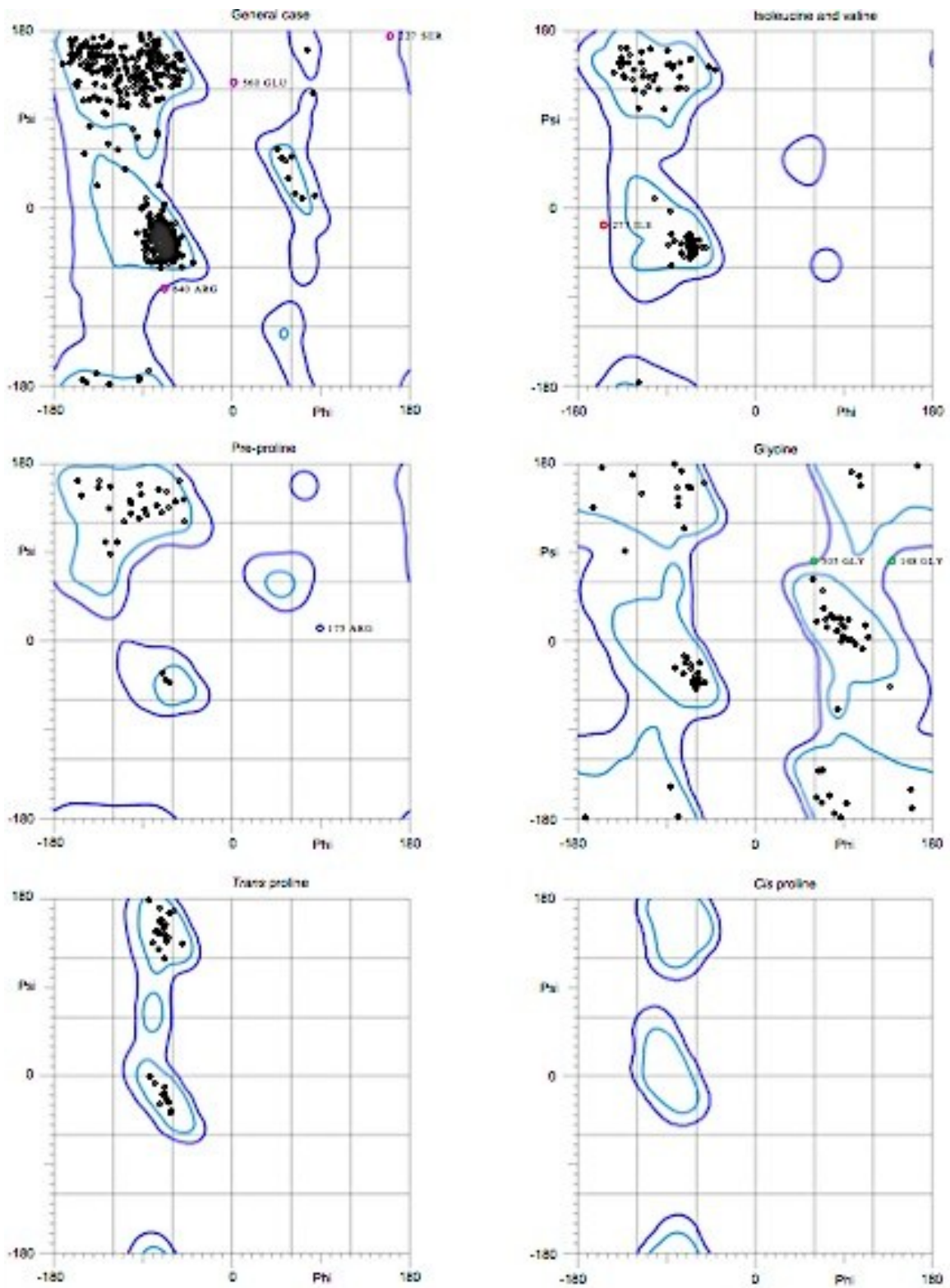
gi | 534286613 | pdb | 4K6M | A      LSRENSGGGVEGSGVQKLGYLRLDIAAGKQGGKMYADDTAGWDTRITRDTL
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  LGRKNSGGGVEGLGLQLGYLRLREVGTREPGRRIYADDTAGWDTRITRADL
gi | 985483961 | pdb | 5CCV | A      MGRNSGGGVEGLGLQLGYLILEEMNRPAGGKMYADDTAGWDTRISKFDL
gi | 453055587 | pdb | 3VWS | A      FSRENSYSGVEGGLHKLGYILRDISKIPGGAMYADDTAGWDTRITEDDL
FSRENSYSGVEGGLHKLGYILRDISKIPGGAMYADDTAGWDTRITEDDL
: . * : * * * * * * * * * * * : : * * * * * * * * * * : * *

gi | 534286613 | pdb | 4K6M | A      ENEAKVLELLDGEHRMLARAIIEITYRHKVVKVMPRAAEGKTVMDVISRE
gi | 126030613 | pdb | 2HFZ | A      -----
gi | 985757036 | ref | YP_009227205.  ENEAKVLELLDGEHRRARAIIEITYRHKVVKVMPRAADGRVTMVDISRE
gi | 985483961 | pdb | 5CCV | A      ENEALITNQMEEGHRTLALAVIKYTYQNKVVVLRPAEGGKTVMDIISR
gi | 453055587 | pdb | 3VWS | A      HNEEKITQQMDPEHRQLANAIKFLTYQNKVVVQRPVTPKG-TVMDIISR
HNEEKIQQMDPEHRQLANAIKFLTYQNKVVVQRPVTPKG-TVMDIISR
. * * : : : * * * * * : : * * * * * * * * * * * : * * * * * :

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gi 534286613 pdb 4K6M A	DQRGSGQVVTYALNTFTNIAVQLVRLMEAEVIGPQHLEQLPRKNKIAVR
gi 126030613 pdb 2HFZ A	DQRGSGQVVTYALNTFTNLAVQLVRMMEGEGVIGPDDVEKLTGKGGPKVR
gi 985757036 ref YP_009227205.	DQRGSGQVVTYALNTFTNLVQLIRNMEAEVLEMQDLWLLRKPKE--KVT
gi 985483961 pdb 5CCV A	DQRGSGQVGTYGLNTFTNMEAQLIRQMEGEGVLSKADLENP-HPLEKKIT
gi 453055587 pdb 3VWS A	DQRGSGQVGTYGLNTFTNMEAQLVRQMEGEGVLTAKADLENP-HLLEKKIT
	***** *.:*****: .*:.* **.* *: .: : :
gi 534286613 pdb 4K6M A	TWLFENGEERVTRMAISGDDCVVKPLDDRFATALHFLNAMSKVRKDIQEW
gi 126030613 pdb 2HFZ A	TWLFENGEERLSRMAVSGDDCVVKPLDDRFATSLHFLNAMSKVRKDIQEW
gi 985757036 ref YP_009227205.	RWLQSNQWDRLLKRMVSGDDCVVKPIDDRFAHALRFLNDMGKVRKDTQEW
gi 985483961 pdb 5CCV A	QWLETKGVERLKRMAISGDDCVVKPIDDRFANALLALNDMGKVRKDIQEW
gi 453055587 pdb 3VWS A	QWLETKGVERLKRMAISGDDCVVKPIDDRFANALLALNDMGKVRKDIQEW
	** :* :*.:***:*****:***** :* ** *.***** :*
gi 534286613 pdb 4K6M A	KPSHGWHDWQVFPFCSNHFQEIVMKDGRSIVVPCRGQDELIGRARISPGA
gi 126030613 pdb 2HFZ A	KPSTGWDYDQVFPFCSNHFTELIMKDGRITLVTPCRGQDELIVGRARISPGA
gi 985757036 ref YP_009227205.	KPSTGWSNWEEVFPFCSHHFNKLYLKDGRSIVVPCRHQDELIGRARVSPGA
gi 985483961 pdb 5CCV A	QPSKGWHDWQVFPFCSHHFHELIMKDGRKLVVPCRPQDELIGRARISQGA
gi 453055587 pdb 3VWS A	QPSKGWHDWQVFPFCSHHFHELIMKDGRKLVVPCRPQDELIGRARISQGA
	:** ** :*.:*****:*** : : :*****.:** ** ** ** **
gi 534286613 pdb 4K6M A	GWNVKTACLAKAYAQMWLLLYFHRRDLRLMANAICSAVPVDWVPTGRTS
gi 126030613 pdb 2HFZ A	GWNVRDTACLAKSYAQMWLLLYFHRRDLRLMANAICSAVPVNWVPTGRTT
gi 985757036 ref YP_009227205.	GWSIRETACLAKSYAQMWQLLYFHRRDLRLMANAICSAVPVDWVPTGRTT
gi 985483961 pdb 5CCV A	GWSLRETACLKAYAQMWALMYFHRRDLRLASNAICSAVPVHWVPTSR--
gi 453055587 pdb 3VWS A	GWSLRETACLKAYAQMWSLMYFHRRDLRLASNAICSAVPVHWVPTSR--
	.:.:***.:***** *.:***** :*****.****.*
gi 534286613 pdb 4K6M A	WSIHSGGEWMTTEDMLQVWNRVWIEENEWMMDKTPITSWTDVVPYVGKRED
gi 126030613 pdb 2HFZ A	WSIHAGGEWMTTEDMLEVWNRVWIEENEWMEDKTPVEKWSVDPYSGKRED
gi 985757036 ref YP_009227205.	WSIHGGEWMTTEDMLMVWNRVWIEENDHMDKTPVTKWTDIPYLGKRED
gi 985483961 pdb 5CCV A	----TTHQWMTTEDMLTVWNRVWIEDNPWMDKTPVTTWEDVVPYLGKRED
gi 453055587 pdb 3VWS A	WSIHAHQWMTTEDMLTVWNRVWIEENPWMDKTPVTTWENVPYLGKRED
	:***** *****:* * ****: .* :** *****
gi 534286613 pdb 4K6M A	IWCGSLIGTRSRATWAENIYAAINQVRAVIGKE-NYVDYMTSLRRYEDVL
gi 126030613 pdb 2HFZ A	IWCGSLIGTRARATWAENIQVAINQVRSIIGDE-KYVDYMSLKRVEDTT
gi 985757036 ref YP_009227205.	LWCGSLIGHRRPTTWAENIKDVTVMVRRIGDEEKYMDYLSQVRYLGGEE
gi 985483961 pdb 5CCV A	QWCGSLIGLTSRATWAQNIPTAIQVRSIIGNE-EFLDYMPMSMKRFRKEE
gi 453055587 pdb 3VWS A	QWCGSLIGLTSRATWAQNIPTAIQVRSIIGNE-EFLDYMPMSMKRFRKEE
	***** .*:***** : : : ** :**.* : : : : : *
gi 534286613 pdb 4K6M A	IQEDRVIGSSSHHHHHH-
gi 126030613 pdb 2HFZ A	LVEDTVL-----
gi 985757036 ref YP_009227205.	GSTPGVL-----
gi 985483961 pdb 5CCV A	ESEGAIWAAALEHHHHHH
gi 453055587 pdb 3VWS A	ESEGAIW-----

Figure S2: Ramachandran plot for ZIKV NS5 protein




97.2% (876/901) of all residues were in favored (98%) regions.
99.2% (894/901) of all residues were in allowed (>99.8%) regions.


There were 7 outliers (phi, psi):


148 GLY (138.4, 81.3)
175 ARG (89.6, 13.4)
227 SER (161.0, 175.0)
277 ILE (-153.6, -17.7)
505 GLY (59.8, 81.0)
560 GLU (2.5, 127.7)
640 ARG (-68.3, -81.5)


Figure S3: Psipred predicted secondary structure


Conf: }
 Pred: 
 Pred: CCCCCCHHHHHHHHHHHCCCHHHHHHHHHHCCCCCECHHHH
 AA: GGGTGETLGEKWKARLNQMSALEFYYSYKKSIGITEVCREEA
 10 20 30 40

Conf: }
 Pred: 
 Pred: HHHHHCCCCCCCCCCCCCHHHHHHHHHHHHCCCCCEEEEC
 AA: RRALKDGVATGGHAVSRGSAKIRWLEERGYLEQPYGKVVVDL
 50 60 70 80


Conf: }
 Pred: 
 Pred: CCCCCHHHHHHHHHHCCCCCEEEEEECCCCCCCCCCCCCCCC
 AA: GCGRGGWSYAAATIRKVQEVRYGTYKGGPGHEEPMPLVQSYG
 90 100 110 120

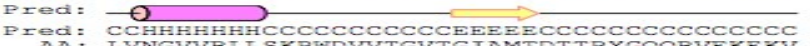
Conf: }
 Pred: 
 Pred: CEEEEEECCCCCCCCCCCCCEEEEEECCCCCCCCCHHHHHH
 AA: WNIVRLKSGVDVFMMAAEPQDTLLCDIGESSSSPEVEETR
 130 140 150 160

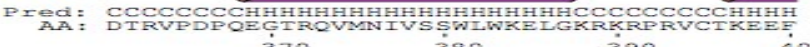
Conf: }
 Pred: 
 Pred: HHHHHHHHHHHHHHCCCCCEEEEEECCCCCHHHHHHHHHHH
 AA: TLRVLSMVGDWLEKRPGAFCIKVLCPYTSTMMETMERLQR
 170 180 190 200

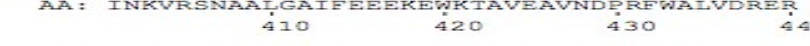
Conf: }
 Pred: 
 Pred: HHCCCEEEEEECCCCCCCCCEEEEEECCCCCCCCCHHHHHHHH
 AA: RHGGGLVVRVPLCRNSTHEMYWVWSGAKSNIKSVSTTSQLL
 210 220 230 240


Conf: }
 Pred: 
 Pred: HHHCCCCCCCCCEEECCCCCCCCCCCCCCCCCCCCCHHHHHH
 AA: LGRMDGPRRPVKYEEDVNLGSGTRAVASCAEAPNMKIIGR
 250 260 270 280


Conf: }
 Pred: 
 Pred: HHHHHHHHCCCCCCCCCCCCCEEEEEECCCCCCCC
 AA: RIERIRNEHAEATWFLDENHRYRTWAYHGSYEAPTQGSASS
 290 300 310 320

Conf: }
 Pred: 
 Pred: CCHHHHHHHHCCCCCCCCCEEEEEECCCCCCCCCCCCCCCC
 AA: LVNGVVRLLSKPVDVVTGVTGIAMTDITPYGQQRVFKKV
 330 340 350 360

Conf: }
 Pred: 
 Pred: CCCCCCHHHHHHHHHHHHHHHHHHHHCCCCCCCCCHHHH
 AA: DTRVDPDPOEGTRQVMNIVSSWLWKELGKRKRPRVCTKEEF
 370 380 390 400

Conf: }
 Pred: 
 Pred: HHCCCCCCCCCHHHHHHHHHHHHHHHHHHHHCCCCCHHHHHH
 AA: INKVRSNAAALGAIFEEKEWKTAVEAVNDERFWALVDRER
 410 420 430 440

Conf: }
 Pred: 
 Pred: HHHCCCCCEEEEEECCCCCCCCCCCCCCCCCEEEEEECC
 AA: EHHLRGECHSCVYNMMGKREKKQGEFGKAKGSRAIWMWL
 450 460 470 480

Conf: }
 Pred: 
 Pred: HHHHHHHHHHCCCCCCCCCCCCCCCCCCCCCCCCCHHHHHH
 AA: GARFLEFEALGFLNEDHWMGRENSSGGGVEGLGLQRLGYIL
 490 500 510 520

Conf: }
 Pred: 
 Pred: HHHHHCCCCCEEEEEECCCCCCCCCCCCCHHHHHHHHHHHH
 AA: EEMNRAPGGKMYADDTAGWDTRIKFDLENEALITNOMEET
 530 540 550 560

Conf: }
 Pred: 
 Pred: CCCCCCCCCCHHHHHHHHHHHHHHHHHHHHCCCCCHHHHCC
 AA: GHRTLALAVIKYTYQNKVVQVLRPAEGGKTVMDIISRQDQ
 570 580 590 600

Figure S4: NS5 PDB Coordinates

EXPDTA THEORETICAL MODEL, MODELLER 9.16 2016/03/10 11:01:45

HELIX	42	42	LEU	8	GLN	18	1			11	
HELIX	43	43	ALA	21	LYS	28	1			8	
HELIX	44	44	GLU	38	ASP	46	1			9	
HELIX	45	45	GLY	58	GLU	66	1			9	
HELIX	46	46	GLY	86	THR	93	1			8	
HELIX	47	47	TRP	121	ILE	123	1			3	
HELIX	48	48	PRO	154	GLU	173	1			20	
HELIX	49	49	SER	189	HIS	202	1			14	
HELIX	50	50	ILE	229	ARG	243	1			15	
HELIX	51	51	MET	275	GLU	288	1			14	
HELIX	52	52	GLY	324	LEU	329	1			6	
HELIX	53	53	LYS	331	ASP	334	1			4	
HELIX	54	54	THR	337	GLY	341	1			5	
HELIX	55	55	PRO	349	VAL	360	1			12	
HELIX	56	56	GLU	369	LEU	386	1			18	
HELIX	57	57	LYS	397	VAL	404	1			8	
HELIX	58	58	ALA	423	ASN	428	1			6	
HELIX	59	59	PRO	430	ARG	445	1			16	
HELIX	60	60	LEU	480	GLU	495	1			16	
HELIX	61	61	ARG	501	SER	504	1			4	
HELIX	62	62	LEU	513	ARG	525	1			13	
HELIX	63	63	TRP	539	ARG	542	1			4	
HELIX	64	64	LYS	545	GLN	557	1			13	
HELIX	65	65	HIS	562	TYR	574	1			13	
HELIX	66	66	GLU	586	GLY	588	1			3	
HELIX	67	67	THR	608	GLU	628	1			21	
HELIX	68	68	MET	633	TRP	637	1			5	
HELIX	69	69	LYS	644	ARG	659	1			16	
HELIX	70	70	ASP	674	ALA	677	1			4	
HELIX	71	71	ARG	681	ASP	685	1			5	
HELIX	72	72	TRP	705	GLU	707	1			3	
HELIX	73	73	GLN	733	ALA	740	1			8	
HELIX	74	74	ILE	750	LEU	767	1			18	
HELIX	75	75	ARG	772	ALA	784	1			13	
HELIX	76	76	MET	811	GLU	821	1			11	
HELIX	77	77	TRP	835	ASP	837	1			3	
HELIX	78	78	LYS	843	TRP	848	1			6	
HELIX	79	79	ARG	856	GLU	863	1			8	
HELIX	80	80	ILE	865	ILE	876	1			12	
HELIX	81	81	LEU	886	THR	888	1			3	
HELIX	82	82	VAL	890	GLY	901	1			12	
SHEET	19	19	1	THR	33	VAL	35	0			
SHEET	20	20	1	GLY	75	LEU	80	0			
SHEET	21	21	1	VAL	97	THR	104	0			
SHEET	22	22	1	VAL	124	SER	128	0			
SHEET	23	23	1	THR	142	CYS	145	0			
SHEET	24	24	1	ALA	178	VAL	183	0			
SHEET	25	25	1	GLY	205	VAL	207	0			
SHEET	26	26	1	MET	219	VAL	222	0			
SHEET	27	27	1	LYS	252	GLU	254	0			
SHEET	28	28	1	ALA	305	GLU	311	0			
SHEET	29	29	1	TYR	453	GLY	457	0			
SHEET	30	30	1	ALA	474	TYR	477	0			
SHEET	31	31	1	LYS	577	PRO	584	0			
SHEET	32	32	1	THR	590	ARG	597	0			
SHEET	33	33	1	MET	660	SER	663	0			
SHEET	34	34	1	ASP	666	VAL	669	0			
SHEET	35	35	1	HIS	714	TYR	719	0			
SHEET	36	36	1	SER	725	CYS	730	0			
ATOM	1	N	GLY	1	-83.992	86.689	12.072	1.00	9.55	N	
ATOM	2	CA	GLY	1	-82.513	86.704	12.147	1.00	9.55	C	
ATOM	3	C	GLY	1	-81.947	85.609	11.310	1.00	9.55	C	
ATOM	4	O	GLY	1	-82.541	85.203	10.312	1.00	9.55	O	

ATOM	5	N	GLY	2	-80.769	85.095	11.711	1.00	69.94	N
ATOM	6	CA	GLY	2	-80.144	84.038	10.974	1.00	69.94	C
ATOM	7	C	GLY	2	-79.156	84.655	10.040	1.00	69.94	C
ATOM	8	O	GLY	2	-79.069	85.876	9.923	1.00	69.94	O
ATOM	9	N	GLY	3	-78.375	83.802	9.350	1.00130.21		N
ATOM	10	CA	GLY	3	-77.394	84.285	8.426	1.00130.21		C
ATOM	11	C	GLY	3	-77.362	83.327	7.282	1.00130.21		C
ATOM	12	O	GLY	3	-77.800	82.184	7.405	1.00130.21		O
ATOM	13	N	THR	4	-76.822	83.774	6.132	1.00253.37		N
ATOM	14	CA	THR	4	-76.789	82.925	4.979	1.00253.37		C
ATOM	15	CB	THR	4	-77.302	83.589	3.734	1.00253.37		C
ATOM	16	OG1	THR	4	-77.413	82.643	2.682	1.00253.37		O
ATOM	17	CG2	THR	4	-76.331	84.715	3.340	1.00253.37		C
ATOM	18	C	THR	4	-75.369	82.549	4.724	1.00253.37		C
ATOM	19	O	THR	4	-74.452	83.340	4.938	1.00253.37		O
ATOM	20	N	GLY	5	-75.160	81.297	4.271	1.00	64.46	N
ATOM	21	CA	GLY	5	-73.844	80.825	4.001	1.00	64.46	C
ATOM	22	C	GLY	5	-73.270	81.609	2.873	1.00	64.46	C
ATOM	23	O	GLY	5	-73.770	81.565	1.750	1.00	64.46	O
ATOM	24	N	GLU	6	-72.188	82.359	3.153	1.00103.79		N
ATOM	25	CA	GLU	6	-71.558	83.112	2.115	1.00103.79		C
ATOM	26	CB	GLU	6	-70.532	84.134	2.608	1.00103.79		C
ATOM	27	CG	GLU	6	-70.003	84.975	1.448	1.00103.79		C
ATOM	28	CD	GLU	6	-71.197	85.721	0.870	1.00103.79		C
ATOM	29	OE1	GLU	6	-71.922	85.124	0.029	1.00103.79		O
ATOM	30	OE2	GLU	6	-71.406	86.897	1.271	1.00103.79		O
ATOM	31	C	GLU	6	-70.839	82.191	1.186	1.00103.79		C
ATOM	32	O	GLU	6	-70.882	82.367	-0.031	1.00103.79		O
ATOM	33	N	THR	7	-70.167	81.166	1.743	1.00107.97		N
ATOM	34	CA	THR	7	-69.372	80.300	0.926	1.00107.97		C
ATOM	35	CB	THR	7	-68.520	79.344	1.712	1.00107.97		C
ATOM	36	OG1	THR	7	-67.622	78.660	0.853	1.00107.97		O
ATOM	37	CG2	THR	7	-69.428	78.329	2.414	1.00107.97		C
ATOM	38	C	THR	7	-70.279	79.500	0.056	1.00107.97		C
ATOM	39	O	THR	7	-71.474	79.374	0.313	1.00107.97		O
ATOM	40	N	LEU	8	-69.701	78.976	-1.040	1.00101.76		N
ATOM	41	CA	LEU	8	-70.397	78.197	-2.018	1.00101.76		C
ATOM	42	CB	LEU	8	-69.485	77.874	-3.216	1.00101.76		C
ATOM	43	CG	LEU	8	-70.214	77.376	-4.478	1.00101.76		C
ATOM	44	CD1	LEU	8	-71.007	76.087	-4.226	1.00101.76		C
ATOM	45	CD2	LEU	8	-71.051	78.498	-5.109	1.00101.76		C
ATOM	46	C	LEU	8	-70.798	76.908	-1.361	1.00101.76		C
ATOM	47	O	LEU	8	-71.865	76.360	-1.634	1.00101.76		O
ATOM	48	N	GLY	9	-69.924	76.385	-0.478	1.00	30.11	N
ATOM	49	CA	GLY	9	-70.152	75.135	0.191	1.00	30.11	C
ATOM	50	C	GLY	9	-71.352	75.231	1.083	1.00	30.11	C
ATOM	51	O	GLY	9	-72.140	74.292	1.178	1.00	30.11	O
ATOM	52	N	GLU	10	-71.514	76.373	1.775	1.00	60.87	N
ATOM	53	CA	GLU	10	-72.602	76.556	2.696	1.00	60.87	C
ATOM	54	CB	GLU	10	-72.531	77.911	3.431	1.00	60.87	C
ATOM	55	CG	GLU	10	-71.448	77.947	4.518	1.00	60.87	C
ATOM	56	CD	GLU	10	-71.249	79.386	4.979	1.00	60.87	C
ATOM	57	OE1	GLU	10	-70.938	80.250	4.115	1.00	60.87	O
ATOM	58	OE2	GLU	10	-71.400	79.639	6.204	1.00	60.87	O
ATOM	59	C	GLU	10	-73.896	76.479	1.946	1.00	60.87	C
ATOM	60	O	GLU	10	-74.889	75.966	2.457	1.00	60.87	O
ATOM	61	N	LYS	11	-73.915	77.003	0.708	1.00	51.21	N
ATOM	62	CA	LYS	11	-75.091	76.999	-0.115	1.00	51.21	C
ATOM	63	CB	LYS	11	-74.855	77.780	-1.423	1.00	51.21	C
ATOM	64	CG	LYS	11	-74.566	79.267	-1.176	1.00	51.21	C
ATOM	65	CD	LYS	11	-73.970	80.015	-2.373	1.00	51.21	C
ATOM	66	CE	LYS	11	-73.766	81.511	-2.108	1.00	51.21	C
ATOM	67	NZ	LYS	11	-73.106	82.157	-3.265	1.00	51.21	N
ATOM	68	C	LYS	11	-75.453	75.577	-0.437	1.00	51.21	C
ATOM	69	O	LYS	11	-76.628	75.213	-0.479	1.00	51.21	O
ATOM	70	N	TRP	12	-74.435	74.732	-0.684	1.00	84.98	N

ATOM	71	CA	TRP	12	-74.629	73.347	-1.019	1.00	84.98	C
ATOM	72	CB	TRP	12	-73.305	72.638	-1.339	1.00	84.98	C
ATOM	73	CG	TRP	12	-73.429	71.139	-1.468	1.00	84.98	C
ATOM	74	CD2	TRP	12	-72.904	70.211	-0.505	1.00	84.98	C
ATOM	75	CD1	TRP	12	-73.999	70.392	-2.456	1.00	84.98	C
ATOM	76	NE1	TRP	12	-73.869	69.055	-2.164	1.00	84.98	N
ATOM	77	CE2	TRP	12	-73.194	68.928	-0.968	1.00	84.98	C
ATOM	78	CE3	TRP	12	-72.230	70.411	0.669	1.00	84.98	C
ATOM	79	CZ2	TRP	12	-72.816	67.821	-0.262	1.00	84.98	C
ATOM	80	CZ3	TRP	12	-71.853	69.293	1.378	1.00	84.98	C
ATOM	81	CH2	TRP	12	-72.139	68.023	0.921	1.00	84.98	C
ATOM	82	C	TRP	12	-75.250	72.612	0.126	1.00	84.98	C
ATOM	83	O	TRP	12	-76.164	71.812	-0.068	1.00	84.98	O
ATOM	84	N	LYS	13	-74.754	72.855	1.353	1.00	130.72	N
ATOM	85	CA	LYS	13	-75.243	72.159	2.509	1.00	130.72	C
ATOM	86	CB	LYS	13	-74.501	72.498	3.810	1.00	130.72	C
ATOM	87	CG	LYS	13	-73.330	71.559	4.086	1.00	130.72	C
ATOM	88	CD	LYS	13	-73.790	70.109	4.258	1.00	130.72	C
ATOM	89	CE	LYS	13	-72.667	69.138	4.616	1.00	130.72	C
ATOM	90	NZ	LYS	13	-73.209	67.769	4.759	1.00	130.72	N
ATOM	91	C	LYS	13	-76.688	72.450	2.745	1.00	130.72	C
ATOM	92	O	LYS	13	-77.443	71.551	3.112	1.00	130.72	O
ATOM	93	N	ALA	14	-77.114	73.710	2.549	1.00	28.53	N
ATOM	94	CA	ALA	14	-78.478	74.058	2.819	1.00	28.53	C
ATOM	95	CB	ALA	14	-78.782	75.542	2.556	1.00	28.53	C
ATOM	96	C	ALA	14	-79.366	73.256	1.925	1.00	28.53	C
ATOM	97	O	ALA	14	-80.393	72.738	2.361	1.00	28.53	O
ATOM	98	N	ARG	15	-78.989	73.131	0.640	1.00	122.04	N
ATOM	99	CA	ARG	15	-79.798	72.396	-0.288	1.00	122.04	C
ATOM	100	CB	ARG	15	-79.314	72.488	-1.745	1.00	122.04	C
ATOM	101	CG	ARG	15	-79.554	73.858	-2.382	1.00	122.04	C
ATOM	102	CD	ARG	15	-79.313	73.880	-3.894	1.00	122.04	C
ATOM	103	NE	ARG	15	-80.527	73.320	-4.557	1.00	122.04	N
ATOM	104	CZ	ARG	15	-81.566	74.143	-4.885	1.00	122.04	C
ATOM	105	NH1	ARG	15	-81.497	75.475	-4.593	1.00	122.04	N
ATOM	106	NH2	ARG	15	-82.668	73.639	-5.513	1.00	122.04	N
ATOM	107	C	ARG	15	-79.814	70.945	0.094	1.00	122.04	C
ATOM	108	O	ARG	15	-80.836	70.275	-0.038	1.00	122.04	O
ATOM	109	N	LEU	16	-78.672	70.423	0.574	1.00	134.64	N
ATOM	110	CA	LEU	16	-78.528	69.028	0.892	1.00	134.64	C
ATOM	111	CB	LEU	16	-77.106	68.714	1.396	1.00	134.64	C
ATOM	112	CG	LEU	16	-76.693	67.227	1.372	1.00	134.64	C
ATOM	113	CD1	LEU	16	-77.716	66.314	2.051	1.00	134.64	C
ATOM	114	CD2	LEU	16	-76.313	66.779	-0.045	1.00	134.64	C
ATOM	115	C	LEU	16	-79.470	68.683	2.012	1.00	134.64	C
ATOM	116	O	LEU	16	-80.144	67.655	1.982	1.00	134.64	O
ATOM	117	N	ASN	17	-79.542	69.562	3.028	1.00	52.32	N
ATOM	118	CA	ASN	17	-80.320	69.349	4.219	1.00	52.32	C
ATOM	119	CB	ASN	17	-80.112	70.461	5.264	1.00	52.32	C
ATOM	120	CG	ASN	17	-78.671	70.397	5.757	1.00	52.32	C
ATOM	121	OD1	ASN	17	-78.065	69.328	5.806	1.00	52.32	O
ATOM	122	ND2	ASN	17	-78.104	71.575	6.133	1.00	52.32	N
ATOM	123	C	ASN	17	-81.776	69.317	3.889	1.00	52.32	C
ATOM	124	O	ASN	17	-82.552	68.609	4.528	1.00	52.32	O
ATOM	125	N	GLN	18	-82.174	70.116	2.890	1.00	90.29	N
ATOM	126	CA	GLN	18	-83.535	70.286	2.479	1.00	90.29	C
ATOM	127	CB	GLN	18	-83.642	71.378	1.406	1.00	90.29	C
ATOM	128	CG	GLN	18	-85.065	71.818	1.084	1.00	90.29	C
ATOM	129	CD	GLN	18	-84.946	72.892	0.012	1.00	90.29	C
ATOM	130	OE1	GLN	18	-84.426	72.643	-1.073	1.00	90.29	O
ATOM	131	NE2	GLN	18	-85.423	74.125	0.330	1.00	90.29	N
ATOM	132	C	GLN	18	-84.081	69.007	1.915	1.00	90.29	C
ATOM	133	O	GLN	18	-85.251	68.690	2.110	1.00	90.29	O
ATOM	134	N	MET	19	-83.232	68.230	1.219	1.00	77.92	N
ATOM	135	CA	MET	19	-83.637	67.056	0.494	1.00	77.92	C
ATOM	136	CB	MET	19	-82.454	66.263	-0.086	1.00	77.92	C

ATOM	137	CG	MET	19	-81.766	66.918	-1.284	1.00	77.92	C
ATOM	138	SD	MET	19	-80.304	66.007	-1.864	1.00	77.92	S
ATOM	139	CE	MET	19	-80.406	66.627	-3.567	1.00	77.92	C
ATOM	140	C	MET	19	-84.394	66.086	1.338	1.00	77.92	C
ATOM	141	O	MET	19	-84.107	65.879	2.515	1.00	77.92	O
ATOM	142	N	SER	20	-85.410	65.461	0.708	1.00	39.63	N
ATOM	143	CA	SER	20	-86.177	64.431	1.333	1.00	39.63	C
ATOM	144	CB	SER	20	-87.536	64.173	0.656	1.00	39.63	C
ATOM	145	OG	SER	20	-87.343	63.748	-0.684	1.00	39.63	O
ATOM	146	C	SER	20	-85.352	63.194	1.212	1.00	39.63	C
ATOM	147	O	SER	20	-84.344	63.171	0.508	1.00	39.63	O
ATOM	148	N	ALA	21	-85.765	62.122	1.905	1.00	29.46	N
ATOM	149	CA	ALA	21	-84.985	60.925	1.901	1.00	29.46	C
ATOM	150	CB	ALA	21	-85.598	59.810	2.766	1.00	29.46	C
ATOM	151	C	ALA	21	-84.883	60.403	0.504	1.00	29.46	C
ATOM	152	O	ALA	21	-83.817	59.956	0.086	1.00	29.46	O
ATOM	153	N	LEU	22	-85.987	60.444	-0.268	1.00	69.04	N
ATOM	154	CA	LEU	22	-85.947	59.868	-1.581	1.00	69.04	C
ATOM	155	CB	LEU	22	-87.327	59.859	-2.280	1.00	69.04	C
ATOM	156	CG	LEU	22	-87.426	59.078	-3.619	1.00	69.04	C
ATOM	157	CD1	LEU	22	-88.883	59.033	-4.104	1.00	69.04	C
ATOM	158	CD2	LEU	22	-86.505	59.618	-4.728	1.00	69.04	C
ATOM	159	C	LEU	22	-84.977	60.619	-2.440	1.00	69.04	C
ATOM	160	O	LEU	22	-84.167	60.004	-3.135	1.00	69.04	O
ATOM	161	N	GLU	23	-85.022	61.965	-2.433	1.00	121.69	N
ATOM	162	CA	GLU	23	-84.153	62.675	-3.326	1.00	121.69	C
ATOM	163	CB	GLU	23	-84.500	64.161	-3.561	1.00	121.69	C
ATOM	164	CG	GLU	23	-84.377	65.116	-2.377	1.00	121.69	C
ATOM	165	CD	GLU	23	-84.717	66.499	-2.923	1.00	121.69	C
ATOM	166	OE1	GLU	23	-85.099	66.577	-4.122	1.00	121.69	O
ATOM	167	OE2	GLU	23	-84.598	67.494	-2.158	1.00	121.69	O
ATOM	168	C	GLU	23	-82.724	62.536	-2.901	1.00	121.69	C
ATOM	169	O	GLU	23	-81.826	62.514	-3.741	1.00	121.69	O
ATOM	170	N	PHE	24	-82.469	62.429	-1.583	1.00	106.64	N
ATOM	171	CA	PHE	24	-81.125	62.327	-1.086	1.00	106.64	C
ATOM	172	CB	PHE	24	-81.050	62.241	0.450	1.00	106.64	C
ATOM	173	CG	PHE	24	-79.628	61.981	0.824	1.00	106.64	C
ATOM	174	CD1	PHE	24	-78.657	62.934	0.620	1.00	106.64	C
ATOM	175	CD2	PHE	24	-79.268	60.788	1.406	1.00	106.64	C
ATOM	176	CE1	PHE	24	-77.350	62.690	0.971	1.00	106.64	C
ATOM	177	CE2	PHE	24	-77.963	60.539	1.761	1.00	106.64	C
ATOM	178	CZ	PHE	24	-76.997	61.491	1.541	1.00	106.64	C
ATOM	179	C	PHE	24	-80.471	61.108	-1.655	1.00	106.64	C
ATOM	180	O	PHE	24	-79.311	61.149	-2.060	1.00	106.64	O
ATOM	181	N	TYR	25	-81.205	59.987	-1.702	1.00	197.52	N
ATOM	182	CA	TYR	25	-80.678	58.748	-2.188	1.00	197.52	C
ATOM	183	CB	TYR	25	-81.680	57.596	-2.052	1.00	197.52	C
ATOM	184	CG	TYR	25	-81.179	56.547	-2.971	1.00	197.52	C
ATOM	185	CD1	TYR	25	-80.099	55.763	-2.638	1.00	197.52	C
ATOM	186	CD2	TYR	25	-81.800	56.363	-4.184	1.00	197.52	C
ATOM	187	CE1	TYR	25	-79.650	54.800	-3.509	1.00	197.52	C
ATOM	188	CE2	TYR	25	-81.355	55.402	-5.057	1.00	197.52	C
ATOM	189	CZ	TYR	25	-80.277	54.619	-4.720	1.00	197.52	C
ATOM	190	OH	TYR	25	-79.818	53.632	-5.617	1.00	197.52	O
ATOM	191	C	TYR	25	-80.297	58.840	-3.632	1.00	197.52	C
ATOM	192	O	TYR	25	-79.285	58.275	-4.040	1.00	197.52	O
ATOM	193	N	SER	26	-81.120	59.501	-4.463	1.00	115.62	N
ATOM	194	CA	SER	26	-80.822	59.570	-5.866	1.00	115.62	C
ATOM	195	CB	SER	26	-81.958	60.219	-6.674	1.00	115.62	C
ATOM	196	OG	SER	26	-83.145	59.449	-6.556	1.00	115.62	O
ATOM	197	C	SER	26	-79.600	60.408	-6.076	1.00	115.62	C
ATOM	198	O	SER	26	-78.725	60.068	-6.872	1.00	115.62	O
ATOM	199	N	TYR	27	-79.528	61.532	-5.342	1.00	127.21	N
ATOM	200	CA	TYR	27	-78.514	62.539	-5.449	1.00	127.21	C
ATOM	201	CB	TYR	27	-78.883	63.753	-4.572	1.00	127.21	C
ATOM	202	CG	TYR	27	-77.811	64.785	-4.591	1.00	127.21	C

ATOM	203	CD1 TYR	27	-77.571	65.538	-5.716	1.00127.21	C
ATOM	204	CD2 TYR	27	-77.071	65.027	-3.454	1.00127.21	C
ATOM	205	CE1 TYR	27	-76.587	66.499	-5.716	1.00127.21	C
ATOM	206	CE2 TYR	27	-76.088	65.986	-3.447	1.00127.21	C
ATOM	207	CZ TYR	27	-75.844	66.724	-4.581	1.00127.21	C
ATOM	208	OH TYR	27	-74.836	67.711	-4.581	1.00127.21	O
ATOM	209	C TYR	27	-77.178	62.017	-5.031	1.00127.21	C
ATOM	210	O TYR	27	-76.157	62.336	-5.637	1.00127.21	O
ATOM	211	N LYS	28	-77.136	61.191	-3.977	1.00167.58	N
ATOM	212	CA LYS	28	-75.847	60.795	-3.490	1.00167.58	C
ATOM	213	CB LYS	28	-75.890	59.962	-2.193	1.00167.58	C
ATOM	214	CG LYS	28	-76.386	58.524	-2.320	1.00167.58	C
ATOM	215	CD LYS	28	-76.104	57.705	-1.058	1.00167.58	C
ATOM	216	CE LYS	28	-76.509	56.235	-1.168	1.00167.58	C
ATOM	217	NZ LYS	28	-76.094	55.506	0.051	1.00167.58	N
ATOM	218	C LYS	28	-75.058	60.055	-4.541	1.00167.58	C
ATOM	219	O LYS	28	-73.858	60.281	-4.675	1.00167.58	O
ATOM	220	N LYS	29	-75.704	59.128	-5.274	1.00182.06	N
ATOM	221	CA LYS	29	-75.154	58.309	-6.334	1.00182.06	C
ATOM	222	CB LYS	29	-75.964	57.032	-6.603	1.00182.06	C
ATOM	223	CG LYS	29	-75.766	55.950	-5.540	1.00182.06	C
ATOM	224	CD LYS	29	-76.783	54.813	-5.631	1.00182.06	C
ATOM	225	CE LYS	29	-76.442	53.603	-4.759	1.00182.06	C
ATOM	226	NZ LYS	29	-75.410	52.776	-5.424	1.00182.06	N
ATOM	227	C LYS	29	-75.032	59.036	-7.648	1.00182.06	C
ATOM	228	O LYS	29	-74.527	58.484	-8.620	1.00182.06	O
ATOM	229	N SER	30	-75.589	60.245	-7.787	1.00185.44	N
ATOM	230	CA SER	30	-75.631	60.797	-9.114	1.00185.44	C
ATOM	231	CB SER	30	-76.491	62.069	-9.220	1.00185.44	C
ATOM	232	OG SER	30	-77.856	61.759	-8.989	1.00185.44	O
ATOM	233	C SER	30	-74.291	61.138	-9.696	1.00185.44	C
ATOM	234	O SER	30	-73.504	61.892	-9.130	1.00185.44	O
ATOM	235	N GLY	31	-74.029	60.573	-10.893	1.00112.70	N
ATOM	236	CA GLY	31	-72.893	60.885	-11.716	1.00112.70	C
ATOM	237	C GLY	31	-71.590	60.532	-11.065	1.00112.70	C
ATOM	238	O GLY	31	-70.539	60.961	-11.543	1.00112.70	O
ATOM	239	N ILE	32	-71.574	59.698	-10.010	1.00191.50	N
ATOM	240	CA ILE	32	-70.276	59.497	-9.431	1.00191.50	C
ATOM	241	CB ILE	32	-70.177	59.473	-7.922	1.00191.50	C
ATOM	242	CG1 ILE	32	-70.680	58.162	-7.288	1.00191.50	C
ATOM	243	CG2 ILE	32	-70.894	60.727	-7.398	1.00191.50	C
ATOM	244	CD1 ILE	32	-72.138	57.814	-7.506	1.00191.50	C
ATOM	245	C ILE	32	-69.816	58.160	-9.896	1.00191.50	C
ATOM	246	O ILE	32	-70.530	57.475	-10.624	1.00191.50	O
ATOM	247	N THR	33	-68.566	57.788	-9.566	1.00148.21	N
ATOM	248	CA THR	33	-68.115	56.503	-10.004	1.00148.21	C
ATOM	249	CB THR	33	-66.712	56.497	-10.533	1.00148.21	C
ATOM	250	OG1 THR	33	-66.507	55.341	-11.329	1.00148.21	O
ATOM	251	CG2 THR	33	-65.730	56.480	-9.351	1.00148.21	C
ATOM	252	C THR	33	-68.175	55.579	-8.831	1.00148.21	C
ATOM	253	O THR	33	-67.865	55.971	-7.705	1.00148.21	O
ATOM	254	N GLU	34	-68.632	54.328	-9.054	1.00110.07	N
ATOM	255	CA GLU	34	-68.651	53.398	-7.964	1.00110.07	C
ATOM	256	CB GLU	34	-70.006	53.273	-7.236	1.00110.07	C
ATOM	257	CG GLU	34	-71.152	52.670	-8.045	1.00110.07	C
ATOM	258	CD GLU	34	-72.375	52.661	-7.134	1.00110.07	C
ATOM	259	OE1 GLU	34	-72.374	53.443	-6.147	1.00110.07	O
ATOM	260	OE2 GLU	34	-73.324	51.879	-7.408	1.00110.07	O
ATOM	261	C GLU	34	-68.231	52.046	-8.466	1.00110.07	C
ATOM	262	O GLU	34	-68.413	51.705	-9.634	1.00110.07	O
ATOM	263	N VAL	35	-67.617	51.242	-7.575	1.00133.52	N
ATOM	264	CA VAL	35	-67.137	49.933	-7.926	1.00133.52	C
ATOM	265	CB VAL	35	-65.987	49.479	-7.072	1.00133.52	C
ATOM	266	CG1 VAL	35	-64.794	50.419	-7.312	1.00133.52	C
ATOM	267	CG2 VAL	35	-66.454	49.434	-5.605	1.00133.52	C
ATOM	268	C VAL	35	-68.236	48.936	-7.724	1.00133.52	C

ATOM	269	O	VAL	35	-69.081	49.103	-6.846	1.00133.52	O
ATOM	270	N	CYS	36	-68.249	47.862	-8.549	1.00107.55	N
ATOM	271	CA	CYS	36	-69.254	46.841	-8.410	1.00107.55	C
ATOM	272	CB	CYS	36	-69.395	45.908	-9.623	1.00107.55	C
ATOM	273	SG	CYS	36	-70.279	46.700	-10.992	1.00107.55	S
ATOM	274	C	CYS	36	-68.912	45.974	-7.230	1.00107.55	C
ATOM	275	O	CYS	36	-67.960	45.196	-7.251	1.00107.55	O
ATOM	276	N	ARG	37	-69.698	46.144	-6.152	1.00317.69	N
ATOM	277	CA	ARG	37	-69.635	45.482	-4.876	1.00317.69	C
ATOM	278	CB	ARG	37	-70.276	46.319	-3.758	1.00317.69	C
ATOM	279	CG	ARG	37	-69.460	47.575	-3.435	1.00317.69	C
ATOM	280	CD	ARG	37	-68.516	47.404	-2.242	1.00317.69	C
ATOM	281	NE	ARG	37	-67.356	46.572	-2.660	1.00317.69	N
ATOM	282	CZ	ARG	37	-66.642	45.897	-1.712	1.00317.69	C
ATOM	283	NH1	ARG	37	-67.039	45.931	-0.406	1.00317.69	N
ATOM	284	NH2	ARG	37	-65.532	45.188	-2.067	1.00317.69	N
ATOM	285	C	ARG	37	-70.256	44.113	-4.886	1.00317.69	C
ATOM	286	O	ARG	37	-70.087	43.355	-3.934	1.00317.69	O
ATOM	287	N	GLU	38	-71.029	43.764	-5.929	1.00 97.63	N
ATOM	288	CA	GLU	38	-71.833	42.571	-5.883	1.00 97.63	C
ATOM	289	CB	GLU	38	-72.567	42.313	-7.211	1.00 97.63	C
ATOM	290	CG	GLU	38	-73.694	43.316	-7.480	1.00 97.63	C
ATOM	291	CD	GLU	38	-73.074	44.676	-7.768	1.00 97.63	C
ATOM	292	OE1	GLU	38	-71.976	44.708	-8.385	1.00 97.63	O
ATOM	293	OE2	GLU	38	-73.689	45.703	-7.373	1.00 97.63	O
ATOM	294	C	GLU	38	-71.051	41.332	-5.520	1.00 97.63	C
ATOM	295	O	GLU	38	-71.482	40.579	-4.648	1.00 97.63	O
ATOM	296	N	GLU	39	-69.886	41.073	-6.145	1.00 90.91	N
ATOM	297	CA	GLU	39	-69.149	39.871	-5.840	1.00 90.91	C
ATOM	298	CB	GLU	39	-67.905	39.675	-6.727	1.00 90.91	C
ATOM	299	CG	GLU	39	-68.222	39.300	-8.174	1.00 90.91	C
ATOM	300	CD	GLU	39	-68.725	40.546	-8.882	1.00 90.91	C
ATOM	301	OE1	GLU	39	-68.547	41.660	-8.320	1.00 90.91	O
ATOM	302	OE2	GLU	39	-69.292	40.401	-9.996	1.00 90.91	O
ATOM	303	C	GLU	39	-68.655	39.912	-4.427	1.00 90.91	C
ATOM	304	O	GLU	39	-68.659	38.901	-3.725	1.00 90.91	O
ATOM	305	N	ALA	40	-68.194	41.091	-3.982	1.00 55.77	N
ATOM	306	CA	ALA	40	-67.633	41.241	-2.674	1.00 55.77	C
ATOM	307	CB	ALA	40	-67.100	42.661	-2.422	1.00 55.77	C
ATOM	308	C	ALA	40	-68.651	40.966	-1.612	1.00 55.77	C
ATOM	309	O	ALA	40	-68.354	40.286	-0.631	1.00 55.77	O
ATOM	310	N	ARG	41	-69.880	41.483	-1.780	1.00 74.86	N
ATOM	311	CA	ARG	41	-70.890	41.349	-0.766	1.00 74.86	C
ATOM	312	CB	ARG	41	-72.191	42.101	-1.105	1.00 74.86	C
ATOM	313	CG	ARG	41	-72.043	43.626	-1.132	1.00 74.86	C
ATOM	314	CD	ARG	41	-73.349	44.356	-1.455	1.00 74.86	C
ATOM	315	NE	ARG	41	-73.069	45.820	-1.448	1.00 74.86	N
ATOM	316	CZ	ARG	41	-73.774	46.648	-2.275	1.00 74.86	C
ATOM	317	NH1	ARG	41	-74.738	46.130	-3.092	1.00 74.86	N
ATOM	318	NH2	ARG	41	-73.513	47.987	-2.293	1.00 74.86	N
ATOM	319	C	ARG	41	-71.244	39.908	-0.583	1.00 74.86	C
ATOM	320	O	ARG	41	-71.431	39.451	0.543	1.00 74.86	O
ATOM	321	N	ARG	42	-71.363	39.152	-1.690	1.00128.81	N
ATOM	322	CA	ARG	42	-71.728	37.770	-1.579	1.00128.81	C
ATOM	323	CB	ARG	42	-71.975	37.076	-2.929	1.00128.81	C
ATOM	324	CG	ARG	42	-70.738	37.007	-3.820	1.00128.81	C
ATOM	325	CD	ARG	42	-71.002	36.403	-5.200	1.00128.81	C
ATOM	326	NE	ARG	42	-71.479	35.003	-5.015	1.00128.81	N
ATOM	327	CZ	ARG	42	-70.586	34.002	-4.769	1.00128.81	C
ATOM	328	NH1	ARG	42	-69.275	34.300	-4.535	1.00128.81	N
ATOM	329	NH2	ARG	42	-71.000	32.701	-4.759	1.00128.81	N
ATOM	330	C	ARG	42	-70.618	37.039	-0.893	1.00128.81	C
ATOM	331	O	ARG	42	-70.855	36.122	-0.109	1.00128.81	O
ATOM	332	N	ALA	43	-69.363	37.424	-1.177	1.00197.03	N
ATOM	333	CA	ALA	43	-68.240	36.746	-0.597	1.00197.03	C
ATOM	334	CB	ALA	43	-66.893	37.326	-1.053	1.00197.03	C

ATOM	335	C	ALA	43	-68.301	36.887	0.891	1.00197.03	C
ATOM	336	O	ALA	43	-68.041	35.931	1.619	1.00197.03	O
ATOM	337	N	LEU	44	-68.661	38.090	1.377	1.00 70.27	N
ATOM	338	CA	LEU	44	-68.699	38.346	2.788	1.00 70.27	C
ATOM	339	CB	LEU	44	-69.079	39.802	3.114	1.00 70.27	C
ATOM	340	CG	LEU	44	-68.159	40.835	2.426	1.00 70.27	C
ATOM	341	CD1	LEU	44	-68.375	42.249	2.990	1.00 70.27	C
ATOM	342	CD2	LEU	44	-66.688	40.392	2.437	1.00 70.27	C
ATOM	343	C	LEU	44	-69.730	37.438	3.386	1.00 70.27	C
ATOM	344	O	LEU	44	-69.532	36.888	4.468	1.00 70.27	O
ATOM	345	N	LYS	45	-70.870	37.265	2.690	1.00 77.62	N
ATOM	346	CA	LYS	45	-71.930	36.418	3.163	1.00 77.62	C
ATOM	347	CB	LYS	45	-73.159	36.463	2.240	1.00 77.62	C
ATOM	348	CG	LYS	45	-73.853	37.825	2.242	1.00 77.62	C
ATOM	349	CD	LYS	45	-74.812	38.033	1.071	1.00 77.62	C
ATOM	350	CE	LYS	45	-75.527	39.385	1.117	1.00 77.62	C
ATOM	351	NZ	LYS	45	-76.190	39.654	-0.178	1.00 77.62	N
ATOM	352	C	LYS	45	-71.457	34.996	3.195	1.00 77.62	C
ATOM	353	O	LYS	45	-71.713	34.261	4.148	1.00 77.62	O
ATOM	354	N	ASP	46	-70.740	34.594	2.133	1.00137.57	N
ATOM	355	CA	ASP	46	-70.241	33.271	1.893	1.00137.57	C
ATOM	356	CB	ASP	46	-69.643	33.174	0.477	1.00137.57	C
ATOM	357	CG	ASP	46	-69.788	31.755	-0.045	1.00137.57	C
ATOM	358	OD1	ASP	46	-69.422	30.798	0.687	1.00137.57	O
ATOM	359	OD2	ASP	46	-70.270	31.612	-1.202	1.00137.57	O
ATOM	360	C	ASP	46	-69.179	32.975	2.913	1.00137.57	C
ATOM	361	O	ASP	46	-68.902	31.818	3.223	1.00137.57	O
ATOM	362	N	GLY	47	-68.526	34.025	3.446	1.00210.82	N
ATOM	363	CA	GLY	47	-67.517	33.822	4.446	1.00210.82	C
ATOM	364	C	GLY	47	-66.198	33.605	3.776	1.00210.82	C
ATOM	365	O	GLY	47	-65.284	33.040	4.374	1.00210.82	O
ATOM	366	N	VAL	48	-66.052	34.043	2.508	1.00262.14	N
ATOM	367	CA	VAL	48	-64.786	33.824	1.871	1.00262.14	C
ATOM	368	CB	VAL	48	-64.857	33.642	0.384	1.00262.14	C
ATOM	369	CG1	VAL	48	-63.419	33.594	-0.162	1.00262.14	C
ATOM	370	CG2	VAL	48	-65.661	32.364	0.088	1.00262.14	C
ATOM	371	C	VAL	48	-63.862	34.975	2.151	1.00262.14	C
ATOM	372	O	VAL	48	-64.024	36.074	1.624	1.00262.14	O
ATOM	373	N	ALA	49	-62.912	34.731	3.075	1.00124.49	N
ATOM	374	CA	ALA	49	-61.827	35.562	3.532	1.00124.49	C
ATOM	375	CB	ALA	49	-61.242	35.072	4.867	1.00124.49	C
ATOM	376	C	ALA	49	-60.693	35.615	2.550	1.00124.49	C
ATOM	377	O	ALA	49	-59.850	36.510	2.614	1.00124.49	O
ATOM	378	N	THR	50	-60.530	34.547	1.751	1.00338.58	N
ATOM	379	CA	THR	50	-59.555	34.549	0.700	1.00338.58	C
ATOM	380	CB	THR	50	-59.089	33.187	0.272	1.00338.58	C
ATOM	381	OG1	THR	50	-60.177	32.435	-0.242	1.00338.58	O
ATOM	382	CG2	THR	50	-58.456	32.470	1.475	1.00338.58	C
ATOM	383	C	THR	50	-60.393	35.101	-0.394	1.00338.58	C
ATOM	384	O	THR	50	-61.458	35.614	-0.107	1.00338.58	O
ATOM	385	N	GLY	51	-59.989	35.057	-1.660	1.00246.94	N
ATOM	386	CA	GLY	51	-60.846	35.542	-2.699	1.00246.94	C
ATOM	387	C	GLY	51	-60.400	36.898	-3.150	1.00246.94	C
ATOM	388	O	GLY	51	-60.657	37.278	-4.291	1.00246.94	O
ATOM	389	N	GLY	52	-59.725	37.675	-2.282	1.00738.32	N
ATOM	390	CA	GLY	52	-59.233	38.945	-2.733	1.00738.32	C
ATOM	391	C	GLY	52	-60.262	40.043	-2.618	1.00738.32	C
ATOM	392	O	GLY	52	-60.003	41.177	-3.017	1.00738.32	O
ATOM	393	N	HIS	53	-61.454	39.766	-2.061	1.00149.10	N
ATOM	394	CA	HIS	53	-62.482	40.780	-2.013	1.00149.10	C
ATOM	395	ND1	HIS	53	-63.950	37.925	-3.002	1.00149.10	N
ATOM	396	CG	HIS	53	-64.242	39.271	-2.957	1.00149.10	C
ATOM	397	CB	HIS	53	-63.884	40.179	-1.821	1.00149.10	C
ATOM	398	NE2	HIS	53	-64.951	38.422	-4.924	1.00149.10	N
ATOM	399	CD2	HIS	53	-64.854	39.556	-4.138	1.00149.10	C
ATOM	400	CE1	HIS	53	-64.395	37.468	-4.199	1.00149.10	C

ATOM	401	C	HIS	53	-62.248	41.735	-0.874	1.00149.10	C
ATOM	402	O	HIS	53	-62.117	41.313	0.271	1.00149.10	O
ATOM	403	N	ALA	54	-62.250	43.061	-1.158	1.00 73.72	N
ATOM	404	CA	ALA	54	-62.005	44.087	-0.169	1.00 73.72	C
ATOM	405	CB	ALA	54	-61.746	45.472	-0.784	1.00 73.72	C
ATOM	406	C	ALA	54	-63.177	44.222	0.764	1.00 73.72	C
ATOM	407	O	ALA	54	-64.324	44.005	0.383	1.00 73.72	O
ATOM	408	N	VAL	55	-62.892	44.602	2.030	1.00 86.56	N
ATOM	409	CA	VAL	55	-63.862	44.745	3.089	1.00 86.56	C
ATOM	410	CB	VAL	55	-63.246	44.922	4.449	1.00 86.56	C
ATOM	411	CG1	VAL	55	-62.473	43.642	4.806	1.00 86.56	C
ATOM	412	CG2	VAL	55	-62.370	46.186	4.446	1.00 86.56	C
ATOM	413	C	VAL	55	-64.773	45.903	2.833	1.00 86.56	C
ATOM	414	O	VAL	55	-65.912	45.911	3.300	1.00 86.56	O
ATOM	415	N	SER	56	-64.279	46.943	2.138	1.00 66.07	N
ATOM	416	CA	SER	56	-65.100	48.097	1.907	1.00 66.07	C
ATOM	417	CB	SER	56	-64.862	49.212	2.934	1.00 66.07	C
ATOM	418	OG	SER	56	-63.505	49.631	2.886	1.00 66.07	O
ATOM	419	C	SER	56	-64.727	48.686	0.586	1.00 66.07	C
ATOM	420	O	SER	56	-63.846	48.199	-0.117	1.00 66.07	O
ATOM	421	N	ARG	57	-65.457	49.749	0.207	1.00236.82	N
ATOM	422	CA	ARG	57	-65.189	50.506	-0.975	1.00236.82	C
ATOM	423	CB	ARG	57	-66.408	51.249	-1.566	1.00236.82	C
ATOM	424	CG	ARG	57	-67.251	52.095	-0.620	1.00236.82	C
ATOM	425	CD	ARG	57	-68.551	52.561	-1.290	1.00236.82	C
ATOM	426	NE	ARG	57	-68.770	51.689	-2.486	1.00236.82	N
ATOM	427	CZ	ARG	57	-70.014	51.232	-2.822	1.00236.82	C
ATOM	428	NH1	ARG	57	-71.089	51.512	-2.031	1.00236.82	N
ATOM	429	NH2	ARG	57	-70.187	50.487	-3.953	1.00236.82	N
ATOM	430	C	ARG	57	-63.956	51.345	-0.796	1.00236.82	C
ATOM	431	O	ARG	57	-63.423	51.887	-1.762	1.00236.82	O
ATOM	432	N	GLY	58	-63.486	51.489	0.460	1.00 51.61	N
ATOM	433	CA	GLY	58	-62.332	52.278	0.812	1.00 51.61	C
ATOM	434	C	GLY	58	-61.101	51.785	0.097	1.00 51.61	C
ATOM	435	O	GLY	58	-60.194	52.570	-0.175	1.00 51.61	O
ATOM	436	N	SER	59	-60.991	50.468	-0.172	1.00 48.27	N
ATOM	437	CA	SER	59	-59.809	49.955	-0.817	1.00 48.27	C
ATOM	438	CB	SER	59	-59.839	48.424	-0.971	1.00 48.27	C
ATOM	439	OG	SER	59	-59.829	47.806	0.308	1.00 48.27	O
ATOM	440	C	SER	59	-59.661	50.548	-2.189	1.00 48.27	C
ATOM	441	O	SER	59	-58.567	50.961	-2.571	1.00 48.27	O
ATOM	442	N	ALA	60	-60.757	50.589	-2.969	1.00139.28	N
ATOM	443	CA	ALA	60	-60.749	51.131	-4.304	1.00139.28	C
ATOM	444	CB	ALA	60	-62.087	50.926	-5.037	1.00139.28	C
ATOM	445	C	ALA	60	-60.473	52.599	-4.238	1.00139.28	C
ATOM	446	O	ALA	60	-59.840	53.166	-5.127	1.00139.28	O
ATOM	447	N	LYS	61	-60.990	53.265	-3.192	1.00 94.37	N
ATOM	448	CA	LYS	61	-60.830	54.683	-3.051	1.00 94.37	C
ATOM	449	CB	LYS	61	-61.567	55.185	-1.805	1.00 94.37	C
ATOM	450	CG	LYS	61	-61.819	56.686	-1.770	1.00 94.37	C
ATOM	451	CD	LYS	61	-62.840	57.050	-0.696	1.00 94.37	C
ATOM	452	CE	LYS	61	-63.090	58.546	-0.548	1.00 94.37	C
ATOM	453	NZ	LYS	61	-64.082	58.763	0.526	1.00 94.37	N
ATOM	454	C	LYS	61	-59.372	55.013	-2.905	1.00 94.37	C
ATOM	455	O	LYS	61	-58.861	55.930	-3.547	1.00 94.37	O
ATOM	456	N	ILE	62	-58.666	54.269	-2.035	1.00120.55	N
ATOM	457	CA	ILE	62	-57.266	54.479	-1.795	1.00120.55	C
ATOM	458	CB	ILE	62	-56.753	53.746	-0.593	1.00120.55	C
ATOM	459	CG1	ILE	62	-57.408	54.330	0.669	1.00120.55	C
ATOM	460	CG2	ILE	62	-55.218	53.838	-0.590	1.00120.55	C
ATOM	461	CD1	ILE	62	-57.152	55.831	0.824	1.00120.55	C
ATOM	462	C	ILE	62	-56.472	54.088	-2.984	1.00120.55	C
ATOM	463	O	ILE	62	-55.457	54.716	-3.292	1.00120.55	O
ATOM	464	N	ARG	63	-56.891	53.011	-3.671	1.00580.63	N
ATOM	465	CA	ARG	63	-56.107	52.605	-4.785	1.00580.63	C
ATOM	466	CB	ARG	63	-56.554	51.284	-5.433	1.00580.63	C

ATOM	467	CG	ARG	63	-57.979	51.248	-5.958	1.00580.63	C
ATOM	468	CD	ARG	63	-58.246	49.986	-6.775	1.00580.63	C
ATOM	469	NE	ARG	63	-59.425	50.271	-7.632	1.00580.63	N
ATOM	470	CZ	ARG	63	-59.602	49.587	-8.798	1.00580.63	C
ATOM	471	NH1	ARG	63	-58.730	48.598	-9.153	1.00580.63	N
ATOM	472	NH2	ARG	63	-60.653	49.899	-9.610	1.00580.63	N
ATOM	473	C	ARG	63	-56.111	53.730	-5.742	1.00580.63	C
ATOM	474	O	ARG	63	-55.059	54.106	-6.247	1.00580.63	O
ATOM	475	N	TRP	64	-57.266	54.376	-5.934	1.00428.65	N
ATOM	476	CA	TRP	64	-57.384	55.367	-6.944	1.00428.65	C
ATOM	477	CB	TRP	64	-58.811	55.902	-7.049	1.00428.65	C
ATOM	478	CG	TRP	64	-59.004	56.268	-8.476	1.00428.65	C
ATOM	479	CD2	TRP	64	-58.565	57.495	-9.053	1.00428.65	C
ATOM	480	CD1	TRP	64	-59.467	55.492	-9.497	1.00428.65	C
ATOM	481	NE1	TRP	64	-59.305	56.148	-10.686	1.00428.65	N
ATOM	482	CE2	TRP	64	-58.753	57.384	-10.425	1.00428.65	C
ATOM	483	CE3	TRP	64	-58.038	58.614	-8.481	1.00428.65	C
ATOM	484	CZ2	TRP	64	-58.402	58.400	-11.255	1.00428.65	C
ATOM	485	CZ3	TRP	64	-57.691	59.646	-9.317	1.00428.65	C
ATOM	486	CH2	TRP	64	-57.869	59.532	-10.679	1.00428.65	C
ATOM	487	C	TRP	64	-56.397	56.447	-6.620	1.00428.65	C
ATOM	488	O	TRP	64	-55.951	57.180	-7.482	1.00428.65	O
ATOM	489	N	LEU	65	-56.036	56.662	-5.360	1.00225.68	N
ATOM	490	CA	LEU	65	-54.996	57.637	-5.192	1.00225.68	C
ATOM	491	CB	LEU	65	-54.803	58.095	-3.732	1.00225.68	C
ATOM	492	CG	LEU	65	-55.990	58.867	-3.123	1.00225.68	C
ATOM	493	CD1	LEU	65	-57.169	57.950	-2.763	1.00225.68	C
ATOM	494	CD2	LEU	65	-55.529	59.737	-1.948	1.00225.68	C
ATOM	495	C	LEU	65	-53.635	57.147	-5.664	1.00225.68	C
ATOM	496	O	LEU	65	-52.889	57.911	-6.275	1.00225.68	O
ATOM	497	N	GLU	66	-53.258	55.879	-5.367	1.00340.87	N
ATOM	498	CA	GLU	66	-51.915	55.366	-5.582	1.00340.87	C
ATOM	499	CB	GLU	66	-51.707	54.016	-4.870	1.00340.87	C
ATOM	500	CG	GLU	66	-50.287	53.462	-4.978	1.00340.87	C
ATOM	501	CD	GLU	66	-50.198	52.650	-6.260	1.00340.87	C
ATOM	502	OE1	GLU	66	-51.273	52.247	-6.779	1.00340.87	O
ATOM	503	OE2	GLU	66	-49.054	52.413	-6.732	1.00340.87	O
ATOM	504	C	GLU	66	-51.457	55.210	-7.019	1.00340.87	C
ATOM	505	O	GLU	66	-50.396	55.714	-7.383	1.00340.87	O
ATOM	506	N	GLU	67	-52.224	54.540	-7.902	1.00999.99	N
ATOM	507	CA	GLU	67	-51.751	54.291	-9.253	1.00999.99	C
ATOM	508	CB	GLU	67	-52.734	53.487	-10.130	1.00999.99	C
ATOM	509	CG	GLU	67	-52.906	52.015	-9.750	1.00999.99	C
ATOM	510	CD	GLU	67	-54.126	51.472	-10.496	1.00999.99	C
ATOM	511	OE1	GLU	67	-54.873	52.301	-11.081	1.00999.99	O
ATOM	512	OE2	GLU	67	-54.344	50.232	-10.465	1.00999.99	O
ATOM	513	C	GLU	67	-51.572	55.592	-9.943	1.00999.99	C
ATOM	514	O	GLU	67	-50.741	55.804	-10.825	1.00999.99	O
ATOM	515	N	ARG	68	-52.466	56.465	-9.535	1.00524.85	N
ATOM	516	CA	ARG	68	-52.778	57.768	-9.939	1.00524.85	C
ATOM	517	CB	ARG	68	-54.262	57.732	-9.512	1.00524.85	C
ATOM	518	CG	ARG	68	-54.969	56.298	-9.827	1.00524.85	C
ATOM	519	CD	ARG	68	-54.823	55.064	-8.794	1.00524.85	C
ATOM	520	NE	ARG	68	-55.825	53.867	-8.901	1.00524.85	N
ATOM	521	CZ	ARG	68	-55.834	52.563	-8.376	1.00524.85	C
ATOM	522	NH1	ARG	68	-54.854	51.915	-7.657	1.00524.85	N
ATOM	523	NH2	ARG	68	-56.961	51.815	-8.558	1.00524.85	N
ATOM	524	C	ARG	68	-51.678	58.698	-9.411	1.00524.85	C
ATOM	525	O	ARG	68	-51.573	59.863	-9.801	1.00524.85	O
ATOM	526	N	GLY	69	-50.846	58.212	-8.454	1.00253.04	N
ATOM	527	CA	GLY	69	-49.604	58.862	-8.080	1.00253.04	C
ATOM	528	C	GLY	69	-49.765	59.857	-6.978	1.00253.04	C
ATOM	529	O	GLY	69	-48.798	60.513	-6.591	1.00253.04	O
ATOM	530	N	TYR	70	-50.979	59.986	-6.428	1.00133.65	N
ATOM	531	CA	TYR	70	-51.232	60.944	-5.395	1.00133.65	C
ATOM	532	CB	TYR	70	-52.700	60.970	-4.933	1.00133.65	C

ATOM	533	CG	TYR	70	-53.576	61.387	-6.063	1.00133.65	C
ATOM	534	CD1	TYR	70	-53.555	62.684	-6.524	1.00133.65	C
ATOM	535	CD2	TYR	70	-54.441	60.486	-6.641	1.00133.65	C
ATOM	536	CE1	TYR	70	-54.372	63.069	-7.560	1.00133.65	C
ATOM	537	CE2	TYR	70	-55.259	60.866	-7.678	1.00133.65	C
ATOM	538	CZ	TYR	70	-55.223	62.160	-8.140	1.00133.65	C
ATOM	539	OH	TYR	70	-56.062	62.552	-9.203	1.00133.65	O
ATOM	540	C	TYR	70	-50.429	60.612	-4.169	1.00133.65	C
ATOM	541	O	TYR	70	-49.947	61.520	-3.491	1.00133.65	O
ATOM	542	N	LEU	71	-50.319	59.314	-3.804	1.00132.05	N
ATOM	543	CA	LEU	71	-49.579	58.937	-2.625	1.00132.05	C
ATOM	544	CB	LEU	71	-50.505	58.845	-1.387	1.00132.05	C
ATOM	545	CG	LEU	71	-49.852	58.595	-0.007	1.00132.05	C
ATOM	546	CD1	LEU	71	-50.918	58.625	1.099	1.00132.05	C
ATOM	547	CD2	LEU	71	-49.045	57.291	0.052	1.00132.05	C
ATOM	548	C	LEU	71	-48.924	57.604	-2.875	1.00132.05	C
ATOM	549	O	LEU	71	-49.504	56.737	-3.527	1.00132.05	O
ATOM	550	N	GLN	72	-47.669	57.410	-2.402	1.00140.84	N
ATOM	551	CA	GLN	72	-47.069	56.108	-2.549	1.00140.84	C
ATOM	552	CB	GLN	72	-45.846	56.066	-3.487	1.00140.84	C
ATOM	553	CG	GLN	72	-44.646	56.893	-3.028	1.00140.84	C
ATOM	554	CD	GLN	72	-43.489	56.548	-3.954	1.00140.84	C
ATOM	555	OE1	GLN	72	-42.945	57.409	-4.644	1.00140.84	O
ATOM	556	NE2	GLN	72	-43.102	55.244	-3.972	1.00140.84	N
ATOM	557	C	GLN	72	-46.659	55.622	-1.186	1.00140.84	C
ATOM	558	O	GLN	72	-45.657	56.056	-0.622	1.00140.84	O
ATOM	559	N	PRO	73	-47.396	54.679	-0.662	1.00106.51	N
ATOM	560	CA	PRO	73	-47.159	54.210	0.681	1.00106.51	C
ATOM	561	CD	PRO	73	-48.778	54.488	-1.071	1.00106.51	C
ATOM	562	CB	PRO	73	-48.355	53.325	1.026	1.00106.51	C
ATOM	563	CG	PRO	73	-49.491	53.894	0.157	1.00106.51	C
ATOM	564	C	PRO	73	-45.849	53.513	0.843	1.00106.51	C
ATOM	565	O	PRO	73	-45.473	52.746	-0.039	1.00106.51	O
ATOM	566	N	TYR	74	-45.125	53.771	1.952	1.00141.17	N
ATOM	567	CA	TYR	74	-43.896	53.066	2.156	1.00141.17	C
ATOM	568	CB	TYR	74	-42.680	53.730	1.478	1.00141.17	C
ATOM	569	CG	TYR	74	-42.498	55.109	2.011	1.00141.17	C
ATOM	570	CD1	TYR	74	-43.338	56.125	1.619	1.00141.17	C
ATOM	571	CD2	TYR	74	-41.473	55.389	2.885	1.00141.17	C
ATOM	572	CE1	TYR	74	-43.167	57.401	2.102	1.00141.17	C
ATOM	573	CE2	TYR	74	-41.297	56.664	3.370	1.00141.17	C
ATOM	574	CZ	TYR	74	-42.146	57.671	2.980	1.00141.17	C
ATOM	575	OH	TYR	74	-41.968	58.979	3.478	1.00141.17	O
ATOM	576	C	TYR	74	-43.642	52.920	3.632	1.00141.17	C
ATOM	577	O	TYR	74	-44.184	53.663	4.448	1.00141.17	O
ATOM	578	N	GLY	75	-42.831	51.909	4.009	1.00 48.62	N
ATOM	579	CA	GLY	75	-42.393	51.681	5.364	1.00 48.62	C
ATOM	580	C	GLY	75	-43.542	51.380	6.281	1.00 48.62	C
ATOM	581	O	GLY	75	-44.428	50.587	5.969	1.00 48.62	O
ATOM	582	N	LYS	76	-43.515	51.996	7.483	1.00 85.83	N
ATOM	583	CA	LYS	76	-44.533	51.776	8.473	1.00 85.83	C
ATOM	584	CB	LYS	76	-44.074	52.186	9.882	1.00 85.83	C
ATOM	585	CG	LYS	76	-45.004	51.738	11.008	1.00 85.83	C
ATOM	586	CD	LYS	76	-44.431	52.007	12.400	1.00 85.83	C
ATOM	587	CE	LYS	76	-45.349	51.564	13.540	1.00 85.83	C
ATOM	588	NZ	LYS	76	-44.734	51.904	14.842	1.00 85.83	N
ATOM	589	C	LYS	76	-45.701	52.637	8.114	1.00 85.83	C
ATOM	590	O	LYS	76	-45.571	53.853	7.989	1.00 85.83	O
ATOM	591	N	VAL	77	-46.888	52.025	7.958	1.00 60.70	N
ATOM	592	CA	VAL	77	-48.049	52.776	7.577	1.00 60.70	C
ATOM	593	CB	VAL	77	-48.789	52.129	6.441	1.00 60.70	C
ATOM	594	CG1	VAL	77	-50.105	52.882	6.205	1.00 60.70	C
ATOM	595	CG2	VAL	77	-47.865	52.091	5.213	1.00 60.70	C
ATOM	596	C	VAL	77	-48.985	52.836	8.744	1.00 60.70	C
ATOM	597	O	VAL	77	-49.404	51.810	9.279	1.00 60.70	O
ATOM	598	N	VAL	78	-49.346	54.064	9.169	1.00115.35	N

ATOM	599	CA	VAL	78	-50.269	54.195	10.260	1.00115.35	C
ATOM	600	CB	VAL	78	-49.847	55.183	11.303	1.00115.35	C
ATOM	601	CG1	VAL	78	-49.735	56.563	10.643	1.00115.35	C
ATOM	602	CG2	VAL	78	-50.857	55.130	12.463	1.00115.35	C
ATOM	603	C	VAL	78	-51.583	54.644	9.689	1.00115.35	C
ATOM	604	O	VAL	78	-51.646	55.605	8.923	1.00115.35	O
ATOM	605	N	ASP	79	-52.678	53.947	10.059	1.00 72.57	N
ATOM	606	CA	ASP	79	-53.968	54.232	9.492	1.00 72.57	C
ATOM	607	CB	ASP	79	-54.574	52.986	8.820	1.00 72.57	C
ATOM	608	CG	ASP	79	-55.838	53.365	8.065	1.00 72.57	C
ATOM	609	OD1	ASP	79	-56.164	54.581	8.024	1.00 72.57	O
ATOM	610	OD2	ASP	79	-56.495	52.439	7.522	1.00 72.57	O
ATOM	611	C	ASP	79	-54.914	54.657	10.580	1.00 72.57	C
ATOM	612	O	ASP	79	-55.521	53.818	11.247	1.00 72.57	O
ATOM	613	N	LEU	80	-55.079	55.984	10.776	1.00146.17	N
ATOM	614	CA	LEU	80	-55.977	56.459	11.796	1.00146.17	C
ATOM	615	CB	LEU	80	-55.833	57.957	12.141	1.00146.17	C
ATOM	616	CG	LEU	80	-54.483	58.405	12.737	1.00146.17	C
ATOM	617	CD1	LEU	80	-54.164	57.676	14.045	1.00146.17	C
ATOM	618	CD2	LEU	80	-53.345	58.337	11.716	1.00146.17	C
ATOM	619	C	LEU	80	-57.389	56.317	11.303	1.00146.17	C
ATOM	620	O	LEU	80	-57.725	56.791	10.218	1.00146.17	O
ATOM	621	N	GLY	81	-58.272	55.707	12.125	1.00 38.74	N
ATOM	622	CA	GLY	81	-59.652	55.545	11.746	1.00 38.74	C
ATOM	623	C	GLY	81	-59.767	54.538	10.637	1.00 38.74	C
ATOM	624	O	GLY	81	-60.371	54.807	9.600	1.00 38.74	O
ATOM	625	N	CYS	82	-59.179	53.344	10.839	1.00 57.31	N
ATOM	626	CA	CYS	82	-59.161	52.282	9.865	1.00 57.31	C
ATOM	627	CB	CYS	82	-58.287	51.088	10.295	1.00 57.31	C
ATOM	628	SG	CYS	82	-58.953	50.208	11.739	1.00 57.31	S
ATOM	629	C	CYS	82	-60.543	51.746	9.601	1.00 57.31	C
ATOM	630	O	CYS	82	-60.842	51.317	8.486	1.00 57.31	O
ATOM	631	N	GLY	83	-61.415	51.709	10.627	1.00 32.75	N
ATOM	632	CA	GLY	83	-62.748	51.205	10.429	1.00 32.75	C
ATOM	633	C	GLY	83	-62.671	49.739	10.119	1.00 32.75	C
ATOM	634	O	GLY	83	-62.082	48.960	10.865	1.00 32.75	O
ATOM	635	N	ARG	84	-63.308	49.321	9.008	1.00189.62	N
ATOM	636	CA	ARG	84	-63.292	47.941	8.612	1.00189.62	C
ATOM	637	CB	ARG	84	-64.379	47.550	7.593	1.00189.62	C
ATOM	638	CG	ARG	84	-64.465	48.379	6.320	1.00189.62	C
ATOM	639	CD	ARG	84	-65.678	47.976	5.478	1.00189.62	C
ATOM	640	NE	ARG	84	-66.890	48.113	6.333	1.00189.62	N
ATOM	641	CZ	ARG	84	-68.109	47.708	5.870	1.00189.62	C
ATOM	642	NH1	ARG	84	-68.223	47.167	4.621	1.00189.62	N
ATOM	643	NH2	ARG	84	-69.214	47.839	6.660	1.00189.62	N
ATOM	644	C	ARG	84	-61.908	47.551	8.190	1.00189.62	C
ATOM	645	O	ARG	84	-61.547	46.377	8.271	1.00189.62	O
ATOM	646	N	GLY	85	-61.085	48.524	7.739	1.00 51.92	N
ATOM	647	CA	GLY	85	-59.722	48.189	7.415	1.00 51.92	C
ATOM	648	C	GLY	85	-59.481	48.212	5.938	1.00 51.92	C
ATOM	649	O	GLY	85	-58.502	47.643	5.458	1.00 51.92	O
ATOM	650	N	GLY	86	-60.345	48.905	5.178	1.00 48.18	N
ATOM	651	CA	GLY	86	-60.215	48.910	3.751	1.00 48.18	C
ATOM	652	C	GLY	86	-58.883	49.455	3.302	1.00 48.18	C
ATOM	653	O	GLY	86	-58.293	48.923	2.363	1.00 48.18	O
ATOM	654	N	TRP	87	-58.395	50.555	3.911	1.00104.17	N
ATOM	655	CA	TRP	87	-57.149	51.152	3.495	1.00104.17	C
ATOM	656	CB	TRP	87	-56.958	52.568	4.085	1.00104.17	C
ATOM	657	CG	TRP	87	-58.047	53.547	3.679	1.00104.17	C
ATOM	658	CD2	TRP	87	-57.876	54.969	3.551	1.00104.17	C
ATOM	659	CD1	TRP	87	-59.348	53.289	3.353	1.00104.17	C
ATOM	660	NE1	TRP	87	-59.998	54.459	3.039	1.00104.17	N
ATOM	661	CE2	TRP	87	-59.104	55.501	3.153	1.00104.17	C
ATOM	662	CE3	TRP	87	-56.787	55.770	3.747	1.00104.17	C
ATOM	663	CZ2	TRP	87	-59.260	56.842	2.943	1.00104.17	C
ATOM	664	CZ3	TRP	87	-56.949	57.122	3.532	1.00104.17	C

ATOM	665	CH2 TRP	87	-58.161	57.648	3.138	1.00104.17	C
ATOM	666	C TRP	87	-55.970	50.295	3.887	1.00104.17	C
ATOM	667	O TRP	87	-55.019	50.124	3.124	1.00104.17	O
ATOM	668	N SER	88	-56.006	49.723	5.104	1.00 54.67	N
ATOM	669	CA SER	88	-54.894	48.982	5.642	1.00 54.67	C
ATOM	670	CB SER	88	-55.168	48.468	7.067	1.00 54.67	C
ATOM	671	OG SER	88	-55.337	49.559	7.959	1.00 54.67	O
ATOM	672	C SER	88	-54.563	47.789	4.795	1.00 54.67	C
ATOM	673	O SER	88	-53.395	47.510	4.531	1.00 54.67	O
ATOM	674	N TYR	89	-55.587	47.041	4.353	1.00148.88	N
ATOM	675	CA TYR	89	-55.372	45.842	3.587	1.00148.88	C
ATOM	676	CB TYR	89	-56.640	44.988	3.431	1.00148.88	C
ATOM	677	CG TYR	89	-56.845	44.340	4.758	1.00148.88	C
ATOM	678	CD1 TYR	89	-57.402	45.025	5.811	1.00148.88	C
ATOM	679	CD2 TYR	89	-56.471	43.033	4.954	1.00148.88	C
ATOM	680	CE1 TYR	89	-57.580	44.417	7.032	1.00148.88	C
ATOM	681	CE2 TYR	89	-56.647	42.419	6.172	1.00148.88	C
ATOM	682	CZ TYR	89	-57.203	43.112	7.216	1.00148.88	C
ATOM	683	OH TYR	89	-57.385	42.485	8.468	1.00148.88	O
ATOM	684	C TYR	89	-54.793	46.140	2.238	1.00148.88	C
ATOM	685	O TYR	89	-54.019	45.353	1.698	1.00148.88	O
ATOM	686	N TYR	90	-55.203	47.259	1.623	1.00 95.89	N
ATOM	687	CA TYR	90	-54.718	47.616	0.320	1.00 95.89	C
ATOM	688	CB TYR	90	-55.458	48.849	-0.229	1.00 95.89	C
ATOM	689	CG TYR	90	-54.984	49.151	-1.609	1.00 95.89	C
ATOM	690	CD1 TYR	90	-55.488	48.455	-2.684	1.00 95.89	C
ATOM	691	CD2 TYR	90	-54.052	50.137	-1.829	1.00 95.89	C
ATOM	692	CE1 TYR	90	-55.063	48.734	-3.961	1.00 95.89	C
ATOM	693	CE2 TYR	90	-53.623	50.420	-3.105	1.00 95.89	C
ATOM	694	CZ TYR	90	-54.129	49.718	-4.171	1.00 95.89	C
ATOM	695	OH TYR	90	-53.690	50.008	-5.481	1.00 95.89	O
ATOM	696	C TYR	90	-53.251	47.937	0.401	1.00 95.89	C
ATOM	697	O TYR	90	-52.462	47.537	-0.454	1.00 95.89	O
ATOM	698	N ALA	91	-52.846	48.671	1.451	1.00 72.64	N
ATOM	699	CA ALA	91	-51.486	49.107	1.628	1.00 72.64	C
ATOM	700	CB ALA	91	-51.305	50.003	2.865	1.00 72.64	C
ATOM	701	C ALA	91	-50.582	47.923	1.794	1.00 72.64	C
ATOM	702	O ALA	91	-49.421	47.944	1.388	1.00 72.64	O
ATOM	703	N ALA	92	-51.100	46.860	2.422	1.00 90.91	N
ATOM	704	CA ALA	92	-50.348	45.680	2.760	1.00 90.91	C
ATOM	705	CB ALA	92	-51.180	44.644	3.536	1.00 90.91	C
ATOM	706	C ALA	92	-49.806	45.001	1.538	1.00 90.91	C
ATOM	707	O ALA	92	-48.761	44.352	1.586	1.00 90.91	O
ATOM	708	N THR	93	-50.539	45.083	0.421	1.00161.01	N
ATOM	709	CA THR	93	-50.180	44.439	-0.809	1.00161.01	C
ATOM	710	CB THR	93	-51.300	44.456	-1.812	1.00161.01	C
ATOM	711	OG1 THR	93	-51.633	45.791	-2.166	1.00161.01	O
ATOM	712	CG2 THR	93	-52.521	43.757	-1.189	1.00161.01	C
ATOM	713	C THR	93	-48.970	45.077	-1.454	1.00161.01	C
ATOM	714	O THR	93	-48.407	44.496	-2.380	1.00161.01	O
ATOM	715	N ILE	94	-48.588	46.315	-1.064	1.00218.00	N
ATOM	716	CA ILE	94	-47.494	47.016	-1.714	1.00218.00	C
ATOM	717	CB ILE	94	-47.644	48.509	-1.634	1.00218.00	C
ATOM	718	CG1 ILE	94	-46.827	49.196	-2.736	1.00218.00	C
ATOM	719	CG2 ILE	94	-47.254	48.956	-0.218	1.00218.00	C
ATOM	720	CD1 ILE	94	-47.389	48.967	-4.139	1.00218.00	C
ATOM	721	C ILE	94	-46.115	46.632	-1.153	1.00218.00	C
ATOM	722	O ILE	94	-45.898	46.575	0.055	1.00218.00	O
ATOM	723	N ARG	95	-45.109	46.401	-2.041	1.00281.96	N
ATOM	724	CA ARG	95	-43.778	45.903	-1.679	1.00281.96	C
ATOM	725	CB ARG	95	-42.883	45.732	-2.918	1.00281.96	C
ATOM	726	CG ARG	95	-43.537	44.906	-4.024	1.00281.96	C
ATOM	727	CD ARG	95	-44.561	45.701	-4.839	1.00281.96	C
ATOM	728	NE ARG	95	-45.224	44.751	-5.775	1.00281.96	N
ATOM	729	CZ ARG	95	-44.571	44.318	-6.892	1.00281.96	C
ATOM	730	NH1 ARG	95	-43.286	44.714	-7.127	1.00281.96	N

ATOM	731	NH2	ARG	95	-45.198	43.477	-7.765	1.00281.96	N
ATOM	732	C	ARG	95	-43.059	46.854	-0.772	1.00281.96	C
ATOM	733	O	ARG	95	-42.359	46.427	0.151	1.00281.96	O
ATOM	734	N	LYS	96	-43.190	48.170	-1.033	1.00228.99	N
ATOM	735	CA	LYS	96	-42.494	49.142	-0.242	1.00228.99	C
ATOM	736	CB	LYS	96	-42.495	50.577	-0.814	1.00228.99	C
ATOM	737	CG	LYS	96	-43.813	51.058	-1.418	1.00228.99	C
ATOM	738	CD	LYS	96	-44.147	50.409	-2.760	1.00228.99	C
ATOM	739	CE	LYS	96	-43.457	51.080	-3.950	1.00228.99	C
ATOM	740	NZ	LYS	96	-43.980	52.452	-4.135	1.00228.99	N
ATOM	741	C	LYS	96	-43.001	49.165	1.171	1.00228.99	C
ATOM	742	O	LYS	96	-42.284	49.624	2.060	1.00228.99	O
ATOM	743	N	VAL	97	-44.260	48.746	1.431	1.00217.08	N
ATOM	744	CA	VAL	97	-44.700	48.792	2.807	1.00217.08	C
ATOM	745	CB	VAL	97	-46.182	48.860	3.044	1.00217.08	C
ATOM	746	CG1	VAL	97	-46.698	50.217	2.574	1.00217.08	C
ATOM	747	CG2	VAL	97	-46.862	47.652	2.391	1.00217.08	C
ATOM	748	C	VAL	97	-44.227	47.608	3.603	1.00217.08	C
ATOM	749	O	VAL	97	-44.363	46.452	3.200	1.00217.08	O
ATOM	750	N	GLN	98	-43.557	47.914	4.734	1.00177.28	N
ATOM	751	CA	GLN	98	-43.084	46.983	5.724	1.00177.28	C
ATOM	752	CB	GLN	98	-41.902	47.542	6.536	1.00177.28	C
ATOM	753	CG	GLN	98	-40.663	47.872	5.704	1.00177.28	C
ATOM	754	CD	GLN	98	-39.579	48.354	6.659	1.00177.28	C
ATOM	755	OE1	GLN	98	-39.803	48.471	7.862	1.00177.28	O
ATOM	756	NE2	GLN	98	-38.367	48.636	6.111	1.00177.28	N
ATOM	757	C	GLN	98	-44.119	46.613	6.749	1.00177.28	C
ATOM	758	O	GLN	98	-44.176	45.468	7.194	1.00177.28	O
ATOM	759	N	GLU	99	-44.938	47.588	7.200	1.00 98.86	N
ATOM	760	CA	GLU	99	-45.795	47.311	8.322	1.00 98.86	C
ATOM	761	CB	GLU	99	-45.074	47.594	9.652	1.00 98.86	C
ATOM	762	CG	GLU	99	-45.864	47.261	10.917	1.00 98.86	C
ATOM	763	CD	GLU	99	-45.019	47.731	12.093	1.00 98.86	C
ATOM	764	OE1	GLU	99	-44.090	48.548	11.856	1.00 98.86	O
ATOM	765	OE2	GLU	99	-45.288	47.284	13.239	1.00 98.86	O
ATOM	766	C	GLU	99	-46.988	48.211	8.273	1.00 98.86	C
ATOM	767	O	GLU	99	-46.895	49.363	7.848	1.00 98.86	O
ATOM	768	N	VAL	100	-48.152	47.700	8.730	1.00 91.04	N
ATOM	769	CA	VAL	100	-49.343	48.497	8.699	1.00 91.04	C
ATOM	770	CB	VAL	100	-50.321	48.004	7.672	1.00 91.04	C
ATOM	771	CG1	VAL	100	-51.568	48.903	7.698	1.00 91.04	C
ATOM	772	CG2	VAL	100	-49.606	47.948	6.309	1.00 91.04	C
ATOM	773	C	VAL	100	-50.005	48.416	10.041	1.00 91.04	C
ATOM	774	O	VAL	100	-50.241	47.326	10.562	1.00 91.04	O
ATOM	775	N	ARG	101	-50.325	49.583	10.640	1.00130.65	N
ATOM	776	CA	ARG	101	-50.996	49.574	11.909	1.00130.65	C
ATOM	777	CB	ARG	101	-50.153	50.136	13.062	1.00130.65	C
ATOM	778	CG	ARG	101	-49.053	49.172	13.496	1.00130.65	C
ATOM	779	CD	ARG	101	-48.323	49.605	14.764	1.00130.65	C
ATOM	780	NE	ARG	101	-47.525	48.438	15.219	1.00130.65	N
ATOM	781	CZ	ARG	101	-48.080	47.534	16.078	1.00130.65	C
ATOM	782	NH1	ARG	101	-49.327	47.753	16.588	1.00130.65	N
ATOM	783	NH2	ARG	101	-47.390	46.407	16.419	1.00130.65	N
ATOM	784	C	ARG	101	-52.233	50.405	11.802	1.00130.65	C
ATOM	785	O	ARG	101	-52.190	51.552	11.361	1.00130.65	O
ATOM	786	N	GLY	102	-53.381	49.847	12.237	1.00 39.09	N
ATOM	787	CA	GLY	102	-54.618	50.560	12.117	1.00 39.09	C
ATOM	788	C	GLY	102	-55.176	50.814	13.479	1.00 39.09	C
ATOM	789	O	GLY	102	-55.001	50.017	14.401	1.00 39.09	O
ATOM	790	N	TYR	103	-55.858	51.965	13.641	1.00122.71	N
ATOM	791	CA	TYR	103	-56.469	52.258	14.905	1.00122.71	C
ATOM	792	CB	TYR	103	-55.753	53.366	15.705	1.00122.71	C
ATOM	793	CG	TYR	103	-54.341	52.957	15.994	1.00122.71	C
ATOM	794	CD1	TYR	103	-54.047	51.964	16.901	1.00122.71	C
ATOM	795	CD2	TYR	103	-53.296	53.595	15.366	1.00122.71	C
ATOM	796	CE1	TYR	103	-52.743	51.606	17.164	1.00122.71	C

ATOM	797	CE2 TYR	103	-51.991	53.243	15.622	1.00122.71	C
ATOM	798	CZ TYR	103	-51.710	52.243	16.522	1.00122.71	C
ATOM	799	OH TYR	103	-50.373	51.877	16.790	1.00122.71	O
ATOM	800	C TYR	103	-57.868	52.733	14.626	1.00122.71	C
ATOM	801	O TYR	103	-58.096	53.495	13.687	1.00122.71	O
ATOM	802	N THR	104	-58.857	52.267	15.420	1.00121.06	N
ATOM	803	CA THR	104	-60.207	52.721	15.220	1.00121.06	C
ATOM	804	CB THR	104	-60.964	51.907	14.215	1.00121.06	C
ATOM	805	OG1 THR	104	-62.156	52.578	13.840	1.00121.06	O
ATOM	806	CG2 THR	104	-61.289	50.535	14.826	1.00121.06	C
ATOM	807	C THR	104	-60.936	52.666	16.533	1.00121.06	C
ATOM	808	O THR	104	-60.599	51.879	17.415	1.00121.06	O
ATOM	809	N LYS	105	-61.959	53.532	16.701	1.00109.81	N
ATOM	810	CA LYS	105	-62.704	53.618	17.930	1.00109.81	C
ATOM	811	CB LYS	105	-63.691	54.799	17.930	1.00109.81	C
ATOM	812	CG LYS	105	-64.397	55.028	19.270	1.00109.81	C
ATOM	813	CD LYS	105	-63.460	55.498	20.384	1.00109.81	C
ATOM	814	CE LYS	105	-64.180	55.891	21.676	1.00109.81	C
ATOM	815	NZ LYS	105	-64.711	57.268	21.563	1.00109.81	N
ATOM	816	C LYS	105	-63.491	52.364	18.176	1.00109.81	C
ATOM	817	O LYS	105	-63.444	51.799	19.268	1.00109.81	O
ATOM	818	N GLY	106	-64.247	51.895	17.163	1.0023.49	N
ATOM	819	CA GLY	106	-65.027	50.697	17.316	1.0023.49	C
ATOM	820	C GLY	106	-66.138	50.974	18.280	1.0023.49	C
ATOM	821	O GLY	106	-66.453	52.124	18.581	1.0023.49	O
ATOM	822	N GLY	107	-66.765	49.899	18.798	1.00142.36	N
ATOM	823	CA GLY	107	-67.807	50.060	19.772	1.00142.36	C
ATOM	824	C GLY	107	-69.113	50.251	19.073	1.00142.36	C
ATOM	825	O GLY	107	-69.231	50.122	17.856	1.00142.36	O
ATOM	826	N PRO	108	-70.107	50.563	19.861	1.00129.02	N
ATOM	827	CA PRO	108	-71.428	50.746	19.336	1.00129.02	C
ATOM	828	CD PRO	108	-70.121	50.151	21.255	1.00129.02	C
ATOM	829	CB PRO	108	-72.346	50.846	20.553	1.00129.02	C
ATOM	830	CG PRO	108	-71.607	50.029	21.630	1.00129.02	C
ATOM	831	C PRO	108	-71.489	51.928	18.433	1.00129.02	C
ATOM	832	O PRO	108	-70.981	52.987	18.798	1.00129.02	O
ATOM	833	N GLY	109	-72.119	51.769	17.254	1.0018.77	N
ATOM	834	CA GLY	109	-72.285	52.865	16.348	1.0018.77	C
ATOM	835	C GLY	109	-71.024	53.090	15.572	1.0018.77	C
ATOM	836	O GLY	109	-70.902	54.105	14.886	1.0018.77	O
ATOM	837	N HIS	110	-70.046	52.165	15.650	1.0047.63	N
ATOM	838	CA HIS	110	-68.832	52.372	14.905	1.0047.63	C
ATOM	839	ND1 HIS	110	-67.460	55.283	15.915	1.0047.63	N
ATOM	840	CG HIS	110	-67.772	54.069	16.483	1.0047.63	C
ATOM	841	CB HIS	110	-67.626	52.750	15.782	1.0047.63	C
ATOM	842	NE2 HIS	110	-68.173	55.711	17.978	1.0047.63	N
ATOM	843	CD2 HIS	110	-68.206	54.349	17.743	1.0047.63	C
ATOM	844	CE1 HIS	110	-67.718	56.231	16.852	1.0047.63	C
ATOM	845	C HIS	110	-68.474	51.084	14.231	1.0047.63	C
ATOM	846	O HIS	110	-68.793	50.003	14.721	1.0047.63	O
ATOM	847	N GLU	111	-67.795	51.166	13.070	1.0061.55	N
ATOM	848	CA GLU	111	-67.430	49.964	12.376	1.0061.55	C
ATOM	849	CB GLU	111	-67.034	50.201	10.915	1.0061.55	C
ATOM	850	CG GLU	111	-68.192	50.691	10.051	1.0061.55	C
ATOM	851	CD GLU	111	-67.630	50.880	8.659	1.0061.55	C
ATOM	852	OE1 GLU	111	-66.433	50.535	8.469	1.0061.55	O
ATOM	853	OE2 GLU	111	-68.378	51.369	7.772	1.0061.55	O
ATOM	854	C GLU	111	-66.252	49.348	13.059	1.0061.55	C
ATOM	855	O GLU	111	-65.354	50.044	13.532	1.0061.55	O
ATOM	856	N GLU	112	-66.234	48.003	13.117	1.0096.10	N
ATOM	857	CA GLU	112	-65.136	47.300	13.716	1.0096.10	C
ATOM	858	CB GLU	112	-65.555	46.149	14.650	1.0096.10	C
ATOM	859	CG GLU	112	-66.099	46.616	16.005	1.0096.10	C
ATOM	860	CD GLU	112	-64.914	46.929	16.913	1.0096.10	C
ATOM	861	OE1 GLU	112	-63.754	46.747	16.460	1.0096.10	O
ATOM	862	OE2 GLU	112	-65.154	47.347	18.077	1.0096.10	O

ATOM	863	C	GLU	112	-64.313	46.718	12.606	1.00	96.10	C
ATOM	864	O	GLU	112	-64.794	46.516	11.492	1.00	96.10	O
ATOM	865	N	PRO	113	-63.061	46.467	12.885	1.00	89.44	N
ATOM	866	CA	PRO	113	-62.191	45.913	11.881	1.00	89.44	C
ATOM	867	CD	PRO	113	-62.336	47.298	13.833	1.00	89.44	C
ATOM	868	CB	PRO	113	-60.777	46.052	12.437	1.00	89.44	C
ATOM	869	CG	PRO	113	-60.874	47.286	13.354	1.00	89.44	C
ATOM	870	C	PRO	113	-62.574	44.514	11.495	1.00	89.44	C
ATOM	871	O	PRO	113	-62.991	43.749	12.362	1.00	89.44	O
ATOM	872	N	MET	114	-62.428	44.157	10.199	1.00	95.13	N
ATOM	873	CA	MET	114	-62.796	42.846	9.728	1.00	95.13	C
ATOM	874	CB	MET	114	-63.616	42.899	8.429	1.00	95.13	C
ATOM	875	CG	MET	114	-64.895	43.728	8.580	1.00	95.13	C
ATOM	876	SD	MET	114	-65.809	44.029	7.038	1.00	95.13	S
ATOM	877	CE	MET	114	-66.646	42.418	7.018	1.00	95.13	C
ATOM	878	C	MET	114	-61.525	42.097	9.441	1.00	95.13	C
ATOM	879	O	MET	114	-60.584	42.654	8.880	1.00	95.13	O
ATOM	880	N	LEU	115	-61.453	40.802	9.820	1.00	131.88	N
ATOM	881	CA	LEU	115	-60.229	40.075	9.596	1.00	131.88	C
ATOM	882	CB	LEU	115	-60.001	38.839	10.490	1.00	131.88	C
ATOM	883	CG	LEU	115	-59.945	39.084	12.008	1.00	131.88	C
ATOM	884	CD1	LEU	115	-58.852	40.091	12.389	1.00	131.88	C
ATOM	885	CD2	LEU	115	-61.327	39.411	12.579	1.00	131.88	C
ATOM	886	C	LEU	115	-60.253	39.498	8.215	1.00	131.88	C
ATOM	887	O	LEU	115	-61.188	38.788	7.843	1.00	131.88	O
ATOM	888	N	VAL	116	-59.187	39.750	7.426	1.00	139.31	N
ATOM	889	CA	VAL	116	-59.163	39.252	6.077	1.00	139.31	C
ATOM	890	CB	VAL	116	-59.375	40.340	5.064	1.00	139.31	C
ATOM	891	CG1	VAL	116	-59.214	39.758	3.652	1.00	139.31	C
ATOM	892	CG2	VAL	116	-60.760	40.961	5.319	1.00	139.31	C
ATOM	893	C	VAL	116	-57.838	38.608	5.806	1.00	139.31	C
ATOM	894	O	VAL	116	-56.841	38.901	6.452	1.00	139.31	O
ATOM	895	N	GLN	117	-57.850	37.620	4.898	1.00	186.79	N
ATOM	896	CA	GLN	117	-56.789	36.805	4.370	1.00	186.79	C
ATOM	897	CB	GLN	117	-57.252	35.389	4.030	1.00	186.79	C
ATOM	898	CG	GLN	117	-57.822	34.752	5.295	1.00	186.79	C
ATOM	899	CD	GLN	117	-57.770	33.243	5.177	1.00	186.79	C
ATOM	900	OE1	GLN	117	-58.773	32.552	5.343	1.00	186.79	O
ATOM	901	NE2	GLN	117	-56.547	32.716	4.916	1.00	186.79	N
ATOM	902	C	GLN	117	-56.056	37.412	3.211	1.00	186.79	C
ATOM	903	O	GLN	117	-55.304	36.710	2.538	1.00	186.79	O
ATOM	904	N	SER	118	-56.390	38.647	2.807	1.00	205.44	N
ATOM	905	CA	SER	118	-55.768	39.237	1.651	1.00	205.44	C
ATOM	906	CB	SER	118	-56.253	40.675	1.391	1.00	205.44	C
ATOM	907	OG	SER	118	-56.044	41.479	2.544	1.00	205.44	O
ATOM	908	C	SER	118	-54.268	39.225	1.751	1.00	205.44	C
ATOM	909	O	SER	118	-53.684	39.113	2.829	1.00	205.44	O
ATOM	910	N	TYR	119	-53.601	39.335	0.578	1.00	172.93	N
ATOM	911	CA	TYR	119	-52.168	39.252	0.502	1.00	172.93	C
ATOM	912	CB	TYR	119	-51.607	39.446	-0.924	1.00	172.93	C
ATOM	913	CG	TYR	119	-50.116	39.408	-0.842	1.00	172.93	C
ATOM	914	CD1	TYR	119	-49.441	38.212	-0.744	1.00	172.93	C
ATOM	915	CD2	TYR	119	-49.388	40.576	-0.875	1.00	172.93	C
ATOM	916	CE1	TYR	119	-48.066	38.182	-0.666	1.00	172.93	C
ATOM	917	CE2	TYR	119	-48.013	40.552	-0.798	1.00	172.93	C
ATOM	918	CZ	TYR	119	-47.348	39.355	-0.690	1.00	172.93	C
ATOM	919	OH	TYR	119	-45.937	39.331	-0.606	1.00	172.93	O
ATOM	920	C	TYR	119	-51.535	40.279	1.387	1.00	172.93	C
ATOM	921	O	TYR	119	-51.805	41.474	1.269	1.00	172.93	O
ATOM	922	N	GLY	120	-50.635	39.818	2.284	1.00	86.06	N
ATOM	923	CA	GLY	120	-49.917	40.706	3.155	1.00	86.06	C
ATOM	924	C	GLY	120	-50.663	40.925	4.435	1.00	86.06	C
ATOM	925	O	GLY	120	-50.353	41.845	5.189	1.00	86.06	O
ATOM	926	N	TRP	121	-51.628	40.047	4.745	1.00	131.21	N
ATOM	927	CA	TRP	121	-52.448	40.201	5.914	1.00	131.21	C
ATOM	928	CB	TRP	121	-53.510	39.093	6.061	1.00	131.21	C

ATOM	929	CG	TRP	121	-52.986	37.670	6.070	1.00131.21	C
ATOM	930	CD2	TRP	121	-52.595	36.930	7.243	1.00131.21	C
ATOM	931	CD1	TRP	121	-52.824	36.822	5.014	1.00131.21	C
ATOM	932	NE1	TRP	121	-52.370	35.601	5.451	1.00131.21	N
ATOM	933	CE2	TRP	121	-52.224	35.654	6.820	1.00131.21	C
ATOM	934	CE3	TRP	121	-52.557	37.280	8.563	1.00131.21	C
ATOM	935	CZ2	TRP	121	-51.809	34.707	7.713	1.00131.21	C
ATOM	936	CZ3	TRP	121	-52.130	36.326	9.461	1.00131.21	C
ATOM	937	CH2	TRP	121	-51.764	35.063	9.043	1.00131.21	C
ATOM	938	C	TRP	121	-51.593	40.182	7.153	1.00131.21	C
ATOM	939	O	TRP	121	-51.955	40.783	8.163	1.00131.21	O
ATOM	940	N	ASN	122	-50.447	39.479	7.120	1.00299.96	N
ATOM	941	CA	ASN	122	-49.585	39.310	8.269	1.00299.96	C
ATOM	942	CB	ASN	122	-48.249	38.630	7.959	1.00299.96	C
ATOM	943	CG	ASN	122	-48.513	37.399	7.151	1.00299.96	C
ATOM	944	OD1	ASN	122	-48.753	37.495	5.950	1.00299.96	O
ATOM	945	ND2	ASN	122	-48.457	36.216	7.813	1.00299.96	N
ATOM	946	C	ASN	122	-49.068	40.630	8.756	1.00299.96	C
ATOM	947	O	ASN	122	-48.783	40.787	9.938	1.00299.96	O
ATOM	948	N	ILE	123	-48.813	41.566	7.833	1.00252.86	N
ATOM	949	CA	ILE	123	-48.263	42.866	8.118	1.00252.86	C
ATOM	950	CB	ILE	123	-47.937	43.663	6.882	1.00252.86	C
ATOM	951	CG1	ILE	123	-46.854	42.978	6.059	1.00252.86	C
ATOM	952	CG2	ILE	123	-47.522	45.090	7.276	1.00252.86	C
ATOM	953	CD1	ILE	123	-46.521	43.783	4.808	1.00252.86	C
ATOM	954	C	ILE	123	-49.232	43.698	8.895	1.00252.86	C
ATOM	955	O	ILE	123	-48.843	44.622	9.611	1.00252.86	O
ATOM	956	N	VAL	124	-50.535	43.456	8.689	1.00268.61	N
ATOM	957	CA	VAL	124	-51.530	44.330	9.232	1.00268.61	C
ATOM	958	CB	VAL	124	-52.804	44.319	8.441	1.00268.61	C
ATOM	959	CG1	VAL	124	-53.834	45.193	9.168	1.00268.61	C
ATOM	960	CG2	VAL	124	-52.494	44.798	7.013	1.00268.61	C
ATOM	961	C	VAL	124	-51.867	44.031	10.658	1.00268.61	C
ATOM	962	O	VAL	124	-52.010	42.879	11.064	1.00268.61	O
ATOM	963	N	ARG	125	-51.997	45.108	11.466	1.00297.92	N
ATOM	964	CA	ARG	125	-52.399	44.970	12.835	1.00297.92	C
ATOM	965	CB	ARG	125	-51.248	45.267	13.817	1.00297.92	C
ATOM	966	CG	ARG	125	-51.444	44.752	15.246	1.00297.92	C
ATOM	967	CD	ARG	125	-52.137	45.731	16.194	1.00297.92	C
ATOM	968	NE	ARG	125	-53.488	45.180	16.489	1.00297.92	N
ATOM	969	CZ	ARG	125	-53.641	44.287	17.512	1.00297.92	C
ATOM	970	NH1	ARG	125	-52.560	43.912	18.257	1.00297.92	N
ATOM	971	NH2	ARG	125	-54.874	43.770	17.790	1.00297.92	N
ATOM	972	C	ARG	125	-53.476	45.991	13.067	1.00297.92	C
ATOM	973	O	ARG	125	-53.194	47.187	13.098	1.00297.92	O
ATOM	974	N	LEU	126	-54.740	45.543	13.251	1.00174.79	N
ATOM	975	CA	LEU	126	-55.838	46.454	13.458	1.00174.79	C
ATOM	976	CB	LEU	126	-57.156	46.063	12.751	1.00174.79	C
ATOM	977	CG	LEU	126	-57.130	45.959	11.211	1.00174.79	C
ATOM	978	CD1	LEU	126	-56.755	47.281	10.530	1.00174.79	C
ATOM	979	CD2	LEU	126	-56.289	44.770	10.742	1.00174.79	C
ATOM	980	C	LEU	126	-56.171	46.438	14.918	1.00174.79	C
ATOM	981	O	LEU	126	-56.204	45.379	15.545	1.00174.79	O
ATOM	982	N	LYS	127	-56.428	47.630	15.499	1.00217.50	N
ATOM	983	CA	LYS	127	-56.757	47.742	16.895	1.00217.50	C
ATOM	984	CB	LYS	127	-55.735	48.572	17.690	1.00217.50	C
ATOM	985	CG	LYS	127	-54.458	47.819	18.053	1.00217.50	C
ATOM	986	CD	LYS	127	-54.695	46.691	19.057	1.00217.50	C
ATOM	987	CE	LYS	127	-55.095	47.197	20.443	1.00217.50	C
ATOM	988	NZ	LYS	127	-54.009	48.031	21.003	1.00217.50	N
ATOM	989	C	LYS	127	-58.051	48.472	17.026	1.00217.50	C
ATOM	990	O	LYS	127	-58.288	49.468	16.348	1.00217.50	O
ATOM	991	N	SER	128	-58.920	48.001	17.939	1.0092.24	N
ATOM	992	CA	SER	128	-60.177	48.661	18.131	1.0092.24	C
ATOM	993	CB	SER	128	-61.393	47.724	18.045	1.0092.24	C
ATOM	994	OG	SER	128	-61.393	46.825	19.144	1.0092.24	O

ATOM	995	C	SER	128	-60.182	49.238	19.510	1.00	92.24	C
ATOM	996	O	SER	128	-59.339	48.903	20.340	1.00	92.24	O
ATOM	997	N	GLY	129	-61.132	50.157	19.772	1.00	28.87	N
ATOM	998	CA	GLY	129	-61.264	50.744	21.075	1.00	28.87	C
ATOM	999	C	GLY	129	-60.217	51.802	21.268	1.00	28.87	C
ATOM	1000	O	GLY	129	-59.860	52.117	22.402	1.00	28.87	O
ATOM	1001	N	VAL	130	-59.698	52.391	20.171	1.00	47.42	N
ATOM	1002	CA	VAL	130	-58.666	53.379	20.321	1.00	47.42	C
ATOM	1003	CB	VAL	130	-57.460	53.102	19.471	1.00	47.42	C
ATOM	1004	CG1	VAL	130	-56.484	54.286	19.597	1.00	47.42	C
ATOM	1005	CG2	VAL	130	-56.865	51.746	19.891	1.00	47.42	C
ATOM	1006	C	VAL	130	-59.194	54.721	19.918	1.00	47.42	C
ATOM	1007	O	VAL	130	-59.886	54.861	18.910	1.00	47.42	O
ATOM	1008	N	ASP	131	-58.877	55.752	20.728	1.00	49.28	N
ATOM	1009	CA	ASP	131	-59.262	57.105	20.439	1.00	49.28	C
ATOM	1010	CB	ASP	131	-59.779	57.863	21.676	1.00	49.28	C
ATOM	1011	CG	ASP	131	-60.307	59.228	21.251	1.00	49.28	C
ATOM	1012	OD1	ASP	131	-60.050	59.641	20.089	1.00	49.28	O
ATOM	1013	OD2	ASP	131	-60.980	59.879	22.095	1.00	49.28	O
ATOM	1014	C	ASP	131	-58.013	57.791	19.971	1.00	49.28	C
ATOM	1015	O	ASP	131	-57.094	58.037	20.749	1.00	49.28	O
ATOM	1016	N	VAL	132	-57.970	58.128	18.672	1.00	63.12	N
ATOM	1017	CA	VAL	132	-56.812	58.675	18.025	1.00	63.12	C
ATOM	1018	CB	VAL	132	-57.020	58.836	16.546	1.00	63.12	C
ATOM	1019	CG1	VAL	132	-57.284	57.447	15.940	1.00	63.12	C
ATOM	1020	CG2	VAL	132	-58.159	59.843	16.308	1.00	63.12	C
ATOM	1021	C	VAL	132	-56.454	60.018	18.586	1.00	63.12	C
ATOM	1022	O	VAL	132	-55.279	60.381	18.634	1.00	63.12	O
ATOM	1023	N	PHE	133	-57.451	60.810	19.010	1.00	88.78	N
ATOM	1024	CA	PHE	133	-57.135	62.126	19.487	1.00	88.78	C
ATOM	1025	CB	PHE	133	-58.364	62.958	19.882	1.00	88.78	C
ATOM	1026	CG	PHE	133	-58.988	63.418	18.611	1.00	88.78	C
ATOM	1027	CD1	PHE	133	-58.455	64.501	17.960	1.00	88.78	C
ATOM	1028	CD2	PHE	133	-60.066	62.776	18.051	1.00	88.78	C
ATOM	1029	CE1	PHE	133	-58.997	64.955	16.782	1.00	88.78	C
ATOM	1030	CE2	PHE	133	-60.613	63.227	16.872	1.00	88.78	C
ATOM	1031	CZ	PHE	133	-60.082	64.320	16.233	1.00	88.78	C
ATOM	1032	C	PHE	133	-56.226	62.036	20.669	1.00	88.78	C
ATOM	1033	O	PHE	133	-55.308	62.841	20.814	1.00	88.78	O
ATOM	1034	N	HIS	134	-56.498	61.081	21.567	1.00	90.19	N
ATOM	1035	CA	HIS	134	-55.741	60.870	22.768	1.00	90.19	C
ATOM	1036	ND1	HIS	134	-58.883	60.883	23.573	1.00	90.19	N
ATOM	1037	CG	HIS	134	-57.722	60.723	24.297	1.00	90.19	C
ATOM	1038	CB	HIS	134	-56.504	60.008	23.786	1.00	90.19	C
ATOM	1039	NE2	HIS	134	-59.207	61.899	25.524	1.00	90.19	N
ATOM	1040	CD2	HIS	134	-57.938	61.350	25.487	1.00	90.19	C
ATOM	1041	CE1	HIS	134	-59.737	61.594	24.353	1.00	90.19	C
ATOM	1042	C	HIS	134	-54.397	60.249	22.498	1.00	90.19	C
ATOM	1043	O	HIS	134	-53.464	60.447	23.271	1.00	90.19	O
ATOM	1044	N	MET	135	-54.269	59.463	21.412	1.00166.55		N
ATOM	1045	CA	MET	135	-53.090	58.700	21.078	1.00166.55		C
ATOM	1046	CB	MET	135	-53.305	57.914	19.771	1.00166.55		C
ATOM	1047	CG	MET	135	-52.116	57.082	19.289	1.00166.55		C
ATOM	1048	SD	MET	135	-51.803	55.559	20.223	1.00166.55		S
ATOM	1049	CE	MET	135	-50.693	54.868	18.963	1.00166.55		C
ATOM	1050	C	MET	135	-51.884	59.573	20.858	1.00166.55		C
ATOM	1051	O	MET	135	-51.948	60.595	20.179	1.00166.55		O
ATOM	1052	N	ALA	136	-50.729	59.156	21.435	1.00	79.47	N
ATOM	1053	CA	ALA	136	-49.484	59.857	21.269	1.00	79.47	C
ATOM	1054	CB	ALA	136	-48.416	59.464	22.304	1.00	79.47	C
ATOM	1055	C	ALA	136	-48.950	59.512	19.912	1.00	79.47	C
ATOM	1056	O	ALA	136	-49.141	58.395	19.432	1.00	79.47	O
ATOM	1057	N	ALA	137	-48.241	60.463	19.265	1.00	50.21	N
ATOM	1058	CA	ALA	137	-47.764	60.236	17.935	1.00	50.21	C
ATOM	1059	CB	ALA	137	-47.228	61.500	17.237	1.00	50.21	C
ATOM	1060	C	ALA	137	-46.655	59.240	17.970	1.00	50.21	C

ATOM	1061	O	ALA	137	-45.974	59.073	18.979	1.00	50.21	O
ATOM	1062	N	GLU	138	-46.479	58.525	16.843	1.00	122.89	N
ATOM	1063	CA	GLU	138	-45.450	57.541	16.721	1.00	122.89	C
ATOM	1064	CB	GLU	138	-45.989	56.104	16.822	1.00	122.89	C
ATOM	1065	CG	GLU	138	-47.145	55.811	15.868	1.00	122.89	C
ATOM	1066	CD	GLU	138	-47.756	54.479	16.279	1.00	122.89	C
ATOM	1067	OE1	GLU	138	-47.326	53.930	17.328	1.00	122.89	O
ATOM	1068	OE2	GLU	138	-48.666	53.997	15.554	1.00	122.89	O
ATOM	1069	C	GLU	138	-44.829	57.763	15.388	1.00	122.89	C
ATOM	1070	O	GLU	138	-45.453	58.360	14.517	1.00	122.89	O
ATOM	1071	N	PRO	139	-43.609	57.347	15.200	1.00	97.37	N
ATOM	1072	CA	PRO	139	-42.947	57.578	13.945	1.00	97.37	C
ATOM	1073	CD	PRO	139	-42.671	57.174	16.291	1.00	97.37	C
ATOM	1074	CB	PRO	139	-41.454	57.362	14.206	1.00	97.37	C
ATOM	1075	CG	PRO	139	-41.392	56.688	15.590	1.00	97.37	C
ATOM	1076	C	PRO	139	-43.511	56.700	12.877	1.00	97.37	C
ATOM	1077	O	PRO	139	-43.864	55.560	13.176	1.00	97.37	O
ATOM	1078	N	CYS	140	-43.620	57.214	11.633	1.00	99.40	N
ATOM	1079	CA	CYS	140	-44.098	56.393	10.558	1.00	99.40	C
ATOM	1080	CB	CYS	140	-45.624	56.173	10.531	1.00	99.40	C
ATOM	1081	SG	CYS	140	-46.580	57.604	9.955	1.00	99.40	S
ATOM	1082	C	CYS	140	-43.704	57.020	9.254	1.00	99.40	C
ATOM	1083	O	CYS	140	-43.466	58.223	9.179	1.00	99.40	O
ATOM	1084	N	ASP	141	-43.527	56.179	8.213	1.00	98.78	N
ATOM	1085	CA	ASP	141	-43.210	56.593	6.870	1.00	98.78	C
ATOM	1086	CB	ASP	141	-42.747	55.432	5.972	1.00	98.78	C
ATOM	1087	CG	ASP	141	-41.465	54.829	6.513	1.00	98.78	C
ATOM	1088	OD1	ASP	141	-41.088	55.173	7.662	1.00	98.78	O
ATOM	1089	OD2	ASP	141	-40.848	54.008	5.783	1.00	98.78	O
ATOM	1090	C	ASP	141	-44.429	57.119	6.170	1.00	98.78	C
ATOM	1091	O	ASP	141	-44.346	58.049	5.371	1.00	98.78	O
ATOM	1092	N	THR	142	-45.596	56.483	6.411	1.00	86.71	N
ATOM	1093	CA	THR	142	-46.799	56.843	5.708	1.00	86.71	C
ATOM	1094	CB	THR	142	-47.229	55.785	4.733	1.00	86.71	C
ATOM	1095	OG1	THR	142	-46.193	55.547	3.791	1.00	86.71	O
ATOM	1096	CG2	THR	142	-48.501	56.252	4.007	1.00	86.71	C
ATOM	1097	C	THR	142	-47.901	57.022	6.713	1.00	86.71	C
ATOM	1098	O	THR	142	-48.080	56.199	7.610	1.00	86.71	O
ATOM	1099	N	LEU	143	-48.693	58.105	6.564	1.00	169.26	N
ATOM	1100	CA	LEU	143	-49.692	58.428	7.548	1.00	169.26	C
ATOM	1101	CB	LEU	143	-49.419	59.827	8.140	1.00	169.26	C
ATOM	1102	CG	LEU	143	-50.161	60.209	9.434	1.00	169.26	C
ATOM	1103	CD1	LEU	143	-51.680	60.065	9.314	1.00	169.26	C
ATOM	1104	CD2	LEU	143	-49.561	59.499	10.651	1.00	169.26	C
ATOM	1105	C	LEU	143	-51.029	58.497	6.858	1.00	169.26	C
ATOM	1106	O	LEU	143	-51.181	59.230	5.880	1.00	169.26	O
ATOM	1107	N	LEU	144	-52.044	57.744	7.349	1.00	126.43	N
ATOM	1108	CA	LEU	144	-53.333	57.789	6.710	1.00	126.43	C
ATOM	1109	CB	LEU	144	-53.734	56.471	6.031	1.00	126.43	C
ATOM	1110	CG	LEU	144	-52.683	56.012	5.008	1.00	126.43	C
ATOM	1111	CD1	LEU	144	-51.441	55.462	5.717	1.00	126.43	C
ATOM	1112	CD2	LEU	144	-53.261	55.043	3.976	1.00	126.43	C
ATOM	1113	C	LEU	144	-54.388	58.119	7.726	1.00	126.43	C
ATOM	1114	O	LEU	144	-54.325	57.673	8.871	1.00	126.43	O
ATOM	1115	N	CYS	145	-55.389	58.941	7.333	1.00	82.52	N
ATOM	1116	CA	CYS	145	-56.441	59.292	8.253	1.00	82.52	C
ATOM	1117	CB	CYS	145	-56.129	60.581	9.033	1.00	82.52	C
ATOM	1118	SG	CYS	145	-57.438	61.041	10.205	1.00	82.52	S
ATOM	1119	C	CYS	145	-57.729	59.530	7.507	1.00	82.52	C
ATOM	1120	O	CYS	145	-57.827	60.443	6.691	1.00	82.52	O
ATOM	1121	N	ASP	146	-58.713	58.632	7.712	1.00	135.13	N
ATOM	1122	CA	ASP	146	-60.062	58.621	7.193	1.00	135.13	C
ATOM	1123	CB	ASP	146	-60.561	57.211	6.847	1.00	135.13	C
ATOM	1124	CG	ASP	146	-61.670	57.376	5.816	1.00	135.13	C
ATOM	1125	OD1	ASP	146	-61.856	58.526	5.334	1.00	135.13	O
ATOM	1126	OD2	ASP	146	-62.338	56.359	5.490	1.00	135.13	O

ATOM	1127	C	ASP	146	-61.086	59.252	8.116	1.00135.13	C
ATOM	1128	O	ASP	146	-62.279	59.097	7.864	1.00135.13	O
ATOM	1129	N	ILE	147	-60.685	59.823	9.275	1.00152.42	N
ATOM	1130	CA	ILE	147	-61.606	60.284	10.296	1.00152.42	C
ATOM	1131	CB	ILE	147	-60.906	60.620	11.585	1.00152.42	C
ATOM	1132	CG1	ILE	147	-60.127	59.415	12.143	1.00152.42	C
ATOM	1133	CG2	ILE	147	-61.957	61.176	12.561	1.00152.42	C
ATOM	1134	CD1	ILE	147	-61.003	58.246	12.580	1.00152.42	C
ATOM	1135	C	ILE	147	-62.341	61.544	9.919	1.00152.42	C
ATOM	1136	O	ILE	147	-61.745	62.521	9.467	1.00152.42	O
ATOM	1137	N	GLY	148	-63.681	61.547	10.127	1.0096.49	N
ATOM	1138	CA	GLY	148	-64.496	62.712	9.909	1.0096.49	C
ATOM	1139	C	GLY	148	-65.932	62.281	9.940	1.0096.49	C
ATOM	1140	O	GLY	148	-66.377	61.522	9.082	1.0096.49	O
ATOM	1141	N	GLU	149	-66.711	62.793	10.918	1.0058.55	N
ATOM	1142	CA	GLU	149	-68.096	62.422	11.008	1.0058.55	C
ATOM	1143	CB	GLU	149	-68.577	62.138	12.443	1.0058.55	C
ATOM	1144	CG	GLU	149	-70.027	61.651	12.515	1.0058.55	C
ATOM	1145	CD	GLU	149	-70.415	61.492	13.979	1.0058.55	C
ATOM	1146	OE1	GLU	149	-69.611	61.907	14.856	1.0058.55	O
ATOM	1147	OE2	GLU	149	-71.525	60.957	14.242	1.0058.55	O
ATOM	1148	C	GLU	149	-68.899	63.569	10.493	1.0058.55	C
ATOM	1149	O	GLU	149	-68.753	64.700	10.951	1.0058.55	O
ATOM	1150	N	SER	150	-69.794	63.285	9.530	1.0078.69	N
ATOM	1151	CA	SER	150	-70.570	64.310	8.900	1.0078.69	C
ATOM	1152	CB	SER	150	-71.264	63.813	7.619	1.0078.69	C
ATOM	1153	OG	SER	150	-71.924	64.882	6.959	1.0078.69	O
ATOM	1154	C	SER	150	-71.611	64.795	9.859	1.0078.69	C
ATOM	1155	O	SER	150	-71.894	64.153	10.869	1.0078.69	O
ATOM	1156	N	SER	151	-72.176	65.987	9.581	1.0045.90	N
ATOM	1157	CA	SER	151	-73.193	66.551	10.422	1.0045.90	C
ATOM	1158	CB	SER	151	-72.618	67.265	11.652	1.0045.90	C
ATOM	1159	OG	SER	151	-73.661	67.810	12.445	1.0045.90	O
ATOM	1160	C	SER	151	-73.932	67.564	9.601	1.0045.90	C
ATOM	1161	O	SER	151	-73.384	68.137	8.662	1.0045.90	O
ATOM	1162	N	SER	152	-75.208	67.815	9.949	1.0077.71	N
ATOM	1163	CA	SER	152	-76.035	68.722	9.203	1.0077.71	C
ATOM	1164	CB	SER	152	-77.496	68.742	9.684	1.0077.71	C
ATOM	1165	OG	SER	152	-78.111	67.487	9.432	1.0077.71	O
ATOM	1166	C	SER	152	-75.512	70.118	9.339	1.0077.71	C
ATOM	1167	O	SER	152	-75.715	70.946	8.451	1.0077.71	O
ATOM	1168	N	SER	153	-74.819	70.418	10.454	1.0053.14	N
ATOM	1169	CA	SER	153	-74.343	71.754	10.682	1.0053.14	C
ATOM	1170	CB	SER	153	-74.294	72.122	12.177	1.0053.14	C
ATOM	1171	OG	SER	153	-73.738	73.417	12.351	1.0053.14	O
ATOM	1172	C	SER	153	-72.942	71.870	10.170	1.0053.14	C
ATOM	1173	O	SER	153	-72.058	71.103	10.547	1.0053.14	O
ATOM	1174	N	PRO	154	-72.728	72.823	9.302	1.00133.23	N
ATOM	1175	CA	PRO	154	-71.417	73.060	8.768	1.00133.23	C
ATOM	1176	CD	PRO	154	-73.776	73.260	8.394	1.00133.23	C
ATOM	1177	CB	PRO	154	-71.610	74.051	7.622	1.00133.23	C
ATOM	1178	CG	PRO	154	-73.046	73.775	7.142	1.00133.23	C
ATOM	1179	C	PRO	154	-70.507	73.566	9.835	1.00133.23	C
ATOM	1180	O	PRO	154	-69.295	73.401	9.719	1.00133.23	O
ATOM	1181	N	GLU	155	-71.073	74.217	10.864	1.00106.04	N
ATOM	1182	CA	GLU	155	-70.284	74.764	11.924	1.00106.04	C
ATOM	1183	CB	GLU	155	-71.126	75.589	12.911	1.00106.04	C
ATOM	1184	CG	GLU	155	-70.288	76.386	13.909	1.00106.04	C
ATOM	1185	CD	GLU	155	-69.660	77.550	13.156	1.00106.04	C
ATOM	1186	OE1	GLU	155	-69.796	77.588	11.903	1.00106.04	O
ATOM	1187	OE2	GLU	155	-69.037	78.417	13.823	1.00106.04	O
ATOM	1188	C	GLU	155	-69.665	73.639	12.680	1.00106.04	C
ATOM	1189	O	GLU	155	-68.506	73.713	13.086	1.00106.04	O
ATOM	1190	N	VAL	156	-70.444	72.565	12.908	1.00103.78	N
ATOM	1191	CA	VAL	156	-69.939	71.456	13.658	1.00103.78	C
ATOM	1192	CB	VAL	156	-70.991	70.466	14.060	1.00103.78	C

ATOM	1193	CG1 VAL	156	-71.455	69.696	12.823	1.00103.78	C
ATOM	1194	CG2 VAL	156	-70.408	69.572	15.160	1.00103.78	C
ATOM	1195	C VAL	156	-68.882	70.748	12.869	1.00103.78	C
ATOM	1196	O VAL	156	-67.857	70.346	13.419	1.00103.78	O
ATOM	1197	N GLU	157	-69.097	70.582	11.549	1.00 51.96	N
ATOM	1198	CA GLU	157	-68.157	69.873	10.729	1.00 51.96	C
ATOM	1199	CB GLU	157	-68.635	69.670	9.279	1.00 51.96	C
ATOM	1200	CG GLU	157	-69.800	68.682	9.175	1.00 51.96	C
ATOM	1201	CD GLU	157	-70.174	68.512	7.708	1.00 51.96	C
ATOM	1202	OE1 GLU	157	-69.581	69.223	6.854	1.00 51.96	O
ATOM	1203	OE2 GLU	157	-71.058	67.661	7.423	1.00 51.96	O
ATOM	1204	C GLU	157	-66.873	70.636	10.706	1.00 51.96	C
ATOM	1205	O GLU	157	-65.796	70.041	10.660	1.00 51.96	O
ATOM	1206	N GLU	158	-66.945	71.981	10.724	1.00 89.32	N
ATOM	1207	CA GLU	158	-65.726	72.732	10.669	1.00 89.32	C
ATOM	1208	CB GLU	158	-65.892	74.260	10.544	1.00 89.32	C
ATOM	1209	CG GLU	158	-66.346	74.983	11.812	1.00 89.32	C
ATOM	1210	CD GLU	158	-66.128	76.473	11.579	1.00 89.32	C
ATOM	1211	OE1 GLU	158	-66.668	77.002	10.571	1.00 89.32	O
ATOM	1212	OE2 GLU	158	-65.407	77.101	12.400	1.00 89.32	O
ATOM	1213	C GLU	158	-64.914	72.472	11.899	1.00 89.32	C
ATOM	1214	O GLU	158	-63.696	72.334	11.819	1.00 89.32	O
ATOM	1215	N THR	159	-65.559	72.403	13.079	1.00101.09	N
ATOM	1216	CA THR	159	-64.819	72.193	14.292	1.00101.09	C
ATOM	1217	CB THR	159	-65.673	72.263	15.526	1.00101.09	C
ATOM	1218	OG1 THR	159	-66.638	71.221	15.518	1.00101.09	O
ATOM	1219	CG2 THR	159	-66.370	73.633	15.567	1.00101.09	C
ATOM	1220	C THR	159	-64.201	70.832	14.260	1.00101.09	C
ATOM	1221	O THR	159	-63.054	70.646	14.662	1.00101.09	O
ATOM	1222	N ARG	160	-64.970	69.842	13.779	1.00154.00	N
ATOM	1223	CA ARG	160	-64.561	68.470	13.756	1.00154.00	C
ATOM	1224	CB ARG	160	-65.723	67.585	13.276	1.00154.00	C
ATOM	1225	CG ARG	160	-65.654	66.127	13.719	1.00154.00	C
ATOM	1226	CD ARG	160	-67.002	65.412	13.580	1.00154.00	C
ATOM	1227	NE ARG	160	-67.968	66.104	14.483	1.00154.00	N
ATOM	1228	CZ ARG	160	-69.288	65.753	14.476	1.00154.00	C
ATOM	1229	NH1 ARG	160	-69.731	64.776	13.635	1.00154.00	N
ATOM	1230	NH2 ARG	160	-70.168	66.375	15.314	1.00154.00	N
ATOM	1231	C ARG	160	-63.387	68.318	12.836	1.00154.00	C
ATOM	1232	O ARG	160	-62.429	67.608	13.139	1.00154.00	O
ATOM	1233	N THR	161	-63.433	68.990	11.674	1.00141.07	N
ATOM	1234	CA THR	161	-62.373	68.875	10.721	1.00141.07	C
ATOM	1235	CB THR	161	-62.776	69.429	9.387	1.00141.07	C
ATOM	1236	OG1 THR	161	-61.748	69.251	8.430	1.00141.07	O
ATOM	1237	CG2 THR	161	-63.147	70.901	9.547	1.00141.07	C
ATOM	1238	C THR	161	-61.116	69.505	11.259	1.00141.07	C
ATOM	1239	O THR	161	-60.031	68.943	11.120	1.00141.07	O
ATOM	1240	N LEU	162	-61.229	70.666	11.934	1.00136.95	N
ATOM	1241	CA LEU	162	-60.096	71.380	12.457	1.00136.95	C
ATOM	1242	CB LEU	162	-60.528	72.724	13.080	1.00136.95	C
ATOM	1243	CG LEU	162	-59.381	73.644	13.538	1.00136.95	C
ATOM	1244	CD1 LEU	162	-58.657	73.081	14.767	1.00136.95	C
ATOM	1245	CD2 LEU	162	-58.429	73.969	12.376	1.00136.95	C
ATOM	1246	C LEU	162	-59.414	70.529	13.493	1.00136.95	C
ATOM	1247	O LEU	162	-58.185	70.499	13.566	1.00136.95	O
ATOM	1248	N ARG	163	-60.193	69.799	14.318	1.00179.49	N
ATOM	1249	CA ARG	163	-59.613	68.976	15.347	1.00179.49	C
ATOM	1250	CB ARG	163	-60.626	68.164	16.169	1.00179.49	C
ATOM	1251	CG ARG	163	-61.273	68.897	17.338	1.00179.49	C
ATOM	1252	CD ARG	163	-62.094	67.962	18.231	1.00179.49	C
ATOM	1253	NE ARG	163	-61.186	66.883	18.716	1.00179.49	N
ATOM	1254	CZ ARG	163	-60.451	67.061	19.853	1.00179.49	C
ATOM	1255	NH1 ARG	163	-60.544	68.230	20.549	1.00179.49	N
ATOM	1256	NH2 ARG	163	-59.626	66.069	20.299	1.00179.49	N
ATOM	1257	C ARG	163	-58.743	67.941	14.717	1.00179.49	C
ATOM	1258	O ARG	163	-57.666	67.635	15.226	1.00179.49	O

ATOM	1259	N	VAL	164	-59.212	67.342	13.608	1.00	50.40	N
ATOM	1260	CA	VAL	164	-58.470	66.302	12.961	1.00	50.40	C
ATOM	1261	CB	VAL	164	-59.210	65.684	11.811	1.00	50.40	C
ATOM	1262	CG1	VAL	164	-58.271	64.688	11.106	1.00	50.40	C
ATOM	1263	CG2	VAL	164	-60.502	65.046	12.351	1.00	50.40	C
ATOM	1264	C	VAL	164	-57.182	66.849	12.428	1.00	50.40	C
ATOM	1265	O	VAL	164	-56.127	66.249	12.623	1.00	50.40	O
ATOM	1266	N	LEU	165	-57.223	68.019	11.761	1.00110.46	N	
ATOM	1267	CA	LEU	165	-56.027	68.562	11.183	1.00110.46	C	
ATOM	1268	CB	LEU	165	-56.230	69.840	10.351	1.00110.46	C	
ATOM	1269	CG	LEU	165	-56.836	69.591	8.955	1.00110.46	C	
ATOM	1270	CD1	LEU	165	-58.309	69.175	9.008	1.00110.46	C	
ATOM	1271	CD2	LEU	165	-56.587	70.785	8.030	1.00110.46	C	
ATOM	1272	C	LEU	165	-55.037	68.859	12.258	1.00110.46	C	
ATOM	1273	O	LEU	165	-53.839	68.653	12.072	1.00110.46	O	
ATOM	1274	N	SER	166	-55.497	69.365	13.413	1.00	72.08	N
ATOM	1275	CA	SER	166	-54.574	69.663	14.467	1.00	72.08	C
ATOM	1276	CB	SER	166	-55.244	70.331	15.679	1.00	72.08	C
ATOM	1277	OG	SER	166	-54.277	70.597	16.685	1.00	72.08	O
ATOM	1278	C	SER	166	-53.948	68.379	14.937	1.00	72.08	C
ATOM	1279	O	SER	166	-52.766	68.348	15.273	1.00	72.08	O
ATOM	1280	N	MET	167	-54.737	67.288	14.995	1.00127.09	N	
ATOM	1281	CA	MET	167	-54.268	66.009	15.468	1.00127.09	C	
ATOM	1282	CB	MET	167	-55.405	64.976	15.578	1.00127.09	C	
ATOM	1283	CG	MET	167	-54.928	63.613	16.080	1.00127.09	C	
ATOM	1284	SD	MET	167	-56.214	62.336	16.165	1.00127.09	S	
ATOM	1285	CE	MET	167	-56.502	62.232	14.374	1.00127.09	C	
ATOM	1286	C	MET	167	-53.239	65.406	14.552	1.00127.09	C	
ATOM	1287	O	MET	167	-52.211	64.900	15.002	1.00127.09	O	
ATOM	1288	N	VAL	168	-53.497	65.455	13.232	1.00143.11	N	
ATOM	1289	CA	VAL	168	-52.688	64.824	12.223	1.00143.11	C	
ATOM	1290	CB	VAL	168	-53.290	64.959	10.857	1.00143.11	C	
ATOM	1291	CG1	VAL	168	-52.377	64.243	9.857	1.00143.11	C	
ATOM	1292	CG2	VAL	168	-54.744	64.470	10.880	1.00143.11	C	
ATOM	1293	C	VAL	168	-51.346	65.493	12.145	1.00143.11	C	
ATOM	1294	O	VAL	168	-50.348	64.864	11.796	1.00143.11	O	
ATOM	1295	N	GLY	169	-51.303	66.805	12.440	1.00	39.71	N
ATOM	1296	CA	GLY	169	-50.110	67.586	12.294	1.00	39.71	C
ATOM	1297	C	GLY	169	-49.008	67.028	13.140	1.00	39.71	C
ATOM	1298	O	GLY	169	-47.854	67.001	12.713	1.00	39.71	O
ATOM	1299	N	ASP	170	-49.323	66.575	14.367	1.00	49.24	N
ATOM	1300	CA	ASP	170	-48.293	66.073	15.231	1.00	49.24	C
ATOM	1301	CB	ASP	170	-48.822	65.658	16.614	1.00	49.24	C
ATOM	1302	CG	ASP	170	-49.251	66.926	17.340	1.00	49.24	C
ATOM	1303	OD1	ASP	170	-49.142	68.021	16.728	1.00	49.24	O
ATOM	1304	OD2	ASP	170	-49.688	66.816	18.517	1.00	49.24	O
ATOM	1305	C	ASP	170	-47.666	64.867	14.596	1.00	49.24	C
ATOM	1306	O	ASP	170	-46.459	64.660	14.705	1.00	49.24	O
ATOM	1307	N	TRP	171	-48.482	64.025	13.934	1.00	99.04	N
ATOM	1308	CA	TRP	171	-48.013	62.827	13.285	1.00	99.04	C
ATOM	1309	CB	TRP	171	-49.183	61.970	12.774	1.00	99.04	C
ATOM	1310	CG	TRP	171	-50.070	61.470	13.893	1.00	99.04	C
ATOM	1311	CD2	TRP	171	-49.987	60.165	14.486	1.00	99.04	C
ATOM	1312	CD1	TRP	171	-51.083	62.121	14.535	1.00	99.04	C
ATOM	1313	NE1	TRP	171	-51.630	61.308	15.496	1.00	99.04	N
ATOM	1314	CE2	TRP	171	-50.967	60.100	15.476	1.00	99.04	C
ATOM	1315	CE3	TRP	171	-49.162	59.107	14.229	1.00	99.04	C
ATOM	1316	CZ2	TRP	171	-51.138	58.973	16.227	1.00	99.04	C
ATOM	1317	CZ3	TRP	171	-49.337	57.972	14.988	1.00	99.04	C
ATOM	1318	CH2	TRP	171	-50.306	57.906	15.968	1.00	99.04	C
ATOM	1319	C	TRP	171	-47.129	63.177	12.120	1.00	99.04	C
ATOM	1320	O	TRP	171	-46.124	62.514	11.870	1.00	99.04	O
ATOM	1321	N	LEU	172	-47.500	64.214	11.350	1.00139.89	N	
ATOM	1322	CA	LEU	172	-46.737	64.637	10.206	1.00139.89	C	
ATOM	1323	CB	LEU	172	-47.480	65.712	9.394	1.00139.89	C	
ATOM	1324	CG	LEU	172	-48.848	65.213	8.878	1.00139.89	C	

ATOM	1325	CD1 LEU	172	-49.577	66.284	8.052	1.00139.89	C
ATOM	1326	CD2 LEU	172	-48.714	63.877	8.131	1.00139.89	C
ATOM	1327	C LEU	172	-45.426	65.191	10.692	1.00139.89	C
ATOM	1328	O LEU	172	-44.406	65.090	10.010	1.00139.89	O
ATOM	1329	N GLU	173	-45.424	65.766	11.912	1.00175.54	N
ATOM	1330	CA GLU	173	-44.278	66.401	12.504	1.00175.54	C
ATOM	1331	CB GLU	173	-44.519	66.869	13.949	1.00175.54	C
ATOM	1332	CG GLU	173	-45.506	68.028	14.076	1.00175.54	C
ATOM	1333	CD GLU	173	-45.625	68.360	15.557	1.00175.54	C
ATOM	1334	OE1 GLU	173	-45.005	67.631	16.375	1.00175.54	O
ATOM	1335	OE2 GLU	173	-46.338	69.345	15.888	1.00175.54	O
ATOM	1336	C GLU	173	-43.164	65.417	12.548	1.00175.54	C
ATOM	1337	O GLU	173	-41.994	65.796	12.507	1.00175.54	O
ATOM	1338	N LYS	174	-43.475	64.116	12.681	1.00388.59	N
ATOM	1339	CA LYS	174	-42.371	63.219	12.587	1.00388.59	C
ATOM	1340	CB LYS	174	-42.535	61.861	13.309	1.00388.59	C
ATOM	1341	CG LYS	174	-43.908	61.192	13.277	1.00388.59	C
ATOM	1342	CD LYS	174	-44.230	60.528	11.949	1.00388.59	C
ATOM	1343	CE LYS	174	-45.315	59.460	12.024	1.00388.59	C
ATOM	1344	NZ LYS	174	-46.551	59.976	12.653	1.00388.59	N
ATOM	1345	C LYS	174	-42.025	63.142	11.117	1.00388.59	C
ATOM	1346	O LYS	174	-42.094	64.127	10.394	1.00388.59	O
ATOM	1347	N ARG	175	-41.541	62.007	10.632	1.00284.66	N
ATOM	1348	CA ARG	175	-41.048	61.853	9.288	1.00284.66	C
ATOM	1349	CB ARG	175	-40.018	60.711	9.143	1.00284.66	C
ATOM	1350	CG ARG	175	-40.527	59.310	9.497	1.00284.66	C
ATOM	1351	CD ARG	175	-39.452	58.229	9.331	1.00284.66	C
ATOM	1352	NE ARG	175	-40.051	56.921	9.722	1.00284.66	N
ATOM	1353	NZ ARG	175	-39.309	55.776	9.655	1.00284.66	C
ATOM	1354	NH1 ARG	175	-38.019	55.817	9.209	1.00284.66	N
ATOM	1355	NH2 ARG	175	-39.866	54.584	10.016	1.00284.66	N
ATOM	1356	C ARG	175	-42.026	61.704	8.143	1.00284.66	C
ATOM	1357	O ARG	175	-41.575	61.957	7.027	1.00284.66	O
ATOM	1358	N PRO	176	-43.275	61.298	8.287	1.00221.50	N
ATOM	1359	CA PRO	176	-44.078	60.857	7.157	1.00221.50	C
ATOM	1360	CD PRO	176	-44.116	61.929	9.287	1.00221.50	C
ATOM	1361	CB PRO	176	-45.508	60.769	7.678	1.00221.50	C
ATOM	1362	CG PRO	176	-45.547	61.893	8.725	1.00221.50	C
ATOM	1363	C PRO	176	-44.033	61.690	5.915	1.00221.50	C
ATOM	1364	O PRO	176	-44.648	62.755	5.860	1.00221.50	O
ATOM	1365	N GLY	177	-43.300	61.181	4.908	1.00155.82	N
ATOM	1366	CA GLY	177	-43.169	61.761	3.618	1.00155.82	C
ATOM	1367	C GLY	177	-44.458	61.613	2.882	1.00155.82	C
ATOM	1368	O GLY	177	-44.857	62.497	2.126	1.00155.82	O
ATOM	1369	N ALA	178	-45.129	60.459	3.066	1.00 53.78	N
ATOM	1370	CA ALA	178	-46.332	60.212	2.332	1.00 53.78	C
ATOM	1371	CB ALA	178	-46.355	58.836	1.642	1.00 53.78	C
ATOM	1372	C ALA	178	-47.499	60.261	3.267	1.00 53.78	C
ATOM	1373	O ALA	178	-47.426	59.772	4.395	1.00 53.78	O
ATOM	1374	N PHE	179	-48.611	60.890	2.822	1.00100.14	N
ATOM	1375	CA PHE	179	-49.773	60.927	3.659	1.00100.14	C
ATOM	1376	CB PHE	179	-49.719	61.953	4.813	1.00100.14	C
ATOM	1377	CG PHE	179	-49.496	63.321	4.270	1.00100.14	C
ATOM	1378	CD1 PHE	179	-50.542	64.075	3.790	1.00100.14	C
ATOM	1379	CD2 PHE	179	-48.227	63.853	4.261	1.00100.14	C
ATOM	1380	CE1 PHE	179	-50.317	65.338	3.294	1.00100.14	C
ATOM	1381	CE2 PHE	179	-47.997	65.115	3.767	1.00100.14	C
ATOM	1382	CZ PHE	179	-49.044	65.858	3.281	1.00100.14	C
ATOM	1383	C PHE	179	-51.003	61.160	2.840	1.00100.14	C
ATOM	1384	O PHE	179	-50.944	61.641	1.708	1.00100.14	O
ATOM	1385	N CYS	180	-52.158	60.760	3.411	1.00 75.03	N
ATOM	1386	CA CYS	180	-53.442	60.914	2.795	1.00 75.03	C
ATOM	1387	CB CYS	180	-53.891	59.660	2.022	1.00 75.03	C
ATOM	1388	SG CYS	180	-55.522	59.847	1.242	1.00 75.03	S
ATOM	1389	C CYS	180	-54.403	61.117	3.922	1.00 75.03	C
ATOM	1390	O CYS	180	-54.726	60.182	4.651	1.00 75.03	O

ATOM	1391	N	ILE	181	-54.908	62.351	4.073	1.00208.80	N
ATOM	1392	CA	ILE	181	-55.726	62.675	5.203	1.00208.80	C
ATOM	1393	CB	ILE	181	-54.965	63.663	6.054	1.00208.80	C
ATOM	1394	CG1	ILE	181	-55.610	63.965	7.399	1.00208.80	C
ATOM	1395	CG2	ILE	181	-54.756	64.923	5.207	1.00208.80	C
ATOM	1396	CD1	ILE	181	-56.817	64.884	7.272	1.00208.80	C
ATOM	1397	C	ILE	181	-57.035	63.230	4.710	1.00208.80	C
ATOM	1398	O	ILE	181	-57.073	64.079	3.823	1.00208.80	O
ATOM	1399	N	LYS	182	-58.154	62.728	5.274	1.00 80.41	N
ATOM	1400	CA	LYS	182	-59.493	63.104	4.893	1.00 80.41	C
ATOM	1401	CB	LYS	182	-60.531	62.135	5.485	1.00 80.41	C
ATOM	1402	CG	LYS	182	-61.991	62.487	5.201	1.00 80.41	C
ATOM	1403	CD	LYS	182	-62.965	61.425	5.721	1.00 80.41	C
ATOM	1404	CE	LYS	182	-64.431	61.861	5.699	1.00 80.41	C
ATOM	1405	NZ	LYS	182	-65.291	60.775	6.220	1.00 80.41	N
ATOM	1406	C	LYS	182	-59.819	64.464	5.437	1.00 80.41	C
ATOM	1407	O	LYS	182	-59.592	64.741	6.613	1.00 80.41	O
ATOM	1408	N	VAL	183	-60.361	65.363	4.584	1.00 70.00	N
ATOM	1409	CA	VAL	183	-60.794	66.637	5.088	1.00 70.00	C
ATOM	1410	CB	VAL	183	-60.204	67.816	4.372	1.00 70.00	C
ATOM	1411	CG1	VAL	183	-60.756	69.102	5.013	1.00 70.00	C
ATOM	1412	CG2	VAL	183	-58.671	67.708	4.439	1.00 70.00	C
ATOM	1413	C	VAL	183	-62.281	66.672	4.913	1.00 70.00	C
ATOM	1414	O	VAL	183	-62.789	66.806	3.800	1.00 70.00	O
ATOM	1415	N	LEU	184	-63.008	66.566	6.042	1.00 81.37	N
ATOM	1416	CA	LEU	184	-64.440	66.469	6.075	1.00 81.37	C
ATOM	1417	CB	LEU	184	-64.924	66.342	7.529	1.00 81.37	C
ATOM	1418	CG	LEU	184	-66.445	66.229	7.711	1.00 81.37	C
ATOM	1419	CD1	LEU	184	-66.997	64.925	7.120	1.00 81.37	C
ATOM	1420	CD2	LEU	184	-66.826	66.428	9.187	1.00 81.37	C
ATOM	1421	C	LEU	184	-65.077	67.696	5.497	1.00 81.37	C
ATOM	1422	O	LEU	184	-65.854	67.594	4.546	1.00 81.37	O
ATOM	1423	N	CYS	185	-64.762	68.899	6.027	1.00150.69	N
ATOM	1424	CA	CYS	185	-65.386	70.045	5.426	1.00150.69	C
ATOM	1425	CB	CYS	185	-66.532	70.696	6.235	1.00150.69	C
ATOM	1426	SG	CYS	185	-66.066	71.744	7.638	1.00150.69	S
ATOM	1427	C	CYS	185	-64.333	71.056	5.056	1.00150.69	C
ATOM	1428	O	CYS	185	-63.832	71.826	5.873	1.00150.69	O
ATOM	1429	N	PRO	186	-63.955	71.005	3.805	1.00195.73	N
ATOM	1430	CA	PRO	186	-62.937	71.886	3.280	1.00195.73	C
ATOM	1431	CD	PRO	186	-64.023	69.754	3.066	1.00195.73	C
ATOM	1432	CB	PRO	186	-62.442	71.240	1.989	1.00195.73	C
ATOM	1433	CG	PRO	186	-62.797	69.755	2.142	1.00195.73	C
ATOM	1434	C	PRO	186	-63.379	73.293	3.007	1.00195.73	C
ATOM	1435	O	PRO	186	-62.530	74.180	2.938	1.00195.73	O
ATOM	1436	N	TYR	187	-64.688	73.498	2.784	1.00129.81	N
ATOM	1437	CA	TYR	187	-65.266	74.748	2.365	1.00129.81	C
ATOM	1438	CB	TYR	187	-66.669	74.606	1.740	1.00129.81	C
ATOM	1439	CG	TYR	187	-67.612	73.902	2.655	1.00129.81	C
ATOM	1440	CD1	TYR	187	-68.288	74.577	3.645	1.00129.81	C
ATOM	1441	CD2	TYR	187	-67.831	72.552	2.503	1.00129.81	C
ATOM	1442	CE1	TYR	187	-69.164	73.912	4.471	1.00129.81	C
ATOM	1443	CE2	TYR	187	-68.703	71.881	3.324	1.00129.81	C
ATOM	1444	CZ	TYR	187	-69.372	72.562	4.311	1.00129.81	C
ATOM	1445	OH	TYR	187	-70.271	71.876	5.155	1.00129.81	O
ATOM	1446	C	TYR	187	-65.279	75.820	3.417	1.00129.81	C
ATOM	1447	O	TYR	187	-65.358	77.002	3.081	1.00129.81	O
ATOM	1448	N	THR	188	-65.308	75.457	4.714	1.00120.89	N
ATOM	1449	CA	THR	188	-65.387	76.474	5.730	1.00120.89	C
ATOM	1450	CB	THR	188	-65.716	75.940	7.092	1.00120.89	C
ATOM	1451	OG1	THR	188	-64.737	74.998	7.495	1.00120.89	O
ATOM	1452	CG2	THR	188	-67.104	75.278	7.038	1.00120.89	C
ATOM	1453	C	THR	188	-64.105	77.251	5.801	1.00120.89	C
ATOM	1454	O	THR	188	-63.018	76.717	5.597	1.00120.89	O
ATOM	1455	N	SER	189	-64.228	78.556	6.126	1.00 46.48	N
ATOM	1456	CA	SER	189	-63.148	79.507	6.119	1.00 46.48	C

ATOM	1457	CB	SER	189	-63.619	80.929	6.465	1.00	46.48	C
ATOM	1458	OG	SER	189	-64.150	80.962	7.781	1.00	46.48	O
ATOM	1459	C	SER	189	-62.055	79.136	7.081	1.00	46.48	C
ATOM	1460	O	SER	189	-60.879	79.202	6.732	1.00	46.48	O
ATOM	1461	N	THR	190	-62.405	78.711	8.307	1.00	58.22	N
ATOM	1462	CA	THR	190	-61.415	78.411	9.306	1.00	58.22	C
ATOM	1463	CB	THR	190	-62.025	77.858	10.560	1.00	58.22	C
ATOM	1464	OG1	THR	190	-62.976	78.766	11.090	1.00	58.22	O
ATOM	1465	CG2	THR	190	-60.905	77.600	11.577	1.00	58.22	C
ATOM	1466	C	THR	190	-60.538	77.316	8.794	1.00	58.22	C
ATOM	1467	O	THR	190	-59.323	77.331	8.983	1.00	58.22	O
ATOM	1468	N	MET	191	-61.156	76.311	8.155	1.00127.84		N
ATOM	1469	CA	MET	191	-60.450	75.174	7.648	1.00127.84		C
ATOM	1470	CB	MET	191	-61.388	74.092	7.115	1.00127.84		C
ATOM	1471	CG	MET	191	-61.906	73.207	8.239	1.00127.84		C
ATOM	1472	SD	MET	191	-62.890	74.044	9.518	1.00127.84		S
ATOM	1473	CE	MET	191	-61.455	74.601	10.483	1.00127.84		C
ATOM	1474	C	MET	191	-59.518	75.561	6.552	1.00127.84		C
ATOM	1475	O	MET	191	-58.410	75.036	6.457	1.00127.84		O
ATOM	1476	N	MET	192	-59.933	76.495	5.684	1.00143.08		N
ATOM	1477	CA	MET	192	-59.087	76.848	4.583	1.00143.08		C
ATOM	1478	CB	MET	192	-59.737	77.871	3.627	1.00143.08		C
ATOM	1479	CG	MET	192	-59.878	79.293	4.177	1.00143.08		C
ATOM	1480	SD	MET	192	-58.355	80.289	4.161	1.00143.08		S
ATOM	1481	CE	MET	192	-59.085	81.710	5.024	1.00143.08		C
ATOM	1482	C	MET	192	-57.820	77.423	5.129	1.00143.08		C
ATOM	1483	O	MET	192	-56.736	77.160	4.610	1.00143.08		O
ATOM	1484	N	GLU	193	-57.924	78.216	6.211	1.00	33.42	N
ATOM	1485	CA	GLU	193	-56.766	78.849	6.770	1.00	33.42	C
ATOM	1486	CB	GLU	193	-57.091	79.686	8.020	1.00	33.42	C
ATOM	1487	CG	GLU	193	-57.977	80.903	7.755	1.00	33.42	C
ATOM	1488	CD	GLU	193	-58.236	81.575	9.096	1.00	33.42	C
ATOM	1489	OE1	GLU	193	-57.482	81.281	10.062	1.00	33.42	O
ATOM	1490	OE2	GLU	193	-59.193	82.390	9.174	1.00	33.42	O
ATOM	1491	C	GLU	193	-55.809	77.790	7.218	1.00	33.42	C
ATOM	1492	O	GLU	193	-54.610	77.883	6.960	1.00	33.42	O
ATOM	1493	N	THR	194	-56.318	76.747	7.898	1.00	99.93	N
ATOM	1494	CA	THR	194	-55.457	75.723	8.416	1.00	99.93	C
ATOM	1495	CB	THR	194	-56.150	74.754	9.334	1.00	99.93	C
ATOM	1496	OG1	THR	194	-55.189	73.978	10.034	1.00	99.93	O
ATOM	1497	CG2	THR	194	-57.064	73.831	8.515	1.00	99.93	C
ATOM	1498	C	THR	194	-54.831	74.961	7.286	1.00	99.93	C
ATOM	1499	O	THR	194	-53.660	74.597	7.356	1.00	99.93	O
ATOM	1500	N	MET	195	-55.598	74.693	6.212	1.00	91.09	N
ATOM	1501	CA	MET	195	-55.082	73.949	5.095	1.00	91.09	C
ATOM	1502	CB	MET	195	-56.142	73.653	4.015	1.00	91.09	C
ATOM	1503	CG	MET	195	-57.037	72.455	4.351	1.00	91.09	C
ATOM	1504	SD	MET	195	-56.347	70.836	3.880	1.00	91.09	S
ATOM	1505	CE	MET	195	-54.801	70.950	4.817	1.00	91.09	C
ATOM	1506	C	MET	195	-53.961	74.705	4.455	1.00	91.09	C
ATOM	1507	O	MET	195	-52.953	74.116	4.065	1.00	91.09	O
ATOM	1508	N	GLU	196	-54.105	76.035	4.328	1.00	32.12	N
ATOM	1509	CA	GLU	196	-53.094	76.835	3.699	1.00	32.12	C
ATOM	1510	CB	GLU	196	-53.504	78.314	3.603	1.00	32.12	C
ATOM	1511	CG	GLU	196	-54.699	78.549	2.679	1.00	32.12	C
ATOM	1512	CD	GLU	196	-55.104	80.011	2.801	1.00	32.12	C
ATOM	1513	OE1	GLU	196	-54.500	80.724	3.646	1.00	32.12	O
ATOM	1514	OE2	GLU	196	-56.026	80.432	2.053	1.00	32.12	O
ATOM	1515	C	GLU	196	-51.845	76.765	4.520	1.00	32.12	C
ATOM	1516	O	GLU	196	-50.743	76.665	3.984	1.00	32.12	O
ATOM	1517	N	ARG	197	-51.987	76.824	5.855	1.00129.65		N
ATOM	1518	CA	ARG	197	-50.849	76.796	6.729	1.00129.65		C
ATOM	1519	CB	ARG	197	-51.248	76.890	8.208	1.00129.65		C
ATOM	1520	CG	ARG	197	-51.902	78.213	8.601	1.00129.65		C
ATOM	1521	CD	ARG	197	-52.451	78.215	10.029	1.00129.65		C
ATOM	1522	NE	ARG	197	-51.379	77.700	10.927	1.00129.65		N

ATOM	1523	CZ	ARG	197	-51.556	76.532	11.610	1.00129.65	C
ATOM	1524	NH1	ARG	197	-52.737	75.853	11.511	1.00129.65	N
ATOM	1525	NH2	ARG	197	-50.556	76.046	12.402	1.00129.65	N
ATOM	1526	C	ARG	197	-50.157	75.479	6.580	1.00129.65	C
ATOM	1527	O	ARG	197	-48.935	75.414	6.468	1.00129.65	O
ATOM	1528	N	LEU	198	-50.949	74.392	6.574	1.00 78.83	N
ATOM	1529	CA	LEU	198	-50.455	73.047	6.504	1.00 78.83	C
ATOM	1530	CB	LEU	198	-51.583	72.011	6.639	1.00 78.83	C
ATOM	1531	CG	LEU	198	-52.231	71.989	8.034	1.00 78.83	C
ATOM	1532	CD1	LEU	198	-53.352	70.946	8.111	1.00 78.83	C
ATOM	1533	CD2	LEU	198	-51.174	71.769	9.126	1.00 78.83	C
ATOM	1534	C	LEU	198	-49.786	72.793	5.188	1.00 78.83	C
ATOM	1535	O	LEU	198	-48.774	72.096	5.128	1.00 78.83	O
ATOM	1536	N	GLN	199	-50.348	73.335	4.092	1.00 87.05	N
ATOM	1537	CA	GLN	199	-49.809	73.094	2.785	1.00 87.05	C
ATOM	1538	CB	GLN	199	-50.652	73.704	1.644	1.00 87.05	C
ATOM	1539	CG	GLN	199	-50.702	75.233	1.646	1.00 87.05	C
ATOM	1540	CD	GLN	199	-51.558	75.695	0.475	1.00 87.05	C
ATOM	1541	OE1	GLN	199	-51.242	75.430	-0.683	1.00 87.05	O
ATOM	1542	NE2	GLN	199	-52.673	76.411	0.783	1.00 87.05	N
ATOM	1543	C	GLN	199	-48.436	73.670	2.700	1.00 87.05	C
ATOM	1544	O	GLN	199	-47.544	73.076	2.096	1.00 87.05	O
ATOM	1545	N	ARG	200	-48.222	74.852	3.303	1.00 93.61	N
ATOM	1546	CA	ARG	200	-46.932	75.459	3.203	1.00 93.61	C
ATOM	1547	CB	ARG	200	-46.848	76.798	3.960	1.00 93.61	C
ATOM	1548	CG	ARG	200	-47.843	77.867	3.494	1.00 93.61	C
ATOM	1549	CD	ARG	200	-47.635	78.336	2.053	1.00 93.61	C
ATOM	1550	NE	ARG	200	-48.434	79.582	1.865	1.00 93.61	N
ATOM	1551	CZ	ARG	200	-49.755	79.520	1.524	1.00 93.61	C
ATOM	1552	NH1	ARG	200	-50.373	78.312	1.378	1.00 93.61	N
ATOM	1553	NH2	ARG	200	-50.460	80.673	1.332	1.00 93.61	N
ATOM	1554	C	ARG	200	-45.921	74.544	3.831	1.00 93.61	C
ATOM	1555	O	ARG	200	-44.890	74.246	3.228	1.00 93.61	O
ATOM	1556	N	ARG	201	-46.186	74.080	5.072	1.00206.63	N
ATOM	1557	CA	ARG	201	-45.228	73.267	5.774	1.00206.63	C
ATOM	1558	CB	ARG	201	-45.568	73.037	7.256	1.00206.63	C
ATOM	1559	CG	ARG	201	-45.389	74.264	8.145	1.00206.63	C
ATOM	1560	CD	ARG	201	-44.704	73.937	9.475	1.00206.63	C
ATOM	1561	NE	ARG	201	-45.552	72.964	10.223	1.00206.63	N
ATOM	1562	CZ	ARG	201	-44.977	71.878	10.819	1.00206.63	C
ATOM	1563	NH1	ARG	201	-43.643	71.634	10.654	1.00206.63	N
ATOM	1564	NH2	ARG	201	-45.732	71.033	11.579	1.00206.63	N
ATOM	1565	C	ARG	201	-45.059	71.884	5.207	1.00206.63	C
ATOM	1566	O	ARG	201	-43.942	71.416	4.988	1.00206.63	O
ATOM	1567	N	HIS	202	-46.181	71.162	5.046	1.00157.46	N
ATOM	1568	CA	HIS	202	-46.187	69.786	4.629	1.00157.46	C
ATOM	1569	ND1	HIS	202	-46.641	68.771	7.529	1.00157.46	N
ATOM	1570	CG	HIS	202	-47.570	69.204	6.611	1.00157.46	C
ATOM	1571	CB	HIS	202	-47.424	69.038	5.133	1.00157.46	C
ATOM	1572	NE2	HIS	202	-48.272	69.743	8.684	1.00157.46	N
ATOM	1573	CD2	HIS	202	-48.560	69.795	7.333	1.00157.46	C
ATOM	1574	CE1	HIS	202	-47.110	69.120	8.753	1.00157.46	C
ATOM	1575	C	HIS	202	-46.121	69.578	3.145	1.00157.46	C
ATOM	1576	O	HIS	202	-45.616	68.551	2.688	1.00157.46	O
ATOM	1577	N	GLY	203	-46.691	70.512	2.358	1.00 39.12	N
ATOM	1578	CA	GLY	203	-46.761	70.341	0.932	1.00 39.12	C
ATOM	1579	C	GLY	203	-48.032	69.600	0.627	1.00 39.12	C
ATOM	1580	O	GLY	203	-48.934	69.535	1.460	1.00 39.12	O
ATOM	1581	N	GLY	204	-48.145	69.043	-0.600	1.00 26.60	N
ATOM	1582	CA	GLY	204	-49.301	68.267	-0.964	1.00 26.60	C
ATOM	1583	C	GLY	204	-50.378	69.161	-1.500	1.00 26.60	C
ATOM	1584	O	GLY	204	-50.188	70.367	-1.654	1.00 26.60	O
ATOM	1585	N	GLY	205	-51.556	68.562	-1.796	1.00 34.04	N
ATOM	1586	CA	GLY	205	-52.665	69.292	-2.345	1.00 34.04	C
ATOM	1587	C	GLY	205	-53.935	68.597	-1.957	1.00 34.04	C
ATOM	1588	O	GLY	205	-53.932	67.458	-1.491	1.00 34.04	O

ATOM	1589	N	LEU	206	-55.072	69.285	-2.168	1.00	94.90	N
ATOM	1590	CA	LEU	206	-56.356	68.781	-1.773	1.00	94.90	C
ATOM	1591	CB	LEU	206	-57.204	69.935	-1.205	1.00	94.90	C
ATOM	1592	CG	LEU	206	-58.416	69.539	-0.351	1.00	94.90	C
ATOM	1593	CD1	LEU	206	-57.964	68.740	0.885	1.00	94.90	C
ATOM	1594	CD2	LEU	206	-59.230	70.784	0.041	1.00	94.90	C
ATOM	1595	C	LEU	206	-56.985	68.209	-3.014	1.00	94.90	C
ATOM	1596	O	LEU	206	-57.043	68.872	-4.049	1.00	94.90	O
ATOM	1597	N	VAL	207	-57.468	66.946	-2.949	1.00	116.82	N
ATOM	1598	CA	VAL	207	-57.962	66.329	-4.151	1.00	116.82	C
ATOM	1599	CB	VAL	207	-57.073	65.198	-4.594	1.00	116.82	C
ATOM	1600	CG1	VAL	207	-57.640	63.855	-4.100	1.00	116.82	C
ATOM	1601	CG2	VAL	207	-56.808	65.325	-6.096	1.00	116.82	C
ATOM	1602	C	VAL	207	-59.327	65.765	-3.881	1.00	116.82	C
ATOM	1603	O	VAL	207	-59.607	65.280	-2.785	1.00	116.82	O
ATOM	1604	N	ARG	208	-60.232	65.822	-4.884	1.00	106.49	N
ATOM	1605	CA	ARG	208	-61.541	65.260	-4.689	1.00	106.49	C
ATOM	1606	CB	ARG	208	-62.699	66.145	-5.181	1.00	106.49	C
ATOM	1607	CG	ARG	208	-64.058	65.507	-4.894	1.00	106.49	C
ATOM	1608	CD	ARG	208	-64.312	65.341	-3.396	1.00	106.49	C
ATOM	1609	NE	ARG	208	-65.503	64.466	-3.215	1.00	106.49	N
ATOM	1610	CZ	ARG	208	-66.745	65.014	-3.097	1.00	106.49	C
ATOM	1611	NH1	ARG	208	-66.904	66.364	-3.194	1.00	106.49	N
ATOM	1612	NH2	ARG	208	-67.826	64.212	-2.872	1.00	106.49	N
ATOM	1613	C	ARG	208	-61.607	63.978	-5.457	1.00	106.49	C
ATOM	1614	O	ARG	208	-61.290	63.934	-6.644	1.00	106.49	O
ATOM	1615	N	VAL	209	-62.030	62.889	-4.785	1.00	111.79	N
ATOM	1616	CA	VAL	209	-62.085	61.607	-5.431	1.00	111.79	C
ATOM	1617	CB	VAL	209	-61.853	60.457	-4.494	1.00	111.79	C
ATOM	1618	CG1	VAL	209	-60.428	60.572	-3.925	1.00	111.79	C
ATOM	1619	CG2	VAL	209	-62.956	60.464	-3.423	1.00	111.79	C
ATOM	1620	C	VAL	209	-63.434	61.416	-6.054	1.00	111.79	C
ATOM	1621	O	VAL	209	-64.471	61.699	-5.455	1.00	111.79	O
ATOM	1622	N	PRO	210	-63.410	60.946	-7.276	1.00	99.79	N
ATOM	1623	CA	PRO	210	-64.594	60.668	-8.050	1.00	99.79	C
ATOM	1624	CD	PRO	210	-62.216	60.330	-7.845	1.00	99.79	C
ATOM	1625	CB	PRO	210	-64.070	60.163	-9.395	1.00	99.79	C
ATOM	1626	CG	PRO	210	-62.726	59.497	-9.033	1.00	99.79	C
ATOM	1627	C	PRO	210	-65.413	59.601	-7.381	1.00	99.79	C
ATOM	1628	O	PRO	210	-66.612	59.509	-7.640	1.00	99.79	O
ATOM	1629	N	LEU	211	-64.766	58.745	-6.572	1.00	122.77	N
ATOM	1630	CA	LEU	211	-65.404	57.650	-5.894	1.00	122.77	C
ATOM	1631	CB	LEU	211	-64.418	56.653	-5.259	1.00	122.77	C
ATOM	1632	CG	LEU	211	-63.642	55.812	-6.291	1.00	122.77	C
ATOM	1633	CD1	LEU	211	-62.699	56.676	-7.139	1.00	122.77	C
ATOM	1634	CD2	LEU	211	-62.928	54.632	-5.623	1.00	122.77	C
ATOM	1635	C	LEU	211	-66.308	58.142	-4.812	1.00	122.77	C
ATOM	1636	O	LEU	211	-67.248	57.448	-4.429	1.00	122.77	O
ATOM	1637	N	CYS	212	-66.003	59.321	-4.243	1.00	94.04	N
ATOM	1638	CA	CYS	212	-66.762	59.874	-3.156	1.00	94.04	C
ATOM	1639	CB	CYS	212	-66.122	61.146	-2.578	1.00	94.04	C
ATOM	1640	SG	CYS	212	-67.078	61.844	-1.205	1.00	94.04	S
ATOM	1641	C	CYS	212	-68.146	60.224	-3.609	1.00	94.04	C
ATOM	1642	O	CYS	212	-68.356	60.696	-4.726	1.00	94.04	O
ATOM	1643	N	ARG	213	-69.135	59.996	-2.722	1.00	226.71	N
ATOM	1644	CA	ARG	213	-70.513	60.269	-3.023	1.00	226.71	C
ATOM	1645	CB	ARG	213	-71.489	59.467	-2.143	1.00	226.71	C
ATOM	1646	CG	ARG	213	-71.432	57.963	-2.426	1.00	226.71	C
ATOM	1647	CD	ARG	213	-72.684	57.422	-3.111	1.00	226.71	C
ATOM	1648	NE	ARG	213	-72.397	56.037	-3.581	1.00	226.71	N
ATOM	1649	CZ	ARG	213	-72.454	54.977	-2.723	1.00	226.71	C
ATOM	1650	NH1	ARG	213	-72.600	55.183	-1.382	1.00	226.71	N
ATOM	1651	NH2	ARG	213	-72.361	53.706	-3.212	1.00	226.71	N
ATOM	1652	C	ARG	213	-70.776	61.738	-2.838	1.00	226.71	C
ATOM	1653	O	ARG	213	-70.053	62.441	-2.137	1.00	226.71	O
ATOM	1654	N	ASN	214	-71.847	62.225	-3.491	1.00	106.84	N

ATOM	1655	CA	ASN	214	-72.270	63.598	-3.552	1.00106.84	C
ATOM	1656	CB	ASN	214	-73.432	63.814	-4.529	1.00106.84	C
ATOM	1657	CG	ASN	214	-72.900	63.501	-5.914	1.00106.84	C
ATOM	1658	OD1	ASN	214	-71.689	63.469	-6.132	1.00106.84	O
ATOM	1659	ND2	ASN	214	-73.830	63.268	-6.876	1.00106.84	N
ATOM	1660	C	ASN	214	-72.739	64.085	-2.216	1.00106.84	C
ATOM	1661	O	ASN	214	-72.827	65.289	-1.986	1.00106.84	O
ATOM	1662	N	SER	215	-73.126	63.155	-1.330	1.00 81.07	N
ATOM	1663	CA	SER	215	-73.655	63.483	-0.038	1.00 81.07	C
ATOM	1664	CB	SER	215	-74.168	62.234	0.707	1.00 81.07	C
ATOM	1665	OG	SER	215	-73.137	61.263	0.821	1.00 81.07	O
ATOM	1666	C	SER	215	-72.619	64.168	0.804	1.00 81.07	C
ATOM	1667	O	SER	215	-72.955	64.794	1.809	1.00 81.07	O
ATOM	1668	N	THR	216	-71.326	64.059	0.448	1.00137.99	N
ATOM	1669	CA	THR	216	-70.326	64.716	1.240	1.00137.99	C
ATOM	1670	CB	THR	216	-69.511	63.765	2.067	1.00137.99	C
ATOM	1671	OG1	THR	216	-68.545	64.471	2.832	1.00137.99	O
ATOM	1672	CG2	THR	216	-68.840	62.747	1.138	1.00137.99	C
ATOM	1673	C	THR	216	-69.391	65.504	0.362	1.00137.99	C
ATOM	1674	O	THR	216	-69.192	65.193	-0.809	1.00137.99	O
ATOM	1675	N	HIS	217	-68.871	66.614	0.920	1.00141.89	N
ATOM	1676	CA	HIS	217	-67.937	67.550	0.346	1.00141.89	C
ATOM	1677	ND1	HIS	217	-66.193	70.423	-0.095	1.00141.89	N
ATOM	1678	CG	HIS	217	-67.514	70.029	-0.061	1.00141.89	C
ATOM	1679	CB	HIS	217	-68.092	68.992	0.870	1.00141.89	C
ATOM	1680	NE2	HIS	217	-67.241	71.596	-1.665	1.00141.89	N
ATOM	1681	CD2	HIS	217	-68.139	70.758	-1.027	1.00141.89	C
ATOM	1682	CE1	HIS	217	-66.087	71.359	-1.071	1.00141.89	C
ATOM	1683	C	HIS	217	-66.512	67.112	0.576	1.00141.89	C
ATOM	1684	O	HIS	217	-65.581	67.877	0.334	1.00141.89	O
ATOM	1685	N	GLU	218	-66.300	65.934	1.186	1.00 91.71	N
ATOM	1686	CA	GLU	218	-64.990	65.499	1.602	1.00 91.71	C
ATOM	1687	CB	GLU	218	-64.989	64.069	2.161	1.00 91.71	C
ATOM	1688	CG	GLU	218	-65.357	63.021	1.111	1.00 91.71	C
ATOM	1689	CD	GLU	218	-65.623	61.712	1.834	1.00 91.71	C
ATOM	1690	OE1	GLU	218	-65.594	61.715	3.092	1.00 91.71	O
ATOM	1691	OE2	GLU	218	-65.870	60.692	1.138	1.00 91.71	O
ATOM	1692	C	GLU	218	-63.968	65.553	0.501	1.00 91.71	C
ATOM	1693	O	GLU	218	-64.236	65.227	-0.655	1.00 91.71	O
ATOM	1694	N	MET	219	-62.741	65.991	0.869	1.00144.92	N
ATOM	1695	CA	MET	219	-61.611	66.093	-0.016	1.00144.92	C
ATOM	1696	CB	MET	219	-61.187	67.552	-0.255	1.00144.92	C
ATOM	1697	CG	MET	219	-62.252	68.437	-0.912	1.00144.92	C
ATOM	1698	SD	MET	219	-62.308	68.391	-2.726	1.00144.92	S
ATOM	1699	CE	MET	219	-61.002	69.627	-2.976	1.00144.92	C
ATOM	1700	C	MET	219	-60.457	65.452	0.701	1.00144.92	C
ATOM	1701	O	MET	219	-60.446	65.401	1.930	1.00144.92	O
ATOM	1702	N	TYR	220	-59.444	64.952	-0.044	1.00 74.37	N
ATOM	1703	CA	TYR	220	-58.338	64.310	0.611	1.00 74.37	C
ATOM	1704	CB	TYR	220	-58.108	62.850	0.171	1.00 74.37	C
ATOM	1705	CG	TYR	220	-59.206	62.024	0.755	1.00 74.37	C
ATOM	1706	CD1	TYR	220	-60.423	61.899	0.122	1.00 74.37	C
ATOM	1707	CD2	TYR	220	-59.013	61.373	1.952	1.00 74.37	C
ATOM	1708	CE1	TYR	220	-61.424	61.137	0.679	1.00 74.37	C
ATOM	1709	CE2	TYR	220	-60.008	60.609	2.513	1.00 74.37	C
ATOM	1710	CZ	TYR	220	-61.218	60.489	1.875	1.00 74.37	C
ATOM	1711	OH	TYR	220	-62.244	59.706	2.447	1.00 74.37	O
ATOM	1712	C	TYR	220	-57.076	65.072	0.362	1.00 74.37	C
ATOM	1713	O	TYR	220	-56.705	65.378	-0.770	1.00 74.37	O
ATOM	1714	N	TRP	221	-56.373	65.388	1.464	1.00102.78	N
ATOM	1715	CA	TRP	221	-55.134	66.098	1.414	1.00102.78	C
ATOM	1716	CB	TRP	221	-54.856	66.793	2.752	1.00102.78	C
ATOM	1717	CG	TRP	221	-53.539	67.505	2.834	1.00102.78	C
ATOM	1718	CD2	TRP	221	-52.899	67.821	4.077	1.00102.78	C
ATOM	1719	CD1	TRP	221	-52.710	67.942	1.844	1.00102.78	C
ATOM	1720	NE1	TRP	221	-51.588	68.514	2.393	1.00102.78	N

ATOM	1721	CE2	TRP	221	-51.693	68.445	3.767	1.00102.78	C
ATOM	1722	CE3	TRP	221	-53.289	67.605	5.367	1.00102.78	C
ATOM	1723	CZ2	TRP	221	-50.848	68.863	4.754	1.00102.78	C
ATOM	1724	CZ3	TRP	221	-52.437	68.032	6.360	1.00102.78	C
ATOM	1725	CH2	TRP	221	-51.241	68.648	6.057	1.00102.78	C
ATOM	1726	C	TRP	221	-54.071	65.064	1.196	1.00102.78	C
ATOM	1727	O	TRP	221	-53.716	64.328	2.115	1.00102.78	O
ATOM	1728	N	VAL	222	-53.515	65.006	-0.033	1.00 69.38	N
ATOM	1729	CA	VAL	222	-52.572	63.980	-0.380	1.00 69.38	C
ATOM	1730	CB	VAL	222	-52.975	63.256	-1.632	1.00 69.38	C
ATOM	1731	CG1	VAL	222	-54.345	62.600	-1.379	1.00 69.38	C
ATOM	1732	CG2	VAL	222	-52.982	64.253	-2.804	1.00 69.38	C
ATOM	1733	C	VAL	222	-51.218	64.590	-0.602	1.00 69.38	C
ATOM	1734	O	VAL	222	-51.090	65.732	-1.035	1.00 69.38	O
ATOM	1735	N	SER	223	-50.159	63.814	-0.298	1.00123.81	N
ATOM	1736	CA	SER	223	-48.793	64.271	-0.346	1.00123.81	C
ATOM	1737	CB	SER	223	-47.785	63.250	0.188	1.00123.81	C
ATOM	1738	OG	SER	223	-47.911	63.130	1.590	1.00123.81	O
ATOM	1739	C	SER	223	-48.336	64.543	-1.741	1.00123.81	C
ATOM	1740	O	SER	223	-47.546	65.463	-1.951	1.00123.81	O
ATOM	1741	N	GLY	224	-48.798	63.754	-2.732	1.00117.00	N
ATOM	1742	CA	GLY	224	-48.243	63.928	-4.041	1.00117.00	C
ATOM	1743	C	GLY	224	-49.209	64.668	-4.905	1.00117.00	C
ATOM	1744	O	GLY	224	-49.346	64.377	-6.091	1.00117.00	O
ATOM	1745	N	ALA	225	-49.887	65.676	-4.335	1.00 87.13	N
ATOM	1746	CA	ALA	225	-50.762	66.496	-5.117	1.00 87.13	C
ATOM	1747	CB	ALA	225	-52.241	66.414	-4.701	1.00 87.13	C
ATOM	1748	C	ALA	225	-50.298	67.896	-4.870	1.00 87.13	C
ATOM	1749	O	ALA	225	-49.518	68.134	-3.949	1.00 87.13	O
ATOM	1750	N	LYS	226	-50.697	68.845	-5.741	1.00132.96	N
ATOM	1751	CA	LYS	226	-50.339	70.223	-5.545	1.00132.96	C
ATOM	1752	CB	LYS	226	-48.941	70.583	-6.073	1.00132.96	C
ATOM	1753	CG	LYS	226	-48.591	72.059	-5.875	1.00132.96	C
ATOM	1754	CD	LYS	226	-48.491	72.478	-4.409	1.00132.96	C
ATOM	1755	CE	LYS	226	-48.295	73.984	-4.220	1.00132.96	C
ATOM	1756	NZ	LYS	226	-48.286	74.317	-2.779	1.00132.96	N
ATOM	1757	C	LYS	226	-51.318	71.058	-6.306	1.00132.96	C
ATOM	1758	O	LYS	226	-51.865	70.601	-7.308	1.00132.96	O
ATOM	1759	N	SER	227	-51.589	72.291	-5.817	1.00 87.68	N
ATOM	1760	CA	SER	227	-52.466	73.210	-6.495	1.00 87.68	C
ATOM	1761	CB	SER	227	-53.744	72.563	-7.073	1.00 87.68	C
ATOM	1762	OG	SER	227	-54.486	73.501	-7.840	1.00 87.68	O
ATOM	1763	C	SER	227	-52.921	74.222	-5.488	1.00 87.68	C
ATOM	1764	O	SER	227	-52.547	74.167	-4.318	1.00 87.68	O
ATOM	1765	N	ASN	228	-53.737	75.197	-5.937	1.00 42.83	N
ATOM	1766	CA	ASN	228	-54.278	76.179	-5.045	1.00 42.83	C
ATOM	1767	CB	ASN	228	-54.767	77.444	-5.770	1.00 42.83	C
ATOM	1768	CG	ASN	228	-55.146	78.470	-4.716	1.00 42.83	C
ATOM	1769	OD1	ASN	228	-56.023	78.231	-3.888	1.00 42.83	O
ATOM	1770	ND2	ASN	228	-54.462	79.645	-4.738	1.00 42.83	N
ATOM	1771	C	ASN	228	-55.450	75.547	-4.359	1.00 42.83	C
ATOM	1772	O	ASN	228	-56.327	74.975	-5.006	1.00 42.83	O
ATOM	1773	N	ILE	229	-55.485	75.630	-3.014	1.00 94.06	N
ATOM	1774	CA	ILE	229	-56.532	75.014	-2.249	1.00 94.06	C
ATOM	1775	CB	ILE	229	-56.282	75.037	-0.769	1.00 94.06	C
ATOM	1776	CG1	ILE	229	-55.127	74.086	-0.416	1.00 94.06	C
ATOM	1777	CG2	ILE	229	-57.602	74.684	-0.063	1.00 94.06	C
ATOM	1778	CD1	ILE	229	-53.791	74.483	-1.034	1.00 94.06	C
ATOM	1779	C	ILE	229	-57.861	75.655	-2.498	1.00 94.06	C
ATOM	1780	O	ILE	229	-58.851	74.957	-2.717	1.00 94.06	O
ATOM	1781	N	ILE	230	-57.923	77.000	-2.499	1.00 87.30	N
ATOM	1782	CA	ILE	230	-59.196	77.656	-2.613	1.00 87.30	C
ATOM	1783	CB	ILE	230	-59.114	79.156	-2.540	1.00 87.30	C
ATOM	1784	CG1	ILE	230	-58.316	79.725	-3.723	1.00 87.30	C
ATOM	1785	CG2	ILE	230	-58.548	79.533	-1.161	1.00 87.30	C
ATOM	1786	CD1	ILE	230	-58.453	81.239	-3.876	1.00 87.30	C

ATOM	1787	C	ILE	230	-59.823	77.303	-3.921	1.00	87.30	C
ATOM	1788	O	ILE	230	-61.017	77.012	-3.980	1.00	87.30	O
ATOM	1789	N	LYS	231	-59.036	77.314	-5.011	1.00	68.84	N
ATOM	1790	CA	LYS	231	-59.601	77.036	-6.299	1.00	68.84	C
ATOM	1791	CB	LYS	231	-58.588	77.160	-7.451	1.00	68.84	C
ATOM	1792	CG	LYS	231	-58.252	78.600	-7.847	1.00	68.84	C
ATOM	1793	CD	LYS	231	-57.442	79.376	-6.807	1.00	68.84	C
ATOM	1794	CE	LYS	231	-57.033	80.771	-7.285	1.00	68.84	C
ATOM	1795	NZ	LYS	231	-56.256	81.465	-6.234	1.00	68.84	N
ATOM	1796	C	LYS	231	-60.135	75.639	-6.326	1.00	68.84	C
ATOM	1797	O	LYS	231	-61.238	75.400	-6.818	1.00	68.84	O
ATOM	1798	N	SER	232	-59.372	74.681	-5.771	1.00	33.54	N
ATOM	1799	CA	SER	232	-59.747	73.297	-5.841	1.00	33.54	C
ATOM	1800	CB	SER	232	-58.717	72.372	-5.169	1.00	33.54	C
ATOM	1801	OG	SER	232	-59.141	71.020	-5.264	1.00	33.54	O
ATOM	1802	C	SER	232	-61.058	73.077	-5.153	1.00	33.54	C
ATOM	1803	O	SER	232	-61.932	72.387	-5.675	1.00	33.54	O
ATOM	1804	N	VAL	233	-61.244	73.652	-3.951	1.00	121.04	N
ATOM	1805	CA	VAL	233	-62.475	73.404	-3.251	1.00	121.04	C
ATOM	1806	CB	VAL	233	-62.501	73.894	-1.833	1.00	121.04	C
ATOM	1807	CG1	VAL	233	-61.570	73.006	-1.003	1.00	121.04	C
ATOM	1808	CG2	VAL	233	-62.097	75.369	-1.800	1.00	121.04	C
ATOM	1809	C	VAL	233	-63.653	73.968	-3.981	1.00	121.04	C
ATOM	1810	O	VAL	233	-64.690	73.315	-4.072	1.00	121.04	O
ATOM	1811	N	SER	234	-63.530	75.187	-4.537	1.00	31.94	N
ATOM	1812	CA	SER	234	-64.651	75.810	-5.182	1.00	31.94	C
ATOM	1813	CB	SER	234	-64.330	77.225	-5.691	1.00	31.94	C
ATOM	1814	OG	SER	234	-64.004	78.073	-4.600	1.00	31.94	O
ATOM	1815	C	SER	234	-65.070	74.992	-6.361	1.00	31.94	C
ATOM	1816	O	SER	234	-66.260	74.898	-6.662	1.00	31.94	O
ATOM	1817	N	THR	235	-64.110	74.366	-7.064	1.00	92.48	N
ATOM	1818	CA	THR	235	-64.475	73.612	-8.228	1.00	92.48	C
ATOM	1819	CB	THR	235	-63.307	73.066	-9.002	1.00	92.48	C
ATOM	1820	OG1	THR	235	-63.737	72.648	-10.289	1.00	92.48	O
ATOM	1821	CG2	THR	235	-62.707	71.868	-8.250	1.00	92.48	C
ATOM	1822	C	THR	235	-65.337	72.466	-7.801	1.00	92.48	C
ATOM	1823	O	THR	235	-66.273	72.095	-8.505	1.00	92.48	O
ATOM	1824	N	THR	236	-65.028	71.856	-6.639	1.00	41.30	N
ATOM	1825	CA	THR	236	-65.792	70.736	-6.163	1.00	41.30	C
ATOM	1826	CB	THR	236	-65.216	70.122	-4.918	1.00	41.30	C
ATOM	1827	OG1	THR	236	-63.887	69.684	-5.157	1.00	41.30	O
ATOM	1828	CG2	THR	236	-66.093	68.930	-4.498	1.00	41.30	C
ATOM	1829	C	THR	236	-67.190	71.171	-5.847	1.00	41.30	C
ATOM	1830	O	THR	236	-68.157	70.513	-6.228	1.00	41.30	O
ATOM	1831	N	SER	237	-67.336	72.312	-5.150	1.00	90.71	N
ATOM	1832	CA	SER	237	-68.637	72.768	-4.764	1.00	90.71	C
ATOM	1833	CB	SER	237	-68.567	73.967	-3.800	1.00	90.71	C
ATOM	1834	OG	SER	237	-67.545	74.868	-4.198	1.00	90.71	O
ATOM	1835	C	SER	237	-69.462	73.068	-5.980	1.00	90.71	C
ATOM	1836	O	SER	237	-70.664	72.810	-5.995	1.00	90.71	O
ATOM	1837	N	GLN	238	-68.847	73.592	-7.052	1.00	80.89	N
ATOM	1838	CA	GLN	238	-69.622	73.887	-8.221	1.00	80.89	C
ATOM	1839	CB	GLN	238	-68.821	74.601	-9.320	1.00	80.89	C
ATOM	1840	CG	GLN	238	-69.676	74.904	-10.549	1.00	80.89	C
ATOM	1841	CD	GLN	238	-70.932	75.605	-10.054	1.00	80.89	C
ATOM	1842	OE1	GLN	238	-70.907	76.319	-9.052	1.00	80.89	O
ATOM	1843	NE2	GLN	238	-72.069	75.385	-10.766	1.00	80.89	N
ATOM	1844	C	GLN	238	-70.161	72.615	-8.794	1.00	80.89	C
ATOM	1845	O	GLN	238	-71.309	72.561	-9.231	1.00	80.89	O
ATOM	1846	N	LEU	239	-69.340	71.550	-8.809	1.00	114.96	N
ATOM	1847	CA	LEU	239	-69.771	70.309	-9.386	1.00	114.96	C
ATOM	1848	CB	LEU	239	-68.658	69.241	-9.396	1.00	114.96	C
ATOM	1849	CG	LEU	239	-69.046	67.878	-10.014	1.00	114.96	C
ATOM	1850	CD1	LEU	239	-69.963	67.057	-9.092	1.00	114.96	C
ATOM	1851	CD2	LEU	239	-69.634	68.049	-11.422	1.00	114.96	C
ATOM	1852	C	LEU	239	-70.932	69.782	-8.603	1.00	114.96	C

ATOM	1853	O	LEU	239	-71.928	69.340	-9.175	1.00114.96	O
ATOM	1854	N	LEU	240	-70.833	69.831	-7.264	1.00 83.95	N
ATOM	1855	CA	LEU	240	-71.854	69.285	-6.421	1.00 83.95	C
ATOM	1856	CB	LEU	240	-71.489	69.373	-4.931	1.00 83.95	C
ATOM	1857	CG	LEU	240	-70.252	68.527	-4.575	1.00 83.95	C
ATOM	1858	CD1	LEU	240	-69.902	68.626	-3.088	1.00 83.95	C
ATOM	1859	CD2	LEU	240	-70.420	67.074	-5.032	1.00 83.95	C
ATOM	1860	C	LEU	240	-73.142	70.023	-6.633	1.00 83.95	C
ATOM	1861	O	LEU	240	-74.201	69.409	-6.751	1.00 83.95	O
ATOM	1862	N	LEU	241	-73.099	71.367	-6.695	1.00107.45	N
ATOM	1863	CA	LEU	241	-74.328	72.079	-6.897	1.00107.45	C
ATOM	1864	CB	LEU	241	-74.241	73.606	-6.720	1.00107.45	C
ATOM	1865	CG	LEU	241	-74.182	74.022	-5.236	1.00107.45	C
ATOM	1866	CD1	LEU	241	-72.860	73.617	-4.576	1.00107.45	C
ATOM	1867	CD2	LEU	241	-74.521	75.504	-5.049	1.00107.45	C
ATOM	1868	C	LEU	241	-74.873	71.760	-8.248	1.00107.45	C
ATOM	1869	O	LEU	241	-76.085	71.650	-8.428	1.00107.45	O
ATOM	1870	N	GLY	242	-73.987	71.579	-9.237	1.00 30.86	N
ATOM	1871	CA	GLY	242	-74.432	71.321	-10.574	1.00 30.86	C
ATOM	1872	C	GLY	242	-75.231	70.054	-10.608	1.00 30.86	C
ATOM	1873	O	GLY	242	-76.220	69.971	-11.330	1.00 30.86	O
ATOM	1874	N	ARG	243	-74.828	69.038	-9.821	1.00154.06	N
ATOM	1875	CA	ARG	243	-75.439	67.734	-9.860	1.00154.06	C
ATOM	1876	CB	ARG	243	-74.635	66.621	-9.166	1.00154.06	C
ATOM	1877	CG	ARG	243	-73.553	66.091	-10.110	1.00154.06	C
ATOM	1878	CD	ARG	243	-72.970	64.727	-9.743	1.00154.06	C
ATOM	1879	NE	ARG	243	-71.896	64.937	-8.736	1.00154.06	N
ATOM	1880	CZ	ARG	243	-70.738	64.223	-8.842	1.00154.06	C
ATOM	1881	NH1	ARG	243	-70.560	63.365	-9.890	1.00154.06	N
ATOM	1882	NH2	ARG	243	-69.755	64.371	-7.908	1.00154.06	N
ATOM	1883	C	ARG	243	-76.864	67.719	-9.401	1.00154.06	C
ATOM	1884	O	ARG	243	-77.595	66.788	-9.742	1.00154.06	O
ATOM	1885	N	MET	244	-77.308	68.664	-8.551	1.00129.26	N
ATOM	1886	CA	MET	244	-78.718	68.615	-8.267	1.00129.26	C
ATOM	1887	CB	MET	244	-79.112	69.582	-7.140	1.00129.26	C
ATOM	1888	CG	MET	244	-78.419	69.220	-5.822	1.00129.26	C
ATOM	1889	SD	MET	244	-78.547	70.464	-4.503	1.00129.26	S
ATOM	1890	CE	MET	244	-77.383	69.642	-3.374	1.00129.26	C
ATOM	1891	C	MET	244	-79.381	69.027	-9.564	1.00129.26	C
ATOM	1892	O	MET	244	-79.081	70.106	-10.054	1.00129.26	O
ATOM	1893	N	ASP	245	-80.283	68.219	-10.190	1.00282.94	N
ATOM	1894	CA	ASP	245	-80.758	68.651	-11.500	1.00282.94	C
ATOM	1895	CB	ASP	245	-79.851	68.223	-12.669	1.00282.94	C
ATOM	1896	CG	ASP	245	-78.520	68.951	-12.612	1.00282.94	C
ATOM	1897	OD1	ASP	245	-78.514	70.209	-12.525	1.00282.94	O
ATOM	1898	OD2	ASP	245	-77.482	68.241	-12.683	1.00282.94	O
ATOM	1899	C	ASP	245	-82.108	68.080	-11.886	1.00282.94	C
ATOM	1900	O	ASP	245	-82.785	67.432	-11.092	1.00282.94	O
ATOM	1901	N	GLY	246	-82.538	68.374	-13.150	1.00549.08	N
ATOM	1902	CA	GLY	246	-83.782	67.927	-13.751	1.00549.08	C
ATOM	1903	C	GLY	246	-83.805	66.433	-13.985	1.00549.08	C
ATOM	1904	O	GLY	246	-84.778	65.777	-13.618	1.00549.08	O
ATOM	1905	N	PRO	247	-82.813	65.890	-14.661	1.00180.47	N
ATOM	1906	CA	PRO	247	-82.774	64.447	-14.843	1.00180.47	C
ATOM	1907	CD	PRO	247	-82.448	66.574	-15.892	1.00180.47	C
ATOM	1908	CB	PRO	247	-82.308	64.195	-16.275	1.00180.47	C
ATOM	1909	CG	PRO	247	-82.571	65.521	-17.002	1.00180.47	C
ATOM	1910	C	PRO	247	-81.830	63.812	-13.856	1.00180.47	C
ATOM	1911	O	PRO	247	-81.002	64.539	-13.314	1.00180.47	O
ATOM	1912	N	ARG	248	-81.891	62.471	-13.645	1.00 74.17	N
ATOM	1913	CA	ARG	248	-80.951	61.808	-12.770	1.00 74.17	C
ATOM	1914	CB	ARG	248	-81.617	60.782	-11.834	1.00 74.17	C
ATOM	1915	CG	ARG	248	-82.722	61.402	-10.971	1.00 74.17	C
ATOM	1916	CD	ARG	248	-83.254	60.499	-9.856	1.00 74.17	C
ATOM	1917	NE	ARG	248	-84.457	61.172	-9.287	1.00 74.17	N
ATOM	1918	CZ	ARG	248	-84.318	62.218	-8.421	1.00 74.17	C

ATOM	1919	NH1	ARG	248	-83.072	62.663	-8.082	1.00	74.17	N
ATOM	1920	NH2	ARG	248	-85.424	62.829	-7.904	1.00	74.17	N
ATOM	1921	C	ARG	248	-79.974	61.077	-13.655	1.00	74.17	C
ATOM	1922	O	ARG	248	-80.383	60.401	-14.595	1.00	74.17	O
ATOM	1923	N	ARG	249	-78.652	61.186	-13.375	1.00141.55		N
ATOM	1924	CA	ARG	249	-77.635	60.608	-14.220	1.00141.55		C
ATOM	1925	CB	ARG	249	-76.442	61.546	-14.460	1.00141.55		C
ATOM	1926	CG	ARG	249	-76.783	62.840	-15.194	1.00141.55		C
ATOM	1927	CD	ARG	249	-77.034	62.655	-16.690	1.00141.55		C
ATOM	1928	NE	ARG	249	-76.980	64.009	-17.308	1.00141.55		N
ATOM	1929	CZ	ARG	249	-78.056	64.842	-17.232	1.00141.55		C
ATOM	1930	NH1	ARG	249	-79.189	64.438	-16.586	1.00141.55		N
ATOM	1931	NH2	ARG	249	-77.995	66.086	-17.792	1.00141.55		N
ATOM	1932	C	ARG	249	-77.052	59.390	-13.569	1.00141.55		C
ATOM	1933	O	ARG	249	-76.716	59.369	-12.387	1.00141.55		O
ATOM	1934	N	PRO	250	-76.903	58.372	-14.370	1.00173.97		N
ATOM	1935	CA	PRO	250	-76.370	57.135	-13.866	1.00173.97		C
ATOM	1936	CD	PRO	250	-77.876	58.144	-15.426	1.00173.97		C
ATOM	1937	CB	PRO	250	-76.706	56.077	-14.915	1.00173.97		C
ATOM	1938	CG	PRO	250	-77.993	56.617	-15.563	1.00173.97		C
ATOM	1939	C	PRO	250	-74.919	57.184	-13.488	1.00173.97		C
ATOM	1940	O	PRO	250	-74.149	57.874	-14.154	1.00173.97		O
ATOM	1941	N	VAL	251	-74.557	56.426	-12.427	1.00114.67		N
ATOM	1942	CA	VAL	251	-73.243	56.281	-11.853	1.00114.67		C
ATOM	1943	CB	VAL	251	-73.260	55.374	-10.652	1.00114.67		C
ATOM	1944	CG1	VAL	251	-71.823	55.106	-10.183	1.00114.67		C
ATOM	1945	CG2	VAL	251	-74.194	55.949	-9.583	1.00114.67		C
ATOM	1946	C	VAL	251	-72.392	55.542	-12.842	1.00114.67		C
ATOM	1947	O	VAL	251	-72.876	54.657	-13.543	1.00114.67		O
ATOM	1948	N	LYS	252	-71.092	55.892	-12.935	1.00131.23		N
ATOM	1949	CA	LYS	252	-70.215	55.163	-13.810	1.00131.23		C
ATOM	1950	CB	LYS	252	-69.009	55.990	-14.282	1.00131.23		C
ATOM	1951	CG	LYS	252	-68.215	55.311	-15.396	1.00131.23		C
ATOM	1952	CD	LYS	252	-67.243	56.248	-16.114	1.00131.23		C
ATOM	1953	CE	LYS	252	-66.450	55.564	-17.230	1.00131.23		C
ATOM	1954	NZ	LYS	252	-65.584	56.547	-17.918	1.00131.23		N
ATOM	1955	C	LYS	252	-69.697	53.986	-13.025	1.00131.23		C
ATOM	1956	O	LYS	252	-69.342	54.119	-11.854	1.00131.23		O
ATOM	1957	N	TYR	253	-69.623	52.791	-13.650	1.00701.65		N
ATOM	1958	CA	TYR	253	-69.224	51.616	-12.917	1.00701.65		C
ATOM	1959	CB	TYR	253	-70.144	50.395	-13.123	1.00701.65		C
ATOM	1960	CG	TYR	253	-71.453	50.635	-12.445	1.00701.65		C
ATOM	1961	CD1	TYR	253	-71.594	50.403	-11.095	1.00701.65		C
ATOM	1962	CD2	TYR	253	-72.547	51.077	-13.156	1.00701.65		C
ATOM	1963	CE1	TYR	253	-72.798	50.617	-10.463	1.00701.65		C
ATOM	1964	CE2	TYR	253	-73.754	51.290	-12.530	1.00701.65		C
ATOM	1965	CZ	TYR	253	-73.881	51.062	-11.181	1.00701.65		C
ATOM	1966	OH	TYR	253	-75.118	51.282	-10.537	1.00701.65		O
ATOM	1967	C	TYR	253	-67.827	51.183	-13.276	1.00701.65		C
ATOM	1968	O	TYR	253	-67.431	51.207	-14.440	1.00701.65		O
ATOM	1969	N	GLU	254	-67.041	50.786	-12.245	1.00589.77		N
ATOM	1970	CA	GLU	254	-65.685	50.322	-12.414	1.00589.77		C
ATOM	1971	CB	GLU	254	-64.638	51.259	-11.780	1.00589.77		C
ATOM	1972	CG	GLU	254	-64.565	52.651	-12.411	1.00589.77		C
ATOM	1973	CD	GLU	254	-63.491	53.448	-11.679	1.00589.77		C
ATOM	1974	OE1	GLU	254	-62.288	53.255	-11.993	1.00589.77		O
ATOM	1975	OE2	GLU	254	-63.864	54.261	-10.791	1.00589.77		O
ATOM	1976	C	GLU	254	-65.550	49.013	-11.683	1.00589.77		C
ATOM	1977	O	GLU	254	-66.373	48.675	-10.834	1.00589.77		O
ATOM	1978	N	GLU	255	-64.510	48.218	-12.021	1.00665.13		N
ATOM	1979	CA	GLU	255	-64.298	46.964	-11.345	1.00665.13		C
ATOM	1980	CB	GLU	255	-63.503	45.924	-12.148	1.00665.13		C
ATOM	1981	CG	GLU	255	-64.336	45.231	-13.226	1.00665.13		C
ATOM	1982	CD	GLU	255	-65.294	44.264	-12.539	1.00665.13		C
ATOM	1983	OE1	GLU	255	-66.107	44.727	-11.695	1.00665.13		O
ATOM	1984	OE2	GLU	255	-65.219	43.045	-12.847	1.00665.13		O

ATOM	1985	C	GLU	255	-63.579	47.202	-10.051	1.00665.13	C
ATOM	1986	O	GLU	255	-62.799	48.142	-9.913	1.00665.13	O
ATOM	1987	N	ASP	256	-63.848	46.323	-9.064	1.00781.74	N
ATOM	1988	CA	ASP	256	-63.299	46.384	-7.737	1.00781.74	C
ATOM	1989	CB	ASP	256	-64.112	45.500	-6.768	1.00781.74	C
ATOM	1990	CG	ASP	256	-63.810	45.850	-5.320	1.00781.74	C
ATOM	1991	OD1	ASP	256	-63.118	46.874	-5.080	1.00781.74	O
ATOM	1992	OD2	ASP	256	-64.279	45.090	-4.429	1.00781.74	O
ATOM	1993	C	ASP	256	-61.887	45.858	-7.780	1.00781.74	C
ATOM	1994	O	ASP	256	-61.501	45.156	-8.712	1.00781.74	O
ATOM	1995	N	VAL	257	-61.073	46.200	-6.756	1.00688.30	N
ATOM	1996	CA	VAL	257	-59.696	45.776	-6.668	1.00688.30	C
ATOM	1997	CB	VAL	257	-58.880	46.636	-5.746	1.00688.30	C
ATOM	1998	CG1	VAL	257	-59.568	46.656	-4.371	1.00688.30	C
ATOM	1999	CG2	VAL	257	-57.443	46.085	-5.695	1.00688.30	C
ATOM	2000	C	VAL	257	-59.611	44.365	-6.143	1.00688.30	C
ATOM	2001	O	VAL	257	-60.439	43.939	-5.341	1.00688.30	O
ATOM	2002	N	ASN	258	-58.591	43.601	-6.607	1.00999.99	N
ATOM	2003	CA	ASN	258	-58.364	42.240	-6.186	1.00999.99	C
ATOM	2004	CB	ASN	258	-58.066	41.302	-7.370	1.00999.99	C
ATOM	2005	CG	ASN	258	-58.026	39.859	-6.884	1.00999.99	C
ATOM	2006	OD1	ASN	258	-57.404	39.545	-5.870	1.00999.99	O
ATOM	2007	ND2	ASN	258	-58.710	38.954	-7.632	1.00999.99	N
ATOM	2008	C	ASN	258	-57.146	42.225	-5.298	1.00999.99	C
ATOM	2009	O	ASN	258	-56.017	42.383	-5.759	1.00999.99	O
ATOM	2010	N	LEU	259	-57.368	42.040	-3.984	1.00415.31	N
ATOM	2011	CA	LEU	259	-56.377	42.025	-2.940	1.00415.31	C
ATOM	2012	CB	LEU	259	-56.984	42.291	-1.555	1.00415.31	C
ATOM	2013	CG	LEU	259	-57.609	43.700	-1.480	1.00415.31	C
ATOM	2014	CD1	LEU	259	-58.093	44.037	-0.062	1.00415.31	C
ATOM	2015	CD2	LEU	259	-56.659	44.763	-2.057	1.00415.31	C
ATOM	2016	C	LEU	259	-55.559	40.759	-2.918	1.00415.31	C
ATOM	2017	O	LEU	259	-54.511	40.707	-2.271	1.00415.31	O
ATOM	2018	N	GLY	260	-56.066	39.662	-3.515	1.00291.59	N
ATOM	2019	CA	GLY	260	-55.285	38.454	-3.550	1.00291.59	C
ATOM	2020	C	GLY	260	-55.332	37.818	-2.192	1.00291.59	C
ATOM	2021	O	GLY	260	-56.247	38.080	-1.414	1.00291.59	O
ATOM	2022	N	SER	261	-54.342	36.943	-1.887	1.00999.99	N
ATOM	2023	CA	SER	261	-54.297	36.265	-0.615	1.00999.99	C
ATOM	2024	CB	SER	261	-55.132	34.971	-0.560	1.00999.99	C
ATOM	2025	OG	SER	261	-56.515	35.253	-0.696	1.00999.99	O
ATOM	2026	C	SER	261	-52.887	35.825	-0.338	1.00999.99	C
ATOM	2027	O	SER	261	-52.008	35.912	-1.193	1.00999.99	O
ATOM	2028	N	GLY	262	-52.643	35.333	0.896	1.00636.60	N
ATOM	2029	CA	GLY	262	-51.356	34.789	1.248	1.00636.60	C
ATOM	2030	C	GLY	262	-50.577	35.749	2.084	1.00636.60	C
ATOM	2031	O	GLY	262	-50.809	36.956	2.081	1.00636.60	O
ATOM	2032	N	THR	263	-49.597	35.194	2.820	1.0080.45	N
ATOM	2033	CA	THR	263	-48.759	35.937	3.712	1.0080.45	C
ATOM	2034	CB	THR	263	-48.157	35.054	4.762	1.0080.45	C
ATOM	2035	OG1	THR	263	-47.361	34.046	4.154	1.0080.45	O
ATOM	2036	CG2	THR	263	-49.299	34.399	5.558	1.0080.45	C
ATOM	2037	C	THR	263	-47.646	36.544	2.922	1.0080.45	C
ATOM	2038	O	THR	263	-47.438	36.202	1.759	1.0080.45	O
ATOM	2039	N	ARG	264	-46.924	37.507	3.529	1.00315.85	N
ATOM	2040	CA	ARG	264	-45.803	38.079	2.842	1.00315.85	C
ATOM	2041	CB	ARG	264	-46.048	39.479	2.247	1.00315.85	C
ATOM	2042	CG	ARG	264	-46.458	40.601	3.194	1.00315.85	C
ATOM	2043	CD	ARG	264	-47.119	41.761	2.440	1.00315.85	C
ATOM	2044	NE	ARG	264	-46.294	42.054	1.229	1.00315.85	N
ATOM	2045	CZ	ARG	264	-45.474	43.144	1.155	1.00315.85	C
ATOM	2046	NH1	ARG	264	-45.371	44.013	2.200	1.00315.85	N
ATOM	2047	NH2	ARG	264	-44.762	43.380	0.016	1.00315.85	N
ATOM	2048	C	ARG	264	-44.605	38.041	3.751	1.00315.85	C
ATOM	2049	O	ARG	264	-44.726	38.117	4.973	1.00315.85	O
ATOM	2050	N	ALA	265	-43.402	37.887	3.159	1.00149.16	N

ATOM	2051	CA	ALA	265	-42.195	37.686	3.909	1.00149.16	C
ATOM	2052	CB	ALA	265	-41.054	37.055	3.091	1.00149.16	C
ATOM	2053	C	ALA	265	-41.667	38.933	4.542	1.00149.16	C
ATOM	2054	O	ALA	265	-41.788	40.041	4.030	1.00149.16	O
ATOM	2055	N	VAL	266	-41.017	38.786	5.707	1.00127.35	N
ATOM	2056	CA	VAL	266	-40.503	39.981	6.292	1.00127.35	C
ATOM	2057	CB	VAL	266	-40.857	40.151	7.744	1.00127.35	C
ATOM	2058	CG1	VAL	266	-40.229	41.428	8.320	1.00127.35	C
ATOM	2059	CG2	VAL	266	-42.390	40.128	7.854	1.00127.35	C
ATOM	2060	C	VAL	266	-39.030	40.038	6.030	1.00127.35	C
ATOM	2061	O	VAL	266	-38.381	39.030	5.753	1.00127.35	O
ATOM	2062	N	ALA	267	-38.491	41.267	6.118	1.00 92.11	N
ATOM	2063	CA	ALA	267	-37.167	41.679	5.767	1.00 92.11	C
ATOM	2064	CB	ALA	267	-36.881	43.146	6.126	1.00 92.11	C
ATOM	2065	C	ALA	267	-36.142	40.847	6.436	1.00 92.11	C
ATOM	2066	O	ALA	267	-36.432	39.862	7.106	1.00 92.11	O
ATOM	2067	N	SER	268	-34.884	41.267	6.242	1.00379.29	N
ATOM	2068	CA	SER	268	-33.723	40.526	6.603	1.00379.29	C
ATOM	2069	CB	SER	268	-32.445	41.383	6.525	1.00379.29	C
ATOM	2070	OG	SER	268	-31.294	40.582	6.748	1.00379.29	O
ATOM	2071	C	SER	268	-33.848	39.985	7.977	1.00379.29	C
ATOM	2072	O	SER	268	-33.680	38.769	8.053	1.00379.29	O
ATOM	2073	N	CYS	269	-34.248	40.857	8.975	1.00461.23	N
ATOM	2074	CA	CYS	269	-34.419	40.898	10.441	1.00461.23	C
ATOM	2075	CB	CYS	269	-35.367	42.032	10.864	1.00461.23	C
ATOM	2076	SG	CYS	269	-37.074	41.731	10.292	1.00461.23	S
ATOM	2077	C	CYS	269	-35.024	39.671	11.003	1.00461.23	C
ATOM	2078	O	CYS	269	-35.220	39.467	12.217	1.00461.23	O
ATOM	2079	N	ALA	270	-35.288	38.796	10.059	1.00290.89	N
ATOM	2080	CA	ALA	270	-35.494	37.437	10.403	1.00290.89	C
ATOM	2081	CB	ALA	270	-35.561	36.506	9.179	1.00290.89	C
ATOM	2082	C	ALA	270	-34.322	36.875	11.364	1.00290.89	C
ATOM	2083	O	ALA	270	-33.484	37.624	11.864	1.00290.89	O
ATOM	2084	N	GLU	271	-34.228	35.540	11.740	1.00207.61	N
ATOM	2085	CA	GLU	271	-33.280	34.997	12.749	1.00207.61	C
ATOM	2086	CB	GLU	271	-33.993	34.308	13.941	1.00207.61	C
ATOM	2087	CG	GLU	271	-33.040	33.521	14.855	1.00207.61	C
ATOM	2088	CD	GLU	271	-33.684	33.191	16.184	1.00207.61	C
ATOM	2089	OE1	GLU	271	-34.043	34.154	16.910	1.00207.61	O
ATOM	2090	OE2	GLU	271	-33.801	31.979	16.504	1.00207.61	O
ATOM	2091	C	GLU	271	-32.241	33.980	12.226	1.00207.61	C
ATOM	2092	O	GLU	271	-32.449	33.313	11.216	1.00207.61	O
ATOM	2093	N	ALA	272	-31.057	33.829	12.909	1.00 91.90	N
ATOM	2094	CA	ALA	272	-30.063	32.851	12.495	1.00 91.90	C
ATOM	2095	CB	ALA	272	-28.686	33.474	12.197	1.00 91.90	C
ATOM	2096	C	ALA	272	-29.853	31.783	13.560	1.00 91.90	C
ATOM	2097	O	ALA	272	-29.313	32.040	14.637	1.00 91.90	O
ATOM	2098	N	PRO	273	-30.277	30.573	13.242	1.00145.74	N
ATOM	2099	CA	PRO	273	-30.168	29.415	14.128	1.00145.74	C
ATOM	2100	CD	PRO	273	-31.473	30.482	12.422	1.00145.74	C
ATOM	2101	CB	PRO	273	-31.470	28.636	13.973	1.00145.74	C
ATOM	2102	CG	PRO	273	-31.975	29.040	12.586	1.00145.74	C
ATOM	2103	C	PRO	273	-28.977	28.525	13.863	1.00145.74	C
ATOM	2104	O	PRO	273	-28.178	28.849	12.986	1.00145.74	O
ATOM	2105	N	ASN	274	-28.826	27.392	14.608	1.00169.22	N
ATOM	2106	CA	ASN	274	-27.740	26.486	14.281	1.00169.22	C
ATOM	2107	CB	ASN	274	-26.720	26.198	15.407	1.00169.22	C
ATOM	2108	CG	ASN	274	-27.268	25.206	16.419	1.00169.22	C
ATOM	2109	OD1	ASN	274	-28.451	25.210	16.749	1.00169.22	O
ATOM	2110	ND2	ASN	274	-26.372	24.316	16.925	1.00169.22	N
ATOM	2111	C	ASN	274	-28.303	25.168	13.801	1.00169.22	C
ATOM	2112	O	ASN	274	-29.202	24.589	14.404	1.00169.22	O
ATOM	2113	N	MET	275	-27.804	24.703	12.636	1.00154.68	N
ATOM	2114	CA	MET	275	-28.196	23.504	11.934	1.00154.68	C
ATOM	2115	CB	MET	275	-27.809	23.556	10.451	1.00154.68	C
ATOM	2116	CG	MET	275	-28.907	24.212	9.616	1.00154.68	C

ATOM	2117	SD	MET	275	-29.325	25.921	10.059	1.00154.68	S
ATOM	2118	CE	MET	275	-30.897	25.880	9.154	1.00154.68	C
ATOM	2119	C	MET	275	-27.760	22.178	12.505	1.00154.68	C
ATOM	2120	O	MET	275	-28.502	21.201	12.404	1.00154.68	O
ATOM	2121	N	LYS	276	-26.565	22.083	13.116	1.00 86.38	N
ATOM	2122	CA	LYS	276	-26.032	20.791	13.472	1.00 86.38	C
ATOM	2123	CB	LYS	276	-24.657	20.896	14.158	1.00 86.38	C
ATOM	2124	CG	LYS	276	-23.551	21.378	13.211	1.00 86.38	C
ATOM	2125	CD	LYS	276	-22.258	21.800	13.914	1.00 86.38	C
ATOM	2126	CE	LYS	276	-21.116	22.122	12.947	1.00 86.38	C
ATOM	2127	NZ	LYS	276	-20.696	20.895	12.234	1.00 86.38	N
ATOM	2128	C	LYS	276	-26.964	20.047	14.383	1.00 86.38	C
ATOM	2129	O	LYS	276	-27.181	18.850	14.203	1.00 86.38	O
ATOM	2130	N	ILE	277	-27.517	20.725	15.402	1.00114.86	N
ATOM	2131	CA	ILE	277	-28.419	20.117	16.343	1.00114.86	C
ATOM	2132	CB	ILE	277	-28.708	21.036	17.497	1.00114.86	C
ATOM	2133	CG1	ILE	277	-27.541	21.036	18.502	1.00114.86	C
ATOM	2134	CG2	ILE	277	-30.081	20.675	18.084	1.00114.86	C
ATOM	2135	CD1	ILE	277	-26.232	21.585	17.940	1.00114.86	C
ATOM	2136	C	ILE	277	-29.741	19.744	15.728	1.00114.86	C
ATOM	2137	O	ILE	277	-30.286	18.679	16.008	1.00114.86	O
ATOM	2138	N	ILE	278	-30.315	20.673	14.944	1.00215.74	N
ATOM	2139	CA	ILE	278	-31.608	20.612	14.309	1.00215.74	C
ATOM	2140	CB	ILE	278	-32.051	21.961	13.823	1.00215.74	C
ATOM	2141	CG1	ILE	278	-31.997	23.024	14.926	1.00215.74	C
ATOM	2142	CG2	ILE	278	-33.469	21.790	13.281	1.00215.74	C
ATOM	2143	CD1	ILE	278	-32.189	24.444	14.391	1.00215.74	C
ATOM	2144	C	ILE	278	-31.683	19.716	13.103	1.00215.74	C
ATOM	2145	O	ILE	278	-32.736	19.155	12.798	1.00215.74	O
ATOM	2146	N	GLY	279	-30.576	19.594	12.353	1.00 57.91	N
ATOM	2147	CA	GLY	279	-30.600	19.012	11.035	1.00 57.91	C
ATOM	2148	C	GLY	279	-31.228	17.648	10.988	1.00 57.91	C
ATOM	2149	O	GLY	279	-31.966	17.347	10.051	1.00 57.91	O
ATOM	2150	N	ARG	280	-30.963	16.781	11.974	1.00128.19	N
ATOM	2151	CA	ARG	280	-31.479	15.440	11.925	1.00128.19	C
ATOM	2152	CB	ARG	280	-30.986	14.628	13.138	1.00128.19	C
ATOM	2153	CG	ARG	280	-29.488	14.328	13.016	1.00128.19	C
ATOM	2154	CD	ARG	280	-28.788	13.812	14.274	1.00128.19	C
ATOM	2155	NE	ARG	280	-28.337	14.978	15.088	1.00128.19	N
ATOM	2156	CZ	ARG	280	-27.260	15.715	14.679	1.00128.19	C
ATOM	2157	NH1	ARG	280	-26.768	15.563	13.414	1.00128.19	N
ATOM	2158	NH2	ARG	280	-26.672	16.603	15.533	1.00128.19	N
ATOM	2159	C	ARG	280	-32.976	15.462	11.898	1.00128.19	C
ATOM	2160	O	ARG	280	-33.603	14.726	11.135	1.00128.19	O
ATOM	2161	N	ARG	281	-33.590	16.323	12.723	1.00278.82	N
ATOM	2162	CA	ARG	281	-35.022	16.397	12.803	1.00278.82	C
ATOM	2163	CB	ARG	281	-35.493	17.440	13.840	1.00278.82	C
ATOM	2164	CG	ARG	281	-35.573	16.939	15.285	1.00278.82	C
ATOM	2165	CD	ARG	281	-35.573	18.048	16.345	1.00278.82	C
ATOM	2166	NE	ARG	281	-34.175	18.180	16.847	1.00278.82	N
ATOM	2167	CZ	ARG	281	-33.850	19.120	17.782	1.00278.82	C
ATOM	2168	NH1	ARG	281	-34.742	20.094	18.126	1.00278.82	N
ATOM	2169	NH2	ARG	281	-32.630	19.072	18.393	1.00278.82	N
ATOM	2170	C	ARG	281	-35.611	16.825	11.491	1.00278.82	C
ATOM	2171	O	ARG	281	-36.538	16.194	10.988	1.00278.82	O
ATOM	2172	N	ILE	282	-35.072	17.895	10.881	1.00169.03	N
ATOM	2173	CA	ILE	282	-35.654	18.439	9.686	1.00169.03	C
ATOM	2174	CB	ILE	282	-34.940	19.673	9.220	1.00169.03	C
ATOM	2175	CG1	ILE	282	-34.962	20.744	10.322	1.00169.03	C
ATOM	2176	CG2	ILE	282	-35.598	20.137	7.910	1.00169.03	C
ATOM	2177	CD1	ILE	282	-33.998	21.899	10.065	1.00169.03	C
ATOM	2178	C	ILE	282	-35.592	17.430	8.580	1.00169.03	C
ATOM	2179	O	ILE	282	-36.560	17.242	7.845	1.00169.03	O
ATOM	2180	N	GLU	283	-34.449	16.735	8.445	1.00157.52	N
ATOM	2181	CA	GLU	283	-34.260	15.820	7.356	1.00157.52	C
ATOM	2182	CB	GLU	283	-32.908	15.097	7.418	1.00157.52	C

ATOM	2183	CG	GLU	283	-32.761	14.069	6.301	1.00157.52	C
ATOM	2184	CD	GLU	283	-32.814	14.840	4.995	1.00157.52	C
ATOM	2185	OE1	GLU	283	-33.939	15.201	4.554	1.00157.52	O
ATOM	2186	OE2	GLU	283	-31.722	15.089	4.424	1.00157.52	O
ATOM	2187	C	GLU	283	-35.294	14.746	7.398	1.00157.52	C
ATOM	2188	O	GLU	283	-35.905	14.405	6.387	1.00157.52	O
ATOM	2189	N	ARG	284	-35.533	14.209	8.597	1.00693.37	N
ATOM	2190	CA	ARG	284	-36.402	13.097	8.794	1.00693.37	C
ATOM	2191	CB	ARG	284	-36.417	12.759	10.294	1.00693.37	C
ATOM	2192	CG	ARG	284	-37.154	11.493	10.695	1.00693.37	C
ATOM	2193	CD	ARG	284	-37.983	11.732	11.953	1.00693.37	C
ATOM	2194	NE	ARG	284	-39.224	12.423	11.498	1.00693.37	N
ATOM	2195	CZ	ARG	284	-40.156	12.838	12.403	1.00693.37	C
ATOM	2196	NH1	ARG	284	-39.898	12.708	13.735	1.00693.37	N
ATOM	2197	NH2	ARG	284	-41.340	13.367	11.973	1.00693.37	N
ATOM	2198	C	ARG	284	-37.786	13.471	8.349	1.00693.37	C
ATOM	2199	O	ARG	284	-38.475	12.678	7.709	1.00693.37	O
ATOM	2200	N	ILE	285	-38.232	14.692	8.701	1.00384.26	N
ATOM	2201	CA	ILE	285	-39.542	15.180	8.382	1.00384.26	C
ATOM	2202	CB	ILE	285	-39.884	16.335	9.257	1.00384.26	C
ATOM	2203	CG1	ILE	285	-39.853	15.796	10.701	1.00384.26	C
ATOM	2204	CG2	ILE	285	-41.247	16.903	8.829	1.00384.26	C
ATOM	2205	CD1	ILE	285	-39.725	16.848	11.796	1.00384.26	C
ATOM	2206	C	ILE	285	-39.691	15.466	6.927	1.00384.26	C
ATOM	2207	O	ILE	285	-40.737	15.217	6.330	1.00384.26	O
ATOM	2208	N	ARG	286	-38.640	16.011	6.308	1.00193.63	N
ATOM	2209	CA	ARG	286	-38.716	16.312	4.914	1.00193.63	C
ATOM	2210	CB	ARG	286	-37.398	16.887	4.407	1.00193.63	C
ATOM	2211	CG	ARG	286	-37.460	17.550	3.038	1.00193.63	C
ATOM	2212	CD	ARG	286	-36.053	17.940	2.622	1.00193.63	C
ATOM	2213	NE	ARG	286	-35.335	18.143	3.910	1.00193.63	N
ATOM	2214	CZ	ARG	286	-34.510	19.211	4.091	1.00193.63	C
ATOM	2215	NH1	ARG	286	-34.365	20.133	3.096	1.00193.63	N
ATOM	2216	NH2	ARG	286	-33.832	19.349	5.267	1.00193.63	N
ATOM	2217	C	ARG	286	-38.952	15.032	4.180	1.00193.63	C
ATOM	2218	O	ARG	286	-39.762	14.976	3.257	1.00193.63	O
ATOM	2219	N	ASN	287	-38.256	13.955	4.587	1.00246.78	N
ATOM	2220	CA	ASN	287	-38.361	12.725	3.861	1.00246.78	C
ATOM	2221	CB	ASN	287	-37.395	11.640	4.381	1.00246.78	C
ATOM	2222	CG	ASN	287	-37.371	10.480	3.390	1.00246.78	C
ATOM	2223	OD1	ASN	287	-37.881	9.397	3.672	1.00246.78	O
ATOM	2224	ND2	ASN	287	-36.768	10.710	2.192	1.00246.78	N
ATOM	2225	C	ASN	287	-39.766	12.190	3.908	1.00246.78	C
ATOM	2226	O	ASN	287	-40.298	11.793	2.874	1.00246.78	O
ATOM	2227	N	GLU	288	-40.414	12.161	5.095	1.00943.62	N
ATOM	2228	CA	GLU	288	-41.720	11.548	5.183	1.00943.62	C
ATOM	2229	CB	GLU	288	-42.179	11.248	6.612	1.00943.62	C
ATOM	2230	CG	GLU	288	-42.491	9.764	6.816	1.00943.62	C
ATOM	2231	CD	GLU	288	-41.351	9.168	7.634	1.00943.62	C
ATOM	2232	OE1	GLU	288	-40.161	9.458	7.344	1.00943.62	O
ATOM	2233	OE2	GLU	288	-41.672	8.411	8.586	1.00943.62	O
ATOM	2234	C	GLU	288	-42.796	12.364	4.514	1.00943.62	C
ATOM	2235	O	GLU	288	-43.741	11.829	3.939	1.00943.62	O
ATOM	2236	N	HIS	289	-42.715	13.689	4.662	1.00400.14	N
ATOM	2237	CA	HIS	289	-43.614	14.677	4.145	1.00400.14	C
ATOM	2238	ND1	HIS	289	-45.520	15.706	6.921	1.00400.14	N
ATOM	2239	CG	HIS	289	-44.204	15.603	6.515	1.00400.14	C
ATOM	2240	CB	HIS	289	-43.703	15.900	5.099	1.00400.14	C
ATOM	2241	NE2	HIS	289	-44.359	15.179	8.747	1.00400.14	N
ATOM	2242	CD2	HIS	289	-43.511	15.270	7.647	1.00400.14	C
ATOM	2243	CE1	HIS	289	-45.555	15.447	8.259	1.00400.14	C
ATOM	2244	C	HIS	289	-43.247	15.056	2.725	1.00400.14	C
ATOM	2245	O	HIS	289	-43.772	16.023	2.180	1.00400.14	O
ATOM	2246	N	ALA	290	-42.296	14.326	2.107	1.00158.64	N
ATOM	2247	CA	ALA	290	-41.623	14.640	0.868	1.00158.64	C
ATOM	2248	CB	ALA	290	-40.674	13.513	0.424	1.00158.64	C

ATOM	2249	C	ALA	290	-42.528	14.924	-0.298	1.00158.64	C
ATOM	2250	O	ALA	290	-42.172	15.758	-1.131	1.00158.64	O
ATOM	2251	N	GLU	291	-43.689	14.259	-0.442	1.00130.07	N
ATOM	2252	CA	GLU	291	-44.432	14.497	-1.652	1.00130.07	C
ATOM	2253	CB	GLU	291	-45.696	13.617	-1.757	1.00130.07	C
ATOM	2254	CG	GLU	291	-46.759	13.851	-0.678	1.00130.07	C
ATOM	2255	CD	GLU	291	-47.765	14.865	-1.205	1.00130.07	C
ATOM	2256	OE1	GLU	291	-47.494	15.468	-2.277	1.00130.07	O
ATOM	2257	OE2	GLU	291	-48.823	15.044	-0.545	1.00130.07	O
ATOM	2258	C	GLU	291	-44.817	15.949	-1.794	1.00130.07	C
ATOM	2259	O	GLU	291	-44.610	16.537	-2.855	1.00130.07	O
ATOM	2260	N	THR	292	-45.402	16.553	-0.741	1.00196.01	N
ATOM	2261	CA	THR	292	-45.837	17.929	-0.703	1.00196.01	C
ATOM	2262	CB	THR	292	-47.049	18.147	0.157	1.00196.01	C
ATOM	2263	OG1	THR	292	-47.412	19.516	0.119	1.00196.01	O
ATOM	2264	CG2	THR	292	-46.771	17.705	1.598	1.00196.01	C
ATOM	2265	C	THR	292	-44.769	18.946	-0.346	1.00196.01	C
ATOM	2266	O	THR	292	-44.989	20.145	-0.515	1.00196.01	O
ATOM	2267	N	TRP	293	-43.618	18.526	0.219	1.00122.79	N
ATOM	2268	CA	TRP	293	-42.623	19.432	0.755	1.00122.79	C
ATOM	2269	CB	TRP	293	-41.417	18.673	1.344	1.00122.79	C
ATOM	2270	CG	TRP	293	-40.362	19.519	2.016	1.00122.79	C
ATOM	2271	CD2	TRP	293	-40.411	19.934	3.390	1.00122.79	C
ATOM	2272	CD1	TRP	293	-39.204	20.024	1.503	1.00122.79	C
ATOM	2273	NE1	TRP	293	-38.524	20.724	2.472	1.00122.79	N
ATOM	2274	CE2	TRP	293	-39.257	20.678	3.638	1.00122.79	C
ATOM	2275	CE3	TRP	293	-41.340	19.713	4.367	1.00122.79	C
ATOM	2276	CZ2	TRP	293	-39.014	21.213	4.870	1.00122.79	C
ATOM	2277	CZ3	TRP	293	-41.091	20.256	5.607	1.00122.79	C
ATOM	2278	CH2	TRP	293	-39.951	20.991	5.854	1.00122.79	C
ATOM	2279	C	TRP	293	-42.131	20.449	-0.250	1.00122.79	C
ATOM	2280	O	TRP	293	-41.834	20.124	-1.398	1.00122.79	O
ATOM	2281	N	PHE	294	-42.051	21.736	0.188	1.00192.59	N
ATOM	2282	CA	PHE	294	-41.595	22.859	-0.602	1.00192.59	C
ATOM	2283	CB	PHE	294	-42.678	23.528	-1.467	1.00192.59	C
ATOM	2284	CG	PHE	294	-42.859	22.819	-2.762	1.00192.59	C
ATOM	2285	CD1	PHE	294	-43.742	21.774	-2.900	1.00192.59	C
ATOM	2286	CD2	PHE	294	-42.134	23.233	-3.855	1.00192.59	C
ATOM	2287	CE1	PHE	294	-43.889	21.150	-4.117	1.00192.59	C
ATOM	2288	CE2	PHE	294	-42.277	22.614	-5.073	1.00192.59	C
ATOM	2289	CZ	PHE	294	-43.157	21.568	-5.204	1.00192.59	C
ATOM	2290	C	PHE	294	-41.122	23.968	0.298	1.00192.59	C
ATOM	2291	O	PHE	294	-41.356	23.963	1.505	1.00192.59	O
ATOM	2292	N	LEU	295	-40.434	24.974	-0.291	1.00105.66	N
ATOM	2293	CA	LEU	295	-39.975	26.105	0.468	1.00105.66	C
ATOM	2294	CB	LEU	295	-38.480	26.406	0.233	1.00105.66	C
ATOM	2295	CG	LEU	295	-37.893	27.556	1.076	1.00105.66	C
ATOM	2296	CD1	LEU	295	-38.429	28.929	0.645	1.00105.66	C
ATOM	2297	CD2	LEU	295	-38.077	27.285	2.578	1.00105.66	C
ATOM	2298	C	LEU	295	-40.790	27.285	0.028	1.00105.66	C
ATOM	2299	O	LEU	295	-40.785	27.654	-1.144	1.00105.66	O
ATOM	2300	N	ASP	296	-41.514	27.912	0.978	1.0082.42	N
ATOM	2301	CA	ASP	296	-42.374	29.024	0.680	1.0082.42	C
ATOM	2302	CB	ASP	296	-43.634	29.046	1.558	1.0082.42	C
ATOM	2303	CG	ASP	296	-44.619	29.997	0.909	1.0082.42	C
ATOM	2304	OD1	ASP	296	-44.218	30.660	-0.084	1.0082.42	O
ATOM	2305	OD2	ASP	296	-45.782	30.073	1.388	1.0082.42	O
ATOM	2306	C	ASP	296	-41.606	30.281	0.934	1.0082.42	C
ATOM	2307	O	ASP	296	-41.189	30.570	2.052	1.0082.42	O
ATOM	2308	N	GLU	297	-41.412	31.073	-0.129	1.00109.86	N
ATOM	2309	CA	GLU	297	-40.641	32.280	-0.095	1.00109.86	C
ATOM	2310	CB	GLU	297	-40.451	32.875	-1.499	1.00109.86	C
ATOM	2311	CG	GLU	297	-39.618	31.982	-2.422	1.00109.86	C
ATOM	2312	CD	GLU	297	-38.154	32.129	-2.035	1.00109.86	C
ATOM	2313	OE1	GLU	297	-37.807	33.180	-1.432	1.00109.86	O
ATOM	2314	OE2	GLU	297	-37.360	31.197	-2.338	1.00109.86	O

ATOM	2315	C	GLU	297	-41.309	33.311	0.764	1.00109.86	C
ATOM	2316	O	GLU	297	-40.643	34.160	1.360	1.00109.86	O
ATOM	2317	N	ASN	298	-42.652	33.291	0.823	1.00200.44	N
ATOM	2318	CA	ASN	298	-43.363	34.320	1.521	1.00200.44	C
ATOM	2319	CB	ASN	298	-44.625	34.714	0.748	1.00200.44	C
ATOM	2320	CG	ASN	298	-45.346	33.407	0.450	1.00200.44	C
ATOM	2321	OD1	ASN	298	-45.277	32.894	-0.665	1.00200.44	O
ATOM	2322	ND2	ASN	298	-46.025	32.826	1.473	1.00200.44	N
ATOM	2323	C	ASN	298	-43.789	33.900	2.895	1.00200.44	C
ATOM	2324	O	ASN	298	-44.853	34.315	3.353	1.00200.44	O
ATOM	2325	N	HIS	299	-42.956	33.129	3.618	1.00159.90	N
ATOM	2326	CA	HIS	299	-43.327	32.730	4.951	1.00159.90	C
ATOM	2327	ND1	HIS	299	-40.652	32.900	6.868	1.00159.90	N
ATOM	2328	CG	HIS	299	-41.022	32.129	5.789	1.00159.90	C
ATOM	2329	CB	HIS	299	-42.420	31.644	5.554	1.00159.90	C
ATOM	2330	NE2	HIS	299	-38.817	32.585	5.653	1.00159.90	N
ATOM	2331	CD2	HIS	299	-39.890	31.946	5.057	1.00159.90	C
ATOM	2332	CE1	HIS	299	-39.324	33.145	6.737	1.00159.90	C
ATOM	2333	C	HIS	299	-43.211	33.954	5.829	1.00159.90	C
ATOM	2334	O	HIS	299	-42.361	34.819	5.625	1.00159.90	O
ATOM	2335	N	PRO	300	-44.108	34.050	6.776	1.00197.03	N
ATOM	2336	CA	PRO	300	-44.236	35.171	7.682	1.00197.03	C
ATOM	2337	CD	PRO	300	-45.302	33.225	6.750	1.00197.03	C
ATOM	2338	CB	PRO	300	-45.687	35.140	8.163	1.00197.03	C
ATOM	2339	CG	PRO	300	-46.116	33.677	7.970	1.00197.03	C
ATOM	2340	C	PRO	300	-43.301	35.196	8.853	1.00197.03	C
ATOM	2341	O	PRO	300	-43.395	36.127	9.651	1.00197.03	O
ATOM	2342	N	TYR	301	-42.426	34.197	9.028	1.00375.12	N
ATOM	2343	CA	TYR	301	-41.698	34.156	10.267	1.00375.12	C
ATOM	2344	CB	TYR	301	-41.103	32.777	10.564	1.00375.12	C
ATOM	2345	CG	TYR	301	-42.317	31.946	10.631	1.00375.12	C
ATOM	2346	CD1	TYR	301	-43.147	32.070	11.715	1.00375.12	C
ATOM	2347	CD2	TYR	301	-42.631	31.070	9.623	1.00375.12	C
ATOM	2348	CE1	TYR	301	-44.291	31.324	11.800	1.00375.12	C
ATOM	2349	CE2	TYR	301	-43.778	30.320	9.706	1.00375.12	C
ATOM	2350	CZ	TYR	301	-44.607	30.449	10.794	1.00375.12	C
ATOM	2351	OH	TYR	301	-45.786	29.684	10.883	1.00375.12	O
ATOM	2352	C	TYR	301	-40.560	35.102	10.243	1.00375.12	C
ATOM	2353	O	TYR	301	-39.782	35.089	9.290	1.00375.12	O
ATOM	2354	N	ARG	302	-40.552	36.081	11.181	1.00348.13	N
ATOM	2355	CA	ARG	302	-39.374	36.881	11.350	1.00348.13	C
ATOM	2356	CB	ARG	302	-39.647	38.359	11.594	1.00348.13	C
ATOM	2357	CG	ARG	302	-39.840	39.023	10.247	1.00348.13	C
ATOM	2358	CD	ARG	302	-38.947	38.402	9.157	1.00348.13	C
ATOM	2359	NE	ARG	302	-39.798	37.554	8.263	1.00348.13	N
ATOM	2360	CZ	ARG	302	-39.255	36.873	7.209	1.00348.13	C
ATOM	2361	NH1	ARG	302	-37.901	36.779	7.077	1.00348.13	N
ATOM	2362	NH2	ARG	302	-40.067	36.276	6.287	1.00348.13	N
ATOM	2363	C	ARG	302	-38.390	36.402	12.364	1.00348.13	C
ATOM	2364	O	ARG	302	-37.218	36.217	12.082	1.00348.13	O
ATOM	2365	N	THR	303	-38.831	36.181	13.605	1.00204.50	N
ATOM	2366	CA	THR	303	-37.890	35.862	14.627	1.00204.50	C
ATOM	2367	CB	THR	303	-38.337	36.237	16.003	1.00204.50	C
ATOM	2368	OG1	THR	303	-38.689	37.611	16.040	1.00204.50	O
ATOM	2369	CG2	THR	303	-37.142	36.022	16.938	1.00204.50	C
ATOM	2370	C	THR	303	-37.536	34.413	14.586	1.00204.50	C
ATOM	2371	O	THR	303	-36.507	34.037	15.136	1.00204.50	O
ATOM	2372	N	TRP	304	-38.404	33.558	14.000	1.00300.30	N
ATOM	2373	CA	TRP	304	-38.174	32.131	13.960	1.00300.30	C
ATOM	2374	CB	TRP	304	-39.461	31.295	14.066	1.00300.30	C
ATOM	2375	CG	TRP	304	-40.169	31.321	15.391	1.00300.30	C
ATOM	2376	CD2	TRP	304	-40.252	30.196	16.278	1.00300.30	C
ATOM	2377	CD1	TRP	304	-40.886	32.327	15.968	1.00300.30	C
ATOM	2378	NE1	TRP	304	-41.410	31.898	17.164	1.00300.30	N
ATOM	2379	CE2	TRP	304	-41.030	30.588	17.365	1.00300.30	C
ATOM	2380	CE3	TRP	304	-39.731	28.936	16.188	1.00300.30	C

ATOM	2381	CZ2 TRP	304	-41.299	29.724	18.386	1.00300.30	C
ATOM	2382	CZ3 TRP	304	-39.996	28.067	17.223	1.00300.30	C
ATOM	2383	CH2 TRP	304	-40.766	28.456	18.300	1.00300.30	C
ATOM	2384	C TRP	304	-37.619	31.746	12.619	1.00300.30	C
ATOM	2385	O TRP	304	-38.007	32.304	11.598	1.00300.30	O
ATOM	2386	N ALA	305	-36.698	30.755	12.591	1.00106.01	N
ATOM	2387	CA ALA	305	-36.102	30.285	11.364	1.00106.01	C
ATOM	2388	CB ALA	305	-34.786	29.524	11.577	1.00106.01	C
ATOM	2389	C ALA	305	-37.057	29.350	10.675	1.00106.01	C
ATOM	2390	O ALA	305	-37.654	28.479	11.305	1.00106.01	O
ATOM	2391	N TYR	306	-37.178	29.486	9.335	1.00141.34	N
ATOM	2392	CA TYR	306	-38.130	28.740	8.555	1.00141.34	C
ATOM	2393	CB TYR	306	-38.953	29.708	7.703	1.00141.34	C
ATOM	2394	CG TYR	306	-39.834	28.947	6.796	1.00141.34	C
ATOM	2395	CD1 TYR	306	-41.016	28.408	7.248	1.00141.34	C
ATOM	2396	CD2 TYR	306	-39.467	28.796	5.482	1.00141.34	C
ATOM	2397	CE1 TYR	306	-41.825	27.713	6.384	1.00141.34	C
ATOM	2398	CE2 TYR	306	-40.272	28.104	4.616	1.00141.34	C
ATOM	2399	CZ TYR	306	-41.448	27.566	5.069	1.00141.34	C
ATOM	2400	OH TYR	306	-42.263	26.859	4.163	1.00141.34	O
ATOM	2401	C TYR	306	-37.406	27.779	7.653	1.00141.34	C
ATOM	2402	O TYR	306	-36.492	28.163	6.925	1.00141.34	O
ATOM	2403	N HIS	307	-37.705	26.470	7.816	1.00131.90	N
ATOM	2404	CA HIS	307	-37.155	25.382	7.047	1.00131.90	C
ATOM	2405	ND1 HIS	307	-34.731	24.837	9.117	1.00131.90	N
ATOM	2406	CG HIS	307	-36.096	24.661	9.135	1.00131.90	C
ATOM	2407	CB HIS	307	-36.906	24.181	7.963	1.00131.90	C
ATOM	2408	NE2 HIS	307	-35.428	25.498	11.123	1.00131.90	N
ATOM	2409	CD2 HIS	307	-36.505	25.068	10.368	1.00131.90	C
ATOM	2410	CE1 HIS	307	-34.384	25.340	10.330	1.00131.90	C
ATOM	2411	C HIS	307	-37.913	24.979	5.800	1.00131.90	C
ATOM	2412	O HIS	307	-37.299	24.691	4.774	1.00131.90	O
ATOM	2413	N GLY	308	-39.267	24.919	5.849	1.0043.67	N
ATOM	2414	CA GLY	308	-40.030	24.472	4.703	1.0043.67	C
ATOM	2415	C GLY	308	-41.453	24.198	5.125	1.0043.67	C
ATOM	2416	O GLY	308	-41.806	24.404	6.286	1.0043.67	O
ATOM	2417	N SER	309	-42.313	23.727	4.181	1.00113.07	N
ATOM	2418	CA SER	309	-43.704	23.466	4.476	1.00113.07	C
ATOM	2419	CB SER	309	-44.646	24.636	4.157	1.00113.07	C
ATOM	2420	OG SER	309	-44.420	25.701	5.060	1.00113.07	O
ATOM	2421	C SER	309	-44.226	22.315	3.662	1.00113.07	C
ATOM	2422	O SER	309	-43.618	21.903	2.676	1.00113.07	O
ATOM	2423	N TYR	310	-45.374	21.745	4.105	1.00269.70	N
ATOM	2424	CA TYR	310	-46.079	20.693	3.419	1.00269.70	C
ATOM	2425	CB TYR	310	-45.692	19.259	3.864	1.00269.70	C
ATOM	2426	CG TYR	310	-45.572	19.089	5.349	1.00269.70	C
ATOM	2427	CD1 TYR	310	-46.647	19.005	6.201	1.00269.70	C
ATOM	2428	CD2 TYR	310	-44.320	18.968	5.899	1.00269.70	C
ATOM	2429	CE1 TYR	310	-46.469	18.829	7.560	1.00269.70	C
ATOM	2430	CE2 TYR	310	-44.132	18.792	7.248	1.00269.70	C
ATOM	2431	CZ TYR	310	-45.209	18.724	8.091	1.00269.70	C
ATOM	2432	OH TYR	310	-45.017	18.542	9.479	1.00269.70	O
ATOM	2433	C TYR	310	-47.565	20.906	3.552	1.00269.70	C
ATOM	2434	O TYR	310	-48.039	21.515	4.507	1.00269.70	O
ATOM	2435	N GLU	311	-48.350	20.412	2.569	1.00115.05	N
ATOM	2436	CA GLU	311	-49.780	20.597	2.558	1.00115.05	C
ATOM	2437	CB GLU	311	-50.428	20.180	1.226	1.00115.05	C
ATOM	2438	CG GLU	311	-49.973	21.000	0.017	1.00115.05	C
ATOM	2439	CD GLU	311	-50.776	22.291	-0.039	1.00115.05	C
ATOM	2440	OE1 GLU	311	-50.743	23.059	0.959	1.00115.05	O
ATOM	2441	OE2 GLU	311	-51.435	22.523	-1.087	1.00115.05	O
ATOM	2442	C GLU	311	-50.398	19.747	3.626	1.00115.05	C
ATOM	2443	O GLU	311	-49.927	18.648	3.914	1.00115.05	O
ATOM	2444	N ALA	312	-51.489	20.256	4.242	1.00133.78	N
ATOM	2445	CA ALA	312	-52.184	19.531	5.273	1.00133.78	C
ATOM	2446	CB ALA	312	-51.601	19.772	6.677	1.00133.78	C

ATOM	2447	C	ALA	312	-53.605	20.027	5.304	1.00133.78	C
ATOM	2448	O	ALA	312	-53.913	21.068	4.730	1.00133.78	O
ATOM	2449	N	PRO	313	-54.497	19.279	5.912	1.00103.62	N
ATOM	2450	CA	PRO	313	-55.863	19.724	6.058	1.00103.62	C
ATOM	2451	CD	PRO	313	-54.411	17.831	5.846	1.00103.62	C
ATOM	2452	CB	PRO	313	-56.720	18.467	6.193	1.00103.62	C
ATOM	2453	CG	PRO	313	-55.714	17.345	6.500	1.00103.62	C
ATOM	2454	C	PRO	313	-55.971	20.664	7.221	1.00103.62	C
ATOM	2455	O	PRO	313	-55.145	20.582	8.127	1.00103.62	O
ATOM	2456	N	THR	314	-56.988	21.551	7.236	1.00141.02	N
ATOM	2457	CA	THR	314	-57.091	22.506	8.301	1.00141.02	C
ATOM	2458	CB	THR	314	-57.907	23.720	7.948	1.00141.02	C
ATOM	2459	OG1	THR	314	-59.233	23.339	7.614	1.00141.02	O
ATOM	2460	CG2	THR	314	-57.245	24.453	6.770	1.00141.02	C
ATOM	2461	C	THR	314	-57.751	21.878	9.479	1.00141.02	C
ATOM	2462	O	THR	314	-58.631	21.031	9.352	1.00141.02	O
ATOM	2463	N	GLN	315	-57.316	22.298	10.677	1.00150.36	N
ATOM	2464	CA	GLN	315	-57.892	21.806	11.887	1.00150.36	C
ATOM	2465	CB	GLN	315	-56.927	20.971	12.741	1.00150.36	C
ATOM	2466	CG	GLN	315	-57.568	20.399	14.006	1.00150.36	C
ATOM	2467	CD	GLN	315	-56.478	19.676	14.778	1.00150.36	C
ATOM	2468	OE1	GLN	315	-55.298	19.999	14.650	1.00150.36	O
ATOM	2469	NE2	GLN	315	-56.875	18.671	15.605	1.00150.36	N
ATOM	2470	C	GLN	315	-58.254	23.027	12.679	1.00150.36	C
ATOM	2471	O	GLN	315	-57.948	24.149	12.281	1.00150.36	O
ATOM	2472	N	GLY	316	-58.958	22.850	13.811	1.0068.11	N
ATOM	2473	CA	GLY	316	-59.252	23.983	14.643	1.0068.11	C
ATOM	2474	C	GLY	316	-60.652	24.454	14.406	1.0068.11	C
ATOM	2475	O	GLY	316	-61.278	24.113	13.401	1.0068.11	O
ATOM	2476	N	SER	317	-61.168	25.272	15.354	1.00110.53	N
ATOM	2477	CA	SER	317	-62.525	25.740	15.284	1.00110.53	C
ATOM	2478	CB	SER	317	-63.443	25.059	16.316	1.00110.53	C
ATOM	2479	OG	SER	317	-64.734	25.650	16.301	1.00110.53	O
ATOM	2480	C	SER	317	-62.598	27.211	15.591	1.00110.53	C
ATOM	2481	O	SER	317	-61.856	27.736	16.418	1.00110.53	O
ATOM	2482	N	ALA	318	-63.419	27.921	14.796	1.00321.67	N
ATOM	2483	CA	ALA	318	-63.827	29.296	14.906	1.00321.67	C
ATOM	2484	CB	ALA	318	-64.303	29.867	13.559	1.00321.67	C
ATOM	2485	C	ALA	318	-64.956	29.511	15.868	1.00321.67	C
ATOM	2486	O	ALA	318	-65.149	30.613	16.373	1.00321.67	O
ATOM	2487	N	SER	319	-65.802	28.484	16.047	1.00283.51	N
ATOM	2488	CA	SER	319	-67.067	28.657	16.705	1.00283.51	C
ATOM	2489	CB	SER	319	-68.036	27.486	16.472	1.00283.51	C
ATOM	2490	OG	SER	319	-67.578	26.335	17.169	1.00283.51	O
ATOM	2491	C	SER	319	-66.985	28.811	18.183	1.00283.51	C
ATOM	2492	O	SER	319	-66.042	28.380	18.843	1.00283.51	O
ATOM	2493	N	SER	320	-68.026	29.487	18.710	1.00299.20	N
ATOM	2494	CA	SER	320	-68.301	29.616	20.105	1.00299.20	C
ATOM	2495	CB	SER	320	-67.953	31.005	20.667	1.00299.20	C
ATOM	2496	OG	SER	320	-68.615	32.014	19.920	1.00299.20	O
ATOM	2497	C	SER	320	-69.782	29.396	20.202	1.00299.20	C
ATOM	2498	O	SER	320	-70.572	30.114	19.588	1.00299.20	O
ATOM	2499	N	LEU	321	-70.204	28.369	20.962	1.00179.91	N
ATOM	2500	CA	LEU	321	-71.606	28.099	21.042	1.00179.91	C
ATOM	2501	CB	LEU	321	-71.973	26.658	20.670	1.00179.91	C
ATOM	2502	CG	LEU	321	-71.473	26.320	19.255	1.00179.91	C
ATOM	2503	CD1	LEU	321	-69.948	26.151	19.231	1.00179.91	C
ATOM	2504	CD2	LEU	321	-72.214	25.130	18.649	1.00179.91	C
ATOM	2505	C	LEU	321	-72.018	28.365	22.441	1.00179.91	C
ATOM	2506	O	LEU	321	-71.203	28.309	23.360	1.00179.91	O
ATOM	2507	N	VAL	322	-73.306	28.706	22.616	1.0081.91	N
ATOM	2508	CA	VAL	322	-73.811	29.053	23.908	1.0081.91	C
ATOM	2509	CB	VAL	322	-74.917	30.068	23.831	1.0081.91	C
ATOM	2510	CG1	VAL	322	-75.423	30.377	25.248	1.0081.91	C
ATOM	2511	CG2	VAL	322	-74.392	31.299	23.074	1.0081.91	C
ATOM	2512	C	VAL	322	-74.348	27.830	24.584	1.0081.91	C

ATOM	2513	O	VAL	322	-74.952	26.965	23.953	1.00	81.91	O
ATOM	2514	N	ASN	323	-74.123	27.738	25.910	1.00	168.97	N
ATOM	2515	CA	ASN	323	-74.636	26.666	26.712	1.00	168.97	C
ATOM	2516	CB	ASN	323	-73.861	26.523	28.036	1.00	168.97	C
ATOM	2517	CG	ASN	323	-74.241	25.221	28.723	1.00	168.97	C
ATOM	2518	OD1	ASN	323	-75.419	24.936	28.932	1.00	168.97	O
ATOM	2519	ND2	ASN	323	-73.212	24.408	29.088	1.00	168.97	N
ATOM	2520	C	ASN	323	-76.045	27.063	27.021	1.00	168.97	C
ATOM	2521	O	ASN	323	-76.293	27.967	27.817	1.00	168.97	O
ATOM	2522	N	GLY	324	-77.011	26.371	26.391	1.00	46.58	N
ATOM	2523	CA	GLY	324	-78.399	26.721	26.487	1.00	46.58	C
ATOM	2524	C	GLY	324	-78.889	26.614	27.894	1.00	46.58	C
ATOM	2525	O	GLY	324	-79.722	27.409	28.324	1.00	46.58	O
ATOM	2526	N	VAL	325	-78.434	25.601	28.647	1.00	140.13	N
ATOM	2527	CA	VAL	325	-78.984	25.455	29.962	1.00	140.13	C
ATOM	2528	CB	VAL	325	-78.613	24.154	30.611	1.00	140.13	C
ATOM	2529	CG1	VAL	325	-77.126	24.167	30.939	1.00	140.13	C
ATOM	2530	CG2	VAL	325	-79.511	23.936	31.833	1.00	140.13	C
ATOM	2531	C	VAL	325	-78.608	26.613	30.848	1.00	140.13	C
ATOM	2532	O	VAL	325	-79.475	27.216	31.476	1.00	140.13	O
ATOM	2533	N	VAL	326	-77.317	26.995	30.892	1.00	60.30	N
ATOM	2534	CA	VAL	326	-76.861	28.066	31.742	1.00	60.30	C
ATOM	2535	CB	VAL	326	-75.382	28.302	31.634	1.00	60.30	C
ATOM	2536	CG1	VAL	326	-75.010	29.504	32.518	1.00	60.30	C
ATOM	2537	CG2	VAL	326	-74.644	27.007	32.004	1.00	60.30	C
ATOM	2538	C	VAL	326	-77.525	29.347	31.330	1.00	60.30	C
ATOM	2539	O	VAL	326	-77.896	30.162	32.174	1.00	60.30	O
ATOM	2540	N	ARG	327	-77.683	29.564	30.011	1.00	68.08	N
ATOM	2541	CA	ARG	327	-78.224	30.796	29.510	1.00	68.08	C
ATOM	2542	CB	ARG	327	-78.215	30.860	27.974	1.00	68.08	C
ATOM	2543	CG	ARG	327	-78.538	32.246	27.416	1.00	68.08	C
ATOM	2544	CD	ARG	327	-78.262	32.370	25.916	1.00	68.08	C
ATOM	2545	NE	ARG	327	-78.430	33.801	25.538	1.00	68.08	N
ATOM	2546	CZ	ARG	327	-79.606	34.235	25.000	1.00	68.08	C
ATOM	2547	NH1	ARG	327	-80.614	33.345	24.773	1.00	68.08	N
ATOM	2548	NH2	ARG	327	-79.769	35.553	24.681	1.00	68.08	N
ATOM	2549	C	ARG	327	-79.637	30.993	29.975	1.00	68.08	C
ATOM	2550	O	ARG	327	-80.006	32.087	30.400	1.00	68.08	O
ATOM	2551	N	LEU	328	-80.466	29.934	29.921	1.00	117.17	N
ATOM	2552	CA	LEU	328	-81.847	30.044	30.313	1.00	117.17	C
ATOM	2553	CB	LEU	328	-82.676	28.771	30.050	1.00	117.17	C
ATOM	2554	CG	LEU	328	-83.163	28.606	28.594	1.00	117.17	C
ATOM	2555	CD1	LEU	328	-84.288	29.603	28.274	1.00	117.17	C
ATOM	2556	CD2	LEU	328	-82.016	28.700	27.580	1.00	117.17	C
ATOM	2557	C	LEU	328	-81.945	30.381	31.772	1.00	117.17	C
ATOM	2558	O	LEU	328	-82.880	31.054	32.198	1.00	117.17	O
ATOM	2559	N	LEU	329	-81.025	29.844	32.588	1.00	181.15	N
ATOM	2560	CA	LEU	329	-80.973	30.078	34.005	1.00	181.15	C
ATOM	2561	CB	LEU	329	-80.257	28.988	34.819	1.00	181.15	C
ATOM	2562	CG	LEU	329	-81.089	27.698	34.939	1.00	181.15	C
ATOM	2563	CD1	LEU	329	-81.117	26.888	33.640	1.00	181.15	C
ATOM	2564	CD2	LEU	329	-80.664	26.873	36.155	1.00	181.15	C
ATOM	2565	C	LEU	329	-80.392	31.414	34.373	1.00	181.15	C
ATOM	2566	O	LEU	329	-80.373	31.751	35.557	1.00	181.15	O
ATOM	2567	N	SER	330	-79.765	32.129	33.416	1.00	180.81	N
ATOM	2568	CA	SER	330	-79.120	33.385	33.709	1.00	180.81	C
ATOM	2569	CB	SER	330	-77.619	33.225	33.389	1.00	180.81	C
ATOM	2570	OG	SER	330	-76.908	34.443	33.496	1.00	180.81	O
ATOM	2571	C	SER	330	-79.681	34.469	32.815	1.00	180.81	C
ATOM	2572	O	SER	330	-78.948	35.144	32.096	1.00	180.81	O
ATOM	2573	N	LYS	331	-80.994	34.741	32.898	1.00	87.68	N
ATOM	2574	CA	LYS	331	-81.607	35.685	32.001	1.00	87.68	C
ATOM	2575	CB	LYS	331	-83.141	35.709	32.115	1.00	87.68	C
ATOM	2576	CG	LYS	331	-83.805	36.625	31.085	1.00	87.68	C
ATOM	2577	CD	LYS	331	-85.295	36.339	30.889	1.00	87.68	C
ATOM	2578	CE	LYS	331	-85.559	35.103	30.028	1.00	87.68	C

ATOM	2579	NZ	LYS	331	-87.006	34.795	30.007	1.00	87.68	N
ATOM	2580	C	LYS	331	-81.109	37.094	32.195	1.00	87.68	C
ATOM	2581	O	LYS	331	-80.876	37.786	31.205	1.00	87.68	O
ATOM	2582	N	PRO	332	-80.926	37.566	33.399	1.00	89.83	N
ATOM	2583	CA	PRO	332	-80.535	38.941	33.589	1.00	89.83	C
ATOM	2584	CD	PRO	332	-81.668	37.048	34.537	1.00	89.83	C
ATOM	2585	CB	PRO	332	-80.652	39.193	35.088	1.00	89.83	C
ATOM	2586	CG	PRO	332	-81.761	38.220	35.529	1.00	89.83	C
ATOM	2587	C	PRO	332	-79.195	39.261	33.009	1.00	89.83	C
ATOM	2588	O	PRO	332	-78.955	40.412	32.648	1.00	89.83	O
ATOM	2589	N	TRP	333	-78.310	38.262	32.927	1.00	147.80	N
ATOM	2590	CA	TRP	333	-76.988	38.409	32.401	1.00	147.80	C
ATOM	2591	CB	TRP	333	-76.041	37.264	32.780	1.00	147.80	C
ATOM	2592	CG	TRP	333	-75.584	37.390	34.212	1.00	147.80	C
ATOM	2593	CD2	TRP	333	-76.330	36.944	35.355	1.00	147.80	C
ATOM	2594	CD1	TRP	333	-74.441	37.955	34.694	1.00	147.80	C
ATOM	2595	NE1	TRP	333	-74.424	37.886	36.065	1.00	147.80	N
ATOM	2596	CE2	TRP	333	-75.582	37.267	36.486	1.00	147.80	C
ATOM	2597	CE3	TRP	333	-77.541	36.323	35.455	1.00	147.80	C
ATOM	2598	CZ2	TRP	333	-76.032	36.968	37.740	1.00	147.80	C
ATOM	2599	CH3	TRP	333	-77.990	36.019	36.721	1.00	147.80	C
ATOM	2600	CG2	TRP	333	-77.251	36.335	37.841	1.00	147.80	C
ATOM	2601	C	TRP	333	-77.023	38.593	30.923	1.00	147.80	C
ATOM	2602	O	TRP	333	-75.998	38.891	30.318	1.00	147.80	O
ATOM	2603	N	ASP	334	-78.183	38.350	30.287	1.00	82.12	N
ATOM	2604	CA	ASP	334	-78.273	38.462	28.858	1.00	82.12	C
ATOM	2605	CB	ASP	334	-79.691	38.186	28.329	1.00	82.12	C
ATOM	2606	CG	ASP	334	-79.975	36.700	28.505	1.00	82.12	C
ATOM	2607	OD1	ASP	334	-79.047	35.965	28.935	1.00	82.12	O
ATOM	2608	OD2	ASP	334	-81.124	36.279	28.208	1.00	82.12	O
ATOM	2609	C	ASP	334	-77.874	39.846	28.410	1.00	82.12	C
ATOM	2610	O	ASP	334	-77.198	39.995	27.395	1.00	82.12	O
ATOM	2611	N	VAL	335	-78.294	40.914	29.114	1.00	141.09	N
ATOM	2612	CA	VAL	335	-77.933	42.233	28.661	1.00	141.09	C
ATOM	2613	CB	VAL	335	-78.751	43.345	29.258	1.00	141.09	C
ATOM	2614	CG1	VAL	335	-80.205	43.166	28.795	1.00	141.09	C
ATOM	2615	CG2	VAL	335	-78.568	43.364	30.783	1.00	141.09	C
ATOM	2616	C	VAL	335	-76.467	42.541	28.865	1.00	141.09	C
ATOM	2617	O	VAL	335	-75.861	43.210	28.031	1.00	141.09	O
ATOM	2618	N	VAL	336	-75.856	42.036	29.961	1.00	103.56	N
ATOM	2619	CA	VAL	336	-74.532	42.412	30.397	1.00	103.56	C
ATOM	2620	CB	VAL	336	-74.092	41.643	31.606	1.00	103.56	C
ATOM	2621	CG1	VAL	336	-72.671	42.083	31.987	1.00	103.56	C
ATOM	2622	CG2	VAL	336	-75.134	41.857	32.717	1.00	103.56	C
ATOM	2623	C	VAL	336	-73.497	42.238	29.323	1.00	103.56	C
ATOM	2624	O	VAL	336	-73.319	41.164	28.749	1.00	103.56	O
ATOM	2625	N	THR	337	-72.740	43.331	29.084	1.00	209.06	N
ATOM	2626	CA	THR	337	-71.733	43.423	28.064	1.00	209.06	C
ATOM	2627	CB	THR	337	-71.057	44.761	28.060	1.00	209.06	C
ATOM	2628	OG1	THR	337	-71.996	45.800	27.830	1.00	209.06	O
ATOM	2629	CG2	THR	337	-69.981	44.754	26.967	1.00	209.06	C
ATOM	2630	C	THR	337	-70.638	42.435	28.306	1.00	209.06	C
ATOM	2631	O	THR	337	-70.213	41.726	27.395	1.00	209.06	O
ATOM	2632	N	GLY	338	-70.157	42.357	29.558	1.00	132.02	N
ATOM	2633	CA	GLY	338	-69.022	41.532	29.831	1.00	132.02	C
ATOM	2634	C	GLY	338	-69.324	40.097	29.529	1.00	132.02	C
ATOM	2635	O	GLY	338	-68.498	39.402	28.942	1.00	132.02	O
ATOM	2636	N	VAL	339	-70.500	39.594	29.945	1.00	190.11	N
ATOM	2637	CA	VAL	339	-70.773	38.203	29.713	1.00	190.11	C
ATOM	2638	CB	VAL	339	-71.950	37.655	30.473	1.00	190.11	C
ATOM	2639	CG1	VAL	339	-71.606	37.659	31.970	1.00	190.11	C
ATOM	2640	CG2	VAL	339	-73.211	38.455	30.113	1.00	190.11	C
ATOM	2641	C	VAL	339	-70.998	37.921	28.264	1.00	190.11	C
ATOM	2642	O	VAL	339	-70.534	36.912	27.736	1.00	190.11	O
ATOM	2643	N	THR	340	-71.724	38.824	27.587	1.00	238.95	N
ATOM	2644	CA	THR	340	-72.140	38.630	26.231	1.00	238.95	C

ATOM	2645	CB	THR	340	-72.979	39.770	25.730	1.00238.95	C
ATOM	2646	OG1	THR	340	-74.123	39.943	26.550	1.00238.95	O
ATOM	2647	CG2	THR	340	-73.399	39.477	24.281	1.00238.95	C
ATOM	2648	C	THR	340	-70.972	38.570	25.304	1.00238.95	C
ATOM	2649	O	THR	340	-70.966	37.760	24.380	1.00238.95	O
ATOM	2650	N	GLY	341	-69.977	39.446	25.533	1.00411.25	N
ATOM	2651	CA	GLY	341	-68.821	39.637	24.698	1.00411.25	C
ATOM	2652	C	GLY	341	-67.956	38.416	24.646	1.00411.25	C
ATOM	2653	O	GLY	341	-67.275	38.191	23.650	1.00411.25	O
ATOM	2654	N	ILE	342	-67.914	37.624	25.732	1.00527.50	N
ATOM	2655	CA	ILE	342	-67.027	36.490	25.819	1.00527.50	C
ATOM	2656	CB	ILE	342	-67.119	35.749	27.124	1.00527.50	C
ATOM	2657	CG1	ILE	342	-66.630	36.633	28.283	1.00527.50	C
ATOM	2658	CG2	ILE	342	-66.347	34.427	26.983	1.00527.50	C
ATOM	2659	CD1	ILE	342	-66.907	36.034	29.661	1.00527.50	C
ATOM	2660	C	ILE	342	-67.275	35.493	24.725	1.00527.50	C
ATOM	2661	O	ILE	342	-68.410	35.256	24.315	1.00527.50	O
ATOM	2662	N	ALA	343	-66.179	34.894	24.201	1.00732.31	N
ATOM	2663	CA	ALA	343	-66.293	33.916	23.154	1.00732.31	C
ATOM	2664	CB	ALA	343	-66.297	34.531	21.744	1.00732.31	C
ATOM	2665	C	ALA	343	-65.124	32.975	23.219	1.00732.31	C
ATOM	2666	O	ALA	343	-64.101	33.268	23.831	1.00732.31	O
ATOM	2667	N	MET	344	-65.268	31.783	22.601	1.00676.94	N
ATOM	2668	CA	MET	344	-64.174	30.862	22.521	1.00676.94	C
ATOM	2669	CB	MET	344	-64.575	29.467	22.017	1.00676.94	C
ATOM	2670	CG	MET	344	-65.176	28.571	23.101	1.00676.94	C
ATOM	2671	SD	MET	344	-63.936	27.962	24.284	1.00676.94	S
ATOM	2672	CE	MET	344	-65.080	26.942	25.255	1.00676.94	C
ATOM	2673	C	MET	344	-63.203	31.448	21.552	1.00676.94	C
ATOM	2674	O	MET	344	-63.586	32.156	20.622	1.00676.94	O
ATOM	2675	N	THR	345	-61.902	31.186	21.768	1.00310.44	N
ATOM	2676	CA	THR	345	-60.901	31.726	20.895	1.00310.44	C
ATOM	2677	CB	THR	345	-59.533	31.733	21.507	1.00310.44	C
ATOM	2678	OG1	THR	345	-59.180	30.421	21.917	1.00310.44	O
ATOM	2679	CG2	THR	345	-59.529	32.692	22.708	1.00310.44	C
ATOM	2680	C	THR	345	-60.851	30.942	19.610	1.00310.44	C
ATOM	2681	O	THR	345	-61.267	29.786	19.552	1.00310.44	O
ATOM	2682	N	ASP	346	-60.318	31.581	18.541	1.00542.61	N
ATOM	2683	CA	ASP	346	-60.247	31.052	17.197	1.00542.61	C
ATOM	2684	CB	ASP	346	-60.181	32.205	16.170	1.00542.61	C
ATOM	2685	CG	ASP	346	-60.364	31.713	14.740	1.00542.61	C
ATOM	2686	OD1	ASP	346	-60.272	30.480	14.503	1.00542.61	O
ATOM	2687	OD2	ASP	346	-60.598	32.583	13.857	1.00542.61	O
ATOM	2688	C	ASP	346	-58.999	30.217	17.053	1.00542.61	C
ATOM	2689	O	ASP	346	-57.887	30.739	17.036	1.00542.61	O
ATOM	2690	N	THR	347	-59.188	28.881	17.006	1.00163.63	N
ATOM	2691	CA	THR	347	-58.240	27.794	16.917	1.00163.63	C
ATOM	2692	CB	THR	347	-58.852	26.566	17.516	1.00163.63	C
ATOM	2693	OG1	THR	347	-59.305	26.869	18.825	1.00163.63	O
ATOM	2694	CG2	THR	347	-57.792	25.465	17.612	1.00163.63	C
ATOM	2695	C	THR	347	-57.781	27.499	15.516	1.00163.63	C
ATOM	2696	O	THR	347	-56.812	26.766	15.316	1.00163.63	O
ATOM	2697	N	THR	348	-58.513	27.969	14.493	1.00141.64	N
ATOM	2698	CA	THR	348	-58.151	27.627	13.146	1.00141.64	C
ATOM	2699	CB	THR	348	-59.169	28.105	12.152	1.00141.64	C
ATOM	2700	OG1	THR	348	-59.247	29.522	12.159	1.00141.64	O
ATOM	2701	CG2	THR	348	-60.528	27.494	12.541	1.00141.64	C
ATOM	2702	C	THR	348	-56.807	28.210	12.828	1.00141.64	C
ATOM	2703	O	THR	348	-56.293	29.072	13.539	1.00141.64	O
ATOM	2704	N	PRO	349	-56.189	27.721	11.785	1.00274.08	N
ATOM	2705	CA	PRO	349	-54.875	28.152	11.412	1.00274.08	C
ATOM	2706	CD	PRO	349	-56.786	26.807	10.825	1.00274.08	C
ATOM	2707	CB	PRO	349	-54.536	27.375	10.136	1.00274.08	C
ATOM	2708	CG	PRO	349	-55.904	26.942	9.574	1.00274.08	C
ATOM	2709	C	PRO	349	-54.742	29.654	11.278	1.00274.08	C
ATOM	2710	O	PRO	349	-53.717	30.151	11.745	1.00274.08	O

ATOM	2711	N	TYR	350	-55.705	30.402	10.660	1.00999.99	N
ATOM	2712	CA	TYR	350	-55.539	31.849	10.563	1.00999.99	C
ATOM	2713	CB	TYR	350	-56.449	32.662	9.495	1.00999.99	C
ATOM	2714	CG	TYR	350	-56.112	34.152	9.076	1.00999.99	C
ATOM	2715	CD1	TYR	350	-55.645	35.055	10.003	1.00999.99	C
ATOM	2716	CD2	TYR	350	-56.220	34.728	7.770	1.00999.99	C
ATOM	2717	CE1	TYR	350	-55.350	36.373	9.663	1.00999.99	C
ATOM	2718	CE2	TYR	350	-55.932	36.058	7.408	1.00999.99	C
ATOM	2719	CZ	TYR	350	-55.483	36.902	8.395	1.00999.99	C
ATOM	2720	OH	TYR	350	-55.141	38.254	8.223	1.00999.99	O
ATOM	2721	C	TYR	350	-55.696	32.397	11.955	1.00999.99	C
ATOM	2722	O	TYR	350	-55.013	33.348	12.327	1.00999.99	O
ATOM	2723	N	GLY	351	-56.584	31.796	12.780	1.00681.52	N
ATOM	2724	CA	GLY	351	-56.849	32.297	14.107	1.00681.52	C
ATOM	2725	C	GLY	351	-55.604	32.339	14.925	1.00681.52	C
ATOM	2726	O	GLY	351	-55.282	33.366	15.519	1.00681.52	O
ATOM	2727	N	GLN	352	-54.866	31.220	14.983	1.00521.02	N
ATOM	2728	CA	GLN	352	-53.702	31.204	15.808	1.00521.02	C
ATOM	2729	CB	GLN	352	-53.195	29.800	16.162	1.00521.02	C
ATOM	2730	CG	GLN	352	-52.784	28.959	14.967	1.00521.02	C
ATOM	2731	CD	GLN	352	-51.633	28.115	15.468	1.00521.02	C
ATOM	2732	OE1	GLN	352	-51.695	27.515	16.540	1.00521.02	O
ATOM	2733	NE2	GLN	352	-50.520	28.133	14.689	1.00521.02	N
ATOM	2734	C	GLN	352	-52.594	32.016	15.193	1.00521.02	C
ATOM	2735	O	GLN	352	-51.803	32.628	15.908	1.00521.02	O
ATOM	2736	N	GLN	353	-52.514	32.045	13.847	1.00676.98	N
ATOM	2737	CA	GLN	353	-51.478	32.731	13.112	1.00676.98	C
ATOM	2738	CB	GLN	353	-51.772	32.785	11.602	1.00676.98	C
ATOM	2739	CG	GLN	353	-51.469	31.525	10.815	1.00676.98	C
ATOM	2740	CD	GLN	353	-49.960	31.514	10.672	1.00676.98	C
ATOM	2741	OE1	GLN	353	-49.301	30.569	11.094	1.00676.98	O
ATOM	2742	NE2	GLN	353	-49.390	32.597	10.079	1.00676.98	N
ATOM	2743	C	GLN	353	-51.499	34.196	13.439	1.00676.98	C
ATOM	2744	O	GLN	353	-50.461	34.843	13.576	1.00676.98	O
ATOM	2745	N	ARG	354	-52.709	34.766	13.524	1.00999.99	N
ATOM	2746	CA	ARG	354	-52.895	36.168	13.738	1.00999.99	C
ATOM	2747	CB	ARG	354	-54.390	36.532	13.747	1.00999.99	C
ATOM	2748	CG	ARG	354	-54.703	37.868	14.414	1.00999.99	C
ATOM	2749	CD	ARG	354	-56.107	38.398	14.107	1.00999.99	C
ATOM	2750	NE	ARG	354	-57.026	37.234	13.945	1.00999.99	N
ATOM	2751	CZ	ARG	354	-58.057	37.045	14.817	1.00999.99	C
ATOM	2752	NH1	ARG	354	-58.205	37.871	15.894	1.00999.99	N
ATOM	2753	NH2	ARG	354	-58.948	36.033	14.607	1.00999.99	N
ATOM	2754	C	ARG	354	-52.315	36.575	15.050	1.00999.99	C
ATOM	2755	O	ARG	354	-51.796	37.684	15.184	1.00999.99	O
ATOM	2756	N	VAL	355	-52.483	35.716	16.069	1.00584.29	N
ATOM	2757	CA	VAL	355	-51.933	35.927	17.376	1.00584.29	C
ATOM	2758	CB	VAL	355	-52.488	34.959	18.385	1.00584.29	C
ATOM	2759	CG1	VAL	355	-51.764	35.165	19.725	1.00584.29	C
ATOM	2760	CG2	VAL	355	-54.014	35.144	18.462	1.00584.29	C
ATOM	2761	C	VAL	355	-50.450	35.721	17.356	1.00584.29	C
ATOM	2762	O	VAL	355	-49.698	36.459	17.993	1.00584.29	O
ATOM	2763	N	PHE	356	-49.999	34.717	16.583	1.00519.60	N
ATOM	2764	CA	PHE	356	-48.631	34.269	16.558	1.00519.60	C
ATOM	2765	CB	PHE	356	-48.428	33.131	15.527	1.00519.60	C
ATOM	2766	CG	PHE	356	-47.057	32.544	15.646	1.00519.60	C
ATOM	2767	CD1	PHE	356	-46.773	31.565	16.570	1.00519.60	C
ATOM	2768	CD2	PHE	356	-46.045	32.957	14.815	1.00519.60	C
ATOM	2769	CE1	PHE	356	-45.509	31.026	16.668	1.00519.60	C
ATOM	2770	CE2	PHE	356	-44.781	32.422	14.911	1.00519.60	C
ATOM	2771	CZ	PHE	356	-44.504	31.453	15.840	1.00519.60	C
ATOM	2772	C	PHE	356	-47.767	35.427	16.185	1.00519.60	C
ATOM	2773	O	PHE	356	-46.717	35.641	16.790	1.00519.60	O
ATOM	2774	N	LYS	357	-48.194	36.220	15.188	1.00479.62	N
ATOM	2775	CA	LYS	357	-47.380	37.298	14.717	1.00479.62	C
ATOM	2776	CB	LYS	357	-47.878	37.956	13.418	1.00479.62	C

ATOM	2777	CG	LYS	357	-49.216	38.685	13.512	1.00479.62	C
ATOM	2778	CD	LYS	357	-49.452	39.585	12.301	1.00479.62	C
ATOM	2779	CE	LYS	357	-50.895	40.060	12.132	1.00479.62	C
ATOM	2780	NZ	LYS	357	-51.185	41.169	13.065	1.00479.62	N
ATOM	2781	C	LYS	357	-47.177	38.369	15.746	1.00479.62	C
ATOM	2782	O	LYS	357	-46.170	39.070	15.673	1.00479.62	O
ATOM	2783	N	GLU	358	-48.161	38.659	16.624	1.00999.99	N
ATOM	2784	CA	GLU	358	-47.877	39.671	17.606	1.00999.99	C
ATOM	2785	CB	GLU	358	-49.136	40.407	18.095	1.00999.99	C
ATOM	2786	CG	GLU	358	-49.746	41.303	17.014	1.00999.99	C
ATOM	2787	CD	GLU	358	-48.669	42.271	16.537	1.00999.99	C
ATOM	2788	OE1	GLU	358	-47.904	42.783	17.397	1.00999.99	O
ATOM	2789	OE2	GLU	358	-48.591	42.502	15.300	1.00999.99	O
ATOM	2790	C	GLU	358	-47.124	39.187	18.818	1.00999.99	C
ATOM	2791	O	GLU	358	-46.145	39.803	19.235	1.00999.99	O
ATOM	2792	N	LYS	359	-47.624	38.116	19.471	1.00900.91	N
ATOM	2793	CA	LYS	359	-47.025	37.643	20.693	1.00900.91	C
ATOM	2794	CB	LYS	359	-48.020	36.876	21.582	1.00900.91	C
ATOM	2795	CG	LYS	359	-48.818	37.803	22.501	1.00900.91	C
ATOM	2796	CD	LYS	359	-47.889	38.575	23.442	1.00900.91	C
ATOM	2797	CE	LYS	359	-48.579	39.346	24.563	1.00900.91	C
ATOM	2798	NZ	LYS	359	-47.551	39.893	25.478	1.00900.91	N
ATOM	2799	C	LYS	359	-45.787	36.798	20.560	1.00900.91	C
ATOM	2800	O	LYS	359	-44.754	37.092	21.161	1.00900.91	O
ATOM	2801	N	VAL	360	-45.884	35.699	19.789	1.00465.18	N
ATOM	2802	CA	VAL	360	-44.852	34.697	19.703	1.00465.18	C
ATOM	2803	CB	VAL	360	-45.387	33.392	19.194	1.00465.18	C
ATOM	2804	CG1	VAL	360	-44.244	32.366	19.126	1.00465.18	C
ATOM	2805	CG2	VAL	360	-46.541	32.964	20.120	1.00465.18	C
ATOM	2806	C	VAL	360	-43.681	35.114	18.870	1.00465.18	C
ATOM	2807	O	VAL	360	-42.539	34.790	19.191	1.00465.18	O
ATOM	2808	N	ASP	361	-43.931	35.838	17.764	1.00420.84	N
ATOM	2809	CA	ASP	361	-42.883	36.166	16.845	1.00420.84	C
ATOM	2810	CB	ASP	361	-43.437	36.370	15.424	1.00420.84	C
ATOM	2811	CG	ASP	361	-42.297	36.365	14.423	1.00420.84	C
ATOM	2812	OD1	ASP	361	-41.118	36.363	14.859	1.00420.84	O
ATOM	2813	OD2	ASP	361	-42.595	36.364	13.200	1.00420.84	O
ATOM	2814	C	ASP	361	-42.231	37.448	17.289	1.00420.84	C
ATOM	2815	O	ASP	361	-42.278	38.455	16.586	1.00420.84	O
ATOM	2816	N	THR	362	-41.576	37.441	18.467	1.00409.43	N
ATOM	2817	CA	THR	362	-40.916	38.625	18.947	1.00409.43	C
ATOM	2818	CB	THR	362	-41.663	39.335	20.040	1.00409.43	C
ATOM	2819	OG1	THR	362	-41.830	38.480	21.162	1.00409.43	O
ATOM	2820	CG2	THR	362	-43.034	39.773	19.496	1.00409.43	C
ATOM	2821	C	THR	362	-39.579	38.214	19.474	1.00409.43	C
ATOM	2822	O	THR	362	-39.351	37.038	19.752	1.00409.43	O
ATOM	2823	N	ARG	363	-38.635	39.168	19.589	1.00270.51	N
ATOM	2824	CA	ARG	363	-37.349	38.815	20.114	1.00270.51	C
ATOM	2825	CB	ARG	363	-36.221	39.052	19.099	1.00270.51	C
ATOM	2826	CG	ARG	363	-34.884	38.435	19.501	1.00270.51	C
ATOM	2827	CD	ARG	363	-33.711	38.940	18.661	1.00270.51	C
ATOM	2828	NE	ARG	363	-33.891	38.453	17.265	1.00270.51	N
ATOM	2829	CZ	ARG	363	-33.340	37.262	16.889	1.00270.51	C
ATOM	2830	NH1	ARG	363	-32.701	36.488	17.815	1.00270.51	N
ATOM	2831	NH2	ARG	363	-33.415	36.851	15.590	1.00270.51	N
ATOM	2832	C	ARG	363	-37.083	39.683	21.296	1.00270.51	C
ATOM	2833	O	ARG	363	-37.275	40.896	21.244	1.00270.51	O
ATOM	2834	N	VAL	364	-36.629	39.070	22.405	1.00322.30	N
ATOM	2835	CA	VAL	364	-36.331	39.834	23.585	1.00322.30	C
ATOM	2836	CB	VAL	364	-36.609	39.118	24.874	1.00322.30	C
ATOM	2837	CG1	VAL	364	-36.069	39.977	26.031	1.00322.30	C
ATOM	2838	CG2	VAL	364	-38.121	38.852	24.965	1.00322.30	C
ATOM	2839	C	VAL	364	-34.875	40.150	23.528	1.00322.30	C
ATOM	2840	O	VAL	364	-34.045	39.303	23.203	1.00322.30	O
ATOM	2841	N	PRO	365	-34.548	41.371	23.829	1.00228.18	N
ATOM	2842	CA	PRO	365	-33.183	41.803	23.790	1.00228.18	C

ATOM	2843	CD	PRO	365	-35.477	42.478	23.703	1.00228.18	C
ATOM	2844	CB	PRO	365	-33.218	43.335	23.853	1.00228.18	C
ATOM	2845	CG	PRO	365	-34.673	43.680	24.223	1.00228.18	C
ATOM	2846	C	PRO	365	-32.359	41.156	24.849	1.00228.18	C
ATOM	2847	O	PRO	365	-32.875	40.825	25.915	1.00228.18	O
ATOM	2848	N	ASP	366	-31.065	40.962	24.547	1.00165.54	N
ATOM	2849	CA	ASP	366	-30.142	40.328	25.438	1.00165.54	C
ATOM	2850	CB	ASP	366	-28.782	40.111	24.748	1.00165.54	C
ATOM	2851	CG	ASP	366	-27.898	39.187	25.565	1.00165.54	C
ATOM	2852	OD1	ASP	366	-27.945	39.254	26.822	1.00165.54	O
ATOM	2853	OD2	ASP	366	-27.153	38.390	24.935	1.00165.54	O
ATOM	2854	C	ASP	366	-29.943	41.237	26.614	1.00165.54	C
ATOM	2855	O	ASP	366	-29.868	42.456	26.465	1.00165.54	O
ATOM	2856	N	PRO	367	-29.866	40.671	27.791	1.00116.98	N
ATOM	2857	CA	PRO	367	-29.643	41.435	28.988	1.00116.98	C
ATOM	2858	CD	PRO	367	-30.479	39.385	28.067	1.00116.98	C
ATOM	2859	CB	PRO	367	-30.013	40.513	30.153	1.00116.98	C
ATOM	2860	CG	PRO	367	-30.108	39.109	29.531	1.00116.98	C
ATOM	2861	C	PRO	367	-28.230	41.930	29.027	1.00116.98	C
ATOM	2862	O	PRO	367	-27.361	41.310	28.414	1.00116.98	O
ATOM	2863	N	GLN	368	-27.981	43.043	29.744	1.00111.02	N
ATOM	2864	CA	GLN	368	-26.672	43.626	29.819	1.00111.02	C
ATOM	2865	CB	GLN	368	-26.663	45.032	30.444	1.00111.02	C
ATOM	2866	CG	GLN	368	-27.404	46.067	29.594	1.00111.02	C
ATOM	2867	CD	GLN	368	-27.307	47.420	30.283	1.00111.02	C
ATOM	2868	OE1	GLN	368	-26.855	47.522	31.423	1.00111.02	O
ATOM	2869	NE2	GLN	368	-27.740	48.493	29.568	1.00111.02	N
ATOM	2870	C	GLN	368	-25.790	42.739	30.639	1.00111.02	C
ATOM	2871	O	GLN	368	-26.256	41.911	31.418	1.00111.02	O
ATOM	2872	N	GLU	369	-24.466	42.909	30.485	1.00210.73	N
ATOM	2873	CA	GLU	369	-23.517	42.048	31.130	1.00210.73	C
ATOM	2874	CB	GLU	369	-22.065	42.410	30.805	1.00210.73	C
ATOM	2875	CG	GLU	369	-21.069	41.585	31.614	1.00210.73	C
ATOM	2876	CD	GLU	369	-19.778	41.571	30.826	1.00210.73	C
ATOM	2877	OE1	GLU	369	-19.813	41.002	29.702	1.00210.73	O
ATOM	2878	OE2	GLU	369	-18.754	42.118	31.315	1.00210.73	O
ATOM	2879	C	GLU	369	-23.660	42.084	32.617	1.00210.73	C
ATOM	2880	O	GLU	369	-23.549	41.049	33.271	1.00210.73	O
ATOM	2881	N	GLY	370	-23.894	43.268	33.204	1.00102.08	N
ATOM	2882	CA	GLY	370	-23.986	43.345	34.635	1.00102.08	C
ATOM	2883	C	GLY	370	-25.163	42.549	35.103	1.00102.08	C
ATOM	2884	O	GLY	370	-25.094	41.873	36.129	1.00102.08	O
ATOM	2885	N	THR	371	-26.289	42.635	34.366	1.00170.99	N
ATOM	2886	CA	THR	371	-27.485	41.952	34.767	1.00170.99	C
ATOM	2887	CB	THR	371	-28.694	42.379	33.988	1.00170.99	C
ATOM	2888	OG1	THR	371	-29.869	42.048	34.707	1.00170.99	O
ATOM	2889	CG2	THR	371	-28.706	41.665	32.632	1.00170.99	C
ATOM	2890	C	THR	371	-27.282	40.472	34.630	1.00170.99	C
ATOM	2891	O	THR	371	-27.769	39.688	35.440	1.00170.99	O
ATOM	2892	N	ARG	372	-26.537	40.057	33.592	1.00192.34	N
ATOM	2893	CA	ARG	372	-26.277	38.674	33.319	1.00192.34	C
ATOM	2894	CB	ARG	372	-25.403	38.533	32.062	1.00192.34	C
ATOM	2895	CG	ARG	372	-25.334	37.123	31.486	1.00192.34	C
ATOM	2896	CD	ARG	372	-24.558	37.059	30.170	1.00192.34	C
ATOM	2897	NE	ARG	372	-23.104	37.052	30.494	1.00192.34	N
ATOM	2898	CZ	ARG	372	-22.186	37.256	29.505	1.00192.34	C
ATOM	2899	NH1	ARG	372	-22.600	37.492	28.226	1.00192.34	N
ATOM	2900	NH2	ARG	372	-20.852	37.227	29.795	1.00192.34	N
ATOM	2901	C	ARG	372	-25.540	38.084	34.484	1.00192.34	C
ATOM	2902	O	ARG	372	-25.805	36.955	34.894	1.00192.34	O
ATOM	2903	N	GLN	373	-24.585	38.845	35.048	1.00147.01	N
ATOM	2904	CA	GLN	373	-23.751	38.392	36.133	1.00147.01	C
ATOM	2905	CB	GLN	373	-22.645	39.417	36.463	1.00147.01	C
ATOM	2906	CG	GLN	373	-21.523	38.888	37.355	1.00147.01	C
ATOM	2907	CD	GLN	373	-20.399	39.917	37.322	1.00147.01	C
ATOM	2908	OE1	GLN	373	-20.112	40.505	36.279	1.00147.01	O

ATOM	2909	NE2	GLN	373	-19.748	40.149	38.492	1.00147.01	N
ATOM	2910	C	GLN	373	-24.567	38.160	37.377	1.00147.01	C
ATOM	2911	O	GLN	373	-24.362	37.176	38.087	1.00147.01	O
ATOM	2912	N	VAL	374	-25.512	39.071	37.682	1.00 87.75	N
ATOM	2913	CA	VAL	374	-26.289	38.960	38.886	1.00 87.75	C
ATOM	2914	CB	VAL	374	-27.133	40.170	39.157	1.00 87.75	C
ATOM	2915	CG1	VAL	374	-27.915	39.937	40.461	1.00 87.75	C
ATOM	2916	CG2	VAL	374	-26.211	41.402	39.202	1.00 87.75	C
ATOM	2917	C	VAL	374	-27.188	37.769	38.798	1.00 87.75	C
ATOM	2918	O	VAL	374	-27.378	37.067	39.792	1.00 87.75	O
ATOM	2919	N	MET	375	-27.766	37.527	37.601	1.00 70.34	N
ATOM	2920	CA	MET	375	-28.673	36.432	37.385	1.00 70.34	C
ATOM	2921	CB	MET	375	-29.249	36.385	35.959	1.00 70.34	C
ATOM	2922	CG	MET	375	-30.151	37.568	35.608	1.00 70.34	C
ATOM	2923	SD	MET	375	-30.851	37.497	33.931	1.00 70.34	S
ATOM	2924	CE	MET	375	-29.258	37.690	33.083	1.00 70.34	C
ATOM	2925	C	MET	375	-27.938	35.148	37.592	1.00 70.34	C
ATOM	2926	O	MET	375	-28.488	34.192	38.134	1.00 70.34	O
ATOM	2927	N	ASN	376	-26.674	35.093	37.138	1.00 57.11	N
ATOM	2928	CA	ASN	376	-25.875	33.907	37.247	1.00 57.11	C
ATOM	2929	CB	ASN	376	-24.495	34.080	36.585	1.00 57.11	C
ATOM	2930	CG	ASN	376	-23.811	32.723	36.502	1.00 57.11	C
ATOM	2931	OD1	ASN	376	-23.618	32.042	37.508	1.00 57.11	O
ATOM	2932	ND2	ASN	376	-23.436	32.313	35.261	1.00 57.11	N
ATOM	2933	C	ASN	376	-25.649	33.589	38.691	1.00 57.11	C
ATOM	2934	O	ASN	376	-25.765	32.438	39.108	1.00 57.11	O
ATOM	2935	N	ILE	377	-25.317	34.613	39.497	1.00118.21	N
ATOM	2936	CA	ILE	377	-25.005	34.402	40.882	1.00118.21	C
ATOM	2937	CB	ILE	377	-24.415	35.625	41.533	1.00118.21	C
ATOM	2938	CG1	ILE	377	-23.657	35.232	42.807	1.00118.21	C
ATOM	2939	CG2	ILE	377	-25.520	36.665	41.771	1.00118.21	C
ATOM	2940	CD1	ILE	377	-22.715	36.330	43.296	1.00118.21	C
ATOM	2941	C	ILE	377	-26.228	33.950	41.629	1.00118.21	C
ATOM	2942	O	ILE	377	-26.151	33.040	42.452	1.00118.21	O
ATOM	2943	N	VAL	378	-27.391	34.584	41.371	1.00108.74	N
ATOM	2944	CA	VAL	378	-28.600	34.236	42.064	1.00108.74	C
ATOM	2945	CB	VAL	378	-29.730	35.193	41.819	1.00108.74	C
ATOM	2946	CG1	VAL	378	-29.372	36.537	42.475	1.00108.74	C
ATOM	2947	CG2	VAL	378	-29.972	35.294	40.305	1.00108.74	C
ATOM	2948	C	VAL	378	-29.040	32.853	41.689	1.00108.74	C
ATOM	2949	O	VAL	378	-29.510	32.097	42.537	1.00108.74	O
ATOM	2950	N	SER	379	-28.903	32.488	40.403	1.00 85.01	N
ATOM	2951	CA	SER	379	-29.315	31.199	39.920	1.00 85.01	C
ATOM	2952	CB	SER	379	-29.061	31.071	38.411	1.00 85.01	C
ATOM	2953	OG	SER	379	-29.348	29.754	37.977	1.00 85.01	O
ATOM	2954	C	SER	379	-28.528	30.124	40.610	1.00 85.01	C
ATOM	2955	O	SER	379	-29.080	29.101	41.015	1.00 85.01	O
ATOM	2956	N	SER	380	-27.208	30.326	40.764	1.00 72.75	N
ATOM	2957	CA	SER	380	-26.378	29.330	41.379	1.00 72.75	C
ATOM	2958	CB	SER	380	-24.894	29.731	41.407	1.00 72.75	C
ATOM	2959	OG	SER	380	-24.398	29.868	40.084	1.00 72.75	O
ATOM	2960	C	SER	380	-26.817	29.149	42.797	1.00 72.75	C
ATOM	2961	O	SER	380	-26.909	28.026	43.292	1.00 72.75	O
ATOM	2962	N	TRP	381	-27.103	30.262	43.493	1.00 66.67	N
ATOM	2963	CA	TRP	381	-27.498	30.204	44.871	1.00 66.67	C
ATOM	2964	CB	TRP	381	-27.649	31.588	45.521	1.00 66.67	C
ATOM	2965	CG	TRP	381	-28.131	31.511	46.950	1.00 66.67	C
ATOM	2966	CD2	TRP	381	-29.503	31.668	47.342	1.00 66.67	C
ATOM	2967	CD1	TRP	381	-27.425	31.283	48.095	1.00 66.67	C
ATOM	2968	NE1	TRP	381	-28.274	31.282	49.176	1.00 66.67	N
ATOM	2969	CE2	TRP	381	-29.556	31.520	48.726	1.00 66.67	C
ATOM	2970	CE3	TRP	381	-30.627	31.915	46.605	1.00 66.67	C
ATOM	2971	CZ2	TRP	381	-30.739	31.615	49.401	1.00 66.67	C
ATOM	2972	CZ3	TRP	381	-31.818	32.013	47.289	1.00 66.67	C
ATOM	2973	CH2	TRP	381	-31.873	31.865	48.659	1.00 66.67	C
ATOM	2974	C	TRP	381	-28.820	29.510	44.998	1.00 66.67	C

ATOM	2975	O	TRP	381	-29.019	28.714	45.913	1.00	66.67	O
ATOM	2976	N	LEU	382	-29.769	29.811	44.090	1.00	67.71	N
ATOM	2977	CA	LEU	382	-31.096	29.272	44.192	1.00	67.71	C
ATOM	2978	CB	LEU	382	-32.072	29.911	43.189	1.00	67.71	C
ATOM	2979	CG	LEU	382	-33.541	29.525	43.439	1.00	67.71	C
ATOM	2980	CD1	LEU	382	-33.991	29.952	44.845	1.00	67.71	C
ATOM	2981	CD2	LEU	382	-34.458	30.093	42.345	1.00	67.71	C
ATOM	2982	C	LEU	382	-31.081	27.783	43.998	1.00	67.71	C
ATOM	2983	O	LEU	382	-31.759	27.062	44.728	1.00	67.71	O
ATOM	2984	N	TRP	383	-30.302	27.274	43.022	1.00	75.85	N
ATOM	2985	CA	TRP	383	-30.274	25.856	42.792	1.00	75.85	C
ATOM	2986	CB	TRP	383	-29.431	25.412	41.583	1.00	75.85	C
ATOM	2987	CG	TRP	383	-30.090	25.696	40.256	1.00	75.85	C
ATOM	2988	CD2	TRP	383	-31.271	25.017	39.806	1.00	75.85	C
ATOM	2989	CD1	TRP	383	-29.766	26.599	39.286	1.00	75.85	C
ATOM	2990	NE1	TRP	383	-30.669	26.517	38.253	1.00	75.85	N
ATOM	2991	CE2	TRP	383	-31.602	25.549	38.561	1.00	75.85	C
ATOM	2992	CE3	TRP	383	-32.019	24.034	40.386	1.00	75.85	C
ATOM	2993	CZ2	TRP	383	-32.694	25.104	37.873	1.00	75.85	C
ATOM	2994	CZ3	TRP	383	-33.118	23.583	39.689	1.00	75.85	C
ATOM	2995	CH2	TRP	383	-33.448	24.109	38.457	1.00	75.85	C
ATOM	2996	C	TRP	383	-29.725	25.175	43.999	1.00	75.85	C
ATOM	2997	O	TRP	383	-30.210	24.118	44.398	1.00	75.85	O
ATOM	2998	N	LYS	384	-28.688	25.763	44.616	1.00	39.95	N
ATOM	2999	CA	LYS	384	-28.083	25.166	45.767	0.88	39.95	C
ATOM	3000	CB	LYS	384	-26.909	25.996	46.306	0.88	39.95	C
ATOM	3001	CG	LYS	384	-25.728	26.077	45.338	0.75	39.95	C
ATOM	3002	CD	LYS	384	-24.732	27.180	45.699	0.75	39.95	C
ATOM	3003	CE	LYS	384	-23.523	27.249	44.766	1.00	39.95	C
ATOM	3004	NZ	LYS	384	-22.633	28.358	45.178	1.00	39.95	N
ATOM	3005	C	LYS	384	-29.103	25.076	46.863	1.00	39.95	C
ATOM	3006	O	LYS	384	-29.155	24.081	47.584	1.00	39.95	O
ATOM	3007	N	GLU	385	-29.936	26.122	47.031	1.00	106.51	N
ATOM	3008	CA	GLU	385	-30.908	26.150	48.091	1.00	106.51	C
ATOM	3009	CB	GLU	385	-31.615	27.509	48.223	1.00	106.51	C
ATOM	3010	CG	GLU	385	-30.676	28.654	48.617	1.00	106.51	C
ATOM	3011	CD	GLU	385	-30.110	28.377	50.004	1.00	106.51	C
ATOM	3012	OE1	GLU	385	-30.351	27.261	50.538	1.00	106.51	O
ATOM	3013	OE2	GLU	385	-29.423	29.282	50.549	1.00	106.51	O
ATOM	3014	C	GLU	385	-31.968	25.108	47.875	1.00	106.51	C
ATOM	3015	O	GLU	385	-32.402	24.454	48.821	1.00	106.51	O
ATOM	3016	N	LEU	386	-32.431	24.937	46.621	1.00	65.57	N
ATOM	3017	CA	LEU	386	-33.481	23.998	46.324	1.00	65.57	C
ATOM	3018	CB	LEU	386	-33.941	24.058	44.856	1.00	65.57	C
ATOM	3019	CG	LEU	386	-34.572	25.401	44.446	1.00	65.57	C
ATOM	3020	CD1	LEU	386	-35.040	25.369	42.983	1.00	65.57	C
ATOM	3021	CD2	LEU	386	-35.686	25.824	45.418	1.00	65.57	C
ATOM	3022	C	LEU	386	-32.985	22.603	46.570	1.00	65.57	C
ATOM	3023	O	LEU	386	-33.725	21.726	47.012	1.00	65.57	O
ATOM	3024	N	GLY	387	-31.708	22.384	46.222	1.00	77.74	N
ATOM	3025	CA	GLY	387	-30.936	21.174	46.273	1.00	77.74	C
ATOM	3026	C	GLY	387	-30.563	20.722	47.652	1.00	77.74	C
ATOM	3027	O	GLY	387	-30.097	19.595	47.799	1.00	77.74	O
ATOM	3028	N	LYS	388	-30.642	21.590	48.680	1.00	178.53	N
ATOM	3029	CA	LYS	388	-30.072	21.206	49.942	1.00	178.53	C
ATOM	3030	CB	LYS	388	-30.182	22.306	51.025	1.00	178.53	C
ATOM	3031	CG	LYS	388	-31.544	22.994	51.174	1.00	178.53	C
ATOM	3032	CD	LYS	388	-32.638	22.150	51.826	1.00	178.53	C
ATOM	3033	CE	LYS	388	-33.927	22.927	52.103	1.00	178.53	C
ATOM	3034	NZ	LYS	388	-33.765	23.765	53.312	1.00	178.53	N
ATOM	3035	C	LYS	388	-30.600	19.893	50.465	1.00	178.53	C
ATOM	3036	O	LYS	388	-29.797	19.025	50.807	1.00	178.53	O
ATOM	3037	N	ARG	389	-31.928	19.707	50.599	1.00	100.04	N
ATOM	3038	CA	ARG	389	-32.453	18.443	51.056	1.00	100.04	C
ATOM	3039	CB	ARG	389	-33.853	18.571	51.677	1.00	100.04	C
ATOM	3040	CG	ARG	389	-33.831	19.214	53.063	1.00	100.04	C

ATOM	3041	CD	ARG	389	-35.155	19.093	53.819	1.00100.04	C
ATOM	3042	NE	ARG	389	-34.888	19.489	55.230	1.00100.04	N
ATOM	3043	CZ	ARG	389	-35.701	19.043	56.230	1.00100.04	C
ATOM	3044	NH1	ARG	389	-36.793	18.278	55.932	1.00100.04	N
ATOM	3045	NH2	ARG	389	-35.417	19.351	57.529	1.00100.04	N
ATOM	3046	C	ARG	389	-32.537	17.370	49.999	1.00100.04	C
ATOM	3047	O	ARG	389	-32.130	16.233	50.234	1.00100.04	O
ATOM	3048	N	LYS	390	-33.064	17.705	48.799	1.00139.39	N
ATOM	3049	CA	LYS	390	-33.371	16.712	47.798	1.00139.39	C
ATOM	3050	CB	LYS	390	-34.555	17.089	46.884	1.00139.39	C
ATOM	3051	CG	LYS	390	-35.913	17.235	47.576	1.00139.39	C
ATOM	3052	CD	LYS	390	-36.071	18.521	48.384	1.00139.39	C
ATOM	3053	CE	LYS	390	-37.499	18.747	48.886	1.00139.39	C
ATOM	3054	NZ	LYS	390	-37.963	17.567	49.650	1.00139.39	N
ATOM	3055	C	LYS	390	-32.219	16.479	46.867	1.00139.39	C
ATOM	3056	O	LYS	390	-31.352	17.332	46.701	1.00139.39	O
ATOM	3057	N	ARG	391	-32.191	15.283	46.231	1.0077.43	N
ATOM	3058	CA	ARG	391	-31.181	14.967	45.255	1.0077.43	C
ATOM	3059	CB	ARG	391	-30.347	13.710	45.570	1.0077.43	C
ATOM	3060	CG	ARG	391	-29.366	13.858	46.735	1.0077.43	C
ATOM	3061	CD	ARG	391	-28.504	12.610	46.952	1.0077.43	C
ATOM	3062	NE	ARG	391	-27.618	12.854	48.128	1.0077.43	N
ATOM	3063	CZ	ARG	391	-26.313	13.223	47.962	1.0077.43	C
ATOM	3064	NH1	ARG	391	-25.792	13.374	46.711	1.0077.43	N
ATOM	3065	NH2	ARG	391	-25.521	13.428	49.055	1.0077.43	N
ATOM	3066	C	ARG	391	-31.902	14.682	43.974	1.0077.43	C
ATOM	3067	O	ARG	391	-32.991	14.112	43.979	1.0077.43	O
ATOM	3068	N	PRO	392	-31.320	15.073	42.872	1.0096.37	N
ATOM	3069	CA	PRO	392	-31.936	14.857	41.590	1.0096.37	C
ATOM	3070	CD	PRO	392	-30.421	16.215	42.862	1.0096.37	C
ATOM	3071	CB	PRO	392	-31.127	15.684	40.594	1.0096.37	C
ATOM	3072	CG	PRO	392	-30.544	16.820	41.453	1.0096.37	C
ATOM	3073	C	PRO	392	-31.938	13.404	41.261	1.0096.37	C
ATOM	3074	O	PRO	392	-30.959	12.732	41.586	1.0096.37	O
ATOM	3075	N	ARG	393	-33.007	12.912	40.601	1.00111.60	N
ATOM	3076	CA	ARG	393	-33.077	11.518	40.278	1.00111.60	C
ATOM	3077	CB	ARG	393	-33.884	10.685	41.285	1.00111.60	C
ATOM	3078	CG	ARG	393	-35.351	11.106	41.400	1.00111.60	C
ATOM	3079	CD	ARG	393	-36.169	10.166	42.285	1.00111.60	C
ATOM	3080	NE	ARG	393	-37.562	10.690	42.368	1.00111.60	N
ATOM	3081	CZ	ARG	393	-38.501	10.332	41.444	1.00111.60	C
ATOM	3082	NH1	ARG	393	-38.162	9.546	40.381	1.00111.60	N
ATOM	3083	NH2	ARG	393	-39.786	10.762	41.597	1.00111.60	N
ATOM	3084	C	ARG	393	-33.761	11.349	38.960	1.00111.60	C
ATOM	3085	O	ARG	393	-34.378	12.265	38.417	1.00111.60	O
ATOM	3086	N	VAL	394	-33.642	10.126	38.413	1.00110.07	N
ATOM	3087	CA	VAL	394	-34.206	9.743	37.153	1.00110.07	C
ATOM	3088	CB	VAL	394	-33.407	8.623	36.546	1.00110.07	C
ATOM	3089	CG1	VAL	394	-33.488	7.411	37.493	1.00110.07	C
ATOM	3090	CG2	VAL	394	-33.891	8.347	35.116	1.00110.07	C
ATOM	3091	C	VAL	394	-35.595	9.255	37.421	1.00110.07	C
ATOM	3092	O	VAL	394	-35.830	8.549	38.399	1.00110.07	O
ATOM	3093	N	CYS	395	-36.566	9.656	36.573	1.0065.62	N
ATOM	3094	CA	CYS	395	-37.927	9.217	36.711	1.0065.62	C
ATOM	3095	CB	CYS	395	-38.941	10.170	36.046	1.0065.62	C
ATOM	3096	SG	CYS	395	-38.933	11.829	36.791	1.0065.62	S
ATOM	3097	C	CYS	395	-38.028	7.902	36.012	1.0065.62	C
ATOM	3098	O	CYS	395	-37.253	7.618	35.101	1.0065.62	O
ATOM	3099	N	THR	396	-39.015	7.073	36.407	1.0066.22	N
ATOM	3100	CA	THR	396	-39.121	5.756	35.852	1.0066.22	C
ATOM	3101	CB	THR	396	-39.243	4.688	36.899	1.0066.22	C
ATOM	3102	CG1	THR	396	-40.441	4.867	37.639	1.0066.22	O
ATOM	3103	CG2	THR	396	-38.027	4.779	37.836	1.0066.22	C
ATOM	3104	C	THR	396	-40.348	5.661	35.005	1.0066.22	C
ATOM	3105	O	THR	396	-41.233	6.515	35.030	1.0066.22	O
ATOM	3106	N	LYS	397	-40.390	4.579	34.208	1.00161.42	N

ATOM	3107	CA	LYS	397	-41.460	4.256	33.317	1.00161.42	C
ATOM	3108	CB	LYS	397	-41.195	2.939	32.580	1.00161.42	C
ATOM	3109	CG	LYS	397	-39.851	2.914	31.858	1.00161.42	C
ATOM	3110	CD	LYS	397	-39.465	1.527	31.349	1.00161.42	C
ATOM	3111	CE	LYS	397	-39.188	0.517	32.459	1.00161.42	C
ATOM	3112	NZ	LYS	397	-39.043	-0.832	31.874	1.00161.42	N
ATOM	3113	C	LYS	397	-42.682	4.027	34.150	1.00161.42	C
ATOM	3114	O	LYS	397	-43.791	4.386	33.752	1.00161.42	O
ATOM	3115	N	GLU	398	-42.495	3.412	35.335	1.00145.70	N
ATOM	3116	CA	GLU	398	-43.593	3.041	36.182	1.00145.70	C
ATOM	3117	CB	GLU	398	-43.166	2.430	37.537	1.00145.70	C
ATOM	3118	CG	GLU	398	-42.036	1.390	37.540	1.00145.70	C
ATOM	3119	CD	GLU	398	-41.967	0.633	36.228	1.00145.70	C
ATOM	3120	OE1	GLU	398	-42.894	-0.169	35.945	1.00145.70	O
ATOM	3121	OE2	GLU	398	-40.965	0.844	35.496	1.00145.70	O
ATOM	3122	C	GLU	398	-44.316	4.288	36.593	1.00145.70	C
ATOM	3123	O	GLU	398	-45.544	4.351	36.549	1.00145.70	O
ATOM	3124	N	GLU	399	-43.556	5.325	37.000	1.00109.76	N
ATOM	3125	CA	GLU	399	-44.136	6.545	37.489	1.00109.76	C
ATOM	3126	CB	GLU	399	-43.113	7.645	37.803	1.00109.76	C
ATOM	3127	CG	GLU	399	-42.152	7.377	38.951	1.00109.76	C
ATOM	3128	CD	GLU	399	-41.202	8.563	38.931	1.00109.76	C
ATOM	3129	OE1	GLU	399	-40.408	8.665	37.959	1.00109.76	O
ATOM	3130	OE2	GLU	399	-41.277	9.397	39.870	1.00109.76	O
ATOM	3131	C	GLU	399	-44.918	7.156	36.391	1.00109.76	C
ATOM	3132	O	GLU	399	-46.014	7.678	36.584	1.00109.76	O
ATOM	3133	N	PHE	400	-44.330	7.103	35.195	1.00277.32	N
ATOM	3134	CA	PHE	400	-44.880	7.716	34.038	1.00277.32	C
ATOM	3135	CB	PHE	400	-43.857	7.573	32.897	1.00277.32	C
ATOM	3136	CG	PHE	400	-44.464	7.880	31.588	1.00277.32	C
ATOM	3137	CD1	PHE	400	-44.939	9.131	31.283	1.00277.32	C
ATOM	3138	CD2	PHE	400	-44.505	6.885	30.643	1.00277.32	C
ATOM	3139	CE1	PHE	400	-45.485	9.365	30.044	1.00277.32	C
ATOM	3140	CE2	PHE	400	-45.047	7.116	29.404	1.00277.32	C
ATOM	3141	CZ	PHE	400	-45.542	8.360	29.106	1.00277.32	C
ATOM	3142	C	PHE	400	-46.228	7.140	33.722	1.00277.32	C
ATOM	3143	O	PHE	400	-47.193	7.878	33.523	1.00277.32	O
ATOM	3144	N	ILE	401	-46.349	5.803	33.709	1.00150.95	N
ATOM	3145	CA	ILE	401	-47.605	5.191	33.362	1.00150.95	C
ATOM	3146	CB	ILE	401	-47.502	3.709	33.207	1.00150.95	C
ATOM	3147	CG1	ILE	401	-46.584	3.384	32.016	1.00150.95	C
ATOM	3148	CG2	ILE	401	-48.919	3.128	33.077	1.00150.95	C
ATOM	3149	CD1	ILE	401	-46.217	1.905	31.902	1.00150.95	C
ATOM	3150	C	ILE	401	-48.660	5.481	34.385	1.00150.95	C
ATOM	3151	O	ILE	401	-49.792	5.818	34.039	1.00150.95	O
ATOM	3152	N	ASN	402	-48.321	5.374	35.681	1.00160.21	N
ATOM	3153	CA	ASN	402	-49.315	5.545	36.703	1.00160.21	C
ATOM	3154	CB	ASN	402	-48.742	5.348	38.122	1.00160.21	C
ATOM	3155	CG	ASN	402	-48.450	3.865	38.328	1.00160.21	C
ATOM	3156	OD1	ASN	402	-49.333	3.019	38.185	1.00160.21	O
ATOM	3157	ND2	ASN	402	-47.177	3.534	38.676	1.00160.21	N
ATOM	3158	C	ASN	402	-49.862	6.933	36.607	1.00160.21	C
ATOM	3159	O	ASN	402	-51.063	7.170	36.733	1.00160.21	O
ATOM	3160	N	LYS	403	-48.943	7.875	36.369	1.00587.91	N
ATOM	3161	CA	LYS	403	-49.094	9.292	36.249	1.00587.91	C
ATOM	3162	CB	LYS	403	-47.722	9.864	35.855	1.00587.91	C
ATOM	3163	CG	LYS	403	-47.565	11.377	35.730	1.00587.91	C
ATOM	3164	CD	LYS	403	-47.032	12.073	36.980	1.00587.91	C
ATOM	3165	CE	LYS	403	-47.911	11.987	38.219	1.00587.91	C
ATOM	3166	NZ	LYS	403	-47.327	12.846	39.272	1.00587.91	N
ATOM	3167	C	LYS	403	-49.935	9.650	35.066	1.00587.91	C
ATOM	3168	O	LYS	403	-50.786	10.536	35.148	1.00587.91	O
ATOM	3169	N	VAL	404	-49.724	8.941	33.937	1.00594.09	N
ATOM	3170	CA	VAL	404	-50.202	9.482	32.691	1.00594.09	C
ATOM	3171	CB	VAL	404	-49.828	8.733	31.432	1.00594.09	C
ATOM	3172	CG1	VAL	404	-48.341	8.969	31.158	1.00594.09	C

ATOM	3173	CG2 VAL	404	-50.182	7.248	31.553	1.00594.09	C
ATOM	3174	C VAL	404	-51.636	9.787	32.659	1.00594.09	C
ATOM	3175	O VAL	404	-51.961	10.939	32.447	1.00594.09	O
ATOM	3176	N ARG	405	-52.543	8.856	32.932	1.00765.42	N
ATOM	3177	CA ARG	405	-53.919	9.225	32.764	1.00765.42	C
ATOM	3178	CB ARG	405	-54.407	10.513	33.483	1.00765.42	C
ATOM	3179	CG ARG	405	-54.479	10.278	34.998	1.00765.42	C
ATOM	3180	CD ARG	405	-53.583	11.182	35.850	1.00765.42	C
ATOM	3181	NE ARG	405	-54.079	12.580	35.762	1.00765.42	N
ATOM	3182	CZ ARG	405	-53.230	13.567	35.353	1.00765.42	C
ATOM	3183	NH1 ARG	405	-51.964	13.249	34.953	1.00765.42	N
ATOM	3184	NH2 ARG	405	-53.642	14.868	35.353	1.00765.42	N
ATOM	3185	C ARG	405	-54.215	9.122	31.320	1.00765.42	C
ATOM	3186	O ARG	405	-53.492	9.583	30.429	1.00765.42	O
ATOM	3187	N SER	406	-55.363	8.484	31.107	1.00623.39	N
ATOM	3188	CA SER	406	-55.715	7.899	29.859	1.00623.39	C
ATOM	3189	CB SER	406	-57.076	7.202	29.929	1.00623.39	C
ATOM	3190	OG SER	406	-58.069	8.154	30.277	1.00623.39	O
ATOM	3191	C SER	406	-55.738	8.818	28.687	1.00623.39	C
ATOM	3192	O SER	406	-55.292	8.418	27.616	1.00623.39	O
ATOM	3193	N ASN	407	-56.248	10.054	28.805	1.00999.99	N
ATOM	3194	CA ASN	407	-56.339	10.785	27.571	1.00999.99	C
ATOM	3195	CB ASN	407	-57.717	11.437	27.371	1.00999.99	C
ATOM	3196	CG ASN	407	-58.706	10.355	26.958	1.00999.99	C
ATOM	3197	OD1 ASN	407	-59.120	9.521	27.762	1.00999.99	O
ATOM	3198	ND2 ASN	407	-59.102	10.375	25.659	1.00999.99	N
ATOM	3199	C ASN	407	-55.314	11.872	27.479	1.00999.99	C
ATOM	3200	O ASN	407	-55.628	13.002	27.107	1.00999.99	O
ATOM	3201	N ALA	408	-54.039	11.555	27.759	1.00894.59	N
ATOM	3202	CA ALA	408	-53.018	12.553	27.605	1.00894.59	C
ATOM	3203	CB ALA	408	-51.684	12.167	28.260	1.00894.59	C
ATOM	3204	C ALA	408	-52.764	12.720	26.139	1.00894.59	C
ATOM	3205	O ALA	408	-52.927	11.779	25.366	1.00894.59	O
ATOM	3206	N ALA	409	-52.346	13.925	25.706	1.00336.47	N
ATOM	3207	CA ALA	409	-52.128	14.125	24.304	1.00336.47	C
ATOM	3208	CB ALA	409	-51.727	15.570	23.949	1.00336.47	C
ATOM	3209	C ALA	409	-51.010	13.257	23.893	1.00336.47	C
ATOM	3210	O ALA	409	-50.149	12.879	24.693	1.00336.47	O
ATOM	3211	N LEU	410	-51.007	12.882	22.610	1.00792.47	N
ATOM	3212	CA LEU	410	-49.855	12.132	22.280	1.00792.47	C
ATOM	3213	CB LEU	410	-49.831	11.317	20.997	1.00792.47	C
ATOM	3214	CG LEU	410	-50.847	10.188	21.187	1.00792.47	C
ATOM	3215	CD1 LEU	410	-50.830	9.664	22.637	1.00792.47	C
ATOM	3216	CD2 LEU	410	-52.239	10.583	20.707	1.00792.47	C
ATOM	3217	C LEU	410	-48.535	12.944	22.502	1.00792.47	C
ATOM	3218	O LEU	410	-47.721	12.206	22.934	1.00792.47	O
ATOM	3219	N GLY	411	-48.185	14.300	22.371	1.00966.49	N
ATOM	3220	CA GLY	411	-46.728	14.978	22.451	1.00966.49	C
ATOM	3221	C GLY	411	-45.319	15.188	21.250	1.00966.49	C
ATOM	3222	O GLY	411	-44.266	15.570	21.662	1.00966.49	O
ATOM	3223	N ALA	412	-45.322	14.862	19.782	1.00999.99	N
ATOM	3224	CA ALA	412	-45.073	14.581	18.279	1.00999.99	C
ATOM	3225	CB ALA	412	-43.711	13.907	18.031	1.00999.99	C
ATOM	3226	C ALA	412	-45.985	14.172	16.979	1.00999.99	C
ATOM	3227	O ALA	412	-47.210	14.117	16.787	1.00999.99	O
ATOM	3228	N ILE	413	-45.183	14.255	15.881	1.00999.99	N
ATOM	3229	CA ILE	413	-45.090	14.240	14.428	1.00999.99	C
ATOM	3230	CB ILE	413	-44.373	15.447	13.933	1.00999.99	C
ATOM	3231	CG1 ILE	413	-43.444	15.990	15.006	1.00999.99	C
ATOM	3232	CG2 ILE	413	-45.386	16.423	13.323	1.00999.99	C
ATOM	3233	CD1 ILE	413	-43.062	17.417	14.661	1.00999.99	C
ATOM	3234	C ILE	413	-44.938	13.173	13.353	1.00999.99	C
ATOM	3235	O ILE	413	-45.099	13.606	12.204	1.00999.99	O
ATOM	3236	N PHE	414	-44.422	11.937	13.553	1.00999.99	N
ATOM	3237	CA PHE	414	-44.362	10.991	12.445	1.00999.99	C
ATOM	3238	CB PHE	414	-43.541	9.686	12.620	1.00999.99	C

ATOM	3239	CG	PHE	414	-42.060	9.524	12.445	1.00999.99	C
ATOM	3240	CD1	PHE	414	-41.487	9.402	11.199	1.00999.99	C
ATOM	3241	CD2	PHE	414	-41.262	9.357	13.554	1.00999.99	C
ATOM	3242	CE1	PHE	414	-40.136	9.193	11.062	1.00999.99	C
ATOM	3243	CE2	PHE	414	-39.909	9.147	13.423	1.00999.99	C
ATOM	3244	CZ	PHE	414	-39.337	9.069	12.177	1.00999.99	C
ATOM	3245	C	PHE	414	-45.659	10.263	12.399	1.00999.99	C
ATOM	3246	O	PHE	414	-46.419	10.225	13.364	1.00999.99	O
ATOM	3247	N	GLU	415	-45.900	9.620	11.241	1.00999.99	N
ATOM	3248	CA	GLU	415	-47.049	8.797	11.054	1.00999.99	C
ATOM	3249	CB	GLU	415	-47.287	8.566	9.581	1.00999.99	C
ATOM	3250	CG	GLU	415	-47.765	9.924	9.050	1.00999.99	C
ATOM	3251	CD	GLU	415	-49.162	10.107	9.609	1.00999.99	C
ATOM	3252	OE1	GLU	415	-49.877	9.078	9.721	1.00999.99	O
ATOM	3253	OE2	GLU	415	-49.527	11.260	9.966	1.00999.99	O
ATOM	3254	C	GLU	415	-46.922	7.566	11.884	1.00999.99	C
ATOM	3255	O	GLU	415	-47.898	7.069	12.439	1.00999.99	O
ATOM	3256	N	GLU	416	-45.683	7.065	12.036	1.00999.99	N
ATOM	3257	CA	GLU	416	-45.489	5.891	12.831	1.00999.99	C
ATOM	3258	CB	GLU	416	-44.170	5.209	12.574	1.00999.99	C
ATOM	3259	CG	GLU	416	-43.025	6.185	12.458	1.00999.99	C
ATOM	3260	CD	GLU	416	-41.895	5.244	12.199	1.00999.99	C
ATOM	3261	OE1	GLU	416	-42.172	4.026	12.342	1.00999.99	O
ATOM	3262	OE2	GLU	416	-40.773	5.689	11.850	1.00999.99	O
ATOM	3263	C	GLU	416	-45.763	6.120	14.291	1.00999.99	C
ATOM	3264	O	GLU	416	-46.060	5.156	14.998	1.00999.99	O
ATOM	3265	N	GLU	417	-45.630	7.356	14.836	1.00999.99	N
ATOM	3266	CA	GLU	417	-46.000	7.342	16.215	1.00999.99	C
ATOM	3267	CB	GLU	417	-45.190	8.192	17.188	1.00999.99	C
ATOM	3268	CG	GLU	417	-45.162	9.664	16.854	1.00999.99	C
ATOM	3269	CD	GLU	417	-43.792	9.921	16.276	1.00999.99	C
ATOM	3270	OE1	GLU	417	-43.015	8.943	16.115	1.00999.99	O
ATOM	3271	OE2	GLU	417	-43.501	11.112	15.999	1.00999.99	O
ATOM	3272	C	GLU	417	-47.444	7.621	16.391	1.00999.99	C
ATOM	3273	O	GLU	417	-47.895	7.911	17.504	1.00999.99	O
ATOM	3274	N	LYS	418	-48.250	7.499	15.322	1.00999.99	N
ATOM	3275	CA	LYS	418	-49.593	7.661	15.750	1.00999.99	C
ATOM	3276	CB	LYS	418	-50.338	8.906	15.233	1.00999.99	C
ATOM	3277	CG	LYS	418	-51.394	9.352	16.255	1.00999.99	C
ATOM	3278	CD	LYS	418	-51.571	10.871	16.359	1.00999.99	C
ATOM	3279	CE	LYS	418	-52.837	11.429	15.717	1.00999.99	C
ATOM	3280	NZ	LYS	418	-52.779	11.232	14.255	1.00999.99	N
ATOM	3281	C	LYS	418	-50.333	6.394	15.593	1.00999.99	C
ATOM	3282	O	LYS	418	-51.343	6.317	14.905	1.00999.99	O
ATOM	3283	N	GLU	419	-49.788	5.364	16.267	1.00597.37	N
ATOM	3284	CA	GLU	419	-50.253	4.009	16.303	1.00597.37	C
ATOM	3285	CB	GLU	419	-49.217	3.061	16.931	1.00597.37	C
ATOM	3286	CG	GLU	419	-47.789	3.223	16.397	1.00597.37	C
ATOM	3287	CD	GLU	419	-47.507	2.260	15.257	1.00597.37	C
ATOM	3288	OE1	GLU	419	-48.473	1.750	14.634	1.00597.37	O
ATOM	3289	OE2	GLU	419	-46.296	2.027	14.997	1.00597.37	O
ATOM	3290	C	GLU	419	-51.436	3.905	17.215	1.00597.37	C
ATOM	3291	O	GLU	419	-52.292	3.040	17.036	1.00597.37	O
ATOM	3292	N	TRP	420	-51.493	4.746	18.267	1.00831.37	N
ATOM	3293	CA	TRP	420	-52.541	4.510	19.219	1.00831.37	C
ATOM	3294	CB	TRP	420	-52.085	4.566	20.676	1.00831.37	C
ATOM	3295	CG	TRP	420	-50.910	3.689	20.943	1.00831.37	C
ATOM	3296	CD2	TRP	420	-49.575	4.184	20.818	1.00831.37	C
ATOM	3297	CD1	TRP	420	-50.818	2.378	21.302	1.00831.37	C
ATOM	3298	NE1	TRP	420	-49.495	2.018	21.395	1.00831.37	N
ATOM	3299	CE2	TRP	420	-48.721	3.122	21.101	1.00831.37	C
ATOM	3300	CE3	TRP	420	-49.109	5.424	20.489	1.00831.37	C
ATOM	3301	CZ2	TRP	420	-47.368	3.286	21.059	1.00831.37	C
ATOM	3302	CZ3	TRP	420	-47.745	5.590	20.450	1.00831.37	C
ATOM	3303	CH2	TRP	420	-46.894	4.538	20.730	1.00831.37	C
ATOM	3304	C	TRP	420	-53.491	5.644	19.149	1.00831.37	C

ATOM	3305	O	TRP	420	-53.174	6.720	18.647	1.00831.37	O
ATOM	3306	N	LYS	421	-54.737	5.379	19.559	1.00999.99	N
ATOM	3307	CA	LYS	421	-55.675	6.444	19.663	1.00999.99	C
ATOM	3308	CB	LYS	421	-57.143	6.019	19.496	1.00999.99	C
ATOM	3309	CG	LYS	421	-57.543	5.824	18.026	1.00999.99	C
ATOM	3310	CD	LYS	421	-57.490	7.098	17.166	1.00999.99	C
ATOM	3311	CE	LYS	421	-58.443	8.226	17.599	1.00999.99	C
ATOM	3312	NZ	LYS	421	-59.863	7.878	17.341	1.00999.99	N
ATOM	3313	C	LYS	421	-55.493	7.196	20.952	1.00999.99	C
ATOM	3314	O	LYS	421	-55.762	8.391	20.991	1.00999.99	O
ATOM	3315	N	THR	422	-55.068	6.528	22.055	1.00577.37	N
ATOM	3316	CA	THR	422	-54.952	7.233	23.312	1.00577.37	C
ATOM	3317	CB	THR	422	-56.091	7.002	24.259	1.00577.37	C
ATOM	3318	OG1	THR	422	-56.238	5.617	24.535	1.00577.37	O
ATOM	3319	CG2	THR	422	-57.373	7.582	23.633	1.00577.37	C
ATOM	3320	C	THR	422	-53.655	6.926	24.019	1.00577.37	C
ATOM	3321	O	THR	422	-52.940	5.985	23.683	1.00577.37	O
ATOM	3322	N	ALA	423	-53.306	7.779	25.011	1.00517.58	N
ATOM	3323	CA	ALA	423	-52.075	7.698	25.753	1.00517.58	C
ATOM	3324	CB	ALA	423	-51.877	8.891	26.700	1.00517.58	C
ATOM	3325	C	ALA	423	-52.025	6.460	26.586	1.00517.58	C
ATOM	3326	O	ALA	423	-51.022	5.750	26.581	1.00517.58	O
ATOM	3327	N	VAL	424	-53.114	6.152	27.313	1.00318.16	N
ATOM	3328	CA	VAL	424	-53.108	4.992	28.147	1.00318.16	C
ATOM	3329	CB	VAL	424	-54.260	4.903	29.102	1.00318.16	C
ATOM	3330	CG1	VAL	424	-54.470	3.442	29.525	1.00318.16	C
ATOM	3331	CG2	VAL	424	-53.822	5.720	30.333	1.00318.16	C
ATOM	3332	C	VAL	424	-52.962	3.773	27.311	1.00318.16	C
ATOM	3333	O	VAL	424	-52.416	2.769	27.760	1.00318.16	O
ATOM	3334	N	GLU	425	-53.460	3.821	26.070	1.00314.94	N
ATOM	3335	CA	GLU	425	-53.345	2.713	25.172	1.00314.94	C
ATOM	3336	CB	GLU	425	-54.119	3.018	23.876	1.00314.94	C
ATOM	3337	CG	GLU	425	-54.578	1.803	23.073	1.00314.94	C
ATOM	3338	CD	GLU	425	-55.481	2.325	21.961	1.00314.94	C
ATOM	3339	OE1	GLU	425	-56.716	2.427	22.190	1.00314.94	O
ATOM	3340	OE2	GLU	425	-54.942	2.641	20.868	1.00314.94	O
ATOM	3341	C	GLU	425	-51.890	2.495	24.859	1.00314.94	C
ATOM	3342	O	GLU	425	-51.400	1.365	24.855	1.00314.94	O
ATOM	3343	N	ALA	426	-51.161	3.601	24.611	1.00620.96	N
ATOM	3344	CA	ALA	426	-49.780	3.605	24.215	1.00620.96	C
ATOM	3345	CB	ALA	426	-49.292	5.035	23.927	1.00620.96	C
ATOM	3346	C	ALA	426	-48.885	3.055	25.286	1.00620.96	C
ATOM	3347	O	ALA	426	-47.997	2.250	25.001	1.00620.96	O
ATOM	3348	N	VAL	427	-49.093	3.466	26.552	1.00354.32	N
ATOM	3349	CA	VAL	427	-48.210	3.021	27.594	1.00354.32	C
ATOM	3350	CB	VAL	427	-48.349	3.724	28.919	1.00354.32	C
ATOM	3351	CG1	VAL	427	-47.986	5.206	28.721	1.00354.32	C
ATOM	3352	CG2	VAL	427	-49.751	3.496	29.495	1.00354.32	C
ATOM	3353	C	VAL	427	-48.365	1.548	27.786	1.00354.32	C
ATOM	3354	O	VAL	427	-47.432	0.881	28.232	1.00354.32	O
ATOM	3355	N	ASN	428	-49.558	1.006	27.477	1.00162.04	N
ATOM	3356	CA	ASN	428	-49.782	-0.412	27.581	1.00162.04	C
ATOM	3357	CB	ASN	428	-51.097	-0.888	26.922	1.00162.04	C
ATOM	3358	CG	ASN	428	-52.242	-1.066	27.899	1.00162.04	C
ATOM	3359	OD1	ASN	428	-52.208	-1.975	28.724	1.00162.04	O
ATOM	3360	ND2	ASN	428	-53.305	-0.228	27.777	1.00162.04	N
ATOM	3361	C	ASN	428	-48.777	-1.130	26.753	1.00162.04	C
ATOM	3362	O	ASN	428	-48.173	-2.103	27.201	1.00162.04	O
ATOM	3363	N	ASP	429	-48.588	-0.632	25.515	1.00843.81	N
ATOM	3364	CA	ASP	429	-47.847	-1.280	24.473	1.00843.81	C
ATOM	3365	CB	ASP	429	-47.921	-0.540	23.136	1.00843.81	C
ATOM	3366	CG	ASP	429	-49.338	-0.663	22.652	1.00843.81	C
ATOM	3367	OD1	ASP	429	-50.249	-0.484	23.498	1.00843.81	O
ATOM	3368	OD2	ASP	429	-49.536	-0.949	21.443	1.00843.81	O
ATOM	3369	C	ASP	429	-46.391	-1.389	24.755	1.00843.81	C
ATOM	3370	O	ASP	429	-45.694	-0.435	25.096	1.00843.81	O

ATOM	3371	N	PRO	430	-45.968	-2.605	24.571	1.00242.10	N
ATOM	3372	CA	PRO	430	-44.583	-2.985	24.631	1.00242.10	C
ATOM	3373	CD	PRO	430	-46.876	-3.738	24.646	1.00242.10	C
ATOM	3374	CB	PRO	430	-44.595	-4.525	24.590	1.00242.10	C
ATOM	3375	CG	PRO	430	-46.027	-4.915	24.160	1.00242.10	C
ATOM	3376	C	PRO	430	-43.894	-2.353	23.464	1.00242.10	C
ATOM	3377	O	PRO	430	-42.696	-2.073	23.518	1.00242.10	O
ATOM	3378	N	ARG	431	-44.682	-2.107	22.412	1.00710.83	N
ATOM	3379	CA	ARG	431	-44.372	-1.559	21.128	1.00710.83	C
ATOM	3380	CB	ARG	431	-45.736	-1.461	20.418	1.00710.83	C
ATOM	3381	CG	ARG	431	-45.816	-0.367	19.377	1.00710.83	C
ATOM	3382	CD	ARG	431	-44.650	-0.527	18.433	1.00710.83	C
ATOM	3383	NE	ARG	431	-45.120	-0.320	17.048	1.00710.83	N
ATOM	3384	CZ	ARG	431	-45.678	-1.358	16.356	1.00710.83	C
ATOM	3385	NH1	ARG	431	-46.295	-2.388	17.006	1.00710.83	N
ATOM	3386	NH2	ARG	431	-45.563	-1.372	14.999	1.00710.83	N
ATOM	3387	C	ARG	431	-43.807	-0.178	21.274	1.00710.83	C
ATOM	3388	O	ARG	431	-42.834	0.223	20.634	1.00710.83	O
ATOM	3389	N	PHE	432	-44.454	0.574	22.154	1.00999.99	N
ATOM	3390	CA	PHE	432	-44.291	1.948	22.500	1.00999.99	C
ATOM	3391	CB	PHE	432	-45.401	2.137	23.535	1.00999.99	C
ATOM	3392	CG	PHE	432	-45.378	3.462	24.109	1.00999.99	C
ATOM	3393	CD1	PHE	432	-45.391	4.546	23.273	1.00999.99	C
ATOM	3394	CD2	PHE	432	-45.418	3.608	25.474	1.00999.99	C
ATOM	3395	CE1	PHE	432	-45.391	5.810	23.796	1.00999.99	C
ATOM	3396	CE2	PHE	432	-45.424	4.874	26.002	1.00999.99	C
ATOM	3397	CZ	PHE	432	-45.400	5.961	25.159	1.00999.99	C
ATOM	3398	C	PHE	432	-42.923	2.202	23.073	1.00999.99	C
ATOM	3399	O	PHE	432	-42.203	3.099	22.628	1.00999.99	O
ATOM	3400	N	TRP	433	-42.491	1.401	24.057	1.00446.12	N
ATOM	3401	CA	TRP	433	-41.220	1.732	24.631	1.00446.12	C
ATOM	3402	CB	TRP	433	-40.715	0.991	25.874	1.00446.12	C
ATOM	3403	CG	TRP	433	-41.513	0.995	27.151	1.00446.12	C
ATOM	3404	CD2	TRP	433	-42.150	2.080	27.862	1.00446.12	C
ATOM	3405	CD1	TRP	433	-41.775	-0.130	27.864	1.00446.12	C
ATOM	3406	NE1	TRP	433	-42.512	0.173	28.976	1.00446.12	N
ATOM	3407	CE2	TRP	433	-42.758	1.523	28.989	1.00446.12	C
ATOM	3408	CE3	TRP	433	-42.234	3.421	27.608	1.00446.12	C
ATOM	3409	CZ2	TRP	433	-43.456	2.287	29.878	1.00446.12	C
ATOM	3410	CZ3	TRP	433	-42.937	4.190	28.513	1.00446.12	C
ATOM	3411	CH2	TRP	433	-43.535	3.636	29.626	1.00446.12	C
ATOM	3412	C	TRP	433	-40.137	1.466	23.638	1.00446.12	C
ATOM	3413	O	TRP	433	-39.052	2.023	23.764	1.00446.12	O
ATOM	3414	N	ALA	434	-40.349	0.548	22.678	1.00230.29	N
ATOM	3415	CA	ALA	434	-39.283	0.232	21.766	1.00230.29	C
ATOM	3416	CB	ALA	434	-39.683	-0.817	20.713	1.00230.29	C
ATOM	3417	C	ALA	434	-38.890	1.472	21.025	1.00230.29	C
ATOM	3418	O	ALA	434	-37.708	1.734	20.811	1.00230.29	O
ATOM	3419	N	LEU	435	-39.882	2.270	20.610	1.00603.15	N
ATOM	3420	CA	LEU	435	-39.608	3.446	19.839	1.00603.15	C
ATOM	3421	CB	LEU	435	-40.940	3.930	19.208	1.00603.15	C
ATOM	3422	CG	LEU	435	-40.877	4.767	17.892	1.00603.15	C
ATOM	3423	CD1	LEU	435	-40.736	6.292	18.094	1.00603.15	C
ATOM	3424	CD2	LEU	435	-39.713	4.284	17.005	1.00603.15	C
ATOM	3425	C	LEU	435	-38.903	4.438	20.736	1.00603.15	C
ATOM	3426	O	LEU	435	-37.988	5.146	20.311	1.00603.15	O
ATOM	3427	N	VAL	436	-39.297	4.484	22.028	1.00384.95	N
ATOM	3428	CA	VAL	436	-38.718	5.366	23.017	1.00384.95	C
ATOM	3429	CB	VAL	436	-39.383	5.198	24.355	1.00384.95	C
ATOM	3430	CG1	VAL	436	-38.696	6.118	25.379	1.00384.95	C
ATOM	3431	CG2	VAL	436	-40.894	5.444	24.189	1.00384.95	C
ATOM	3432	C	VAL	436	-37.268	5.059	23.204	1.00384.95	C
ATOM	3433	O	VAL	436	-36.428	5.960	23.190	1.00384.95	O
ATOM	3434	N	ASP	437	-36.938	3.764	23.361	1.00136.55	N
ATOM	3435	CA	ASP	437	-35.591	3.372	23.658	1.00136.55	C
ATOM	3436	CB	ASP	437	-35.465	1.880	24.014	1.00136.55	C

ATOM	3437	CG	ASP	437	-36.106	1.690	25.391	1.00136.55	C
ATOM	3438	OD1	ASP	437	-36.722	2.662	25.905	1.00136.55	O
ATOM	3439	OD2	ASP	437	-35.980	0.569	25.952	1.00136.55	O
ATOM	3440	C	ASP	437	-34.696	3.728	22.510	1.00136.55	C
ATOM	3441	O	ASP	437	-33.537	4.091	22.709	1.00136.55	O
ATOM	3442	N	ARG	438	-35.217	3.644	21.272	1.00200.07	N
ATOM	3443	CA	ARG	438	-34.423	3.960	20.121	1.00200.07	C
ATOM	3444	CB	ARG	438	-35.171	3.637	18.804	1.00200.07	C
ATOM	3445	CG	ARG	438	-35.580	2.153	18.721	1.00200.07	C
ATOM	3446	CD	ARG	438	-36.113	1.663	17.365	1.00200.07	C
ATOM	3447	NE	ARG	438	-36.474	0.221	17.524	1.00200.07	N
ATOM	3448	CZ	ARG	438	-36.670	-0.590	16.441	1.00200.07	C
ATOM	3449	NH1	ARG	438	-36.480	-0.118	15.174	1.00200.07	N
ATOM	3450	NH2	ARG	438	-37.062	-1.884	16.626	1.00200.07	N
ATOM	3451	C	ARG	438	-34.023	5.415	20.190	1.00200.07	C
ATOM	3452	O	ARG	438	-32.875	5.760	19.913	1.00200.07	O
ATOM	3453	N	GLU	439	-34.963	6.306	20.586	1.00356.40	N
ATOM	3454	CA	GLU	439	-34.731	7.727	20.732	1.00356.40	C
ATOM	3455	CB	GLU	439	-35.954	8.463	21.300	1.00356.40	C
ATOM	3456	CG	GLU	439	-37.100	8.673	20.334	1.00356.40	C
ATOM	3457	CD	GLU	439	-36.617	9.749	19.389	1.00356.40	C
ATOM	3458	OE1	GLU	439	-35.585	9.507	18.715	1.00356.40	O
ATOM	3459	OE2	GLU	439	-37.258	10.829	19.330	1.00356.40	O
ATOM	3460	C	GLU	439	-33.734	7.989	21.815	1.00356.40	C
ATOM	3461	O	GLU	439	-32.838	8.823	21.688	1.00356.40	O
ATOM	3462	N	ARG	440	-33.907	7.274	22.933	1.00200.88	N
ATOM	3463	CA	ARG	440	-33.170	7.484	24.145	1.00200.88	C
ATOM	3464	CB	ARG	440	-33.645	6.477	25.215	1.00200.88	C
ATOM	3465	CG	ARG	440	-33.567	6.959	26.666	1.00200.88	C
ATOM	3466	CD	ARG	440	-34.158	5.958	27.662	1.00200.88	C
ATOM	3467	NE	ARG	440	-33.029	5.456	28.482	1.00200.88	N
ATOM	3468	CZ	ARG	440	-32.114	4.633	27.900	1.00200.88	C
ATOM	3469	NH1	ARG	440	-32.266	4.286	26.590	1.00200.88	N
ATOM	3470	NH2	ARG	440	-31.043	4.188	28.615	1.00200.88	N
ATOM	3471	C	ARG	440	-31.711	7.268	23.868	1.00200.88	C
ATOM	3472	O	ARG	440	-30.859	8.041	24.307	1.00200.88	O
ATOM	3473	N	GLU	441	-31.387	6.217	23.094	1.00 81.36	N
ATOM	3474	CA	GLU	441	-30.022	5.889	22.793	1.00 81.36	C
ATOM	3475	CB	GLU	441	-29.896	4.641	21.906	1.00 81.36	C
ATOM	3476	CG	GLU	441	-30.423	3.368	22.570	1.00 81.36	C
ATOM	3477	CD	GLU	441	-29.512	3.039	23.742	1.00 81.36	C
ATOM	3478	OE1	GLU	441	-28.518	3.785	23.951	1.00 81.36	O
ATOM	3479	OE2	GLU	441	-29.798	2.032	24.442	1.00 81.36	O
ATOM	3480	C	GLU	441	-29.434	7.027	22.027	1.00 81.36	C
ATOM	3481	O	GLU	441	-28.265	7.368	22.207	1.00 81.36	O
ATOM	3482	N	HIS	442	-30.237	7.640	21.137	1.00 79.33	N
ATOM	3483	CA	HIS	442	-29.760	8.714	20.319	1.00 79.33	C
ATOM	3484	ND1	HIS	442	-29.800	7.706	17.362	1.00 79.33	N
ATOM	3485	CG	HIS	442	-30.865	8.088	18.149	1.00 79.33	C
ATOM	3486	CB	HIS	442	-30.765	9.133	19.228	1.00 79.33	C
ATOM	3487	NE2	HIS	442	-31.544	6.501	16.693	1.00 79.33	N
ATOM	3488	CD2	HIS	442	-31.923	7.341	17.726	1.00 79.33	C
ATOM	3489	CE1	HIS	442	-30.262	6.755	16.510	1.00 79.33	C
ATOM	3490	C	HIS	442	-29.391	9.885	21.180	1.00 79.33	C
ATOM	3491	O	HIS	442	-28.377	10.538	20.938	1.00 79.33	O
ATOM	3492	N	HIS	443	-30.191	10.164	22.226	1.00133.37	N
ATOM	3493	CA	HIS	443	-29.939	11.269	23.109	1.00133.37	C
ATOM	3494	ND1	HIS	443	-33.011	11.771	22.568	1.00133.37	N
ATOM	3495	CG	HIS	443	-32.296	12.122	23.690	1.00133.37	C
ATOM	3496	CB	HIS	443	-31.041	11.443	24.175	1.00133.37	C
ATOM	3497	NE2	HIS	443	-34.096	13.473	23.500	1.00133.37	N
ATOM	3498	CD2	HIS	443	-32.973	13.162	24.244	1.00133.37	C
ATOM	3499	CE1	HIS	443	-34.077	12.611	22.503	1.00133.37	C
ATOM	3500	C	HIS	443	-28.628	11.072	23.824	1.00133.37	C
ATOM	3501	O	HIS	443	-27.884	12.028	24.036	1.00133.37	O
ATOM	3502	N	LEU	444	-28.298	9.828	24.220	1.00 76.14	N

ATOM	3503	CA	LEU	444	-27.066	9.586	24.924	1.00	76.14	C
ATOM	3504	CB	LEU	444	-26.900	8.122	25.349	1.00	76.14	C
ATOM	3505	CG	LEU	444	-27.939	7.724	26.414	1.00	76.14	C
ATOM	3506	CD1	LEU	444	-27.769	6.263	26.853	1.00	76.14	C
ATOM	3507	CD2	LEU	444	-27.926	8.713	27.590	1.00	76.14	C
ATOM	3508	C	LEU	444	-25.928	9.973	24.030	1.00	76.14	C
ATOM	3509	O	LEU	444	-24.860	10.385	24.484	1.00	76.14	O
ATOM	3510	N	ARG	445	-26.129	9.793	22.721	1.00183.45		N
ATOM	3511	CA	ARG	445	-25.184	10.130	21.697	1.00183.45		C
ATOM	3512	CB	ARG	445	-25.565	9.532	20.343	1.00183.45		C
ATOM	3513	CG	ARG	445	-25.469	8.022	20.468	1.00183.45		C
ATOM	3514	CD	ARG	445	-25.587	7.223	19.181	1.00183.45		C
ATOM	3515	NE	ARG	445	-24.935	5.934	19.523	1.00183.45		N
ATOM	3516	CZ	ARG	445	-23.585	5.839	19.358	1.00183.45		C
ATOM	3517	NH1	ARG	445	-22.925	6.805	18.652	1.00183.45		N
ATOM	3518	NH2	ARG	445	-22.893	4.800	19.910	1.00183.45		N
ATOM	3519	C	ARG	445	-25.064	11.614	21.565	1.00183.45		C
ATOM	3520	O	ARG	445	-24.058	12.111	21.061	1.00183.45		O
ATOM	3521	N	GLY	446	-26.096	12.367	21.987	1.00	43.97	N
ATOM	3522	CA	GLY	446	-26.021	13.785	21.800	1.00	43.97	C
ATOM	3523	C	GLY	446	-26.685	14.114	20.499	1.00	43.97	C
ATOM	3524	O	GLY	446	-26.300	15.066	19.821	1.00	43.97	O
ATOM	3525	N	GLU	447	-27.688	13.301	20.107	1.00	94.67	N
ATOM	3526	CA	GLU	447	-28.405	13.541	18.884	1.00	94.67	C
ATOM	3527	CB	GLU	447	-28.120	12.490	17.804	1.00	94.67	C
ATOM	3528	CG	GLU	447	-26.664	12.448	17.338	1.00	94.67	C
ATOM	3529	CD	GLU	447	-26.552	11.286	16.364	1.00	94.67	C
ATOM	3530	OE1	GLU	447	-27.522	11.082	15.586	1.00	94.67	O
ATOM	3531	OE2	GLU	447	-25.503	10.589	16.383	1.00	94.67	O
ATOM	3532	C	GLU	447	-29.879	13.443	19.179	1.00	94.67	C
ATOM	3533	O	GLU	447	-30.279	12.752	20.113	1.00	94.67	O
ATOM	3534	N	CYS	448	-30.724	14.157	18.393	1.00119.33		N
ATOM	3535	CA	CYS	448	-32.164	14.111	18.555	1.00119.33		C
ATOM	3536	CB	CYS	448	-32.757	15.417	19.112	1.00119.33		C
ATOM	3537	SG	CYS	448	-34.571	15.379	19.199	1.00119.33		S
ATOM	3538	C	CYS	448	-32.792	13.905	17.208	1.00119.33		C
ATOM	3539	O	CYS	448	-32.583	14.704	16.296	1.00119.33		O
ATOM	3540	N	HIS	449	-33.448	12.741	17.006	1.00459.88		N
ATOM	3541	CA	HIS	449	-34.151	12.452	15.787	1.00459.88		C
ATOM	3542	ND1	HIS	449	-31.807	9.994	15.920	1.00459.88		N
ATOM	3543	CG	HIS	449	-32.715	10.602	15.084	1.00459.88		C
ATOM	3544	CB	HIS	449	-34.109	10.962	15.453	1.00459.88		C
ATOM	3545	NE2	HIS	449	-30.744	10.405	14.010	1.00459.88		N
ATOM	3546	CD2	HIS	449	-32.052	10.844	13.922	1.00459.88		C
ATOM	3547	CE1	HIS	449	-30.643	9.901	15.226	1.00459.88		C
ATOM	3548	C	HIS	449	-35.594	12.873	15.730	1.00459.88		C
ATOM	3549	O	HIS	449	-36.024	13.544	14.798	1.00459.88		O
ATOM	3550	N	SER	450	-36.397	12.382	16.697	1.00516.59		N
ATOM	3551	CA	SER	450	-37.830	12.543	16.684	1.00516.59		C
ATOM	3552	CB	SER	450	-38.591	11.224	16.934	1.00516.59		C
ATOM	3553	OG	SER	450	-39.973	11.362	16.638	1.00516.59		O
ATOM	3554	C	SER	450	-38.396	13.564	17.636	1.00516.59		C
ATOM	3555	O	SER	450	-39.614	13.631	17.775	1.00516.59		O
ATOM	3556	N	CYS	451	-37.609	14.365	18.367	1.00272.57		N
ATOM	3557	CA	CYS	451	-38.301	15.175	19.334	1.00272.57		C
ATOM	3558	CB	CYS	451	-37.451	15.390	20.589	1.00272.57		C
ATOM	3559	SG	CYS	451	-36.890	13.780	21.236	1.00272.57		S
ATOM	3560	C	CYS	451	-38.660	16.489	18.726	1.00272.57		C
ATOM	3561	O	CYS	451	-37.808	17.348	18.515	1.00272.57		O
ATOM	3562	N	VAL	452	-39.970	16.693	18.472	1.00334.20		N
ATOM	3563	CA	VAL	452	-40.356	17.887	17.784	1.00334.20		C
ATOM	3564	CB	VAL	452	-40.693	17.609	16.359	1.00334.20		C
ATOM	3565	CG1	VAL	452	-40.708	18.927	15.587	1.00334.20		C
ATOM	3566	CG2	VAL	452	-39.816	16.470	15.814	1.00334.20		C
ATOM	3567	C	VAL	452	-41.634	18.353	18.420	1.00334.20		C
ATOM	3568	O	VAL	452	-42.315	17.589	19.096	1.00334.20		O

ATOM	3569	N	TYR	453	-42.014	19.631	18.219	1.00647.76	N
ATOM	3570	CA	TYR	453	-43.207	20.139	18.848	1.00647.76	C
ATOM	3571	CB	TYR	453	-43.017	21.524	19.506	1.00647.76	C
ATOM	3572	CG	TYR	453	-41.992	21.462	20.588	1.00647.76	C
ATOM	3573	CD1	TYR	453	-42.342	21.030	21.841	1.00647.76	C
ATOM	3574	CD2	TYR	453	-40.683	21.844	20.362	1.00647.76	C
ATOM	3575	CE1	TYR	453	-41.397	20.979	22.847	1.00647.76	C
ATOM	3576	CE2	TYR	453	-39.745	21.791	21.369	1.00647.76	C
ATOM	3577	CZ	TYR	453	-40.101	21.355	22.615	1.00647.76	C
ATOM	3578	OH	TYR	453	-39.141	21.287	23.646	1.00647.76	O
ATOM	3579	C	TYR	453	-44.174	20.440	17.757	1.00647.76	C
ATOM	3580	O	TYR	453	-43.787	20.891	16.682	1.00647.76	O
ATOM	3581	N	ASN	454	-45.460	20.141	17.991	1.00526.42	N
ATOM	3582	CA	ASN	454	-46.438	20.685	17.125	1.00526.42	C
ATOM	3583	CB	ASN	454	-47.438	19.702	16.479	1.00526.42	C
ATOM	3584	CG	ASN	454	-46.809	18.926	15.304	1.00526.42	C
ATOM	3585	OD1	ASN	454	-47.504	18.195	14.599	1.00526.42	O
ATOM	3586	ND2	ASN	454	-45.479	19.073	15.066	1.00526.42	N
ATOM	3587	C	ASN	454	-47.096	21.798	17.895	1.00526.42	C
ATOM	3588	O	ASN	454	-47.236	21.797	19.119	1.00526.42	O
ATOM	3589	N	MET	455	-47.464	22.856	17.181	1.00520.75	N
ATOM	3590	CA	MET	455	-47.913	24.022	17.872	1.00520.75	C
ATOM	3591	CB	MET	455	-46.849	25.105	17.658	1.00520.75	C
ATOM	3592	CG	MET	455	-47.032	26.439	18.351	1.00520.75	C
ATOM	3593	SD	MET	455	-47.227	27.755	17.135	1.00520.75	S
ATOM	3594	CE	MET	455	-45.749	27.208	16.231	1.00520.75	C
ATOM	3595	C	MET	455	-49.257	24.348	17.328	1.00520.75	C
ATOM	3596	O	MET	455	-49.436	24.425	16.113	1.00520.75	O
ATOM	3597	N	MET	456	-50.247	24.489	18.238	1.00597.43	N
ATOM	3598	CA	MET	456	-51.592	24.738	17.802	1.00597.43	C
ATOM	3599	CB	MET	456	-52.450	23.461	17.791	1.00597.43	C
ATOM	3600	CG	MET	456	-52.808	22.968	19.197	1.00597.43	C
ATOM	3601	SD	MET	456	-51.394	22.560	20.278	1.00597.43	S
ATOM	3602	CE	MET	456	-51.252	20.809	19.824	1.00597.43	C
ATOM	3603	C	MET	456	-52.262	25.714	18.731	1.00597.43	C
ATOM	3604	O	MET	456	-51.726	26.101	19.767	1.00597.43	O
ATOM	3605	N	GLY	457	-53.470	26.172	18.340	1.00130.70	N
ATOM	3606	CA	GLY	457	-54.200	27.103	19.143	1.00130.70	C
ATOM	3607	C	GLY	457	-54.872	26.400	20.279	1.00130.70	C
ATOM	3608	O	GLY	457	-55.414	25.305	20.135	1.00130.70	O
ATOM	3609	N	LYS	458	-54.882	27.061	21.449	1.00114.83	N
ATOM	3610	CA	LYS	458	-55.540	26.529	22.600	1.00114.83	C
ATOM	3611	CB	LYS	458	-54.882	26.941	23.926	1.00114.83	C
ATOM	3612	CG	LYS	458	-55.600	26.357	25.141	1.00114.83	C
ATOM	3613	CD	LYS	458	-54.967	26.734	26.478	1.00114.83	C
ATOM	3614	CE	LYS	458	-53.604	26.106	26.713	1.00114.83	C
ATOM	3615	NZ	LYS	458	-53.225	26.245	28.134	1.00114.83	N
ATOM	3616	C	LYS	458	-56.925	27.092	22.628	1.00114.83	C
ATOM	3617	O	LYS	458	-57.135	28.291	22.446	1.00114.83	O
ATOM	3618	N	ARG	459	-57.923	26.224	22.866	1.00127.53	N
ATOM	3619	CA	ARG	459	-59.279	26.682	22.931	1.00127.53	C
ATOM	3620	CB	ARG	459	-60.307	25.546	22.814	1.00127.53	C
ATOM	3621	CG	ARG	459	-60.309	24.848	21.458	1.00127.53	C
ATOM	3622	CD	ARG	459	-61.173	25.570	20.428	1.00127.53	C
ATOM	3623	NE	ARG	459	-62.569	25.589	20.945	1.00127.53	N
ATOM	3624	CZ	ARG	459	-63.463	26.479	20.427	1.00127.53	C
ATOM	3625	NH1	ARG	459	-63.066	27.353	19.456	1.00127.53	N
ATOM	3626	NH2	ARG	459	-64.752	26.497	20.874	1.00127.53	N
ATOM	3627	C	ARG	459	-59.484	27.271	24.292	1.00127.53	C
ATOM	3628	O	ARG	459	-59.344	26.579	25.302	1.00127.53	O
ATOM	3629	N	GLU	460	-59.832	28.573	24.356	1.00 82.98	N
ATOM	3630	CA	GLU	460	-60.004	29.191	25.637	1.00 82.98	C
ATOM	3631	CB	GLU	460	-58.744	29.949	26.095	1.00 82.98	C
ATOM	3632	CG	GLU	460	-57.567	28.990	26.307	1.00 82.98	C
ATOM	3633	CD	GLU	460	-56.383	29.732	26.910	1.00 82.98	C
ATOM	3634	OE1	GLU	460	-55.909	30.719	26.287	1.00 82.98	O

ATOM	3635	OE2	GLU	460	-55.934	29.307	28.007	1.00	82.98	O
ATOM	3636	C	GLU	460	-61.169	30.136	25.592	1.00	82.98	C
ATOM	3637	O	GLU	460	-61.557	30.623	24.530	1.00	82.98	O
ATOM	3638	N	LYS	461	-61.784	30.387	26.769	1.00	75.48	N
ATOM	3639	CA	LYS	461	-62.904	31.284	26.850	1.00	75.48	C
ATOM	3640	CB	LYS	461	-63.948	30.834	27.885	1.00	75.48	C
ATOM	3641	CG	LYS	461	-64.654	29.555	27.435	1.00	75.48	C
ATOM	3642	CD	LYS	461	-65.431	28.812	28.521	1.00	75.48	C
ATOM	3643	CE	LYS	461	-66.212	27.625	27.952	1.00	75.48	C
ATOM	3644	NZ	LYS	461	-66.888	26.876	29.032	1.00	75.48	N
ATOM	3645	C	LYS	461	-62.372	32.624	27.261	1.00	75.48	C
ATOM	3646	O	LYS	461	-61.874	32.790	28.374	1.00	75.48	O
ATOM	3647	N	LYS	462	-62.464	33.626	26.357	1.00	106.21	N
ATOM	3648	CA	LYS	462	-61.943	34.919	26.704	1.00	106.21	C
ATOM	3649	CB	LYS	462	-60.488	35.166	26.273	1.00	106.21	C
ATOM	3650	CG	LYS	462	-59.522	34.418	27.194	1.00	106.21	C
ATOM	3651	CD	LYS	462	-58.064	34.417	26.750	1.00	106.21	C
ATOM	3652	CE	LYS	462	-57.172	33.634	27.713	1.00	106.21	C
ATOM	3653	NZ	LYS	462	-57.673	32.245	27.831	1.00	106.21	N
ATOM	3654	C	LYS	462	-62.812	36.015	26.176	1.00	106.21	C
ATOM	3655	O	LYS	462	-63.806	35.772	25.494	1.00	106.21	O
ATOM	3656	N	GLN	463	-62.462	37.273	26.526	1.00	91.18	N
ATOM	3657	CA	GLN	463	-63.220	38.411	26.092	1.00	91.18	C
ATOM	3658	CB	GLN	463	-62.768	39.738	26.737	1.00	91.18	C
ATOM	3659	CG	GLN	463	-61.339	40.170	26.397	1.00	91.18	C
ATOM	3660	CD	GLN	463	-61.072	41.488	27.117	1.00	91.18	C
ATOM	3661	OE1	GLN	463	-61.997	42.207	27.490	1.00	91.18	O
ATOM	3662	NE2	GLN	463	-59.767	41.815	27.327	1.00	91.18	N
ATOM	3663	C	GLN	463	-63.080	38.497	24.602	1.00	91.18	C
ATOM	3664	O	GLN	463	-62.087	38.043	24.035	1.00	91.18	O
ATOM	3665	N	GLY	464	-64.090	39.084	23.928	1.00	40.11	N
ATOM	3666	CA	GLY	464	-64.129	39.114	22.491	1.00	40.11	C
ATOM	3667	C	GLY	464	-63.221	40.180	21.948	1.00	40.11	C
ATOM	3668	O	GLY	464	-62.488	40.837	22.686	1.00	40.11	O
ATOM	3669	N	GLU	465	-63.215	40.330	20.604	1.00	76.80	N
ATOM	3670	CA	GLU	465	-62.424	41.341	19.962	1.00	76.80	C
ATOM	3671	CB	GLU	465	-60.974	40.895	19.685	1.00	76.80	C
ATOM	3672	CG	GLU	465	-60.023	42.046	19.345	1.00	76.80	C
ATOM	3673	CD	GLU	465	-58.618	41.481	19.158	1.00	76.80	C
ATOM	3674	OE1	GLU	465	-58.416	40.711	18.180	1.00	76.80	O
ATOM	3675	OE2	GLU	465	-57.731	41.809	19.990	1.00	76.80	O
ATOM	3676	C	GLU	465	-63.092	41.656	18.656	1.00	76.80	C
ATOM	3677	O	GLU	465	-63.452	40.760	17.893	1.00	76.80	O
ATOM	3678	N	PHE	466	-63.276	42.957	18.372	1.00	93.33	N
ATOM	3679	CA	PHE	466	-63.923	43.418	17.173	1.00	93.33	C
ATOM	3680	CB	PHE	466	-63.213	43.034	15.866	1.00	93.33	C
ATOM	3681	CG	PHE	466	-61.842	43.597	15.909	1.00	93.33	C
ATOM	3682	CD1	PHE	466	-61.647	44.953	16.008	1.00	93.33	C
ATOM	3683	CD2	PHE	466	-60.755	42.760	15.816	1.00	93.33	C
ATOM	3684	CE1	PHE	466	-60.373	45.465	16.041	1.00	93.33	C
ATOM	3685	CE2	PHE	466	-59.480	43.268	15.847	1.00	93.33	C
ATOM	3686	CZ	PHE	466	-59.290	44.623	15.964	1.00	93.33	C
ATOM	3687	C	PHE	466	-65.288	42.804	17.094	1.00	93.33	C
ATOM	3688	O	PHE	466	-65.775	42.509	16.005	1.00	93.33	O
ATOM	3689	N	GLY	467	-65.943	42.574	18.247	1.00	53.38	N
ATOM	3690	CA	GLY	467	-67.277	42.041	18.230	1.00	53.38	C
ATOM	3691	C	GLY	467	-67.269	40.581	17.861	1.00	53.38	C
ATOM	3692	O	GLY	467	-68.327	40.014	17.584	1.00	53.38	O
ATOM	3693	N	LYS	468	-66.092	39.922	17.835	1.00	999.99	N
ATOM	3694	CA	LYS	468	-66.074	38.519	17.506	1.00	999.99	C
ATOM	3695	CB	LYS	468	-65.637	38.145	16.080	1.00	999.99	C
ATOM	3696	CG	LYS	468	-66.667	38.396	14.981	1.00	999.99	C
ATOM	3697	CD	LYS	468	-66.130	37.993	13.605	1.00	999.99	C
ATOM	3698	CE	LYS	468	-66.997	38.434	12.429	1.00	999.99	C
ATOM	3699	NZ	LYS	468	-66.409	39.646	11.816	1.00	999.99	N
ATOM	3700	C	LYS	468	-65.108	37.811	18.401	1.00	999.99	C

ATOM	3701	O	LYS	468	-64.773	38.279	19.488	1.00999.99	O
ATOM	3702	N	ALA	469	-64.667	36.614	17.959	1.00287.28	N
ATOM	3703	CA	ALA	469	-63.776	35.800	18.735	1.00287.28	C
ATOM	3704	CB	ALA	469	-63.779	34.323	18.310	1.00287.28	C
ATOM	3705	C	ALA	469	-62.374	36.300	18.608	1.00287.28	C
ATOM	3706	O	ALA	469	-61.971	36.827	17.574	1.00287.28	O
ATOM	3707	N	LYS	470	-61.585	36.126	19.683	1.00464.06	N
ATOM	3708	CA	LYS	470	-60.219	36.546	19.675	1.00464.06	C
ATOM	3709	CB	LYS	470	-59.780	36.958	21.096	1.00464.06	C
ATOM	3710	CG	LYS	470	-58.707	38.047	21.149	1.00464.06	C
ATOM	3711	CD	LYS	470	-58.798	38.908	22.417	1.00464.06	C
ATOM	3712	CE	LYS	470	-57.924	38.462	23.589	1.00464.06	C
ATOM	3713	NZ	LYS	470	-58.145	39.361	24.748	1.00464.06	N
ATOM	3714	C	LYS	470	-59.423	35.400	19.115	1.00464.06	C
ATOM	3715	O	LYS	470	-59.928	34.281	19.028	1.00464.06	O
ATOM	3716	N	GLY	471	-58.175	35.659	18.659	1.00546.38	N
ATOM	3717	CA	GLY	471	-57.353	34.615	18.103	1.00546.38	C
ATOM	3718	C	GLY	471	-56.864	33.796	19.252	1.00546.38	C
ATOM	3719	O	GLY	471	-57.072	34.157	20.408	1.00546.38	O
ATOM	3720	N	SER	472	-56.151	32.690	18.959	1.00999.99	N
ATOM	3721	CA	SER	472	-55.828	31.741	19.989	1.00999.99	C
ATOM	3722	CB	SER	472	-56.042	30.301	19.485	1.00999.99	C
ATOM	3723	OG	SER	472	-55.784	29.367	20.514	1.00999.99	O
ATOM	3724	C	SER	472	-54.394	31.857	20.425	1.00999.99	C
ATOM	3725	O	SER	472	-53.528	32.261	19.652	1.00999.99	O
ATOM	3726	N	ARG	473	-54.137	31.524	21.715	1.00999.99	N
ATOM	3727	CA	ARG	473	-52.812	31.469	22.272	1.00999.99	C
ATOM	3728	CB	ARG	473	-52.735	31.387	23.821	1.00999.99	C
ATOM	3729	CG	ARG	473	-51.304	31.528	24.382	1.00999.99	C
ATOM	3730	CD	ARG	473	-51.034	30.941	25.781	1.00999.99	C
ATOM	3731	NE	ARG	473	-52.060	31.428	26.751	1.00999.99	N
ATOM	3732	CZ	ARG	473	-51.824	32.401	27.688	1.00999.99	C
ATOM	3733	NH1	ARG	473	-50.653	33.104	27.743	1.00999.99	N
ATOM	3734	NH2	ARG	473	-52.802	32.685	28.598	1.00999.99	N
ATOM	3735	C	ARG	473	-52.221	30.190	21.779	1.00999.99	C
ATOM	3736	O	ARG	473	-52.908	29.175	21.663	1.00999.99	O
ATOM	3737	N	ALA	474	-50.910	30.197	21.494	1.00999.99	N
ATOM	3738	CA	ALA	474	-50.335	29.025	20.924	1.00999.99	C
ATOM	3739	CB	ALA	474	-49.194	29.340	19.938	1.00999.99	C
ATOM	3740	C	ALA	474	-49.786	28.150	22.003	1.00999.99	C
ATOM	3741	O	ALA	474	-49.095	28.602	22.915	1.00999.99	O
ATOM	3742	N	ILE	475	-50.125	26.850	21.939	1.00999.99	N
ATOM	3743	CA	ILE	475	-49.534	25.932	22.864	1.00999.99	C
ATOM	3744	CB	ILE	475	-50.490	25.335	23.873	1.00999.99	C
ATOM	3745	CG1	ILE	475	-49.760	24.392	24.834	1.00999.99	C
ATOM	3746	CG2	ILE	475	-51.643	24.639	23.143	1.00999.99	C
ATOM	3747	CD1	ILE	475	-49.390	23.036	24.230	1.00999.99	C
ATOM	3748	C	ILE	475	-48.837	24.886	22.041	1.00999.99	C
ATOM	3749	O	ILE	475	-49.316	24.475	20.983	1.00999.99	O
ATOM	3750	N	TRP	476	-47.635	24.460	22.490	1.00999.99	N
ATOM	3751	CA	TRP	476	-46.894	23.505	21.710	1.00999.99	C
ATOM	3752	CB	TRP	476	-45.911	24.141	20.722	1.00999.99	C
ATOM	3753	CG	TRP	476	-45.277	25.414	21.201	1.00999.99	C
ATOM	3754	CD2	TRP	476	-43.892	25.702	21.014	1.00999.99	C
ATOM	3755	CD1	TRP	476	-45.815	26.496	21.834	1.00999.99	C
ATOM	3756	NE1	TRP	476	-44.850	27.448	22.033	1.00999.99	N
ATOM	3757	CE2	TRP	476	-43.660	26.971	21.536	1.00999.99	C
ATOM	3758	CE3	TRP	476	-42.906	24.964	20.440	1.00999.99	C
ATOM	3759	CZ2	TRP	476	-42.419	27.531	21.494	1.00999.99	C
ATOM	3760	CZ3	TRP	476	-41.654	25.532	20.411	1.00999.99	C
ATOM	3761	CH2	TRP	476	-41.414	26.788	20.924	1.00999.99	C
ATOM	3762	C	TRP	476	-46.271	22.380	22.498	1.00999.99	C
ATOM	3763	O	TRP	476	-45.792	22.595	23.614	1.00999.99	O
ATOM	3764	N	TYR	477	-46.329	21.156	21.868	1.00999.99	N
ATOM	3765	CA	TYR	477	-45.990	19.800	22.342	1.00999.99	C
ATOM	3766	CB	TYR	477	-46.622	19.744	23.720	1.00999.99	C

ATOM	3767	CG	TYR	477	-47.212	18.509	24.167	1.00999.99	C
ATOM	3768	CD1	TYR	477	-46.500	17.545	24.814	1.00999.99	C
ATOM	3769	CD2	TYR	477	-48.556	18.404	23.946	1.00999.99	C
ATOM	3770	CE1	TYR	477	-47.175	16.431	25.219	1.00999.99	C
ATOM	3771	CE2	TYR	477	-49.234	17.301	24.349	1.00999.99	C
ATOM	3772	CZ	TYR	477	-48.526	16.320	24.988	1.00999.99	C
ATOM	3773	OH	TYR	477	-49.202	15.164	25.411	1.00999.99	O
ATOM	3774	C	TYR	477	-46.293	18.620	21.160	1.00999.99	C
ATOM	3775	O	TYR	477	-45.625	18.841	20.180	1.00999.99	O
ATOM	3776	N	MET	478	-47.042	17.345	21.147	1.00999.99	N
ATOM	3777	CA	MET	478	-47.612	16.266	20.029	1.00999.99	C
ATOM	3778	CB	MET	478	-47.559	16.697	18.556	1.00999.99	C
ATOM	3779	CG	MET	478	-48.964	16.559	17.917	1.00999.99	C
ATOM	3780	SD	MET	478	-49.762	18.180	17.729	1.00999.99	S
ATOM	3781	CE	MET	478	-50.807	17.908	16.271	1.00999.99	C
ATOM	3782	C	MET	478	-47.800	14.485	19.846	1.00999.99	C
ATOM	3783	O	MET	478	-48.732	14.000	19.267	1.00999.99	O
ATOM	3784	N	TRP	479	-46.864	13.488	20.292	1.00999.99	N
ATOM	3785	CA	TRP	479	-45.935	12.381	20.723	1.00999.99	C
ATOM	3786	CB	TRP	479	-45.202	11.877	19.481	1.00999.99	C
ATOM	3787	CG	TRP	479	-43.962	11.012	19.516	1.00999.99	C
ATOM	3788	CD2	TRP	479	-43.933	9.621	19.825	1.00999.99	C
ATOM	3789	CD1	TRP	479	-42.687	11.397	19.279	1.00999.99	C
ATOM	3790	NE1	TRP	479	-41.842	10.333	19.409	1.00999.99	N
ATOM	3791	CE2	TRP	479	-42.580	9.238	19.752	1.00999.99	C
ATOM	3792	CE3	TRP	479	-44.886	8.712	20.107	1.00999.99	C
ATOM	3793	CZ2	TRP	479	-42.199	7.944	19.966	1.00999.99	C
ATOM	3794	CZ3	TRP	479	-44.507	7.423	20.360	1.00999.99	C
ATOM	3795	CH2	TRP	479	-43.187	7.033	20.285	1.00999.99	C
ATOM	3796	C	TRP	479	-45.161	12.328	22.112	1.00999.99	C
ATOM	3797	O	TRP	479	-44.258	13.061	22.578	1.00999.99	O
ATOM	3798	N	LEU	480	-45.539	11.236	22.816	1.00954.53	N
ATOM	3799	CA	LEU	480	-45.438	10.918	24.211	1.00954.53	C
ATOM	3800	CB	LEU	480	-46.128	9.625	24.737	1.00954.53	C
ATOM	3801	CG	LEU	480	-47.051	8.740	23.869	1.00954.53	C
ATOM	3802	CD1	LEU	480	-47.875	7.784	24.755	1.00954.53	C
ATOM	3803	CD2	LEU	480	-47.910	9.505	22.887	1.00954.53	C
ATOM	3804	C	LEU	480	-44.048	10.573	24.501	1.00954.53	C
ATOM	3805	O	LEU	480	-43.587	10.706	25.632	1.00954.53	O
ATOM	3806	N	GLY	481	-43.406	9.988	23.480	1.00565.29	N
ATOM	3807	CA	GLY	481	-42.076	9.511	23.643	1.00565.29	C
ATOM	3808	C	GLY	481	-41.183	10.651	24.023	1.00565.29	C
ATOM	3809	O	GLY	481	-40.383	10.517	24.941	1.00565.29	O
ATOM	3810	N	ALA	482	-41.294	11.809	23.348	1.00323.70	N
ATOM	3811	CA	ALA	482	-40.472	12.952	23.644	1.00323.70	C
ATOM	3812	CB	ALA	482	-40.783	14.141	22.713	1.00323.70	C
ATOM	3813	C	ALA	482	-40.760	13.387	25.049	1.00323.70	C
ATOM	3814	O	ALA	482	-39.849	13.765	25.778	1.00323.70	O
ATOM	3815	N	ARG	483	-42.043	13.368	25.463	1.00602.49	N
ATOM	3816	CA	ARG	483	-42.392	13.777	26.799	1.00602.49	C
ATOM	3817	CB	ARG	483	-43.887	13.921	27.101	1.00602.49	C
ATOM	3818	CG	ARG	483	-44.294	15.381	27.015	1.00602.49	C
ATOM	3819	CD	ARG	483	-43.108	16.248	26.635	1.00602.49	C
ATOM	3820	NE	ARG	483	-43.044	16.213	25.152	1.00602.49	N
ATOM	3821	CZ	ARG	483	-43.265	17.380	24.484	1.00602.49	C
ATOM	3822	NH1	ARG	483	-43.551	18.502	25.201	1.00602.49	N
ATOM	3823	NH2	ARG	483	-43.160	17.462	23.129	1.00602.49	N
ATOM	3824	C	ARG	483	-41.861	12.844	27.829	1.00602.49	C
ATOM	3825	O	ARG	483	-41.479	13.270	28.911	1.00602.49	O
ATOM	3826	N	PHE	484	-41.860	11.535	27.532	1.00214.98	N
ATOM	3827	CA	PHE	484	-41.374	10.551	28.451	1.00214.98	C
ATOM	3828	CB	PHE	484	-41.438	9.149	27.815	1.00214.98	C
ATOM	3829	CG	PHE	484	-40.732	8.214	28.715	1.00214.98	C
ATOM	3830	CD1	PHE	484	-41.362	7.735	29.836	1.00214.98	C
ATOM	3831	CD2	PHE	484	-39.442	7.819	28.437	1.00214.98	C
ATOM	3832	CE1	PHE	484	-40.708	6.871	30.675	1.00214.98	C

ATOM	3833	CE2	PHE	484	-38.781	6.952	29.272	1.00214.98	C
ATOM	3834	CZ	PHE	484	-39.422	6.480	30.391	1.00214.98	C
ATOM	3835	C	PHE	484	-39.943	10.862	28.701	1.00214.98	C
ATOM	3836	O	PHE	484	-39.500	10.852	29.847	1.00214.98	O
ATOM	3837	N	LEU	485	-39.185	11.162	27.631	1.00135.37	N
ATOM	3838	CA	LEU	485	-37.787	11.443	27.797	1.00135.37	C
ATOM	3839	CB	LEU	485	-37.014	11.637	26.477	1.00135.37	C
ATOM	3840	CG	LEU	485	-36.364	10.349	25.946	1.00135.37	C
ATOM	3841	CD1	LEU	485	-35.827	10.542	24.519	1.00135.37	C
ATOM	3842	CD2	LEU	485	-35.242	9.892	26.898	1.00135.37	C
ATOM	3843	C	LEU	485	-37.563	12.657	28.642	1.00135.37	C
ATOM	3844	O	LEU	485	-36.637	12.674	29.457	1.00135.37	O
ATOM	3845	N	GLU	486	-38.384	13.705	28.457	1.00230.20	N
ATOM	3846	CA	GLU	486	-38.261	14.922	29.212	1.00230.20	C
ATOM	3847	CB	GLU	486	-39.346	15.925	28.773	1.00230.20	C
ATOM	3848	CG	GLU	486	-39.209	17.347	29.314	1.00230.20	C
ATOM	3849	CD	GLU	486	-38.894	18.281	28.155	1.00230.20	C
ATOM	3850	OE1	GLU	486	-37.943	17.985	27.386	1.00230.20	O
ATOM	3851	OE2	GLU	486	-39.601	19.316	28.031	1.00230.20	O
ATOM	3852	C	GLU	486	-38.513	14.586	30.649	1.00230.20	C
ATOM	3853	O	GLU	486	-37.783	14.962	31.567	1.00230.20	O
ATOM	3854	N	PHE	487	-39.566	13.786	30.836	1.00171.67	N
ATOM	3855	CA	PHE	487	-40.123	13.338	32.074	1.00171.67	C
ATOM	3856	CB	PHE	487	-41.195	12.313	31.676	1.00171.67	C
ATOM	3857	CG	PHE	487	-42.125	12.068	32.778	1.00171.67	C
ATOM	3858	CD1	PHE	487	-43.167	12.938	32.921	1.00171.67	C
ATOM	3859	CD2	PHE	487	-41.977	11.015	33.650	1.00171.67	C
ATOM	3860	CE1	PHE	487	-44.067	12.758	33.933	1.00171.67	C
ATOM	3861	CE2	PHE	487	-42.883	10.834	34.665	1.00171.67	C
ATOM	3862	CZ	PHE	487	-43.928	11.710	34.806	1.00171.67	C
ATOM	3863	C	PHE	487	-39.072	12.605	32.838	1.00171.67	C
ATOM	3864	O	PHE	487	-38.853	12.865	34.022	1.00171.67	O
ATOM	3865	N	GLU	488	-38.387	11.646	32.189	1.00155.02	N
ATOM	3866	CA	GLU	488	-37.468	10.918	33.000	1.00155.02	C
ATOM	3867	CB	GLU	488	-36.933	9.579	32.453	1.00155.02	C
ATOM	3868	CG	GLU	488	-35.896	9.637	31.337	1.00155.02	C
ATOM	3869	CD	GLU	488	-35.067	8.362	31.468	1.00155.02	C
ATOM	3870	OE1	GLU	488	-35.115	7.740	32.560	1.00155.02	O
ATOM	3871	OE2	GLU	488	-34.362	7.994	30.495	1.00155.02	O
ATOM	3872	C	GLU	488	-36.320	11.786	33.419	1.00155.02	C
ATOM	3873	O	GLU	488	-35.826	11.653	34.535	1.00155.02	O
ATOM	3874	N	ALA	489	-35.803	12.655	32.531	1.00 88.26	N
ATOM	3875	CA	ALA	489	-34.676	13.439	32.947	1.00 88.26	C
ATOM	3876	CB	ALA	489	-33.982	14.139	31.763	1.00 88.26	C
ATOM	3877	C	ALA	489	-35.009	14.507	33.960	1.00 88.26	C
ATOM	3878	O	ALA	489	-34.371	14.579	35.007	1.00 88.26	O
ATOM	3879	N	LEU	490	-35.961	15.411	33.632	1.00162.20	N
ATOM	3880	CA	LEU	490	-36.367	16.546	34.435	1.00162.20	C
ATOM	3881	CB	LEU	490	-36.441	17.883	33.664	1.00162.20	C
ATOM	3882	CG	LEU	490	-35.022	18.406	33.297	1.00162.20	C
ATOM	3883	CD1	LEU	490	-35.050	19.795	32.642	1.00162.20	C
ATOM	3884	CD2	LEU	490	-34.080	18.372	34.513	1.00162.20	C
ATOM	3885	C	LEU	490	-37.525	16.377	35.383	1.00162.20	C
ATOM	3886	O	LEU	490	-37.785	17.267	36.191	1.00162.20	O
ATOM	3887	N	GLY	491	-38.292	15.281	35.277	1.00 86.13	N
ATOM	3888	CA	GLY	491	-39.530	15.056	35.982	1.00 86.13	C
ATOM	3889	C	GLY	491	-39.399	15.129	37.478	1.00 86.13	C
ATOM	3890	O	GLY	491	-40.391	15.357	38.166	1.00 86.13	O
ATOM	3891	N	PHE	492	-38.203	14.890	38.039	1.00104.71	N
ATOM	3892	CA	PHE	492	-38.060	14.851	39.467	1.00104.71	C
ATOM	3893	CB	PHE	492	-36.666	14.418	39.959	1.00104.71	C
ATOM	3894	CG	PHE	492	-35.612	15.371	39.526	1.00104.71	C
ATOM	3895	CD1	PHE	492	-35.294	16.460	40.301	1.00104.71	C
ATOM	3896	CD2	PHE	492	-34.930	15.166	38.351	1.00104.71	C
ATOM	3897	CE1	PHE	492	-34.313	17.337	39.905	1.00104.71	C
ATOM	3898	CE2	PHE	492	-33.949	16.040	37.952	1.00104.71	C

ATOM	3899	CZ	PHE	492	-33.639	17.129	38.728	1.00104.71	C
ATOM	3900	C	PHE	492	-38.462	16.162	40.073	1.00104.71	C
ATOM	3901	O	PHE	492	-38.922	16.197	41.213	1.00104.71	O
ATOM	3902	N	LEU	493	-38.303	17.283	39.345	1.00 84.54	N
ATOM	3903	CA	LEU	493	-38.654	18.560	39.903	1.00 84.54	C
ATOM	3904	CB	LEU	493	-38.555	19.711	38.884	1.00 84.54	C
ATOM	3905	CG	LEU	493	-37.130	20.052	38.420	1.00 84.54	C
ATOM	3906	CD1	LEU	493	-37.147	21.217	37.416	1.00 84.54	C
ATOM	3907	CD2	LEU	493	-36.202	20.333	39.614	1.00 84.54	C
ATOM	3908	C	LEU	493	-40.088	18.545	40.349	1.00 84.54	C
ATOM	3909	O	LEU	493	-40.406	19.037	41.429	1.00 84.54	O
ATOM	3910	N	ASN	494	-41.014	18.054	39.508	1.00110.59	N
ATOM	3911	CA	ASN	494	-42.392	18.020	39.910	1.00110.59	C
ATOM	3912	CB	ASN	494	-43.356	17.944	38.721	1.00110.59	C
ATOM	3913	CG	ASN	494	-43.313	19.312	38.062	1.00110.59	C
ATOM	3914	OD1	ASN	494	-43.522	20.331	38.721	1.00110.59	O
ATOM	3915	ND2	ASN	494	-43.014	19.346	36.736	1.00110.59	N
ATOM	3916	C	ASN	494	-42.712	16.890	40.849	1.00110.59	C
ATOM	3917	O	ASN	494	-43.398	17.081	41.852	1.00110.59	O
ATOM	3918	N	GLU	495	-42.209	15.678	40.556	1.00139.74	N
ATOM	3919	CA	GLU	495	-42.593	14.506	41.297	1.00139.74	C
ATOM	3920	CB	GLU	495	-41.951	13.231	40.713	1.00139.74	C
ATOM	3921	CG	GLU	495	-42.197	13.040	39.207	1.00139.74	C
ATOM	3922	CD	GLU	495	-43.667	12.744	38.941	1.00139.74	C
ATOM	3923	OE1	GLU	495	-44.133	11.641	39.334	1.00139.74	O
ATOM	3924	OE2	GLU	495	-44.341	13.615	38.328	1.00139.74	O
ATOM	3925	C	GLU	495	-42.156	14.634	42.721	1.00139.74	C
ATOM	3926	O	GLU	495	-42.888	14.280	43.643	1.00139.74	O
ATOM	3927	N	ASP	496	-40.917	15.113	42.908	1.00113.57	N
ATOM	3928	CA	ASP	496	-40.250	15.324	44.160	1.00113.57	C
ATOM	3929	CB	ASP	496	-38.728	15.311	44.000	1.00113.57	C
ATOM	3930	CG	ASP	496	-38.426	13.874	43.585	1.00113.57	C
ATOM	3931	OD1	ASP	496	-39.266	12.991	43.909	1.00113.57	O
ATOM	3932	OD2	ASP	496	-37.377	13.636	42.932	1.00113.57	O
ATOM	3933	C	ASP	496	-40.732	16.574	44.833	1.00113.57	C
ATOM	3934	O	ASP	496	-40.376	16.828	45.982	1.00113.57	O
ATOM	3935	N	HIS	497	-41.506	17.414	44.116	1.00 96.33	N
ATOM	3936	CA	HIS	497	-42.048	18.626	44.670	1.00 96.33	C
ATOM	3937	ND1	HIS	497	-45.310	17.968	45.035	1.00 96.33	N
ATOM	3938	CG	HIS	497	-44.129	17.502	45.568	1.00 96.33	C
ATOM	3939	CB	HIS	497	-42.950	18.370	45.890	1.00 96.33	C
ATOM	3940	NE2	HIS	497	-45.547	15.770	45.280	1.00 96.33	N
ATOM	3941	CD2	HIS	497	-44.291	16.158	45.711	1.00 96.33	C
ATOM	3942	CE1	HIS	497	-46.122	16.891	44.883	1.00 96.33	C
ATOM	3943	C	HIS	497	-40.959	19.559	45.102	1.00 96.33	C
ATOM	3944	O	HIS	497	-40.944	20.042	46.233	1.00 96.33	O
ATOM	3945	N	TRP	498	-40.016	19.843	44.188	1.00125.57	N
ATOM	3946	CA	TRP	498	-38.931	20.746	44.455	1.00125.57	C
ATOM	3947	CB	TRP	498	-37.868	20.741	43.344	1.00125.57	C
ATOM	3948	CG	TRP	498	-36.935	19.556	43.446	1.00125.57	C
ATOM	3949	CD2	TRP	498	-35.506	19.649	43.353	1.00125.57	C
ATOM	3950	CD1	TRP	498	-37.224	18.233	43.604	1.00125.57	C
ATOM	3951	NE1	TRP	498	-36.064	17.499	43.642	1.00125.57	N
ATOM	3952	CE2	TRP	498	-34.997	18.357	43.480	1.00125.57	C
ATOM	3953	CE3	TRP	498	-34.684	20.724	43.171	1.00125.57	C
ATOM	3954	CZ2	TRP	498	-33.655	18.118	43.430	1.00125.57	C
ATOM	3955	CZ3	TRP	498	-33.330	20.482	43.122	1.00125.57	C
ATOM	3956	CH2	TRP	498	-32.827	19.204	43.250	1.00125.57	C
ATOM	3957	C	TRP	498	-39.446	22.142	44.676	1.00125.57	C
ATOM	3958	O	TRP	498	-38.835	22.921	45.401	1.00125.57	O
ATOM	3959	N	MET	499	-40.533	22.503	43.973	1.00179.83	N
ATOM	3960	CA	MET	499	-41.256	23.752	43.967	1.00179.83	C
ATOM	3961	CB	MET	499	-42.101	23.945	42.695	1.00179.83	C
ATOM	3962	CG	MET	499	-41.282	24.193	41.424	1.00179.83	C
ATOM	3963	SD	MET	499	-40.325	22.770	40.823	1.00179.83	S
ATOM	3964	CE	MET	499	-38.840	23.139	41.801	1.00179.83	C

ATOM	3965	C	MET	499	-42.174	23.945	45.142	1.00179.83	C
ATOM	3966	O	MET	499	-42.745	25.025	45.288	1.00179.83	O
ATOM	3967	N	GLY	500	-42.467	22.892	45.927	1.00 46.14	N
ATOM	3968	CA	GLY	500	-43.415	23.040	47.001	1.00 46.14	C
ATOM	3969	C	GLY	500	-42.953	24.146	47.895	1.00 46.14	C
ATOM	3970	O	GLY	500	-41.794	24.552	47.856	1.00 46.14	O
ATOM	3971	N	ARG	501	-43.874	24.679	48.723	1.00160.23	N
ATOM	3972	CA	ARG	501	-43.529	25.796	49.555	1.00160.23	C
ATOM	3973	CB	ARG	501	-44.736	26.463	50.250	1.00160.23	C
ATOM	3974	CG	ARG	501	-45.599	25.566	51.136	1.00160.23	C
ATOM	3975	CD	ARG	501	-46.845	26.295	51.651	1.00160.23	C
ATOM	3976	NE	ARG	501	-47.518	26.902	50.468	1.00160.23	N
ATOM	3977	CZ	ARG	501	-47.211	28.176	50.086	1.00160.23	C
ATOM	3978	NH1	ARG	501	-46.316	28.911	50.810	1.00160.23	N
ATOM	3979	NH2	ARG	501	-47.800	28.718	48.980	1.00160.23	N
ATOM	3980	C	ARG	501	-42.485	25.410	50.560	1.00160.23	C
ATOM	3981	O	ARG	501	-41.596	26.206	50.862	1.00160.23	O
ATOM	3982	N	GLU	502	-42.536	24.180	51.106	1.00 51.04	N
ATOM	3983	CA	GLU	502	-41.559	23.839	52.100	1.00 51.04	C
ATOM	3984	CB	GLU	502	-41.713	22.411	52.656	1.00 51.04	C
ATOM	3985	CG	GLU	502	-40.658	22.075	53.717	1.00 51.04	C
ATOM	3986	CD	GLU	502	-40.854	20.639	54.185	1.00 51.04	C
ATOM	3987	OE1	GLU	502	-41.823	19.984	53.715	1.00 51.04	O
ATOM	3988	OE2	GLU	502	-40.032	20.177	55.022	1.00 51.04	O
ATOM	3989	C	GLU	502	-40.178	23.908	51.517	1.00 51.04	C
ATOM	3990	O	GLU	502	-39.270	24.472	52.126	1.00 51.04	O
ATOM	3991	N	ASN	503	-39.972	23.302	50.335	1.00 87.99	N
ATOM	3992	CA	ASN	503	-38.660	23.260	49.750	1.00 87.99	C
ATOM	3993	CB	ASN	503	-38.518	22.195	48.650	1.00 87.99	C
ATOM	3994	CG	ASN	503	-37.027	21.970	48.433	1.00 87.99	C
ATOM	3995	OD1	ASN	503	-36.331	21.466	49.313	1.00 87.99	O
ATOM	3996	ND2	ASN	503	-36.520	22.348	47.231	1.00 87.99	N
ATOM	3997	C	ASN	503	-38.203	24.571	49.161	1.00 87.99	C
ATOM	3998	O	ASN	503	-37.051	24.961	49.348	1.00 87.99	O
ATOM	3999	N	SER	504	-39.071	25.241	48.371	1.00 83.30	N
ATOM	4000	CA	SER	504	-38.737	26.451	47.654	1.00 83.30	C
ATOM	4001	CB	SER	504	-39.566	26.621	46.368	1.00 83.30	C
ATOM	4002	OG	SER	504	-40.945	26.749	46.682	1.00 83.30	O
ATOM	4003	C	SER	504	-38.877	27.707	48.466	1.00 83.30	C
ATOM	4004	O	SER	504	-38.252	28.720	48.155	1.00 83.30	O
ATOM	4005	N	GLY	505	-39.774	27.708	49.466	1.00 58.47	N
ATOM	4006	CA	GLY	505	-39.980	28.852	50.309	1.00 58.47	C
ATOM	4007	C	GLY	505	-41.013	29.732	49.662	1.00 58.47	C
ATOM	4008	O	GLY	505	-42.029	30.065	50.270	1.00 58.47	O
ATOM	4009	N	GLY	506	-40.722	30.183	48.422	1.00 70.16	N
ATOM	4010	CA	GLY	506	-41.572	31.010	47.602	1.00 70.16	C
ATOM	4011	C	GLY	506	-42.689	30.267	46.907	1.00 70.16	C
ATOM	4012	O	GLY	506	-43.763	30.825	46.689	1.00 70.16	O
ATOM	4013	N	GLY	507	-42.436	29.009	46.482	1.00 76.21	N
ATOM	4014	CA	GLY	507	-43.346	28.258	45.641	1.00 76.21	C
ATOM	4015	C	GLY	507	-44.590	27.792	46.355	1.00 76.21	C
ATOM	4016	O	GLY	507	-44.661	27.745	47.580	1.00 76.21	O
ATOM	4017	N	VAL	508	-45.668	27.633	45.552	1.00161.89	N
ATOM	4018	CA	VAL	508	-46.993	27.133	45.838	1.00161.89	C
ATOM	4019	CB	VAL	508	-48.070	28.040	45.326	1.00161.89	C
ATOM	4020	CG1	VAL	508	-47.987	29.352	46.125	1.00161.89	C
ATOM	4021	CG2	VAL	508	-47.881	28.234	43.813	1.00161.89	C
ATOM	4022	C	VAL	508	-47.300	25.722	45.407	1.00161.89	C
ATOM	4023	O	VAL	508	-48.414	25.256	45.650	1.00161.89	O
ATOM	4024	N	GLU	509	-46.397	25.052	44.662	1.00146.88	N
ATOM	4025	CA	GLU	509	-46.722	23.817	43.990	1.00146.88	C
ATOM	4026	CB	GLU	509	-45.491	23.134	43.363	1.00146.88	C
ATOM	4027	CG	GLU	509	-45.830	21.994	42.399	1.00146.88	C
ATOM	4028	CD	GLU	509	-45.922	20.701	43.197	1.00146.88	C
ATOM	4029	OE1	GLU	509	-45.540	20.723	44.396	1.00146.88	O
ATOM	4030	OE2	GLU	509	-46.369	19.676	42.618	1.00146.88	O

ATOM	4031	C	GLU	509	-47.438	22.825	44.858	1.00146.88	C
ATOM	4032	O	GLU	509	-47.030	22.527	45.979	1.00146.88	O
ATOM	4033	N	GLY	510	-48.558	22.294	44.314	1.00109.45	N
ATOM	4034	CA	GLY	510	-49.347	21.268	44.937	1.00109.45	C
ATOM	4035	C	GLY	510	-50.532	21.857	45.641	1.00109.45	C
ATOM	4036	O	GLY	510	-51.488	21.144	45.937	1.00109.45	O
ATOM	4037	N	LEU	511	-50.517	23.170	45.923	1.00315.69	N
ATOM	4038	CA	LEU	511	-51.614	23.753	46.645	1.00315.69	C
ATOM	4039	CB	LEU	511	-51.272	25.107	47.293	1.00315.69	C
ATOM	4040	CG	LEU	511	-50.341	25.031	48.517	1.00315.69	C
ATOM	4041	CD1	LEU	511	-48.988	24.394	48.187	1.00315.69	C
ATOM	4042	CD2	LEU	511	-50.180	26.417	49.153	1.00315.69	C
ATOM	4043	C	LEU	511	-52.776	24.009	45.728	1.00315.69	C
ATOM	4044	O	LEU	511	-52.612	24.422	44.582	1.00315.69	O
ATOM	4045	N	GLY	512	-54.006	23.775	46.229	1.00143.10	N
ATOM	4046	CA	GLY	512	-55.196	24.041	45.472	1.00143.10	C
ATOM	4047	C	GLY	512	-55.568	25.472	45.710	1.00143.10	C
ATOM	4048	O	GLY	512	-54.931	26.178	46.489	1.00143.10	O
ATOM	4049	N	LEU	513	-56.651	25.917	45.047	1.00130.83	N
ATOM	4050	CA	LEU	513	-57.108	27.279	45.100	1.00130.83	C
ATOM	4051	CB	LEU	513	-58.289	27.529	44.140	1.00130.83	C
ATOM	4052	CG	LEU	513	-58.777	28.991	44.090	1.00130.83	C
ATOM	4053	CD1	LEU	513	-57.666	29.933	43.598	1.00130.83	C
ATOM	4054	CD2	LEU	513	-60.062	29.119	43.254	1.00130.83	C
ATOM	4055	C	LEU	513	-57.550	27.594	46.498	1.00130.83	C
ATOM	4056	O	LEU	513	-57.390	28.715	46.981	1.00130.83	O
ATOM	4057	N	GLN	514	-58.112	26.587	47.188	1.00152.33	N
ATOM	4058	CA	GLN	514	-58.664	26.735	48.502	1.00152.33	C
ATOM	4059	CB	GLN	514	-59.220	25.405	49.039	1.00152.33	C
ATOM	4060	CG	GLN	514	-60.232	24.738	48.100	1.00152.33	C
ATOM	4061	CD	GLN	514	-59.458	24.002	47.013	1.00152.33	C
ATOM	4062	OE1	GLN	514	-58.540	23.233	47.296	1.00152.33	O
ATOM	4063	NE2	GLN	514	-59.833	24.240	45.729	1.00152.33	N
ATOM	4064	C	GLN	514	-57.588	27.179	49.458	1.00152.33	C
ATOM	4065	O	GLN	514	-57.885	27.812	50.466	1.00152.33	O
ATOM	4066	N	ARG	515	-56.337	26.735	49.236	1.00203.20	N
ATOM	4067	CA	ARG	515	-55.164	27.025	50.028	1.00203.20	C
ATOM	4068	CB	ARG	515	-54.062	25.995	49.747	1.00203.20	C
ATOM	4069	CG	ARG	515	-52.899	26.057	50.729	1.00203.20	C
ATOM	4070	CD	ARG	515	-53.274	25.607	52.139	1.00203.20	C
ATOM	4071	NE	ARG	515	-52.015	25.536	52.932	1.00203.20	N
ATOM	4072	CZ	ARG	515	-51.493	26.670	53.481	1.00203.20	C
ATOM	4073	NH1	ARG	515	-52.092	27.875	53.254	1.00203.20	N
ATOM	4074	NH2	ARG	515	-50.370	26.600	54.254	1.00203.20	N
ATOM	4075	C	ARG	515	-54.556	28.396	49.814	1.00203.20	C
ATOM	4076	O	ARG	515	-54.031	29.010	50.743	1.00203.20	O
ATOM	4077	N	LEU	516	-54.614	28.922	48.579	1.00 85.11	N
ATOM	4078	CA	LEU	516	-53.865	30.086	48.178	1.00 85.11	C
ATOM	4079	CB	LEU	516	-54.123	30.448	46.708	1.00 85.11	C
ATOM	4080	CG	LEU	516	-53.700	29.325	45.742	1.00 85.11	C
ATOM	4081	CD1	LEU	516	-53.969	29.711	44.280	1.00 85.11	C
ATOM	4082	CD2	LEU	516	-52.248	28.889	45.996	1.00 85.11	C
ATOM	4083	C	LEU	516	-54.169	31.295	49.011	1.00 85.11	C
ATOM	4084	O	LEU	516	-53.268	32.085	49.298	1.00 85.11	O
ATOM	4085	N	GLY	517	-55.438	31.500	49.400	1.00 37.14	N
ATOM	4086	CA	GLY	517	-55.785	32.672	50.161	1.00 37.14	C
ATOM	4087	C	GLY	517	-55.067	32.659	51.476	1.00 37.14	C
ATOM	4088	O	GLY	517	-54.569	33.691	51.925	1.00 37.14	O
ATOM	4089	N	TYR	518	-54.993	31.481	52.125	1.00 81.43	N
ATOM	4090	CA	TYR	518	-54.377	31.364	53.416	1.00 81.43	C
ATOM	4091	CB	TYR	518	-54.483	29.945	54.011	1.00 81.43	C
ATOM	4092	CG	TYR	518	-55.933	29.624	54.181	1.00 81.43	C
ATOM	4093	CD1	TYR	518	-56.615	30.013	55.310	1.00 81.43	C
ATOM	4094	CD2	TYR	518	-56.617	28.944	53.199	1.00 81.43	C
ATOM	4095	CE1	TYR	518	-57.952	29.720	55.461	1.00 81.43	C
ATOM	4096	CE2	TYR	518	-57.953	28.648	53.343	1.00 81.43	C

ATOM	4097	CZ	TYR	518	-58.625	29.036	54.477	1.00	81.43	C
ATOM	4098	OH	TYR	518	-59.996	28.736	54.631	1.00	81.43	O
ATOM	4099	C	TYR	518	-52.921	31.724	53.317	1.00	81.43	C
ATOM	4100	O	TYR	518	-52.378	32.353	54.223	1.00	81.43	O
ATOM	4101	N	ILE	519	-52.234	31.310	52.230	1.00	116.79	N
ATOM	4102	CA	ILE	519	-50.829	31.613	52.086	1.00	116.79	C
ATOM	4103	CB	ILE	519	-50.154	31.022	50.869	1.00	116.79	C
ATOM	4104	CG1	ILE	519	-50.039	29.487	50.931	1.00	116.79	C
ATOM	4105	CG2	ILE	519	-48.780	31.701	50.746	1.00	116.79	C
ATOM	4106	CD1	ILE	519	-51.315	28.727	50.599	1.00	116.79	C
ATOM	4107	C	ILE	519	-50.629	33.094	51.971	1.00	116.79	C
ATOM	4108	O	ILE	519	-49.695	33.659	52.537	1.00	116.79	O
ATOM	4109	N	LEU	520	-51.509	33.754	51.207	1.00	165.17	N
ATOM	4110	CA	LEU	520	-51.408	35.152	50.915	1.00	165.17	C
ATOM	4111	CB	LEU	520	-52.521	35.507	49.908	1.00	165.17	C
ATOM	4112	CG	LEU	520	-52.286	36.748	49.034	1.00	165.17	C
ATOM	4113	CD1	LEU	520	-52.380	38.052	49.821	1.00	165.17	C
ATOM	4114	CD2	LEU	520	-50.971	36.607	48.250	1.00	165.17	C
ATOM	4115	C	LEU	520	-51.547	35.893	52.222	1.00	165.17	C
ATOM	4116	O	LEU	520	-50.848	36.878	52.467	1.00	165.17	O
ATOM	4117	N	GLU	521	-52.448	35.414	53.108	1.00	81.41	N
ATOM	4118	CA	GLU	521	-52.671	36.018	54.395	1.00	81.41	C
ATOM	4119	CB	GLU	521	-53.818	35.352	55.177	1.00	81.41	C
ATOM	4120	CG	GLU	521	-53.954	35.866	56.613	1.00	81.41	C
ATOM	4121	CD	GLU	521	-54.372	37.327	56.565	1.00	81.41	C
ATOM	4122	OE1	GLU	521	-53.504	38.177	56.233	1.00	81.41	O
ATOM	4123	OE2	GLU	521	-55.564	37.612	56.857	1.00	81.41	O
ATOM	4124	C	GLU	521	-51.433	35.895	55.227	1.00	81.41	C
ATOM	4125	O	GLU	521	-51.060	36.820	55.946	1.00	81.41	O
ATOM	4126	N	GLU	522	-50.762	34.735	55.142	1.00	96.84	N
ATOM	4127	CA	GLU	522	-49.572	34.476	55.900	1.00	96.84	C
ATOM	4128	CB	GLU	522	-48.995	33.087	55.581	1.00	96.84	C
ATOM	4129	CG	GLU	522	-47.714	32.733	56.334	1.00	96.84	C
ATOM	4130	CD	GLU	522	-47.228	31.396	55.790	1.00	96.84	C
ATOM	4131	OE1	GLU	522	-48.073	30.468	55.675	1.00	96.84	O
ATOM	4132	OE2	GLU	522	-46.014	31.286	55.471	1.00	96.84	O
ATOM	4133	C	GLU	522	-48.521	35.475	55.514	1.00	96.84	C
ATOM	4134	O	GLU	522	-47.802	35.995	56.365	1.00	96.84	O
ATOM	4135	N	MET	523	-48.396	35.775	54.210	1.00	135.18	N
ATOM	4136	CA	MET	523	-47.379	36.692	53.778	1.00	135.18	C
ATOM	4137	CB	MET	523	-47.249	36.813	52.248	1.00	135.18	C
ATOM	4138	CG	MET	523	-48.362	37.610	51.569	1.00	135.18	C
ATOM	4139	SD	MET	523	-48.143	37.789	49.773	1.00	135.18	S
ATOM	4140	CE	MET	523	-49.505	38.971	49.560	1.00	135.18	C
ATOM	4141	C	MET	523	-47.666	38.060	54.329	1.00	135.18	C
ATOM	4142	O	MET	523	-46.749	38.809	54.665	1.00	135.18	O
ATOM	4143	N	ASN	524	-48.957	38.418	54.448	1.00	93.50	N
ATOM	4144	CA	ASN	524	-49.360	39.723	54.902	1.00	93.50	C
ATOM	4145	CB	ASN	524	-50.891	39.894	54.932	1.00	93.50	C
ATOM	4146	CG	ASN	524	-51.219	41.366	55.156	1.00	93.50	C
ATOM	4147	OD1	ASN	524	-50.900	41.941	56.195	1.00	93.50	O
ATOM	4148	ND2	ASN	524	-51.878	41.999	54.148	1.00	93.50	N
ATOM	4149	C	ASN	524	-48.845	39.963	56.289	1.00	93.50	C
ATOM	4150	O	ASN	524	-48.551	41.100	56.658	1.00	93.50	O
ATOM	4151	N	ARG	525	-48.720	38.906	57.108	1.00	139.85	N
ATOM	4152	CA	ARG	525	-48.306	39.115	58.468	1.00	139.85	C
ATOM	4153	CB	ARG	525	-48.342	37.862	59.369	1.00	139.85	C
ATOM	4154	CG	ARG	525	-47.401	36.727	58.969	1.00	139.85	C
ATOM	4155	CD	ARG	525	-47.480	35.517	59.904	1.00	139.85	C
ATOM	4156	NE	ARG	525	-46.563	34.472	59.367	1.00	139.85	N
ATOM	4157	CZ	ARG	525	-45.231	34.512	59.661	1.00	139.85	C
ATOM	4158	NH1	ARG	525	-44.730	35.525	60.427	1.00	139.85	N
ATOM	4159	NH2	ARG	525	-44.399	33.541	59.185	1.00	139.85	N
ATOM	4160	C	ARG	525	-46.920	39.684	58.506	1.00	139.85	C
ATOM	4161	O	ARG	525	-46.597	40.439	59.422	1.00	139.85	O
ATOM	4162	N	ALA	526	-46.052	39.332	57.536	1.00	45.93	N

ATOM	4163	CA	ALA	526	-44.694	39.809	57.570	1.00	45.93	C
ATOM	4164	CB	ALA	526	-43.814	39.237	56.442	1.00	45.93	C
ATOM	4165	C	ALA	526	-44.661	41.307	57.453	1.00	45.93	C
ATOM	4166	O	ALA	526	-45.364	41.910	56.644	1.00	45.93	O
ATOM	4167	N	PRO	527	-43.837	41.926	58.260	1.00123.34		N
ATOM	4168	CA	PRO	527	-43.736	43.361	58.198	1.00123.34		C
ATOM	4169	CD	PRO	527	-43.656	41.438	59.619	1.00123.34		C
ATOM	4170	CB	PRO	527	-43.082	43.797	59.507	1.00123.34		C
ATOM	4171	CG	PRO	527	-43.494	42.691	60.496	1.00123.34		C
ATOM	4172	C	PRO	527	-42.999	43.791	56.970	1.00123.34		C
ATOM	4173	O	PRO	527	-42.124	43.058	56.515	1.00123.34		O
ATOM	4174	N	GLY	528	-43.330	44.977	56.422	1.00	23.65	N
ATOM	4175	CA	GLY	528	-42.662	45.432	55.239	1.00	23.65	C
ATOM	4176	C	GLY	528	-43.566	46.398	54.544	1.00	23.65	C
ATOM	4177	O	GLY	528	-44.451	46.991	55.158	1.00	23.65	O
ATOM	4178	N	GLY	529	-43.362	46.563	53.222	1.00	29.10	N
ATOM	4179	CA	GLY	529	-44.124	47.499	52.449	1.00	29.10	C
ATOM	4180	C	GLY	529	-45.386	46.833	51.994	1.00	29.10	C
ATOM	4181	O	GLY	529	-45.873	45.893	52.618	1.00	29.10	O
ATOM	4182	N	LYS	530	-45.959	47.344	50.885	1.00	80.45	N
ATOM	4183	CA	LYS	530	-47.192	46.852	50.345	1.00	80.45	C
ATOM	4184	CB	LYS	530	-47.851	47.814	49.340	1.00	80.45	C
ATOM	4185	CG	LYS	530	-48.273	49.151	49.949	1.00	80.45	C
ATOM	4186	CD	LYS	530	-48.670	50.195	48.903	1.00	80.45	C
ATOM	4187	CE	LYS	530	-47.488	50.743	48.101	1.00	80.45	C
ATOM	4188	NZ	LYS	530	-47.972	51.654	47.040	1.00	80.45	N
ATOM	4189	C	LYS	530	-46.930	45.574	49.612	1.00	80.45	C
ATOM	4190	O	LYS	530	-45.781	45.227	49.340	1.00	80.45	O
ATOM	4191	N	MET	531	-48.005	44.812	49.312	1.00110.16		N
ATOM	4192	CA	MET	531	-47.835	43.602	48.557	1.00110.16		C
ATOM	4193	CB	MET	531	-48.872	42.489	48.809	1.00110.16		C
ATOM	4194	CG	MET	531	-48.820	41.850	50.195	1.00110.16		C
ATOM	4195	SD	MET	531	-49.629	42.811	51.500	1.00110.16		S
ATOM	4196	CE	MET	531	-51.291	42.399	50.905	1.00110.16		C
ATOM	4197	C	MET	531	-47.964	43.945	47.106	1.00110.16		C
ATOM	4198	O	MET	531	-48.908	44.621	46.701	1.00110.16		O
ATOM	4199	N	TYR	532	-47.022	43.447	46.277	1.00	71.34	N
ATOM	4200	CA	TYR	532	-47.023	43.756	44.873	1.00	71.34	C
ATOM	4201	CB	TYR	532	-45.677	44.288	44.352	1.00	71.34	C
ATOM	4202	CG	TYR	532	-45.423	45.618	44.968	1.00	71.34	C
ATOM	4203	CD1	TYR	532	-44.849	45.719	46.214	1.00	71.34	C
ATOM	4204	CD2	TYR	532	-45.759	46.766	44.290	1.00	71.34	C
ATOM	4205	CE1	TYR	532	-44.616	46.952	46.777	1.00	71.34	C
ATOM	4206	CE2	TYR	532	-45.530	48.001	44.847	1.00	71.34	C
ATOM	4207	CZ	TYR	532	-44.958	48.095	46.093	1.00	71.34	C
ATOM	4208	OH	TYR	532	-44.721	49.361	46.668	1.00	71.34	O
ATOM	4209	C	TYR	532	-47.272	42.494	44.108	1.00	71.34	C
ATOM	4210	O	TYR	532	-46.831	41.416	44.507	1.00	71.34	O
ATOM	4211	N	ALA	533	-48.054	42.590	43.012	1.00	73.66	N
ATOM	4212	CA	ALA	533	-48.228	41.439	42.175	1.00	73.66	C
ATOM	4213	CB	ALA	533	-49.559	40.708	42.427	1.00	73.66	C
ATOM	4214	C	ALA	533	-48.245	41.914	40.753	1.00	73.66	C
ATOM	4215	O	ALA	533	-49.310	42.154	40.189	1.00	73.66	O
ATOM	4216	N	ASP	534	-47.064	41.977	40.106	1.00	64.21	N
ATOM	4217	CA	ASP	534	-46.981	42.478	38.760	1.00	64.21	C
ATOM	4218	CB	ASP	534	-45.702	43.298	38.499	1.00	64.21	C
ATOM	4219	CG	ASP	534	-45.778	44.593	39.300	1.00	64.21	C
ATOM	4220	OD1	ASP	534	-46.915	45.057	39.576	1.00	64.21	O
ATOM	4221	OD2	ASP	534	-44.694	45.133	39.649	1.00	64.21	O
ATOM	4222	C	ASP	534	-46.976	41.327	37.799	1.00	64.21	C
ATOM	4223	O	ASP	534	-46.294	40.324	38.008	1.00	64.21	O
ATOM	4224	N	ASP	535	-47.761	41.453	36.707	1.00	57.40	N
ATOM	4225	CA	ASP	535	-47.845	40.432	35.697	1.00	57.40	C
ATOM	4226	CB	ASP	535	-49.211	40.357	34.993	1.00	57.40	C
ATOM	4227	CG	ASP	535	-50.229	39.744	35.939	1.00	57.40	C
ATOM	4228	OD1	ASP	535	-49.807	39.160	36.971	1.00	57.40	O

ATOM	4229	OD2	ASP	535	-51.447	39.845	35.634	1.00	57.40	O
ATOM	4230	C	ASP	535	-46.854	40.750	34.622	1.00	57.40	C
ATOM	4231	O	ASP	535	-46.628	41.913	34.291	1.00	57.40	O
ATOM	4232	N	THR	536	-46.233	39.705	34.042	1.00	93.23	N
ATOM	4233	CA	THR	536	-45.294	39.892	32.973	1.00	93.23	C
ATOM	4234	CB	THR	536	-44.154	38.916	33.018	1.00	93.23	C
ATOM	4235	OG1	THR	536	-43.455	39.035	34.248	1.00	93.23	O
ATOM	4236	CG2	THR	536	-43.208	39.198	31.841	1.00	93.23	C
ATOM	4237	C	THR	536	-46.050	39.625	31.715	1.00	93.23	C
ATOM	4238	O	THR	536	-46.859	38.700	31.649	1.00	93.23	O
ATOM	4239	N	ALA	537	-45.816	40.435	30.666	1.00287.17		N
ATOM	4240	CA	ALA	537	-46.576	40.211	29.474	1.00287.17		C
ATOM	4241	CB	ALA	537	-46.724	41.463	28.592	1.00287.17		C
ATOM	4242	C	ALA	537	-45.890	39.158	28.663	1.00287.17		C
ATOM	4243	O	ALA	537	-44.749	39.327	28.234	1.00287.17		O
ATOM	4244	N	GLY	538	-46.586	38.027	28.428	1.00189.84		N
ATOM	4245	CA	GLY	538	-46.055	36.986	27.594	1.00189.84		C
ATOM	4246	C	GLY	538	-44.785	36.447	28.178	1.00189.84		C
ATOM	4247	O	GLY	538	-43.727	36.530	27.560	1.00189.84		O
ATOM	4248	N	TRP	539	-44.867	35.839	29.372	1.00108.17		N
ATOM	4249	CA	TRP	539	-43.707	35.356	30.065	1.00108.17		C
ATOM	4250	CB	TRP	539	-44.066	34.635	31.375	1.00108.17		C
ATOM	4251	CG	TRP	539	-42.885	34.008	32.075	1.00108.17		C
ATOM	4252	CD2	TRP	539	-42.105	34.638	33.102	1.00108.17		C
ATOM	4253	CD1	TRP	539	-42.356	32.764	31.897	1.00108.17		C
ATOM	4254	NE1	TRP	539	-41.290	32.581	32.745	1.00108.17		N
ATOM	4255	CE2	TRP	539	-41.125	33.725	33.494	1.00108.17		C
ATOM	4256	CE3	TRP	539	-42.196	35.874	33.675	1.00108.17		C
ATOM	4257	CZ2	TRP	539	-40.219	34.034	34.467	1.00108.17		C
ATOM	4258	CH3	TRP	539	-41.280	36.183	34.656	1.00108.17		C
ATOM	4259	CH2	TRP	539	-40.310	35.282	35.043	1.00108.17		C
ATOM	4260	C	TRP	539	-42.920	34.370	29.240	1.00108.17		C
ATOM	4261	O	TRP	539	-41.700	34.481	29.149	1.00108.17		O
ATOM	4262	N	ASP	540	-43.587	33.394	28.596	1.00	87.64	N
ATOM	4263	CA	ASP	540	-42.908	32.336	27.883	1.00	87.64	C
ATOM	4264	CB	ASP	540	-43.892	31.335	27.253	1.00	87.64	C
ATOM	4265	CG	ASP	540	-44.587	30.583	28.380	1.00	87.64	C
ATOM	4266	OD1	ASP	540	-44.070	30.624	29.529	1.00	87.64	O
ATOM	4267	OD2	ASP	540	-45.646	29.957	28.109	1.00	87.64	O
ATOM	4268	C	ASP	540	-42.065	32.903	26.776	1.00	87.64	C
ATOM	4269	O	ASP	540	-41.014	32.351	26.450	1.00	87.64	O
ATOM	4270	N	THR	541	-42.530	33.992	26.138	1.00150.64		N
ATOM	4271	CA	THR	541	-41.846	34.631	25.042	1.00150.64		C
ATOM	4272	CB	THR	541	-42.698	35.616	24.290	1.00150.64		C
ATOM	4273	OG1	THR	541	-42.998	36.744	25.097	1.00150.64		O
ATOM	4274	CG2	THR	541	-43.999	34.911	23.872	1.00150.64		C
ATOM	4275	C	THR	541	-40.638	35.384	25.529	1.00150.64		C
ATOM	4276	O	THR	541	-39.756	35.727	24.746	1.00150.64		O
ATOM	4277	N	ARG	542	-40.656	35.770	26.816	1.00287.87		N
ATOM	4278	CA	ARG	542	-39.693	36.557	27.545	1.00287.87		C
ATOM	4279	CB	ARG	542	-40.273	37.061	28.873	1.00287.87		C
ATOM	4280	CG	ARG	542	-41.591	37.817	28.712	1.00287.87		C
ATOM	4281	CD	ARG	542	-41.429	39.328	28.574	1.00287.87		C
ATOM	4282	NE	ARG	542	-40.846	39.604	27.233	1.00287.87		N
ATOM	4283	CZ	ARG	542	-41.312	40.654	26.499	1.00287.87		C
ATOM	4284	NH1	ARG	542	-42.349	41.408	26.968	1.00287.87		N
ATOM	4285	NH2	ARG	542	-40.744	40.949	25.294	1.00287.87		N
ATOM	4286	C	ARG	542	-38.441	35.817	27.917	1.00287.87		C
ATOM	4287	O	ARG	542	-37.462	36.452	28.311	1.00287.87		O
ATOM	4288	N	ILE	543	-38.468	34.470	27.932	1.00136.45		N
ATOM	4289	CA	ILE	543	-37.327	33.732	28.410	1.00136.45		C
ATOM	4290	CB	ILE	543	-37.622	32.276	28.621	1.00136.45		C
ATOM	4291	CG1	ILE	543	-38.717	32.128	29.686	1.00136.45		C
ATOM	4292	CG2	ILE	543	-36.313	31.562	28.993	1.00136.45		C
ATOM	4293	CD1	ILE	543	-38.319	32.719	31.036	1.00136.45		C
ATOM	4294	C	ILE	543	-36.199	33.835	27.432	1.00136.45		C

ATOM	4295	O	ILE	543	-36.312	33.423	26.278	1.00136.45	O
ATOM	4296	N	SER	544	-35.057	34.374	27.908	1.00 58.86	N
ATOM	4297	CA	SER	544	-33.907	34.588	27.078	1.00 58.86	C
ATOM	4298	CB	SER	544	-33.086	35.833	27.464	1.00 58.86	C
ATOM	4299	OG	SER	544	-32.570	35.698	28.780	1.00 58.86	O
ATOM	4300	C	SER	544	-33.006	33.397	27.130	1.00 58.86	C
ATOM	4301	O	SER	544	-33.230	32.442	27.875	1.00 58.86	O
ATOM	4302	N	LYS	545	-31.950	33.442	26.299	1.00 83.83	N
ATOM	4303	CA	LYS	545	-30.972	32.404	26.206	1.00 83.83	C
ATOM	4304	CB	LYS	545	-29.909	32.726	25.144	1.00 83.83	C
ATOM	4305	CG	LYS	545	-30.498	32.805	23.733	1.00 83.83	C
ATOM	4306	CD	LYS	545	-29.585	33.495	22.721	1.00 83.83	C
ATOM	4307	CE	LYS	545	-29.466	35.004	22.943	1.00 83.83	C
ATOM	4308	NZ	LYS	545	-28.477	35.574	22.002	1.00 83.83	N
ATOM	4309	C	LYS	545	-30.305	32.311	27.545	1.00 83.83	C
ATOM	4310	O	LYS	545	-29.960	31.225	28.008	1.00 83.83	O
ATOM	4311	N	PHE	546	-30.108	33.468	28.203	1.00 63.41	N
ATOM	4312	CA	PHE	546	-29.462	33.534	29.483	1.00 63.41	C
ATOM	4313	CB	PHE	546	-29.209	34.980	29.926	1.00 63.41	C
ATOM	4314	CG	PHE	546	-28.317	35.495	28.855	1.00 63.41	C
ATOM	4315	CD1	PHE	546	-28.865	36.011	27.706	1.00 63.41	C
ATOM	4316	CD2	PHE	546	-26.949	35.435	28.978	1.00 63.41	C
ATOM	4317	CE1	PHE	546	-28.058	36.478	26.699	1.00 63.41	C
ATOM	4318	CE2	PHE	546	-26.139	35.903	27.971	1.00 63.41	C
ATOM	4319	CZ	PHE	546	-26.691	36.429	26.829	1.00 63.41	C
ATOM	4320	C	PHE	546	-30.300	32.830	30.502	1.00 63.41	C
ATOM	4321	O	PHE	546	-29.779	32.143	31.379	1.00 63.41	O
ATOM	4322	N	ASP	547	-31.633	32.991	30.426	1.00 53.67	N
ATOM	4323	CA	ASP	547	-32.513	32.360	31.367	1.00 53.67	C
ATOM	4324	CB	ASP	547	-33.989	32.711	31.114	1.00 53.67	C
ATOM	4325	CG	ASP	547	-34.191	34.196	31.386	1.00 53.67	C
ATOM	4326	OD1	ASP	547	-33.252	34.841	31.921	1.00 53.67	O
ATOM	4327	OD2	ASP	547	-35.294	34.707	31.061	1.00 53.67	O
ATOM	4328	C	ASP	547	-32.384	30.871	31.219	1.00 53.67	C
ATOM	4329	O	ASP	547	-32.354	30.142	32.210	1.00 53.67	O
ATOM	4330	N	LEU	548	-32.304	30.381	29.966	1.00 55.55	N
ATOM	4331	CA	LEU	548	-32.233	28.972	29.701	1.00 55.55	C
ATOM	4332	CB	LEU	548	-32.254	28.643	28.195	1.00 55.55	C
ATOM	4333	CG	LEU	548	-33.541	29.108	27.483	1.00 55.55	C
ATOM	4334	CD1	LEU	548	-33.576	28.644	26.018	1.00 55.55	C
ATOM	4335	CD2	LEU	548	-34.796	28.701	28.269	1.00 55.55	C
ATOM	4336	C	LEU	548	-30.964	28.414	30.266	1.00 55.55	C
ATOM	4337	O	LEU	548	-30.957	27.332	30.853	1.00 55.55	O
ATOM	4338	N	GLU	549	-29.849	29.147	30.105	1.00 92.62	N
ATOM	4339	CA	GLU	549	-28.583	28.652	30.563	1.00 92.62	C
ATOM	4340	CB	GLU	549	-27.393	29.533	30.144	1.00 92.62	C
ATOM	4341	CG	GLU	549	-27.400	30.939	30.743	1.00 92.62	C
ATOM	4342	CD	GLU	549	-26.283	31.725	30.076	1.00 92.62	C
ATOM	4343	OE1	GLU	549	-25.659	31.172	29.130	1.00 92.62	O
ATOM	4344	OE2	GLU	549	-26.044	32.889	30.495	1.00 92.62	O
ATOM	4345	C	GLU	549	-28.596	28.531	32.055	1.00 92.62	C
ATOM	4346	O	GLU	549	-28.001	27.612	32.613	1.00 92.62	O
ATOM	4347	N	ASN	550	-29.262	29.470	32.748	1.00 58.25	N
ATOM	4348	CA	ASN	550	-29.298	29.435	34.184	1.00 58.25	C
ATOM	4349	CB	ASN	550	-29.902	30.703	34.806	1.00 58.25	C
ATOM	4350	CG	ASN	550	-28.853	31.797	34.665	1.00 58.25	C
ATOM	4351	OD1	ASN	550	-27.715	31.643	35.103	1.00 58.25	O
ATOM	4352	ND2	ASN	550	-29.237	32.931	34.024	1.00 58.25	N
ATOM	4353	C	ASN	550	-30.086	28.248	34.645	1.00 58.25	C
ATOM	4354	O	ASN	550	-29.769	27.643	35.668	1.00 58.25	O
ATOM	4355	N	GLU	551	-31.155	27.899	33.908	1.00 76.47	N
ATOM	4356	CA	GLU	551	-31.976	26.778	34.256	1.00 76.47	C
ATOM	4357	CB	GLU	551	-33.248	26.705	33.390	1.00 76.47	C
ATOM	4358	CG	GLU	551	-34.228	27.834	33.730	1.00 76.47	C
ATOM	4359	CD	GLU	551	-35.284	27.948	32.639	1.00 76.47	C
ATOM	4360	OE1	GLU	551	-35.227	27.152	31.664	1.00 76.47	O

ATOM	4361	OE2	GLU	551	-36.161	28.845	32.767	1.00	76.47	O
ATOM	4362	C	GLU	551	-31.168	25.522	34.096	1.00	76.47	C
ATOM	4363	O	GLU	551	-31.367	24.549	34.820	1.00	76.47	O
ATOM	4364	N	ALA	552	-30.213	25.540	33.146	1.00	68.89	N
ATOM	4365	CA	ALA	552	-29.344	24.455	32.760	1.00	68.89	C
ATOM	4366	CB	ALA	552	-28.418	24.821	31.585	1.00	68.89	C
ATOM	4367	C	ALA	552	-28.467	23.999	33.899	1.00	68.89	C
ATOM	4368	O	ALA	552	-28.040	22.848	33.931	1.00	68.89	O
ATOM	4369	N	LEU	553	-28.162	24.887	34.859	1.00	130.80	N
ATOM	4370	CA	LEU	553	-27.238	24.630	35.935	1.00	130.80	C
ATOM	4371	CB	LEU	553	-27.039	25.811	36.903	1.00	130.80	C
ATOM	4372	CG	LEU	553	-26.189	26.962	36.334	1.00	130.80	C
ATOM	4373	CD1	LEU	553	-26.887	27.665	35.161	1.00	130.80	C
ATOM	4374	CD2	LEU	553	-25.751	27.928	37.448	1.00	130.80	C
ATOM	4375	C	LEU	553	-27.636	23.446	36.761	1.00	130.80	C
ATOM	4376	O	LEU	553	-26.805	22.905	37.483	1.00	130.80	O
ATOM	4377	N	ILE	554	-28.910	23.027	36.730	1.00	152.82	N
ATOM	4378	CA	ILE	554	-29.347	21.932	37.549	1.00	152.82	C
ATOM	4379	CB	ILE	554	-30.797	21.603	37.415	1.00	152.82	C
ATOM	4380	CG1	ILE	554	-31.153	20.574	38.499	1.00	152.82	C
ATOM	4381	CG2	ILE	554	-31.080	21.155	35.973	1.00	152.82	C
ATOM	4382	CD1	ILE	554	-32.641	20.470	38.793	1.00	152.82	C
ATOM	4383	C	ILE	554	-28.551	20.693	37.259	1.00	152.82	C
ATOM	4384	O	ILE	554	-28.363	19.846	38.131	1.00	152.82	O
ATOM	4385	N	THR	555	-28.066	20.542	36.021	1.00	161.21	N
ATOM	4386	CA	THR	555	-27.369	19.359	35.626	1.00	161.21	C
ATOM	4387	CB	THR	555	-26.932	19.391	34.201	1.00	161.21	C
ATOM	4388	OG1	THR	555	-26.317	18.158	33.891	1.00	161.21	O
ATOM	4389	CG2	THR	555	-25.948	20.545	33.977	1.00	161.21	C
ATOM	4390	C	THR	555	-26.171	19.115	36.500	1.00	161.21	C
ATOM	4391	O	THR	555	-25.764	17.967	36.675	1.00	161.21	O
ATOM	4392	N	ASN	556	-25.565	20.169	37.075	1.00	111.94	N
ATOM	4393	CA	ASN	556	-24.377	20.004	37.869	1.00	111.94	C
ATOM	4394	CB	ASN	556	-23.799	21.327	38.427	1.00	111.94	C
ATOM	4395	CG	ASN	556	-24.711	21.954	39.482	1.00	111.94	C
ATOM	4396	OD1	ASN	556	-25.916	21.717	39.530	1.00	111.94	O
ATOM	4397	ND2	ASN	556	-24.109	22.801	40.360	1.00	111.94	N
ATOM	4398	C	ASN	556	-24.668	19.095	39.026	1.00	111.94	C
ATOM	4399	O	ASN	556	-23.778	18.421	39.541	1.00	111.94	O
ATOM	4400	N	GLN	557	-25.921	19.111	39.498	1.00	146.61	N
ATOM	4401	CA	GLN	557	-26.413	18.358	40.611	1.00	146.61	C
ATOM	4402	CB	GLN	557	-27.765	18.929	41.071	1.00	146.61	C
ATOM	4403	CG	GLN	557	-28.206	18.497	42.464	1.00	146.61	C
ATOM	4404	CD	GLN	557	-29.231	19.526	42.923	1.00	146.61	C
ATOM	4405	OE1	GLN	557	-29.972	19.305	43.879	1.00	146.61	O
ATOM	4406	NE2	GLN	557	-29.265	20.698	42.233	1.00	146.61	N
ATOM	4407	C	GLN	557	-26.540	16.891	40.286	1.00	146.61	C
ATOM	4408	O	GLN	557	-26.500	16.052	41.182	1.00	146.61	O
ATOM	4409	N	MET	558	-26.745	16.550	38.999	1.00	88.82	N
ATOM	4410	CA	MET	558	-27.040	15.208	38.559	1.00	88.82	C
ATOM	4411	CB	MET	558	-27.749	15.201	37.200	1.00	88.82	C
ATOM	4412	CG	MET	558	-29.064	15.976	37.222	1.00	88.82	C
ATOM	4413	SD	MET	558	-29.844	16.166	35.594	1.00	88.82	S
ATOM	4414	CE	MET	558	-31.098	17.335	36.185	1.00	88.82	C
ATOM	4415	C	MET	558	-25.830	14.335	38.415	1.00	88.82	C
ATOM	4416	O	MET	558	-24.707	14.811	38.269	1.00	88.82	O
ATOM	4417	N	GLU	559	-26.059	12.999	38.462	1.00	128.37	N
ATOM	4418	CA	GLU	559	-25.011	12.031	38.283	1.00	128.37	C
ATOM	4419	CB	GLU	559	-25.252	10.674	38.980	1.00	128.37	C
ATOM	4420	CG	GLU	559	-26.496	9.909	38.522	1.00	128.37	C
ATOM	4421	CD	GLU	559	-26.449	8.526	39.165	1.00	128.37	C
ATOM	4422	OE1	GLU	559	-25.394	8.189	39.766	1.00	128.37	O
ATOM	4423	OE2	GLU	559	-27.464	7.786	39.061	1.00	128.37	O
ATOM	4424	C	GLU	559	-24.831	11.790	36.813	1.00	128.37	C
ATOM	4425	O	GLU	559	-25.663	12.195	36.006	1.00	128.37	O
ATOM	4426	N	GLU	560	-23.720	11.126	36.426	1.00	272.59	N

ATOM	4427	CA	GLU	560	-23.437	10.888	35.037	1.00272.59	C
ATOM	4428	CB	GLU	560	-22.123	10.121	34.780	1.00272.59	C
ATOM	4429	CG	GLU	560	-22.067	8.715	35.387	1.00272.59	C
ATOM	4430	CD	GLU	560	-20.713	8.111	35.029	1.00272.59	C
ATOM	4431	OE1	GLU	560	-19.929	8.803	34.326	1.00272.59	O
ATOM	4432	OE2	GLU	560	-20.443	6.954	35.449	1.00272.59	O
ATOM	4433	C	GLU	560	-24.567	10.083	34.480	1.00272.59	C
ATOM	4434	O	GLU	560	-25.346	9.487	35.200	1.00272.59	O
ATOM	4435	N	GLY	561	-24.806	10.119	33.173	1.00220.57	N
ATOM	4436	CA	GLY	561	-25.867	9.280	32.692	1.00220.57	C
ATOM	4437	C	GLY	561	-27.145	10.053	32.833	1.00220.57	C
ATOM	4438	O	GLY	561	-27.857	10.266	31.855	1.00220.57	O
ATOM	4439	N	HIS	562	-27.470	10.483	34.074	1.0088.83	N
ATOM	4440	CA	HIS	562	-28.618	11.297	34.325	1.0088.83	C
ATOM	4441	ND1	HIS	562	-30.670	12.513	37.334	1.0088.83	N
ATOM	4442	CG	HIS	562	-30.185	12.227	36.078	1.0088.83	C
ATOM	4443	CB	HIS	562	-28.878	11.539	35.821	1.0088.83	C
ATOM	4444	NE2	HIS	562	-32.194	13.235	35.887	1.0088.83	N
ATOM	4445	CD2	HIS	562	-31.128	12.676	35.205	1.0088.83	C
ATOM	4446	CE1	HIS	562	-31.874	13.114	37.162	1.0088.83	C
ATOM	4447	C	HIS	562	-28.302	12.618	33.717	1.0088.83	C
ATOM	4448	O	HIS	562	-29.125	13.224	33.035	1.0088.83	O
ATOM	4449	N	ARG	563	-27.053	13.068	33.940	1.0081.95	N
ATOM	4450	CA	ARG	563	-26.581	14.331	33.457	1.0081.95	C
ATOM	4451	CB	ARG	563	-25.123	14.613	33.885	1.0081.95	C
ATOM	4452	CG	ARG	563	-24.549	15.950	33.402	1.0081.95	C
ATOM	4453	CD	ARG	563	-23.113	16.208	33.876	1.0081.95	C
ATOM	4454	NE	ARG	563	-22.720	17.578	33.433	1.0081.95	N
ATOM	4455	CZ	ARG	563	-22.162	18.445	34.329	1.0081.95	C
ATOM	4456	NH1	ARG	563	-21.985	18.063	35.628	1.0081.95	N
ATOM	4457	NH2	ARG	563	-21.792	19.699	33.932	1.0081.95	N
ATOM	4458	C	ARG	563	-26.618	14.293	31.963	1.0081.95	C
ATOM	4459	O	ARG	563	-26.990	15.275	31.325	1.0081.95	O
ATOM	4460	N	THR	564	-26.236	13.146	31.371	1.0050.61	N
ATOM	4461	CA	THR	564	-26.163	13.015	29.939	1.0050.61	C
ATOM	4462	CB	THR	564	-25.590	11.689	29.530	1.0050.61	C
ATOM	4463	OG1	THR	564	-24.305	11.518	30.108	1.0050.61	O
ATOM	4464	CG2	THR	564	-25.482	11.647	27.996	1.0050.61	C
ATOM	4465	C	THR	564	-27.532	13.136	29.331	1.0050.61	C
ATOM	4466	O	THR	564	-27.707	13.783	28.297	1.0050.61	O
ATOM	4467	N	LEU	565	-28.540	12.480	29.942	1.0073.95	N
ATOM	4468	CA	LEU	565	-29.879	12.537	29.416	1.0073.95	C
ATOM	4469	CB	LEU	565	-30.859	11.609	30.152	1.0073.95	C
ATOM	4470	CG	LEU	565	-30.644	10.112	29.871	1.0073.95	C
ATOM	4471	CD1	LEU	565	-31.661	9.259	30.641	1.0073.95	C
ATOM	4472	CD2	LEU	565	-30.680	9.818	28.362	1.0073.95	C
ATOM	4473	C	LEU	565	-30.420	13.926	29.557	1.0073.95	C
ATOM	4474	O	LEU	565	-31.062	14.446	28.645	1.0073.95	O
ATOM	4475	N	ALA	566	-30.184	14.554	30.728	1.0050.95	N
ATOM	4476	CA	ALA	566	-30.688	15.872	31.004	1.0050.95	C
ATOM	4477	CB	ALA	566	-30.355	16.353	32.427	1.0050.95	C
ATOM	4478	C	ALA	566	-30.075	16.859	30.058	1.0050.95	C
ATOM	4479	O	ALA	566	-30.757	17.754	29.562	1.0050.95	O
ATOM	4480	N	LEU	567	-28.764	16.730	29.777	1.00145.47	N
ATOM	4481	CA	LEU	567	-28.162	17.686	28.887	1.00145.47	C
ATOM	4482	CB	LEU	567	-26.638	17.546	28.683	1.00145.47	C
ATOM	4483	CG	LEU	567	-25.780	18.306	29.713	1.00145.47	C
ATOM	4484	CD1	LEU	567	-26.047	17.839	31.144	1.00145.47	C
ATOM	4485	CD2	LEU	567	-24.289	18.255	29.340	1.00145.47	C
ATOM	4486	C	LEU	567	-28.801	17.602	27.540	1.00145.47	C
ATOM	4487	O	LEU	567	-28.933	18.617	26.859	1.00145.47	O
ATOM	4488	N	ALA	568	-29.188	16.389	27.103	1.0054.97	N
ATOM	4489	CA	ALA	568	-29.774	16.247	25.798	1.0054.97	C
ATOM	4490	CB	ALA	568	-30.059	14.780	25.430	1.0054.97	C
ATOM	4491	C	ALA	568	-31.071	17.000	25.715	1.0054.97	C
ATOM	4492	O	ALA	568	-31.335	17.676	24.721	1.0054.97	O

ATOM	4493	N	VAL	569	-31.930	16.904	26.751	1.00134.63	N
ATOM	4494	CA	VAL	569	-33.198	17.580	26.695	1.00134.63	C
ATOM	4495	CB	VAL	569	-34.094	17.259	27.860	1.00134.63	C
ATOM	4496	CG1	VAL	569	-34.363	15.745	27.843	1.00134.63	C
ATOM	4497	CG2	VAL	569	-33.465	17.773	29.163	1.00134.63	C
ATOM	4498	C	VAL	569	-32.944	19.063	26.666	1.00134.63	C
ATOM	4499	O	VAL	569	-33.540	19.782	25.869	1.00134.63	O
ATOM	4500	N	ILE	570	-32.037	19.574	27.523	1.00150.27	N
ATOM	4501	CA	ILE	570	-31.827	20.995	27.569	1.00150.27	C
ATOM	4502	CB	ILE	570	-31.052	21.422	28.792	1.00150.27	C
ATOM	4503	CG1	ILE	570	-29.649	20.810	28.861	1.00150.27	C
ATOM	4504	CG2	ILE	570	-31.901	21.040	30.013	1.00150.27	C
ATOM	4505	CD1	ILE	570	-28.875	21.287	30.091	1.00150.27	C
ATOM	4506	C	ILE	570	-31.207	21.530	26.307	1.00150.27	C
ATOM	4507	O	ILE	570	-31.691	22.514	25.748	1.00150.27	O
ATOM	4508	N	LYS	571	-30.118	20.905	25.821	1.00129.07	N
ATOM	4509	CA	LYS	571	-29.436	21.384	24.651	1.00129.07	C
ATOM	4510	CB	LYS	571	-28.093	20.664	24.440	1.00129.07	C
ATOM	4511	CG	LYS	571	-27.170	20.740	25.657	1.00129.07	C
ATOM	4512	CD	LYS	571	-26.834	22.167	26.085	1.00129.07	C
ATOM	4513	CE	LYS	571	-26.032	22.240	27.384	1.00129.07	C
ATOM	4514	NZ	LYS	571	-25.710	23.649	27.697	1.00129.07	N
ATOM	4515	C	LYS	571	-30.231	21.157	23.398	1.00129.07	C
ATOM	4516	O	LYS	571	-30.366	22.050	22.565	1.00129.07	O
ATOM	4517	N	TYR	572	-30.705	19.915	23.192	1.00121.11	N
ATOM	4518	CA	TYR	572	-31.411	19.568	21.986	1.00121.11	C
ATOM	4519	CB	TYR	572	-31.313	18.083	21.616	1.00121.11	C
ATOM	4520	CG	TYR	572	-29.951	17.949	21.035	1.00121.11	C
ATOM	4521	CD1	TYR	572	-29.760	18.239	19.705	1.00121.11	C
ATOM	4522	CD2	TYR	572	-28.874	17.573	21.800	1.00121.11	C
ATOM	4523	CE1	TYR	572	-28.516	18.141	19.131	1.00121.11	C
ATOM	4524	CE2	TYR	572	-27.626	17.472	21.232	1.00121.11	C
ATOM	4525	CZ	TYR	572	-27.446	17.754	19.898	1.00121.11	C
ATOM	4526	OH	TYR	572	-26.165	17.649	19.317	1.00121.11	O
ATOM	4527	C	TYR	572	-32.843	19.982	21.907	1.00121.11	C
ATOM	4528	O	TYR	572	-33.308	20.330	20.826	1.00121.11	O
ATOM	4529	N	THR	573	-33.608	19.775	22.994	1.00200.02	N
ATOM	4530	CA	THR	573	-35.023	20.048	23.025	1.00200.02	C
ATOM	4531	CB	THR	573	-35.692	19.080	23.954	1.00200.02	C
ATOM	4532	OG1	THR	573	-35.447	17.755	23.507	1.00200.02	O
ATOM	4533	CG2	THR	573	-37.200	19.331	23.980	1.00200.02	C
ATOM	4534	C	THR	573	-35.416	21.454	23.412	1.00200.02	C
ATOM	4535	O	THR	573	-36.331	22.017	22.815	1.00200.02	O
ATOM	4536	N	TYR	574	-34.835	22.014	24.501	1.00208.82	N
ATOM	4537	CA	TYR	574	-35.234	23.330	24.952	1.00208.82	C
ATOM	4538	CB	TYR	574	-34.919	23.647	26.418	1.00208.82	C
ATOM	4539	CG	TYR	574	-35.481	22.562	27.245	1.00208.82	C
ATOM	4540	CD1	TYR	574	-36.832	22.328	27.329	1.00208.82	C
ATOM	4541	CD2	TYR	574	-34.616	21.789	27.968	1.00208.82	C
ATOM	4542	CE1	TYR	574	-37.290	21.301	28.120	1.00208.82	C
ATOM	4543	CE2	TYR	574	-35.059	20.768	28.758	1.00208.82	C
ATOM	4544	CZ	TYR	574	-36.404	20.522	28.830	1.00208.82	C
ATOM	4545	OH	TYR	574	-36.866	19.468	29.642	1.00208.82	O
ATOM	4546	C	TYR	574	-34.565	24.464	24.222	1.00208.82	C
ATOM	4547	O	TYR	574	-35.191	25.468	23.891	1.00208.82	O
ATOM	4548	N	GLN	575	-33.229	24.372	24.069	1.00117.99	N
ATOM	4549	CA	GLN	575	-32.419	25.390	23.460	1.00117.99	C
ATOM	4550	CB	GLN	575	-30.922	25.185	23.720	1.00117.99	C
ATOM	4551	CG	GLN	575	-30.568	25.311	25.201	1.00117.99	C
ATOM	4552	CD	GLN	575	-29.071	25.091	25.340	1.00117.99	C
ATOM	4553	OE1	GLN	575	-28.375	24.827	24.360	1.00117.99	O
ATOM	4554	NE2	GLN	575	-28.561	25.202	26.595	1.00117.99	N
ATOM	4555	C	GLN	575	-32.624	25.398	21.983	1.00117.99	C
ATOM	4556	O	GLN	575	-32.541	26.442	21.341	1.00117.99	O
ATOM	4557	N	ASN	576	-32.817	24.213	21.385	1.00135.80	N
ATOM	4558	CA	ASN	576	-33.066	24.194	19.975	1.00135.80	C

ATOM	4559	CB	ASN	576	-31.993	23.493	19.135	1.00135.80	C
ATOM	4560	CG	ASN	576	-30.912	24.529	18.892	1.00135.80	C
ATOM	4561	OD1	ASN	576	-31.206	25.701	18.663	1.00135.80	O
ATOM	4562	ND2	ASN	576	-29.628	24.094	18.938	1.00135.80	N
ATOM	4563	C	ASN	576	-34.361	23.506	19.722	1.00135.80	C
ATOM	4564	O	ASN	576	-34.458	22.283	19.672	1.00135.80	O
ATOM	4565	N	LYS	577	-35.414	24.295	19.488	1.00305.27	N
ATOM	4566	CA	LYS	577	-36.673	23.648	19.323	1.00305.27	C
ATOM	4567	CB	LYS	577	-37.802	24.336	20.124	1.00305.27	C
ATOM	4568	CG	LYS	577	-37.578	24.278	21.643	1.00305.27	C
ATOM	4569	CD	LYS	577	-38.544	25.116	22.491	1.00305.27	C
ATOM	4570	CE	LYS	577	-38.372	26.629	22.340	1.00305.27	C
ATOM	4571	NZ	LYS	577	-37.139	26.929	21.584	1.00305.27	N
ATOM	4572	C	LYS	577	-37.037	23.652	17.869	1.00305.27	C
ATOM	4573	O	LYS	577	-36.714	24.587	17.144	1.00305.27	O
ATOM	4574	N	VAL	578	-37.668	22.556	17.394	1.00269.99	N
ATOM	4575	CA	VAL	578	-38.176	22.505	16.052	1.00269.99	C
ATOM	4576	CB	VAL	578	-37.620	21.398	15.201	1.00269.99	C
ATOM	4577	CG1	VAL	578	-38.339	21.419	13.841	1.00269.99	C
ATOM	4578	CG2	VAL	578	-36.100	21.607	15.080	1.00269.99	C
ATOM	4579	C	VAL	578	-39.660	22.326	16.213	1.00269.99	C
ATOM	4580	O	VAL	578	-40.129	21.493	16.995	1.00269.99	O
ATOM	4581	N	VAL	579	-40.451	23.136	15.477	1.00350.34	N
ATOM	4582	CA	VAL	579	-41.861	23.119	15.746	1.00350.34	C
ATOM	4583	CB	VAL	579	-42.259	24.345	16.497	1.00350.34	C
ATOM	4584	CG1	VAL	579	-43.763	24.316	16.800	1.00350.34	C
ATOM	4585	CG2	VAL	579	-41.325	24.455	17.705	1.00350.34	C
ATOM	4586	C	VAL	579	-42.613	23.132	14.450	1.00350.34	C
ATOM	4587	O	VAL	579	-42.192	23.764	13.480	1.00350.34	O
ATOM	4588	N	LYS	580	-43.755	22.402	14.411	1.00480.57	N
ATOM	4589	CA	LYS	580	-44.595	22.432	13.245	1.00480.57	C
ATOM	4590	CB	LYS	580	-45.068	21.053	12.766	1.00480.57	C
ATOM	4591	CG	LYS	580	-43.989	20.248	12.039	1.00480.57	C
ATOM	4592	CD	LYS	580	-42.833	19.791	12.924	1.00480.57	C
ATOM	4593	CE	LYS	580	-41.978	18.706	12.267	1.00480.57	C
ATOM	4594	NZ	LYS	580	-41.187	19.270	11.162	1.00480.57	N
ATOM	4595	C	LYS	580	-45.811	23.259	13.552	1.00480.57	C
ATOM	4596	O	LYS	580	-46.420	23.112	14.604	1.00480.57	O
ATOM	4597	N	VAL	581	-46.191	24.172	12.633	1.00422.25	N
ATOM	4598	CA	VAL	581	-47.314	25.056	12.833	1.00422.25	C
ATOM	4599	CB	VAL	581	-46.898	26.418	13.317	1.00422.25	C
ATOM	4600	CG1	VAL	581	-45.487	26.729	12.818	1.00422.25	C
ATOM	4601	CG2	VAL	581	-47.879	27.441	12.741	1.00422.25	C
ATOM	4602	C	VAL	581	-48.094	25.228	11.559	1.00422.25	C
ATOM	4603	O	VAL	581	-47.530	25.411	10.484	1.00422.25	O
ATOM	4604	N	LEU	582	-49.440	25.184	11.662	1.00343.94	N
ATOM	4605	CA	LEU	582	-50.301	25.347	10.518	1.00343.94	C
ATOM	4606	CB	LEU	582	-51.713	24.765	10.725	1.00343.94	C
ATOM	4607	CG	LEU	582	-51.739	23.224	10.681	1.00343.94	C
ATOM	4608	CD1	LEU	582	-53.158	22.670	10.890	1.00343.94	C
ATOM	4609	CD2	LEU	582	-51.113	22.711	9.372	1.00343.94	C
ATOM	4610	C	LEU	582	-50.402	26.804	10.165	1.00343.94	C
ATOM	4611	O	LEU	582	-50.313	27.680	11.025	1.00343.94	O
ATOM	4612	N	ARG	583	-50.555	27.095	8.853	1.00344.93	N
ATOM	4613	CA	ARG	583	-50.650	28.451	8.400	1.00344.93	C
ATOM	4614	CB	ARG	583	-49.274	29.051	8.053	1.00344.93	C
ATOM	4615	CG	ARG	583	-49.324	30.440	7.417	1.00344.93	C
ATOM	4616	CD	ARG	583	-47.945	30.967	7.007	1.00344.93	C
ATOM	4617	NE	ARG	583	-47.255	29.872	6.265	1.00344.93	N
ATOM	4618	CZ	ARG	583	-46.638	30.114	5.070	1.00344.93	C
ATOM	4619	NH1	ARG	583	-46.679	31.357	4.511	1.00344.93	N
ATOM	4620	NH2	ARG	583	-45.982	29.105	4.427	1.00344.93	N
ATOM	4621	C	ARG	583	-51.462	28.474	7.142	1.00344.93	C
ATOM	4622	O	ARG	583	-51.386	27.548	6.335	1.00344.93	O
ATOM	4623	N	PRO	584	-52.257	29.508	6.968	1.00186.28	N
ATOM	4624	CA	PRO	584	-53.029	29.655	5.765	1.00186.28	C

ATOM	4625	CD	PRO	584	-52.880	30.184	8.092	1.00186.28	C
ATOM	4626	CB	PRO	584	-54.145	30.660	6.081	1.00186.28	C
ATOM	4627	CG	PRO	584	-53.740	31.276	7.434	1.00186.28	C
ATOM	4628	C	PRO	584	-52.182	30.025	4.593	1.00186.28	C
ATOM	4629	O	PRO	584	-51.421	30.990	4.665	1.00186.28	O
ATOM	4630	N	ALA	585	-52.326	29.271	3.494	1.00313.26	N
ATOM	4631	CA	ALA	585	-51.637	29.495	2.260	1.00313.26	C
ATOM	4632	CB	ALA	585	-51.280	28.206	1.502	1.00313.26	C
ATOM	4633	C	ALA	585	-52.588	30.276	1.429	1.00313.26	C
ATOM	4634	O	ALA	585	-53.634	30.693	1.916	1.00313.26	O
ATOM	4635	N	GLU	586	-52.233	30.540	0.164	1.00 79.73	N
ATOM	4636	CA	GLU	586	-53.120	31.281	-0.674	1.00 79.73	C
ATOM	4637	CB	GLU	586	-52.481	31.852	-1.952	1.00 79.73	C
ATOM	4638	CG	GLU	586	-51.534	33.031	-1.732	1.00 79.73	C
ATOM	4639	CD	GLU	586	-51.024	33.445	-3.106	1.00 79.73	C
ATOM	4640	OE1	GLU	586	-50.390	32.592	-3.782	1.00 79.73	O
ATOM	4641	OE2	GLU	586	-51.273	34.615	-3.502	1.00 79.73	O
ATOM	4642	C	GLU	586	-54.225	30.394	-1.134	1.00 79.73	C
ATOM	4643	O	GLU	586	-54.119	29.168	-1.103	1.00 79.73	O
ATOM	4644	N	GLY	587	-55.353	31.033	-1.510	1.00245.29	N
ATOM	4645	CA	GLY	587	-56.437	30.351	-2.150	1.00245.29	C
ATOM	4646	C	GLY	587	-57.127	29.407	-1.222	1.00245.29	C
ATOM	4647	O	GLY	587	-57.686	28.405	-1.665	1.00245.29	O
ATOM	4648	N	GLY	588	-57.099	29.672	0.095	1.00 82.71	N
ATOM	4649	CA	GLY	588	-57.847	28.823	0.979	1.00 82.71	C
ATOM	4650	C	GLY	588	-57.107	27.545	1.258	1.00 82.71	C
ATOM	4651	O	GLY	588	-57.662	26.641	1.882	1.00 82.71	O
ATOM	4652	N	LYS	589	-55.843	27.413	0.815	1.00100.06	N
ATOM	4653	CA	LYS	589	-55.140	26.177	1.095	1.00100.06	C
ATOM	4654	CB	LYS	589	-54.141	25.764	-0.004	1.00100.06	C
ATOM	4655	CG	LYS	589	-54.825	25.398	-1.324	1.00100.06	C
ATOM	4656	CD	LYS	589	-53.874	25.179	-2.504	1.00100.06	C
ATOM	4657	CE	LYS	589	-53.235	26.458	-3.049	1.00100.06	C
ATOM	4658	NZ	LYS	589	-52.479	26.156	-4.285	1.00100.06	N
ATOM	4659	C	LYS	589	-54.388	26.349	2.380	1.00100.06	C
ATOM	4660	O	LYS	589	-54.059	27.468	2.757	1.00100.06	O
ATOM	4661	N	THR	590	-54.106	25.247	3.111	1.00135.75	N
ATOM	4662	CA	THR	590	-53.404	25.386	4.362	1.00135.75	C
ATOM	4663	CB	THR	590	-54.249	25.031	5.555	1.00135.75	C
ATOM	4664	OG1	THR	590	-53.516	25.217	6.755	1.00135.75	O
ATOM	4665	CG2	THR	590	-54.736	23.583	5.433	1.00135.75	C
ATOM	4666	C	THR	590	-52.165	24.534	4.324	1.00135.75	C
ATOM	4667	O	THR	590	-52.133	23.489	3.677	1.00135.75	O
ATOM	4668	N	VAL	591	-51.093	24.976	5.021	1.00189.47	N
ATOM	4669	CA	VAL	591	-49.833	24.281	4.964	1.00189.47	C
ATOM	4670	CB	VAL	591	-48.818	25.020	4.140	1.00189.47	C
ATOM	4671	CG1	VAL	591	-49.277	25.042	2.675	1.00189.47	C
ATOM	4672	CG2	VAL	591	-48.668	26.427	4.739	1.00189.47	C
ATOM	4673	C	VAL	591	-49.248	24.162	6.344	1.00189.47	C
ATOM	4674	O	VAL	591	-49.649	24.872	7.265	1.00189.47	O
ATOM	4675	N	MET	592	-48.277	23.233	6.522	1.00231.03	N
ATOM	4676	CA	MET	592	-47.646	23.078	7.808	1.00231.03	C
ATOM	4677	CB	MET	592	-47.705	21.649	8.378	1.00231.03	C
ATOM	4678	CG	MET	592	-47.136	21.545	9.795	1.00231.03	C
ATOM	4679	SD	MET	592	-47.765	20.150	10.776	1.00231.03	S
ATOM	4680	CE	MET	592	-48.997	21.118	11.697	1.00231.03	C
ATOM	4681	C	MET	592	-46.217	23.528	7.690	1.00231.03	C
ATOM	4682	O	MET	592	-45.452	23.039	6.861	1.00231.03	O
ATOM	4683	N	ASP	593	-45.827	24.489	8.550	1.00180.70	N
ATOM	4684	CA	ASP	593	-44.529	25.115	8.505	1.00180.70	C
ATOM	4685	CB	ASP	593	-44.559	26.588	8.969	1.00180.70	C
ATOM	4686	CG	ASP	593	-45.464	27.433	8.078	1.00180.70	C
ATOM	4687	OD1	ASP	593	-45.500	27.198	6.845	1.00180.70	O
ATOM	4688	OD2	ASP	593	-46.144	28.336	8.631	1.00180.70	O
ATOM	4689	C	ASP	593	-43.608	24.439	9.484	1.00180.70	C
ATOM	4690	O	ASP	593	-44.040	24.012	10.552	1.00180.70	O

ATOM	4691	N	ILE	594	-42.303	24.334	9.135	1.00228.86	N
ATOM	4692	CA	ILE	594	-41.295	23.778	10.009	1.00228.86	C
ATOM	4693	CB	ILE	594	-40.379	22.828	9.296	1.00228.86	C
ATOM	4694	CG1	ILE	594	-41.202	21.794	8.517	1.00228.86	C
ATOM	4695	CG2	ILE	594	-39.385	22.242	10.313	1.00228.86	C
ATOM	4696	CD1	ILE	594	-42.336	21.185	9.329	1.00228.86	C
ATOM	4697	C	ILE	594	-40.398	24.921	10.402	1.00228.86	C
ATOM	4698	O	ILE	594	-39.642	25.420	9.570	1.00228.86	O
ATOM	4699	N	ILE	595	-40.417	25.326	11.693	1.00129.89	N
ATOM	4700	CA	ILE	595	-39.686	26.484	12.150	1.00129.89	C
ATOM	4701	CB	ILE	595	-40.607	27.616	12.526	1.00129.89	C
ATOM	4702	CG1	ILE	595	-41.558	27.192	13.661	1.00129.89	C
ATOM	4703	CG2	ILE	595	-41.336	28.082	11.255	1.00129.89	C
ATOM	4704	CD1	ILE	595	-42.446	28.325	14.179	1.00129.89	C
ATOM	4705	C	ILE	595	-38.860	26.137	13.361	1.00129.89	C
ATOM	4706	O	ILE	595	-39.077	25.101	13.988	1.00129.89	O
ATOM	4707	N	SER	596	-37.853	26.992	13.685	1.00170.61	N
ATOM	4708	CA	SER	596	-36.984	26.771	14.822	1.00170.61	C
ATOM	4709	CB	SER	596	-35.656	26.086	14.458	1.00170.61	C
ATOM	4710	OG	SER	596	-35.883	24.796	13.918	1.00170.61	O
ATOM	4711	C	SER	596	-36.537	28.073	15.441	1.00170.61	C
ATOM	4712	O	SER	596	-36.457	29.100	14.768	1.00170.61	O
ATOM	4713	N	ARG	597	-36.242	28.061	16.768	1.00281.56	N
ATOM	4714	CA	ARG	597	-35.615	29.206	17.389	1.00281.56	C
ATOM	4715	CB	ARG	597	-36.513	30.398	17.778	1.00281.56	C
ATOM	4716	CG	ARG	597	-37.511	30.130	18.894	1.00281.56	C
ATOM	4717	CD	ARG	597	-37.846	31.391	19.695	1.00281.56	C
ATOM	4718	NE	ARG	597	-38.598	32.327	18.824	1.00281.56	N
ATOM	4719	CZ	ARG	597	-38.616	33.671	19.067	1.00281.56	C
ATOM	4720	NH1	ARG	597	-37.836	34.224	20.041	1.00281.56	N
ATOM	4721	NH2	ARG	597	-39.431	34.470	18.319	1.00281.56	N
ATOM	4722	C	ARG	597	-34.923	28.758	18.647	1.00281.56	C
ATOM	4723	O	ARG	597	-35.279	27.747	19.249	1.00281.56	O
ATOM	4724	N	GLN	598	-33.853	29.488	19.029	1.00143.28	N
ATOM	4725	CA	GLN	598	-33.032	29.161	20.164	1.00143.28	C
ATOM	4726	CB	GLN	598	-31.608	29.717	20.007	1.00143.28	C
ATOM	4727	CG	GLN	598	-30.976	29.141	18.734	1.00143.28	C
ATOM	4728	CD	GLN	598	-29.476	29.376	18.727	1.00143.28	C
ATOM	4729	OE1	GLN	598	-28.823	29.239	17.694	1.00143.28	O
ATOM	4730	NE2	GLN	598	-28.907	29.723	19.912	1.00143.28	N
ATOM	4731	C	GLN	598	-33.609	29.519	21.520	1.00143.28	C
ATOM	4732	O	GLN	598	-33.395	28.786	22.483	1.00143.28	O
ATOM	4733	N	ASP	599	-34.317	30.660	21.672	1.00145.78	N
ATOM	4734	CA	ASP	599	-34.789	31.047	22.985	1.00145.78	C
ATOM	4735	CB	ASP	599	-34.481	32.519	23.323	1.00145.78	C
ATOM	4736	CG	ASP	599	-35.112	33.419	22.272	1.00145.78	C
ATOM	4737	OD1	ASP	599	-35.923	32.907	21.457	1.00145.78	O
ATOM	4738	OD2	ASP	599	-34.777	34.633	22.261	1.00145.78	O
ATOM	4739	C	ASP	599	-36.262	30.761	23.183	1.00145.78	C
ATOM	4740	O	ASP	599	-36.839	29.932	22.484	1.00145.78	O
ATOM	4741	N	GLN	600	-36.898	31.417	24.191	1.00254.16	N
ATOM	4742	CA	GLN	600	-38.299	31.231	24.504	1.00254.16	C
ATOM	4743	CB	GLN	600	-39.279	31.235	23.316	1.00254.16	C
ATOM	4744	CG	GLN	600	-39.609	32.613	22.753	1.00254.16	C
ATOM	4745	CD	GLN	600	-40.862	32.460	21.900	1.00254.16	C
ATOM	4746	OE1	GLN	600	-41.315	31.351	21.622	1.00254.16	O
ATOM	4747	NE2	GLN	600	-41.448	33.612	21.480	1.00254.16	N
ATOM	4748	C	GLN	600	-38.511	29.913	25.169	1.00254.16	C
ATOM	4749	O	GLN	600	-37.608	29.080	25.226	1.00254.16	O
ATOM	4750	N	ARG	601	-39.735	29.703	25.705	1.00379.60	N
ATOM	4751	CA	ARG	601	-40.039	28.443	26.326	1.00379.60	C
ATOM	4752	CB	ARG	601	-40.358	28.540	27.826	1.00379.60	C
ATOM	4753	CG	ARG	601	-40.977	27.250	28.359	1.00379.60	C
ATOM	4754	CD	ARG	601	-40.702	26.962	29.833	1.00379.60	C
ATOM	4755	NE	ARG	601	-40.275	28.221	30.499	1.00379.60	N
ATOM	4756	CZ	ARG	601	-38.945	28.461	30.706	1.00379.60	C

ATOM	4757	NH1	ARG	601	-38.007	27.594	30.225	1.00379.60	N
ATOM	4758	NH2	ARG	601	-38.551	29.561	31.412	1.00379.60	N
ATOM	4759	C	ARG	601	-41.203	27.784	25.635	1.00379.60	C
ATOM	4760	O	ARG	601	-42.145	28.448	25.212	1.00379.60	O
ATOM	4761	N	GLY	602	-41.148	26.441	25.469	1.00324.73	N
ATOM	4762	CA	GLY	602	-42.229	25.694	24.874	1.00324.73	C
ATOM	4763	C	GLY	602	-43.269	25.530	25.930	1.00324.73	C
ATOM	4764	O	GLY	602	-43.016	25.026	27.022	1.00324.73	O
ATOM	4765	N	SER	603	-44.507	25.893	25.597	1.00659.38	N
ATOM	4766	CA	SER	603	-45.554	25.898	26.570	1.00659.38	C
ATOM	4767	CB	SER	603	-46.883	26.381	25.967	1.00659.38	C
ATOM	4768	OG	SER	603	-46.693	27.621	25.306	1.00659.38	O
ATOM	4769	C	SER	603	-45.805	24.511	27.081	1.00659.38	C
ATOM	4770	O	SER	603	-46.106	24.326	28.261	1.00659.38	O
ATOM	4771	N	GLY	604	-45.676	23.475	26.231	1.00553.70	N
ATOM	4772	CA	GLY	604	-46.102	22.205	26.739	1.00553.70	C
ATOM	4773	C	GLY	604	-44.944	21.323	27.026	1.00553.70	C
ATOM	4774	O	GLY	604	-44.987	20.131	26.736	1.00553.70	O
ATOM	4775	N	GLN	605	-43.875	21.869	27.627	1.00390.71	N
ATOM	4776	CA	GLN	605	-42.840	20.975	28.021	1.00390.71	C
ATOM	4777	CB	GLN	605	-41.416	21.518	27.866	1.00390.71	C
ATOM	4778	CG	GLN	605	-41.117	22.800	28.615	1.00390.71	C
ATOM	4779	CD	GLN	605	-39.758	23.228	28.104	1.00390.71	C
ATOM	4780	OE1	GLN	605	-38.872	23.562	28.886	1.00390.71	O
ATOM	4781	NE2	GLN	605	-39.580	23.215	26.754	1.00390.71	N
ATOM	4782	C	GLN	605	-43.175	20.502	29.394	1.00390.71	C
ATOM	4783	O	GLN	605	-44.046	21.066	30.052	1.00390.71	O
ATOM	4784	N	VAL	606	-42.549	19.396	29.827	1.00242.06	N
ATOM	4785	CA	VAL	606	-42.836	18.794	31.103	1.00242.06	C
ATOM	4786	CB	VAL	606	-42.099	17.501	31.294	1.00242.06	C
ATOM	4787	CG1	VAL	606	-42.240	17.046	32.757	1.00242.06	C
ATOM	4788	CG2	VAL	606	-42.662	16.487	30.285	1.00242.06	C
ATOM	4789	C	VAL	606	-42.471	19.694	32.242	1.00242.06	C
ATOM	4790	O	VAL	606	-43.190	19.763	33.236	1.00242.06	O
ATOM	4791	N	VAL	607	-41.302	20.340	32.131	1.00223.05	N
ATOM	4792	CA	VAL	607	-40.648	21.220	33.059	1.00223.05	C
ATOM	4793	CB	VAL	607	-39.161	21.262	32.846	1.00223.05	C
ATOM	4794	CG1	VAL	607	-38.587	19.913	33.301	1.00223.05	C
ATOM	4795	CG2	VAL	607	-38.867	21.560	31.364	1.00223.05	C
ATOM	4796	C	VAL	607	-41.169	22.624	33.072	1.00223.05	C
ATOM	4797	O	VAL	607	-40.699	23.416	33.883	1.00223.05	O
ATOM	4798	N	THR	608	-42.090	23.001	32.165	1.00157.78	N
ATOM	4799	CA	THR	608	-42.476	24.381	31.990	1.00157.78	C
ATOM	4800	CB	THR	608	-43.705	24.532	31.138	1.00157.78	C
ATOM	4801	OG1	THR	608	-43.501	23.952	29.860	1.00157.78	O
ATOM	4802	CG2	THR	608	-44.030	26.030	30.996	1.00157.78	C
ATOM	4803	C	THR	608	-42.820	25.059	33.294	1.00157.78	C
ATOM	4804	O	THR	608	-42.255	26.104	33.615	1.00157.78	O
ATOM	4805	N	TYR	609	-43.734	24.482	34.095	1.00160.48	N
ATOM	4806	CA	TYR	609	-44.202	25.105	35.305	1.00160.48	C
ATOM	4807	CB	TYR	609	-45.285	24.234	35.977	1.00160.48	C
ATOM	4808	CG	TYR	609	-45.799	24.846	37.239	1.00160.48	C
ATOM	4809	CD1	TYR	609	-46.605	25.962	37.210	1.00160.48	C
ATOM	4810	CD2	TYR	609	-45.506	24.279	38.458	1.00160.48	C
ATOM	4811	CE1	TYR	609	-47.087	26.510	38.376	1.00160.48	C
ATOM	4812	CE2	TYR	609	-45.986	24.822	39.627	1.00160.48	C
ATOM	4813	CZ	TYR	609	-46.776	25.943	39.587	1.00160.48	C
ATOM	4814	OH	TYR	609	-47.269	26.502	40.785	1.00160.48	O
ATOM	4815	C	TYR	609	-43.061	25.297	36.268	1.00160.48	C
ATOM	4816	O	TYR	609	-42.931	26.356	36.882	1.00160.48	O
ATOM	4817	N	ALA	610	-42.212	24.266	36.434	1.00 54.82	N
ATOM	4818	CA	ALA	610	-41.121	24.308	37.371	1.00 54.82	C
ATOM	4819	CB	ALA	610	-40.398	22.955	37.485	1.00 54.82	C
ATOM	4820	C	ALA	610	-40.088	25.333	37.000	1.00 54.82	C
ATOM	4821	O	ALA	610	-39.674	26.134	37.837	1.00 54.82	O
ATOM	4822	N	LEU	611	-39.654	25.350	35.727	1.00 69.64	N

ATOM	4823	CA	LEU	611	-38.616	26.244	35.295	1.00	69.64	C
ATOM	4824	CB	LEU	611	-38.104	25.955	33.875	1.00	69.64	C
ATOM	4825	CG	LEU	611	-37.323	24.628	33.793	1.00	69.64	C
ATOM	4826	CD1	LEU	611	-36.776	24.375	32.379	1.00	69.64	C
ATOM	4827	CD2	LEU	611	-36.232	24.560	34.877	1.00	69.64	C
ATOM	4828	C	LEU	611	-39.104	27.653	35.366	1.00	69.64	C
ATOM	4829	O	LEU	611	-38.334	28.561	35.674	1.00	69.64	O
ATOM	4830	N	ASN	612	-40.392	27.879	35.046	1.00	58.96	N
ATOM	4831	CA	ASN	612	-40.925	29.210	35.120	1.00	58.96	C
ATOM	4832	CB	ASN	612	-42.372	29.355	34.619	1.00	58.96	C
ATOM	4833	CG	ASN	612	-42.348	29.555	33.111	1.00	58.96	C
ATOM	4834	OD1	ASN	612	-41.289	29.722	32.508	1.00	58.96	O
ATOM	4835	ND2	ASN	612	-43.555	29.574	32.486	1.00	58.96	N
ATOM	4836	C	ASN	612	-40.913	29.673	36.541	1.00	58.96	C
ATOM	4837	O	ASN	612	-40.572	30.824	36.810	1.00	58.96	O
ATOM	4838	N	THR	613	-41.290	28.795	37.492	1.00	48.36	N
ATOM	4839	CA	THR	613	-41.326	29.216	38.862	1.00	48.36	C
ATOM	4840	CB	THR	613	-41.862	28.190	39.817	1.00	48.36	C
ATOM	4841	OG1	THR	613	-43.196	27.844	39.475	1.00	48.36	O
ATOM	4842	CG2	THR	613	-41.814	28.788	41.235	1.00	48.36	C
ATOM	4843	C	THR	613	-39.937	29.549	39.309	1.00	48.36	C
ATOM	4844	O	THR	613	-39.730	30.540	40.005	1.00	48.36	O
ATOM	4845	N	PHE	614	-38.945	28.729	38.909	1.00	69.27	N
ATOM	4846	CA	PHE	614	-37.579	28.917	39.314	1.00	69.27	C
ATOM	4847	CB	PHE	614	-36.659	27.834	38.713	1.00	69.27	C
ATOM	4848	CG	PHE	614	-35.248	28.060	39.144	1.00	69.27	C
ATOM	4849	CD1	PHE	614	-34.802	27.586	40.357	1.00	69.27	C
ATOM	4850	CD2	PHE	614	-34.363	28.731	38.332	1.00	69.27	C
ATOM	4851	CE1	PHE	614	-33.500	27.787	40.754	1.00	69.27	C
ATOM	4852	CE2	PHE	614	-33.060	28.934	38.723	1.00	69.27	C
ATOM	4853	CZ	PHE	614	-32.626	28.463	39.938	1.00	69.27	C
ATOM	4854	C	PHE	614	-37.079	30.250	38.838	1.00	69.27	C
ATOM	4855	O	PHE	614	-36.549	31.034	39.623	1.00	69.27	O
ATOM	4856	N	THR	615	-37.266	30.556	37.541	1.00	48.03	N
ATOM	4857	CA	THR	615	-36.761	31.768	36.957	1.00	48.03	C
ATOM	4858	CB	THR	615	-36.998	31.833	35.474	1.00	48.03	C
ATOM	4859	OG1	THR	615	-36.399	30.714	34.836	1.00	48.03	O
ATOM	4860	CG2	THR	615	-36.385	33.134	34.932	1.00	48.03	C
ATOM	4861	C	THR	615	-37.427	32.952	37.587	1.00	48.03	C
ATOM	4862	O	THR	615	-36.791	33.973	37.844	1.00	48.03	O
ATOM	4863	N	ASN	616	-38.742	32.848	37.846	1.00	67.11	N
ATOM	4864	CA	ASN	616	-39.501	33.933	38.397	1.00	67.11	C
ATOM	4865	CB	ASN	616	-40.996	33.599	38.458	1.00	67.11	C
ATOM	4866	CG	ASN	616	-41.741	34.916	38.442	1.00	67.11	C
ATOM	4867	OD1	ASN	616	-41.213	35.950	38.844	1.00	67.11	O
ATOM	4868	ND2	ASN	616	-43.017	34.883	37.972	1.00	67.11	N
ATOM	4869	C	ASN	616	-39.009	34.241	39.786	1.00	67.11	C
ATOM	4870	O	ASN	616	-38.910	35.408	40.167	1.00	67.11	O
ATOM	4871	N	LEU	617	-38.682	33.202	40.583	1.00	63.94	N
ATOM	4872	CA	LEU	617	-38.176	33.415	41.911	1.00	63.94	C
ATOM	4873	CB	LEU	617	-37.814	32.109	42.642	1.00	63.94	C
ATOM	4874	CG	LEU	617	-39.016	31.323	43.188	1.00	63.94	C
ATOM	4875	CD1	LEU	617	-38.573	29.988	43.808	1.00	63.94	C
ATOM	4876	CD2	LEU	617	-39.805	32.179	44.193	1.00	63.94	C
ATOM	4877	C	LEU	617	-36.903	34.194	41.806	1.00	63.94	C
ATOM	4878	O	LEU	617	-36.666	35.116	42.584	1.00	63.94	O
ATOM	4879	N	VAL	618	-36.044	33.835	40.838	1.00	37.49	N
ATOM	4880	CA	VAL	618	-34.783	34.500	40.665	1.00	37.49	C
ATOM	4881	CB	VAL	618	-33.948	33.890	39.579	1.00	37.49	C
ATOM	4882	CG1	VAL	618	-32.716	34.783	39.355	1.00	37.49	C
ATOM	4883	CG2	VAL	618	-33.602	32.446	39.979	1.00	37.49	C
ATOM	4884	C	VAL	618	-35.000	35.938	40.298	1.00	37.49	C
ATOM	4885	O	VAL	618	-34.326	36.822	40.824	1.00	37.49	O
ATOM	4886	N	VAL	619	-35.954	36.212	39.385	1.00	44.86	N
ATOM	4887	CA	VAL	619	-36.191	37.554	38.926	1.00	44.86	C
ATOM	4888	CB	VAL	619	-37.266	37.635	37.881	1.00	44.86	C

ATOM	4889	CG1 VAL	619	-37.550	39.118	37.587	1.00	44.86	C
ATOM	4890	CG2 VAL	619	-36.809	36.840	36.647	1.00	44.86	C
ATOM	4891	C VAL	619	-36.614	38.423	40.074	1.00	44.86	C
ATOM	4892	O VAL	619	-36.171	39.566	40.189	1.00	44.86	O
ATOM	4893	N GLN	620	-37.495	37.905	40.949	1.00	63.27	N
ATOM	4894	CA GLN	620	-38.012	38.664	42.055	1.00	63.27	C
ATOM	4895	CB GLN	620	-39.149	37.940	42.796	1.00	63.27	C
ATOM	4896	CG GLN	620	-40.361	37.678	41.898	1.00	63.27	C
ATOM	4897	CD GLN	620	-40.854	39.018	41.366	1.00	63.27	C
ATOM	4898	OE1 GLN	620	-40.445	40.078	41.835	1.00	63.27	O
ATOM	4899	NE2 GLN	620	-41.759	38.971	40.351	1.00	63.27	N
ATOM	4900	C GLN	620	-36.921	38.965	43.040	1.00	63.27	C
ATOM	4901	O GLN	620	-36.909	40.037	43.642	1.00	63.27	O
ATOM	4902	N LEU	621	-35.988	38.016	43.257	1.00	118.66	N
ATOM	4903	CA LEU	621	-34.913	38.245	44.182	1.00	118.66	C
ATOM	4904	CB LEU	621	-34.011	37.021	44.413	1.00	118.66	C
ATOM	4905	CG LEU	621	-34.539	36.048	45.484	1.00	118.66	C
ATOM	4906	CD1 LEU	621	-35.967	35.575	45.192	1.00	118.66	C
ATOM	4907	CD2 LEU	621	-33.567	34.878	45.682	1.00	118.66	C
ATOM	4908	C LEU	621	-34.047	39.369	43.707	1.00	118.66	C
ATOM	4909	O LEU	621	-33.604	40.193	44.506	1.00	118.66	O
ATOM	4910	N ILE	622	-33.765	39.431	42.394	1.00	55.82	N
ATOM	4911	CA ILE	622	-32.930	40.476	41.871	1.00	55.82	C
ATOM	4912	CB ILE	622	-32.570	40.287	40.433	1.00	55.82	C
ATOM	4913	CG1 ILE	622	-31.705	39.022	40.304	1.00	55.82	C
ATOM	4914	CG2 ILE	622	-31.867	41.563	39.939	1.00	55.82	C
ATOM	4915	CD1 ILE	622	-31.543	38.535	38.873	1.00	55.82	C
ATOM	4916	C ILE	622	-33.608	41.798	42.041	1.00	55.82	C
ATOM	4917	O ILE	622	-32.963	42.793	42.373	1.00	55.82	O
ATOM	4918	N ARG	623	-34.931	41.856	41.809	1.00	151.79	N
ATOM	4919	CA ARG	623	-35.616	43.112	41.930	1.00	151.79	C
ATOM	4920	CB ARG	623	-37.081	43.082	41.464	1.00	151.79	C
ATOM	4921	CG ARG	623	-37.753	44.447	41.625	1.00	151.79	C
ATOM	4922	CD ARG	623	-38.749	44.804	40.519	1.00	151.79	C
ATOM	4923	NE ARG	623	-40.002	44.025	40.699	1.00	151.79	N
ATOM	4924	CZ ARG	623	-41.197	44.623	40.423	1.00	151.79	C
ATOM	4925	NH1 ARG	623	-41.247	45.959	40.147	1.00	151.79	N
ATOM	4926	NH2 ARG	623	-42.343	43.883	40.409	1.00	151.79	N
ATOM	4927	C ARG	623	-35.555	43.570	43.356	1.00	151.79	C
ATOM	4928	O ARG	623	-35.439	44.766	43.621	1.00	151.79	O
ATOM	4929	N ASN	624	-35.638	42.628	44.318	1.00	69.16	N
ATOM	4930	CA ASN	624	-35.597	42.987	45.706	1.00	69.16	C
ATOM	4931	CB ASN	624	-35.781	41.774	46.636	1.00	69.16	C
ATOM	4932	CG ASN	624	-36.063	42.286	48.042	1.00	69.16	C
ATOM	4933	OD1 ASN	624	-35.782	43.438	48.369	1.00	69.16	O
ATOM	4934	ND2 ASN	624	-36.635	41.403	48.903	1.00	69.16	N
ATOM	4935	C ASN	624	-34.256	43.596	46.008	1.00	69.16	C
ATOM	4936	O ASN	624	-34.169	44.566	46.761	1.00	69.16	O
ATOM	4937	N MET	625	-33.171	43.046	45.422	1.00	67.39	N
ATOM	4938	CA MET	625	-31.846	43.553	45.669	1.00	67.39	C
ATOM	4939	CB MET	625	-30.728	42.788	44.930	1.00	67.39	C
ATOM	4940	CG MET	625	-30.365	41.433	45.538	1.00	67.39	C
ATOM	4941	SD MET	625	-28.920	40.624	44.776	1.00	67.39	S
ATOM	4942	CE MET	625	-29.866	39.570	43.643	1.00	67.39	C
ATOM	4943	C MET	625	-31.752	44.970	45.201	1.00	67.39	C
ATOM	4944	O MET	625	-31.138	45.809	45.857	1.00	67.39	O
ATOM	4945	N GLU	626	-32.344	45.267	44.032	1.00	47.24	N
ATOM	4946	CA GLU	626	-32.310	46.595	43.489	1.00	47.24	C
ATOM	4947	CB GLU	626	-32.996	46.684	42.115	1.00	47.24	C
ATOM	4948	CG GLU	626	-32.953	48.078	41.487	1.00	47.24	C
ATOM	4949	CD GLU	626	-33.659	48.007	40.139	1.00	47.24	C
ATOM	4950	OE1 GLU	626	-34.392	47.009	39.904	1.00	47.24	O
ATOM	4951	OE2 GLU	626	-33.477	48.951	39.326	1.00	47.24	O
ATOM	4952	C GLU	626	-33.054	47.510	44.420	1.00	47.24	C
ATOM	4953	O GLU	626	-32.632	48.639	44.667	1.00	47.24	O
ATOM	4954	N ALA	627	-34.189	47.036	44.972	1.00	39.40	N

ATOM	4955	CA	ALA	627	-35.005	47.844	45.836	1.00	39.40	C
ATOM	4956	CB	ALA	627	-36.274	47.113	46.304	1.00	39.40	C
ATOM	4957	C	ALA	627	-34.219	48.210	47.061	1.00	39.40	C
ATOM	4958	O	ALA	627	-34.281	49.346	47.523	1.00	39.40	O
ATOM	4959	N	GLU	628	-33.457	47.250	47.613	1.00	91.82	N
ATOM	4960	CA	GLU	628	-32.661	47.404	48.803	1.00	91.82	C
ATOM	4961	CB	GLU	628	-32.210	46.068	49.415	1.00	91.82	C
ATOM	4962	CG	GLU	628	-33.394	45.317	50.029	1.00	91.82	C
ATOM	4963	CD	GLU	628	-32.900	44.029	50.666	1.00	91.82	C
ATOM	4964	OE1	GLU	628	-31.736	44.013	51.149	1.00	91.82	O
ATOM	4965	OE2	GLU	628	-33.684	43.045	50.682	1.00	91.82	O
ATOM	4966	C	GLU	628	-31.464	48.283	48.547	1.00	91.82	C
ATOM	4967	O	GLU	628	-30.799	48.723	49.485	1.00	91.82	O
ATOM	4968	N	GLU	629	-31.155	48.549	47.265	1.00130.28		N
ATOM	4969	CA	GLU	629	-30.036	49.345	46.824	1.00130.28		C
ATOM	4970	CB	GLU	629	-29.784	50.607	47.676	1.00130.28		C
ATOM	4971	CG	GLU	629	-28.819	51.593	47.004	1.00130.28		C
ATOM	4972	CD	GLU	629	-28.472	52.711	47.976	1.00130.28		C
ATOM	4973	OE1	GLU	629	-29.228	52.901	48.966	1.00130.28		O
ATOM	4974	OE2	GLU	629	-27.438	53.393	47.739	1.00130.28		O
ATOM	4975	C	GLU	629	-28.759	48.554	46.788	1.00130.28		C
ATOM	4976	O	GLU	629	-27.669	49.121	46.766	1.00130.28		O
ATOM	4977	N	VAL	630	-28.850	47.211	46.760	1.00	81.30	N
ATOM	4978	CA	VAL	630	-27.663	46.421	46.584	1.00	81.30	C
ATOM	4979	CB	VAL	630	-27.909	44.949	46.754	1.00	81.30	C
ATOM	4980	CG1	VAL	630	-26.626	44.182	46.388	1.00	81.30	C
ATOM	4981	CG2	VAL	630	-28.381	44.707	48.198	1.00	81.30	C
ATOM	4982	C	VAL	630	-27.148	46.644	45.190	1.00	81.30	C
ATOM	4983	O	VAL	630	-25.945	46.771	44.967	1.00	81.30	O
ATOM	4984	N	LEU	631	-28.061	46.693	44.201	1.00	92.26	N
ATOM	4985	CA	LEU	631	-27.674	46.856	42.827	1.00	92.26	C
ATOM	4986	CB	LEU	631	-28.231	45.746	41.920	1.00	92.26	C
ATOM	4987	CG	LEU	631	-27.785	44.322	42.310	1.00	92.26	C
ATOM	4988	CD1	LEU	631	-28.390	43.275	41.362	1.00	92.26	C
ATOM	4989	CD2	LEU	631	-26.256	44.215	42.415	1.00	92.26	C
ATOM	4990	C	LEU	631	-28.256	48.145	42.329	1.00	92.26	C
ATOM	4991	O	LEU	631	-29.340	48.551	42.744	1.00	92.26	O
ATOM	4992	N	GLU	632	-27.542	48.829	41.412	1.00122.31		N
ATOM	4993	CA	GLU	632	-28.029	50.079	40.902	1.00122.31		C
ATOM	4994	CB	GLU	632	-27.253	51.288	41.438	1.00122.31		C
ATOM	4995	CG	GLU	632	-27.354	51.453	42.955	1.00122.31		C
ATOM	4996	CD	GLU	632	-26.418	50.433	43.587	1.00122.31		C
ATOM	4997	OE1	GLU	632	-25.198	50.477	43.273	1.00122.31		O
ATOM	4998	OE2	GLU	632	-26.908	49.594	44.390	1.00122.31		O
ATOM	4999	C	GLU	632	-27.860	50.070	39.415	1.00122.31		C
ATOM	5000	O	GLU	632	-27.346	49.118	38.834	1.00122.31		O
ATOM	5001	N	MET	633	-28.276	51.173	38.769	1.00146.85		N
ATOM	5002	CA	MET	633	-28.254	51.318	37.342	1.00146.85		C
ATOM	5003	CB	MET	633	-28.766	52.704	36.899	1.00146.85		C
ATOM	5004	CG	MET	633	-28.789	52.931	35.383	1.00146.85		C
ATOM	5005	SD	MET	633	-27.167	53.214	34.609	1.00146.85		S
ATOM	5006	CE	MET	633	-26.988	54.919	35.212	1.00146.85		C
ATOM	5007	C	MET	633	-26.836	51.178	36.883	1.00146.85		C
ATOM	5008	O	MET	633	-26.582	50.657	35.800	1.00146.85		O
ATOM	5009	N	GLN	634	-25.879	51.658	37.695	1.00144.67		N
ATOM	5010	CA	GLN	634	-24.483	51.644	37.354	1.00144.67		C
ATOM	5011	CB	GLN	634	-23.628	52.297	38.452	1.00144.67		C
ATOM	5012	CG	GLN	634	-24.108	53.696	38.837	1.00144.67		C
ATOM	5013	CD	GLN	634	-25.292	53.537	39.781	1.00144.67		C
ATOM	5014	OE1	GLN	634	-26.427	53.858	39.435	1.00144.67		O
ATOM	5015	NE2	GLN	634	-25.021	53.026	41.011	1.00144.67		N
ATOM	5016	C	GLN	634	-23.996	50.228	37.202	1.00144.67		C
ATOM	5017	O	GLN	634	-23.207	49.929	36.306	1.00144.67		O
ATOM	5018	N	ASP	635	-24.449	49.318	38.085	1.00126.71		N
ATOM	5019	CA	ASP	635	-24.005	47.948	38.100	1.00126.71		C
ATOM	5020	CB	ASP	635	-24.455	47.174	39.350	1.00126.71		C

ATOM	5021	CG	ASP	635	-23.542	47.575	40.501	1.00126.71	C
ATOM	5022	OD1	ASP	635	-22.613	48.393	40.275	1.00126.71	O
ATOM	5023	OD2	ASP	635	-23.755	47.054	41.628	1.00126.71	O
ATOM	5024	C	ASP	635	-24.463	47.175	36.899	1.00126.71	C
ATOM	5025	O	ASP	635	-23.798	46.225	36.488	1.00126.71	O
ATOM	5026	N	LEU	636	-25.616	47.534	36.310	1.00109.56	N
ATOM	5027	CA	LEU	636	-26.144	46.754	35.223	1.00109.56	C
ATOM	5028	CB	LEU	636	-27.532	47.210	34.742	1.00109.56	C
ATOM	5029	CG	LEU	636	-28.636	46.804	35.727	1.00109.56	C
ATOM	5030	CD1	LEU	636	-30.035	47.176	35.218	1.00109.56	C
ATOM	5031	CD2	LEU	636	-28.516	45.313	36.064	1.00109.56	C
ATOM	5032	C	LEU	636	-25.228	46.707	34.031	1.00109.56	C
ATOM	5033	O	LEU	636	-25.139	45.659	33.394	1.00109.56	O
ATOM	5034	N	TRP	637	-24.563	47.819	33.648	1.00134.10	N
ATOM	5035	CA	TRP	637	-23.698	47.752	32.492	1.00134.10	C
ATOM	5036	CB	TRP	637	-23.128	49.110	32.036	1.00134.10	C
ATOM	5037	CG	TRP	637	-22.349	49.029	30.737	1.00134.10	C
ATOM	5038	CD2	TRP	637	-20.914	49.048	30.612	1.00134.10	C
ATOM	5039	CD1	TRP	637	-22.840	48.939	29.467	1.00134.10	C
ATOM	5040	NE1	TRP	637	-21.807	48.894	28.561	1.00134.10	N
ATOM	5041	CE2	TRP	637	-20.617	48.963	29.251	1.00134.10	C
ATOM	5042	CE3	TRP	637	-19.925	49.133	31.551	1.00134.10	C
ATOM	5043	CZ2	TRP	637	-19.324	48.960	28.807	1.00134.10	C
ATOM	5044	CZ3	TRP	637	-18.623	49.128	31.098	1.00134.10	C
ATOM	5045	CH2	TRP	637	-18.327	49.043	29.753	1.00134.10	C
ATOM	5046	C	TRP	637	-22.521	46.870	32.786	1.00134.10	C
ATOM	5047	O	TRP	637	-22.182	45.984	32.002	1.00134.10	O
ATOM	5048	N	LEU	638	-21.840	47.113	33.922	1.00 74.32	N
ATOM	5049	CA	LEU	638	-20.726	46.296	34.310	1.00 74.32	C
ATOM	5050	CB	LEU	638	-19.355	46.920	33.965	1.00 74.32	C
ATOM	5051	CG	LEU	638	-18.113	46.029	34.213	1.00 74.32	C
ATOM	5052	CD1	LEU	638	-16.839	46.724	33.705	1.00 74.32	C
ATOM	5053	CD2	LEU	638	-17.959	45.605	35.684	1.00 74.32	C
ATOM	5054	C	LEU	638	-20.841	46.151	35.791	1.00 74.32	C
ATOM	5055	O	LEU	638	-21.096	47.123	36.497	1.00 74.32	O
ATOM	5056	N	LEU	639	-20.657	44.922	36.308	1.00 91.32	N
ATOM	5057	CA	LEU	639	-20.795	44.738	37.722	1.00 91.32	C
ATOM	5058	CB	LEU	639	-21.456	43.392	38.074	1.00 91.32	C
ATOM	5059	CG	LEU	639	-21.658	43.139	39.579	1.00 91.32	C
ATOM	5060	CD1	LEU	639	-22.719	44.082	40.167	1.00 91.32	C
ATOM	5061	CD2	LEU	639	-21.962	41.658	39.858	1.00 91.32	C
ATOM	5062	C	LEU	639	-19.413	44.731	38.299	1.00 91.32	C
ATOM	5063	O	LEU	639	-18.532	44.004	37.839	1.00 91.32	O
ATOM	5064	N	ARG	640	-19.192	45.564	39.334	1.00463.09	N
ATOM	5065	CA	ARG	640	-17.914	45.642	39.987	1.00463.09	C
ATOM	5066	CB	ARG	640	-17.762	46.875	40.901	1.00463.09	C
ATOM	5067	CG	ARG	640	-16.345	47.098	41.443	1.00463.09	C
ATOM	5068	CD	ARG	640	-15.343	47.589	40.392	1.00463.09	C
ATOM	5069	NE	ARG	640	-14.033	47.791	41.076	1.00463.09	N
ATOM	5070	CZ	ARG	640	-12.871	47.782	40.358	1.00463.09	C
ATOM	5071	NH1	ARG	640	-12.902	47.584	39.008	1.00463.09	N
ATOM	5072	NH2	ARG	640	-11.676	47.969	40.992	1.00463.09	N
ATOM	5073	C	ARG	640	-17.818	44.415	40.831	1.00463.09	C
ATOM	5074	O	ARG	640	-18.746	43.611	40.838	1.00463.09	O
ATOM	5075	N	LYS	641	-16.679	44.170	41.510	1.00361.13	N
ATOM	5076	CA	LYS	641	-16.686	42.969	42.293	1.00361.13	C
ATOM	5077	CB	LYS	641	-15.547	41.988	41.972	1.00361.13	C
ATOM	5078	CG	LYS	641	-15.730	40.632	42.658	1.00361.13	C
ATOM	5079	CD	LYS	641	-16.881	39.788	42.095	1.00361.13	C
ATOM	5080	CE	LYS	641	-18.251	40.475	42.129	1.00361.13	C
ATOM	5081	NZ	LYS	641	-19.318	39.474	41.894	1.00361.13	N
ATOM	5082	C	LYS	641	-16.612	43.289	43.756	1.00361.13	C
ATOM	5083	O	LYS	641	-15.558	43.589	44.321	1.00361.13	O
ATOM	5084	N	PRO	642	-17.788	43.279	44.327	1.00443.68	N
ATOM	5085	CA	PRO	642	-17.983	43.367	45.746	1.00443.68	C
ATOM	5086	CD	PRO	642	-18.926	43.838	43.618	1.00443.68	C

ATOM	5087	CB	PRO	642	-19.236	44.213	45.963	1.00443.68	C
ATOM	5088	CG	PRO	642	-20.030	44.023	44.663	1.00443.68	C
ATOM	5089	C	PRO	642	-18.235	41.953	46.182	1.00443.68	C
ATOM	5090	O	PRO	642	-18.044	41.040	45.387	1.00443.68	O
ATOM	5091	N	GLU	643	-18.525	41.753	47.475	1.00145.94	N
ATOM	5092	CA	GLU	643	-19.019	40.566	48.120	1.00145.94	C
ATOM	5093	CB	GLU	643	-18.615	40.509	49.604	1.00145.94	C
ATOM	5094	CG	GLU	643	-17.103	40.463	49.825	1.00145.94	C
ATOM	5095	CD	GLU	643	-16.605	39.124	49.311	1.00145.94	C
ATOM	5096	OE1	GLU	643	-17.099	38.078	49.813	1.00145.94	O
ATOM	5097	OE2	GLU	643	-15.729	39.127	48.405	1.00145.94	O
ATOM	5098	C	GLU	643	-20.511	40.615	48.104	1.00145.94	C
ATOM	5099	O	GLU	643	-21.190	39.604	48.275	1.00145.94	O
ATOM	5100	N	LYS	644	-21.039	41.830	47.879	1.00204.63	N
ATOM	5101	CA	LYS	644	-22.386	42.228	48.169	1.00204.63	C
ATOM	5102	CB	LYS	644	-22.733	43.579	47.514	1.00204.63	C
ATOM	5103	CG	LYS	644	-22.168	44.812	48.218	1.00204.63	C
ATOM	5104	CD	LYS	644	-22.838	45.100	49.561	1.00204.63	C
ATOM	5105	CE	LYS	644	-24.258	45.652	49.415	1.00204.63	C
ATOM	5106	NZ	LYS	644	-25.187	44.570	49.015	1.00204.63	N
ATOM	5107	C	LYS	644	-23.448	41.285	47.691	1.00204.63	C
ATOM	5108	O	LYS	644	-24.314	40.917	48.482	1.00204.63	O
ATOM	5109	N	VAL	645	-23.456	40.858	46.417	1.00128.83	N
ATOM	5110	CA	VAL	645	-24.578	40.042	46.033	1.00128.83	C
ATOM	5111	CB	VAL	645	-24.637	39.720	44.566	1.00128.83	C
ATOM	5112	CG1	VAL	645	-24.981	41.000	43.794	1.00128.83	C
ATOM	5113	CG2	VAL	645	-23.305	39.096	44.138	1.00128.83	C
ATOM	5114	C	VAL	645	-24.585	38.758	46.795	1.00128.83	C
ATOM	5115	O	VAL	645	-25.625	38.337	47.302	1.00128.83	O
ATOM	5116	N	THR	646	-23.416	38.109	46.913	1.00 49.74	N
ATOM	5117	CA	THR	646	-23.316	36.834	47.557	1.00 49.74	C
ATOM	5118	CB	THR	646	-21.931	36.267	47.450	1.00 49.74	C
ATOM	5119	OG1	THR	646	-21.559	36.157	46.084	1.00 49.74	O
ATOM	5120	CG2	THR	646	-21.909	34.879	48.112	1.00 49.74	C
ATOM	5121	C	THR	646	-23.668	36.965	49.008	1.00 49.74	C
ATOM	5122	O	THR	646	-24.372	36.122	49.563	1.00 49.74	O
ATOM	5123	N	ARG	647	-23.194	38.034	49.674	1.00125.14	N
ATOM	5124	CA	ARG	647	-23.442	38.164	51.082	1.00125.14	C
ATOM	5125	CB	ARG	647	-22.752	39.389	51.714	1.00125.14	C
ATOM	5126	CG	ARG	647	-23.304	40.740	51.255	1.00125.14	C
ATOM	5127	CD	ARG	647	-24.561	41.149	52.029	1.00125.14	C
ATOM	5128	NE	ARG	647	-25.049	42.445	51.485	1.00125.14	N
ATOM	5129	CZ	ARG	647	-26.218	42.972	51.955	1.00125.14	C
ATOM	5130	NH1	ARG	647	-26.906	42.326	52.941	1.00125.14	N
ATOM	5131	NH2	ARG	647	-26.699	44.141	51.442	1.00125.14	N
ATOM	5132	C	ARG	647	-24.917	38.313	51.291	1.00125.14	C
ATOM	5133	O	ARG	647	-25.485	37.751	52.226	1.00125.14	O
ATOM	5134	N	TRP	648	-25.571	39.079	50.400	1.00 94.79	N
ATOM	5135	CA	TRP	648	-26.968	39.387	50.495	1.00 94.79	C
ATOM	5136	CB	TRP	648	-27.377	40.318	49.339	1.00 94.79	C
ATOM	5137	CG	TRP	648	-28.787	40.838	49.382	1.00 94.79	C
ATOM	5138	CD2	TRP	648	-29.908	40.197	48.757	1.00 94.79	C
ATOM	5139	CD1	TRP	648	-29.266	41.970	49.973	1.00 94.79	C
ATOM	5140	NE1	TRP	648	-30.618	42.075	49.755	1.00 94.79	N
ATOM	5141	CE2	TRP	648	-31.027	40.989	49.009	1.00 94.79	C
ATOM	5142	CE3	TRP	648	-29.997	39.042	48.033	1.00 94.79	C
ATOM	5143	CZ2	TRP	648	-32.261	40.637	48.543	1.00 94.79	C
ATOM	5144	CZ3	TRP	648	-31.243	38.688	47.564	1.00 94.79	C
ATOM	5145	CH2	TRP	648	-32.352	39.471	47.815	1.00 94.79	C
ATOM	5146	C	TRP	648	-27.744	38.110	50.398	1.00 94.79	C
ATOM	5147	O	TRP	648	-28.652	37.856	51.189	1.00 94.79	O
ATOM	5148	N	LEU	649	-27.398	37.257	49.420	1.00 63.61	N
ATOM	5149	CA	LEU	649	-28.111	36.024	49.238	1.00 63.61	C
ATOM	5150	CB	LEU	649	-27.632	35.254	47.994	1.00 63.61	C
ATOM	5151	CG	LEU	649	-27.978	35.957	46.667	1.00 63.61	C
ATOM	5152	CD1	LEU	649	-27.482	35.149	45.458	1.00 63.61	C

ATOM	5153	CD2 LEU	649	-29.485	36.258	46.581	1.00	63.61	C
ATOM	5154	C LEU	649	-27.903	35.141	50.428	1.00	63.61	C
ATOM	5155	O LEU	649	-28.844	34.525	50.923	1.00	63.61	O
ATOM	5156	N GLN	650	-26.655	35.065	50.926	1.00	83.64	N
ATOM	5157	CA GLN	650	-26.346	34.172	52.004	0.88	83.64	C
ATOM	5158	CB GLN	650	-24.854	34.210	52.378	0.88	83.64	C
ATOM	5159	CG GLN	650	-23.930	33.685	51.280	0.83	83.64	C
ATOM	5160	CD GLN	650	-23.998	32.167	51.302	0.75	83.64	C
ATOM	5161	OE1 GLN	650	-23.844	31.543	52.350	0.75	83.64	O
ATOM	5162	NE2 GLN	650	-24.243	31.550	50.114	1.00	83.64	N
ATOM	5163	C GLN	650	-27.108	34.565	53.227	1.00	83.64	C
ATOM	5164	O GLN	650	-27.681	33.718	53.909	1.00	83.64	O
ATOM	5165	N SER	651	-27.099	35.867	53.558	1.00	106.62	N
ATOM	5166	CA SER	651	-27.780	36.323	54.730	1.00	106.62	C
ATOM	5167	CB SER	651	-27.425	37.779	55.068	1.00	106.62	C
ATOM	5168	OG SER	651	-28.135	38.185	56.224	1.00	106.62	O
ATOM	5169	C SER	651	-29.271	36.258	54.577	1.00	106.62	C
ATOM	5170	O SER	651	-29.936	35.416	55.175	1.00	106.62	O
ATOM	5171	N ASN	652	-29.811	37.189	53.766	1.00	167.19	N
ATOM	5172	CA ASN	652	-31.216	37.451	53.590	1.00	167.19	C
ATOM	5173	CB ASN	652	-31.527	38.924	53.281	1.00	167.19	C
ATOM	5174	CG ASN	652	-30.820	39.304	52.008	1.00	167.19	C
ATOM	5175	OD1 ASN	652	-29.796	39.984	52.029	1.00	167.19	O
ATOM	5176	ND2 ASN	652	-31.366	38.826	50.860	1.00	167.19	N
ATOM	5177	C ASN	652	-31.995	36.568	52.646	1.00	167.19	C
ATOM	5178	O ASN	652	-33.222	36.549	52.726	1.00	167.19	O
ATOM	5179	N GLY	653	-31.351	35.819	51.732	1.00	62.13	N
ATOM	5180	CA GLY	653	-32.072	35.170	50.666	1.00	62.13	C
ATOM	5181	C GLY	653	-33.210	34.309	51.145	1.00	62.13	C
ATOM	5182	O GLY	653	-34.293	34.346	50.563	1.00	62.13	O
ATOM	5183	N TRP	654	-33.020	33.518	52.212	1.00	101.98	N
ATOM	5184	CA TRP	654	-34.029	32.584	52.637	1.00	101.98	C
ATOM	5185	CB TRP	654	-33.532	31.757	53.838	1.00	101.98	C
ATOM	5186	CG TRP	654	-34.184	30.409	54.044	1.00	101.98	C
ATOM	5187	CD2 TRP	654	-35.559	30.161	54.379	1.00	101.98	C
ATOM	5188	CD1 TRP	654	-33.592	29.185	53.928	1.00	101.98	C
ATOM	5189	NE1 TRP	654	-34.503	28.192	54.184	1.00	101.98	N
ATOM	5190	CE2 TRP	654	-35.720	28.776	54.460	1.00	101.98	C
ATOM	5191	CE3 TRP	654	-36.603	31.011	54.599	1.00	101.98	C
ATOM	5192	CZ2 TRP	654	-36.928	28.220	54.765	1.00	101.98	C
ATOM	5193	CZ3 TRP	654	-37.819	30.444	54.906	1.00	101.98	C
ATOM	5194	CH2 TRP	654	-37.982	29.077	54.989	1.00	101.98	C
ATOM	5195	C TRP	654	-35.258	33.341	53.062	1.00	101.98	C
ATOM	5196	O TRP	654	-36.375	32.981	52.693	1.00	101.98	O
ATOM	5197	N ASP	655	-35.078	34.419	53.854	1.00	72.88	N
ATOM	5198	CA ASP	655	-36.173	35.192	54.377	1.00	72.88	C
ATOM	5199	CB ASP	655	-35.711	36.304	55.336	1.00	72.88	C
ATOM	5200	CG ASP	655	-36.941	36.878	56.029	1.00	72.88	C
ATOM	5201	OD1 ASP	655	-38.061	36.365	55.766	1.00	72.88	O
ATOM	5202	OD2 ASP	655	-36.776	37.837	56.828	1.00	72.88	O
ATOM	5203	C ASP	655	-36.910	35.848	53.250	1.00	72.88	C
ATOM	5204	O ASP	655	-38.139	35.900	53.249	1.00	72.88	O
ATOM	5205	N ARG	656	-36.170	36.351	52.243	1.00	141.90	N
ATOM	5206	CA ARG	656	-36.764	37.045	51.135	1.00	141.90	C
ATOM	5207	CB ARG	656	-35.740	37.624	50.137	1.00	141.90	C
ATOM	5208	CG ARG	656	-35.293	39.053	50.468	1.00	141.90	C
ATOM	5209	CD ARG	656	-34.584	39.220	51.812	1.00	141.90	C
ATOM	5210	NE ARG	656	-34.232	40.661	51.955	1.00	141.90	N
ATOM	5211	CZ ARG	656	-33.900	41.160	53.182	1.00	141.90	C
ATOM	5212	NH1 ARG	656	-33.931	40.346	54.275	1.00	141.90	N
ATOM	5213	NH2 ARG	656	-33.528	42.466	53.318	1.00	141.90	N
ATOM	5214	C ARG	656	-37.692	36.131	50.387	1.00	141.90	C
ATOM	5215	O ARG	656	-38.727	36.575	49.896	1.00	141.90	O
ATOM	5216	N LEU	657	-37.347	34.835	50.261	1.00	127.13	N
ATOM	5217	CA LEU	657	-38.187	33.893	49.564	1.00	127.13	C
ATOM	5218	CB LEU	657	-37.562	32.497	49.381	1.00	127.13	C

ATOM	5219	CG	LEU	657	-36.601	32.382	48.180	1.00127.13	C
ATOM	5220	CD1	LEU	657	-35.409	33.336	48.277	1.00127.13	C
ATOM	5221	CD2	LEU	657	-36.165	30.927	47.969	1.00127.13	C
ATOM	5222	C	LEU	657	-39.512	33.711	50.261	1.00127.13	C
ATOM	5223	O	LEU	657	-40.524	33.467	49.605	1.00127.13	O
ATOM	5224	N	LYS	658	-39.539	33.801	51.605	1.00103.83	N
ATOM	5225	CA	LYS	658	-40.719	33.609	52.419	1.00103.83	C
ATOM	5226	CB	LYS	658	-40.477	33.831	53.926	1.00103.83	C
ATOM	5227	CG	LYS	658	-39.465	32.928	54.635	1.00103.83	C
ATOM	5228	CD	LYS	658	-39.167	33.445	56.050	1.00103.83	C
ATOM	5229	CE	LYS	658	-38.204	32.592	56.880	1.00103.83	C
ATOM	5230	NZ	LYS	658	-36.811	33.044	56.670	1.00103.83	N
ATOM	5231	C	LYS	658	-41.733	34.668	52.087	1.00103.83	C
ATOM	5232	O	LYS	658	-42.925	34.524	52.358	1.00103.83	O
ATOM	5233	N	ARG	659	-41.244	35.813	51.598	1.00102.85	N
ATOM	5234	CA	ARG	659	-41.991	36.990	51.252	1.00102.85	C
ATOM	5235	CB	ARG	659	-41.091	38.214	51.015	1.00102.85	C
ATOM	5236	CG	ARG	659	-40.396	38.704	52.283	1.00102.85	C
ATOM	5237	CD	ARG	659	-39.630	40.014	52.097	1.00102.85	C
ATOM	5238	NE	ARG	659	-39.196	40.449	53.453	1.00102.85	N
ATOM	5239	CZ	ARG	659	-40.081	41.111	54.254	1.00102.85	C
ATOM	5240	NH1	ARG	659	-41.335	41.390	53.795	1.00102.85	N
ATOM	5241	NH2	ARG	659	-39.722	41.481	55.517	1.00102.85	N
ATOM	5242	C	ARG	659	-42.796	36.801	50.001	1.00102.85	C
ATOM	5243	O	ARG	659	-43.593	37.672	49.660	1.00102.85	O
ATOM	5244	N	MET	660	-42.536	35.732	49.221	1.00108.33	N
ATOM	5245	CA	MET	660	-43.177	35.632	47.938	1.00108.33	C
ATOM	5246	CB	MET	660	-42.157	35.475	46.800	1.00108.33	C
ATOM	5247	CG	MET	660	-41.154	36.622	46.712	1.00108.33	C
ATOM	5248	SD	MET	660	-39.907	36.419	45.405	1.00108.33	S
ATOM	5249	CE	MET	660	-38.933	35.169	46.291	1.00108.33	C
ATOM	5250	C	MET	660	-44.063	34.428	47.834	1.00108.33	C
ATOM	5251	O	MET	660	-43.925	33.461	48.580	1.00108.33	O
ATOM	5252	N	ALA	661	-45.050	34.513	46.911	1.00 76.85	N
ATOM	5253	CA	ALA	661	-45.869	33.401	46.517	1.00 76.85	C
ATOM	5254	CB	ALA	661	-47.361	33.569	46.854	1.00 76.85	C
ATOM	5255	C	ALA	661	-45.738	33.373	45.025	1.00 76.85	C
ATOM	5256	O	ALA	661	-46.238	34.264	44.337	1.00 76.85	O
ATOM	5257	N	VAL	662	-45.067	32.336	44.478	1.00155.91	N
ATOM	5258	CA	VAL	662	-44.838	32.310	43.059	1.00155.91	C
ATOM	5259	CB	VAL	662	-43.392	32.396	42.681	1.00155.91	C
ATOM	5260	CG1	VAL	662	-42.925	33.841	42.816	1.00155.91	C
ATOM	5261	CG2	VAL	662	-42.614	31.478	43.631	1.00155.91	C
ATOM	5262	C	VAL	662	-45.361	31.056	42.456	1.00155.91	C
ATOM	5263	O	VAL	662	-45.031	29.949	42.880	1.00155.91	O
ATOM	5264	N	SER	663	-46.196	31.232	41.417	1.00 94.94	N
ATOM	5265	CA	SER	663	-46.755	30.155	40.661	1.00 94.94	C
ATOM	5266	CB	SER	663	-48.286	30.083	40.788	1.00 94.94	C
ATOM	5267	OG	SER	663	-48.820	29.190	39.823	1.00 94.94	O
ATOM	5268	C	SER	663	-46.481	30.462	39.230	1.00 94.94	C
ATOM	5269	O	SER	663	-47.218	31.219	38.599	1.00 94.94	O
ATOM	5270	N	GLY	664	-45.431	29.846	38.666	1.00 60.25	N
ATOM	5271	CA	GLY	664	-45.125	30.090	37.289	1.00 60.25	C
ATOM	5272	C	GLY	664	-44.829	31.545	37.137	1.00 60.25	C
ATOM	5273	O	GLY	664	-43.954	32.095	37.803	1.00 60.25	O
ATOM	5274	N	ASP	665	-45.538	32.173	36.183	1.00153.14	N
ATOM	5275	CA	ASP	665	-45.447	33.559	35.836	1.00153.14	C
ATOM	5276	CB	ASP	665	-46.162	33.869	34.515	1.00153.14	C
ATOM	5277	CG	ASP	665	-45.754	35.272	34.130	1.00153.14	C
ATOM	5278	OD1	ASP	665	-44.740	35.748	34.705	1.00153.14	O
ATOM	5279	OD2	ASP	665	-46.434	35.885	33.265	1.00153.14	O
ATOM	5280	C	ASP	665	-46.073	34.427	36.898	1.00153.14	C
ATOM	5281	O	ASP	665	-45.721	35.599	37.033	1.00153.14	O
ATOM	5282	N	ASP	666	-47.076	33.904	37.633	1.00 85.88	N
ATOM	5283	CA	ASP	666	-47.768	34.696	38.622	1.00 85.88	C
ATOM	5284	CB	ASP	666	-49.094	34.079	39.100	1.00 85.88	C

ATOM	5285	CG	ASP	666	-50.151	34.250	38.021	1.00	85.88	C
ATOM	5286	OD1	ASP	666	-49.953	35.111	37.122	1.00	85.88	O
ATOM	5287	OD2	ASP	666	-51.178	33.526	38.087	1.00	85.88	O
ATOM	5288	C	ASP	666	-46.922	34.861	39.849	1.00	85.88	C
ATOM	5289	O	ASP	666	-46.302	33.906	40.310	1.00	85.88	O
ATOM	5290	N	CYS	667	-46.905	36.084	40.432	1.00126.23		N
ATOM	5291	CA	CYS	667	-46.110	36.333	41.607	1.00126.23		C
ATOM	5292	CB	CYS	667	-44.778	37.047	41.353	1.00126.23		C
ATOM	5293	SG	CYS	667	-43.470	35.993	40.712	1.00126.23		S
ATOM	5294	C	CYS	667	-46.772	37.321	42.512	1.00126.23		C
ATOM	5295	O	CYS	667	-47.483	38.221	42.069	1.00126.23		O
ATOM	5296	N	VAL	668	-46.514	37.164	43.827	1.00	67.18	N
ATOM	5297	CA	VAL	668	-46.898	38.123	44.824	1.00	67.18	C
ATOM	5298	CB	VAL	668	-48.006	37.658	45.729	1.00	67.18	C
ATOM	5299	CG1	VAL	668	-48.223	38.711	46.830	1.00	67.18	C
ATOM	5300	CG2	VAL	668	-49.261	37.398	44.877	1.00	67.18	C
ATOM	5301	C	VAL	668	-45.669	38.320	45.667	1.00	67.18	C
ATOM	5302	O	VAL	668	-45.063	37.347	46.116	1.00	67.18	O
ATOM	5303	N	VAL	669	-45.251	39.584	45.897	1.00	62.85	N
ATOM	5304	CA	VAL	669	-44.054	39.816	46.663	1.00	62.85	C
ATOM	5305	CB	VAL	669	-42.914	40.301	45.811	1.00	62.85	C
ATOM	5306	CG1	VAL	669	-41.698	40.584	46.707	1.00	62.85	C
ATOM	5307	CG2	VAL	669	-42.654	39.267	44.704	1.00	62.85	C
ATOM	5308	C	VAL	669	-44.311	40.898	47.671	1.00	62.85	C
ATOM	5309	O	VAL	669	-44.917	41.918	47.351	1.00	62.85	O
ATOM	5310	N	LYS	670	-43.852	40.693	48.929	1.00167.93		N
ATOM	5311	CA	LYS	670	-43.961	41.717	49.936	1.00167.93		C
ATOM	5312	CB	LYS	670	-44.622	41.265	51.243	1.00167.93		C
ATOM	5313	CG	LYS	670	-46.125	41.047	51.162	1.00167.93		C
ATOM	5314	CD	LYS	670	-46.692	40.387	52.418	1.00167.93		C
ATOM	5315	CE	LYS	670	-46.807	41.345	53.606	1.00167.93		C
ATOM	5316	NZ	LYS	670	-45.476	41.889	53.949	1.00167.93		N
ATOM	5317	C	LYS	670	-42.563	42.080	50.332	1.00167.93		C
ATOM	5318	O	LYS	670	-41.955	41.413	51.166	1.00167.93		O
ATOM	5319	N	PRO	671	-42.060	43.151	49.789	1.00	93.93	N
ATOM	5320	CA	PRO	671	-40.714	43.600	50.042	1.00	93.93	C
ATOM	5321	CB	PRO	671	-42.603	43.711	48.564	1.00	93.93	C
ATOM	5322	CD	PRO	671	-40.365	44.554	48.898	1.00	93.93	C
ATOM	5323	CG	PRO	671	-41.722	44.939	48.287	1.00	93.93	C
ATOM	5324	C	PRO	671	-40.582	44.233	51.389	1.00	93.93	C
ATOM	5325	O	PRO	671	-41.590	44.438	52.064	1.00	93.93	O
ATOM	5326	N	ILE	672	-39.330	44.519	51.804	1.00120.39		N
ATOM	5327	CA	ILE	672	-39.058	45.150	53.061	1.00120.39		C
ATOM	5328	CB	ILE	672	-37.587	45.207	53.395	1.00120.39		C
ATOM	5329	CG1	ILE	672	-36.780	45.983	52.340	1.00120.39		C
ATOM	5330	CG2	ILE	672	-37.102	43.757	53.583	1.00120.39		C
ATOM	5331	CD1	ILE	672	-36.727	45.287	50.981	1.00120.39		C
ATOM	5332	C	ILE	672	-39.654	46.528	53.065	1.00120.39		C
ATOM	5333	O	ILE	672	-40.170	46.973	54.088	1.00120.39		O
ATOM	5334	N	ASP	673	-39.564	47.260	51.935	1.00	97.31	N
ATOM	5335	CA	ASP	673	-40.158	48.567	51.863	1.00	97.31	C
ATOM	5336	CB	ASP	673	-39.213	49.711	52.272	1.00	97.31	C
ATOM	5337	CG	ASP	673	-37.995	49.736	51.369	1.00	97.31	C
ATOM	5338	OD1	ASP	673	-37.952	48.972	50.367	1.00	97.31	O
ATOM	5339	OD2	ASP	673	-37.073	50.531	51.689	1.00	97.31	O
ATOM	5340	C	ASP	673	-40.686	48.800	50.471	1.00	97.31	C
ATOM	5341	O	ASP	673	-40.715	47.892	49.643	1.00	97.31	O
ATOM	5342	N	ASP	674	-41.181	50.030	50.218	1.00105.66		N
ATOM	5343	CA	ASP	674	-41.799	50.491	48.998	1.00105.66		C
ATOM	5344	CB	ASP	674	-42.811	51.621	49.225	1.00105.66		C
ATOM	5345	CG	ASP	674	-44.037	50.927	49.808	1.00105.66		C
ATOM	5346	OD1	ASP	674	-44.415	49.855	49.263	1.00105.66		O
ATOM	5347	OD2	ASP	674	-44.599	51.442	50.812	1.00105.66		O
ATOM	5348	C	ASP	674	-40.860	50.841	47.871	1.00105.66		C
ATOM	5349	O	ASP	674	-41.315	51.129	46.766	1.00105.66		O
ATOM	5350	N	ARG	675	-39.542	50.899	48.108	1.00176.93		N

ATOM	5351	CA	ARG	675	-38.611	51.269	47.073	1.00176.93	C
ATOM	5352	CB	ARG	675	-37.193	51.536	47.613	1.00176.93	C
ATOM	5353	CG	ARG	675	-36.603	50.432	48.478	1.00176.93	C
ATOM	5354	CD	ARG	675	-35.481	50.944	49.387	1.00176.93	C
ATOM	5355	NE	ARG	675	-34.999	49.791	50.195	1.00176.93	N
ATOM	5356	CZ	ARG	675	-34.147	50.000	51.242	1.00176.93	C
ATOM	5357	NH1	ARG	675	-33.672	51.254	51.498	1.00176.93	N
ATOM	5358	NH2	ARG	675	-33.782	48.953	52.037	1.00176.93	N
ATOM	5359	C	ARG	675	-38.660	50.269	45.950	1.00176.93	C
ATOM	5360	O	ARG	675	-38.212	50.534	44.836	1.00176.93	O
ATOM	5361	N	PHE	676	-39.223	49.084	46.231	1.00 85.24	N
ATOM	5362	CA	PHE	676	-39.400	47.991	45.314	1.00 85.24	C
ATOM	5363	CB	PHE	676	-40.155	46.842	46.011	1.00 85.24	C
ATOM	5364	CG	PHE	676	-40.234	45.633	45.146	1.00 85.24	C
ATOM	5365	CD1	PHE	676	-39.170	44.762	45.072	1.00 85.24	C
ATOM	5366	CD2	PHE	676	-41.377	45.354	44.435	1.00 85.24	C
ATOM	5367	CE1	PHE	676	-39.239	43.636	44.287	1.00 85.24	C
ATOM	5368	CE2	PHE	676	-41.451	44.229	43.648	1.00 85.24	C
ATOM	5369	CZ	PHE	676	-40.381	43.370	43.572	1.00 85.24	C
ATOM	5370	C	PHE	676	-40.224	48.459	44.139	1.00 85.24	C
ATOM	5371	O	PHE	676	-40.025	48.011	43.010	1.00 85.24	O
ATOM	5372	N	ALA	677	-41.188	49.367	44.368	1.00 50.82	N
ATOM	5373	CA	ALA	677	-42.068	49.813	43.320	1.00 50.82	C
ATOM	5374	CB	ALA	677	-43.098	50.845	43.813	1.00 50.82	C
ATOM	5375	C	ALA	677	-41.289	50.449	42.205	1.00 50.82	C
ATOM	5376	O	ALA	677	-41.660	50.314	41.037	1.00 50.82	O
ATOM	5377	N	HIS	678	-40.250	51.237	42.544	1.00136.73	N
ATOM	5378	CA	HIS	678	-39.407	51.899	41.585	1.00136.73	C
ATOM	5379	ND1	HIS	678	-37.772	53.127	44.439	1.00136.73	N
ATOM	5380	CG	HIS	678	-37.635	52.995	43.076	1.00136.73	C
ATOM	5381	CB	HIS	678	-38.746	53.195	42.093	1.00136.73	C
ATOM	5382	NE2	HIS	678	-35.643	52.608	44.059	1.00136.73	N
ATOM	5383	CD2	HIS	678	-36.330	52.678	42.861	1.00136.73	C
ATOM	5384	CE1	HIS	678	-36.550	52.885	44.977	1.00136.73	C
ATOM	5385	C	HIS	678	-38.331	51.013	41.012	1.00136.73	C
ATOM	5386	O	HIS	678	-37.741	51.370	39.997	1.00136.73	O
ATOM	5387	N	ALA	679	-37.973	49.880	41.660	1.00 85.49	N
ATOM	5388	CA	ALA	679	-36.842	49.119	41.174	1.00 85.49	C
ATOM	5389	CB	ALA	679	-36.346	48.077	42.192	1.00 85.49	C
ATOM	5390	C	ALA	679	-37.205	48.380	39.916	1.00 85.49	C
ATOM	5391	O	ALA	679	-37.576	47.210	39.935	1.00 85.49	O
ATOM	5392	N	LEU	680	-37.193	49.115	38.793	1.00151.84	N
ATOM	5393	CA	LEU	680	-37.486	48.685	37.455	1.00151.84	C
ATOM	5394	CB	LEU	680	-38.400	49.696	36.747	1.00151.84	C
ATOM	5395	CG	LEU	680	-39.721	49.866	37.534	1.00151.84	C
ATOM	5396	CD1	LEU	680	-40.708	50.792	36.810	1.00151.84	C
ATOM	5397	CD2	LEU	680	-40.334	48.504	37.909	1.00151.84	C
ATOM	5398	C	LEU	680	-36.323	48.308	36.576	1.00151.84	C
ATOM	5399	O	LEU	680	-36.518	47.626	35.573	1.00151.84	O
ATOM	5400	N	ARG	681	-35.104	48.809	36.867	1.00111.43	N
ATOM	5401	CA	ARG	681	-34.005	48.705	35.939	1.00111.43	C
ATOM	5402	CB	ARG	681	-32.736	49.405	36.456	1.00111.43	C
ATOM	5403	CG	ARG	681	-32.860	50.931	36.460	1.00111.43	C
ATOM	5404	CD	ARG	681	-32.576	51.551	35.091	1.00111.43	C
ATOM	5405	NE	ARG	681	-32.922	52.999	35.155	1.00111.43	N
ATOM	5406	CZ	ARG	681	-33.176	53.674	33.996	1.00111.43	C
ATOM	5407	NH1	ARG	681	-33.109	53.016	32.801	1.00111.43	N
ATOM	5408	NH2	ARG	681	-33.501	54.999	34.028	1.00111.43	N
ATOM	5409	C	ARG	681	-33.646	47.289	35.590	1.00111.43	C
ATOM	5410	O	ARG	681	-33.513	46.962	34.412	1.00111.43	O
ATOM	5411	N	PHE	682	-33.460	46.412	36.591	1.00 88.85	N
ATOM	5412	CA	PHE	682	-33.102	45.041	36.339	1.00 88.85	C
ATOM	5413	CB	PHE	682	-32.784	44.256	37.625	1.00 88.85	C
ATOM	5414	CG	PHE	682	-31.400	44.547	38.096	1.00 88.85	C
ATOM	5415	CD1	PHE	682	-31.053	45.770	38.619	1.00 88.85	C
ATOM	5416	CD2	PHE	682	-30.452	43.551	38.044	1.00 88.85	C

ATOM	5417	CE1	PHE	682	-29.768	46.001	39.055	1.00	88.85	C
ATOM	5418	CE2	PHE	682	-29.169	43.773	38.479	1.00	88.85	C
ATOM	5419	CZ	PHE	682	-28.824	45.003	38.987	1.00	88.85	C
ATOM	5420	C	PHE	682	-34.236	44.316	35.690	1.00	88.85	C
ATOM	5421	O	PHE	682	-34.046	43.535	34.762	1.00	88.85	O
ATOM	5422	N	LEU	683	-35.464	44.566	36.168	1.00	64.54	N
ATOM	5423	CA	LEU	683	-36.607	43.838	35.706	1.00	64.54	C
ATOM	5424	CB	LEU	683	-37.904	44.320	36.381	1.00	64.54	C
ATOM	5425	CG	LEU	683	-39.164	43.527	35.984	1.00	64.54	C
ATOM	5426	CD1	LEU	683	-39.094	42.078	36.494	1.00	64.54	C
ATOM	5427	CD2	LEU	683	-40.443	44.250	36.436	1.00	64.54	C
ATOM	5428	C	LEU	683	-36.760	44.032	34.225	1.00	64.54	C
ATOM	5429	O	LEU	683	-37.002	43.073	33.495	1.00	64.54	O
ATOM	5430	N	ASN	684	-36.628	45.283	33.744	1.00168.27		N
ATOM	5431	CA	ASN	684	-36.783	45.594	32.348	1.00168.27		C
ATOM	5432	CB	ASN	684	-36.784	47.109	32.059	1.00168.27		C
ATOM	5433	CG	ASN	684	-38.038	47.735	32.656	1.00168.27		C
ATOM	5434	OD1	ASN	684	-37.962	48.720	33.386	1.00168.27		O
ATOM	5435	ND2	ASN	684	-39.227	47.162	32.336	1.00168.27		N
ATOM	5436	C	ASN	684	-35.649	45.010	31.555	1.00168.27		C
ATOM	5437	O	ASN	684	-35.850	44.499	30.455	1.00168.27		O
ATOM	5438	N	ASP	685	-34.423	45.078	32.105	1.00	58.45	N
ATOM	5439	CA	ASP	685	-33.219	44.655	31.439	1.00	58.45	C
ATOM	5440	CB	ASP	685	-31.964	44.935	32.285	1.00	58.45	C
ATOM	5441	CG	ASP	685	-30.723	44.722	31.432	1.00	58.45	C
ATOM	5442	OD1	ASP	685	-30.871	44.416	30.219	1.00	58.45	O
ATOM	5443	OD2	ASP	685	-29.601	44.861	31.989	1.00	58.45	O
ATOM	5444	C	ASP	685	-33.268	43.179	31.175	1.00	58.45	C
ATOM	5445	O	ASP	685	-32.743	42.696	30.173	1.00	58.45	O
ATOM	5446	N	MET	686	-33.878	42.426	32.106	1.00	84.18	N
ATOM	5447	CA	MET	686	-34.027	41.001	32.049	1.00	84.18	C
ATOM	5448	CB	MET	686	-34.419	40.381	33.400	1.00	84.18	C
ATOM	5449	CG	MET	686	-33.279	40.515	34.417	1.00	84.18	C
ATOM	5450	SD	MET	686	-33.559	39.719	36.026	1.00	84.18	S
ATOM	5451	CE	MET	686	-34.785	40.924	36.611	1.00	84.18	C
ATOM	5452	C	MET	686	-35.012	40.640	30.975	1.00	84.18	C
ATOM	5453	O	MET	686	-35.089	39.486	30.556	1.00	84.18	O
ATOM	5454	N	GLY	687	-35.857	41.606	30.565	1.00129.32		N
ATOM	5455	CA	GLY	687	-36.792	41.371	29.502	1.00129.32		C
ATOM	5456	C	GLY	687	-38.120	41.019	30.083	1.00129.32		C
ATOM	5457	O	GLY	687	-39.060	40.707	29.352	1.00129.32		O
ATOM	5458	N	LYS	688	-38.237	41.062	31.421	1.00292.39		N
ATOM	5459	CA	LYS	688	-39.486	40.710	32.026	1.00292.39		C
ATOM	5460	CB	LYS	688	-39.292	40.122	33.433	1.00292.39		C
ATOM	5461	CG	LYS	688	-38.331	38.931	33.451	1.00292.39		C
ATOM	5462	CD	LYS	688	-38.777	37.767	32.565	1.00292.39		C
ATOM	5463	CE	LYS	688	-37.754	36.631	32.486	1.00292.39		C
ATOM	5464	NZ	LYS	688	-36.626	37.021	31.611	1.00292.39		N
ATOM	5465	C	LYS	688	-40.303	41.959	32.172	1.00292.39		C
ATOM	5466	O	LYS	688	-40.572	42.406	33.286	1.00292.39		O
ATOM	5467	N	VAL	689	-40.774	42.521	31.040	1.00232.49		N
ATOM	5468	CA	VAL	689	-41.520	43.749	31.086	1.00232.49		C
ATOM	5469	CB	VAL	689	-41.631	44.429	29.748	1.00232.49		C
ATOM	5470	CG1	VAL	689	-42.467	45.709	29.903	1.00232.49		C
ATOM	5471	CG2	VAL	689	-40.211	44.694	29.217	1.00232.49		C
ATOM	5472	C	VAL	689	-42.900	43.463	31.604	1.00232.49		C
ATOM	5473	O	VAL	689	-43.522	42.458	31.261	1.00232.49		O
ATOM	5474	N	ARG	690	-43.407	44.373	32.459	1.00370.62		N
ATOM	5475	CA	ARG	690	-44.680	44.247	33.109	1.00370.62		C
ATOM	5476	CB	ARG	690	-44.792	45.199	34.311	1.00370.62		C
ATOM	5477	CG	ARG	690	-43.875	44.764	35.458	1.00370.62		C
ATOM	5478	CD	ARG	690	-43.224	45.916	36.224	1.00370.62		C
ATOM	5479	NE	ARG	690	-44.288	46.839	36.697	1.00370.62		N
ATOM	5480	CZ	ARG	690	-44.002	48.166	36.826	1.00370.62		C
ATOM	5481	NH1	ARG	690	-42.789	48.641	36.420	1.00370.62		N
ATOM	5482	NH2	ARG	690	-44.920	49.018	37.365	1.00370.62		N

ATOM	5483	C	ARG	690	-45.776	44.524	32.130	1.00370.62	C
ATOM	5484	O	ARG	690	-45.606	45.278	31.174	1.00370.62	O
ATOM	5485	N	LYS	691	-46.937	43.878	32.344	1.00181.83	N
ATOM	5486	CA	LYS	691	-48.044	44.017	31.444	1.00181.83	C
ATOM	5487	CB	LYS	691	-48.978	42.794	31.447	1.00181.83	C
ATOM	5488	CG	LYS	691	-50.114	42.882	30.426	1.00181.83	C
ATOM	5489	CD	LYS	691	-50.888	41.575	30.260	1.00181.83	C
ATOM	5490	CE	LYS	691	-52.024	41.668	29.239	1.00181.83	C
ATOM	5491	NZ	LYS	691	-52.813	40.418	29.242	1.00181.83	N
ATOM	5492	C	LYS	691	-48.879	45.204	31.815	1.00181.83	C
ATOM	5493	O	LYS	691	-49.038	45.542	32.986	1.00181.83	O
ATOM	5494	N	ASP	692	-49.440	45.855	30.778	1.00107.37	N
ATOM	5495	CA	ASP	692	-50.368	46.944	30.887	1.00107.37	C
ATOM	5496	CB	ASP	692	-51.722	46.497	31.459	1.00107.37	C
ATOM	5497	CG	ASP	692	-52.726	47.599	31.181	1.00107.37	C
ATOM	5498	OD1	ASP	692	-52.310	48.652	30.629	1.00107.37	O
ATOM	5499	OD2	ASP	692	-53.925	47.399	31.511	1.00107.37	O
ATOM	5500	C	ASP	692	-49.851	48.075	31.723	1.00107.37	C
ATOM	5501	O	ASP	692	-50.579	48.615	32.555	1.00107.37	O
ATOM	5502	N	THR	693	-48.579	48.468	31.533	1.00491.96	N
ATOM	5503	CA	THR	693	-48.083	49.602	32.258	1.00491.96	C
ATOM	5504	CB	THR	693	-47.555	49.253	33.620	1.00491.96	C
ATOM	5505	OG1	THR	693	-48.571	48.642	34.401	1.00491.96	O
ATOM	5506	CG2	THR	693	-47.062	50.541	34.303	1.00491.96	C
ATOM	5507	C	THR	693	-46.928	50.147	31.484	1.00491.96	C
ATOM	5508	O	THR	693	-46.220	49.401	30.809	1.00491.96	O
ATOM	5509	N	GLN	694	-46.691	51.470	31.581	1.00451.85	N
ATOM	5510	CA	GLN	694	-45.567	52.040	30.901	1.00451.85	C
ATOM	5511	CB	GLN	694	-45.486	53.569	31.062	1.00451.85	C
ATOM	5512	CG	GLN	694	-44.296	54.213	30.350	1.00451.85	C
ATOM	5513	CD	GLN	694	-44.423	53.895	28.869	1.00451.85	C
ATOM	5514	OE1	GLN	694	-44.316	52.739	28.462	1.00451.85	O
ATOM	5515	NE2	GLN	694	-44.658	54.945	28.038	1.00451.85	N
ATOM	5516	C	GLN	694	-44.378	51.412	31.556	1.00451.85	C
ATOM	5517	O	GLN	694	-44.408	51.113	32.748	1.00451.85	O
ATOM	5518	N	GLU	695	-43.288	51.193	30.797	1.00219.00	N
ATOM	5519	CA	GLU	695	-42.213	50.425	31.352	1.00219.00	C
ATOM	5520	CB	GLU	695	-41.092	50.079	30.356	1.00219.00	C
ATOM	5521	CG	GLU	695	-40.323	51.266	29.786	1.00219.00	C
ATOM	5522	CD	GLU	695	-39.280	50.693	28.839	1.00219.00	C
ATOM	5523	OE1	GLU	695	-38.585	49.723	29.244	1.00219.00	O
ATOM	5524	OE2	GLU	695	-39.169	51.208	27.695	1.00219.00	O
ATOM	5525	C	GLU	695	-41.610	51.087	32.561	1.00219.00	C
ATOM	5526	O	GLU	695	-41.199	50.407	33.499	1.00219.00	O
ATOM	5527	N	TRP	696	-41.472	52.423	32.541	1.00133.44	N
ATOM	5528	CA	TRP	696	-40.865	53.175	33.607	1.00133.44	C
ATOM	5529	CB	TRP	696	-40.159	54.426	33.083	1.00133.44	C
ATOM	5530	CG	TRP	696	-39.083	53.976	32.122	1.00133.44	C
ATOM	5531	CD2	TRP	696	-37.999	53.103	32.484	1.00133.44	C
ATOM	5532	CD1	TRP	696	-38.975	54.190	30.780	1.00133.44	C
ATOM	5533	NE1	TRP	696	-37.890	53.508	30.282	1.00133.44	N
ATOM	5534	CE2	TRP	696	-37.281	52.833	31.319	1.00133.44	C
ATOM	5535	CE3	TRP	696	-37.639	52.558	33.683	1.00133.44	C
ATOM	5536	CZ2	TRP	696	-36.189	52.012	31.337	1.00133.44	C
ATOM	5537	CZ3	TRP	696	-36.529	51.742	33.701	1.00133.44	C
ATOM	5538	CH2	TRP	696	-35.817	51.474	32.549	1.00133.44	C
ATOM	5539	C	TRP	696	-41.750	53.473	34.791	1.00133.44	C
ATOM	5540	O	TRP	696	-41.241	53.796	35.862	1.00133.44	O
ATOM	5541	N	LYS	697	-43.092	53.454	34.648	1.00145.68	N
ATOM	5542	CA	LYS	697	-43.930	53.831	35.762	1.00145.68	C
ATOM	5543	CB	LYS	697	-45.420	53.968	35.417	1.00145.68	C
ATOM	5544	CG	LYS	697	-45.725	55.267	34.679	1.00145.68	C
ATOM	5545	CD	LYS	697	-45.324	56.503	35.486	1.00145.68	C
ATOM	5546	CE	LYS	697	-45.393	57.808	34.694	1.00145.68	C
ATOM	5547	NZ	LYS	697	-44.989	58.943	35.554	1.00145.68	N
ATOM	5548	C	LYS	697	-43.819	52.850	36.891	1.00145.68	C

ATOM	5549	O	LYS	697	-43.748	51.638	36.698	1.00145.68	O
ATOM	5550	N	PRO	698	-43.828	53.390	38.087	1.00 74.79	N
ATOM	5551	CA	PRO	698	-43.713	52.578	39.268	1.00 74.79	C
ATOM	5552	CD	PRO	698	-43.259	54.714	38.291	1.00 74.79	C
ATOM	5553	CB	PRO	698	-43.438	53.545	40.417	1.00 74.79	C
ATOM	5554	CG	PRO	698	-42.710	54.714	39.729	1.00 74.79	C
ATOM	5555	C	PRO	698	-44.910	51.708	39.468	1.00 74.79	C
ATOM	5556	O	PRO	698	-46.015	52.098	39.092	1.00 74.79	O
ATOM	5557	N	SER	699	-44.698	50.514	40.056	1.00 98.54	N
ATOM	5558	CA	SER	699	-45.757	49.574	40.258	1.00 98.54	C
ATOM	5559	CB	SER	699	-45.251	48.121	40.392	1.00 98.54	C
ATOM	5560	OG	SER	699	-44.107	48.059	41.230	1.00 98.54	O
ATOM	5561	C	SER	699	-46.572	49.972	41.444	1.00 98.54	C
ATOM	5562	O	SER	699	-46.106	50.676	42.338	1.00 98.54	O
ATOM	5563	N	THR	700	-47.847	49.544	41.467	1.00116.36	N
ATOM	5564	CA	THR	700	-48.657	49.919	42.582	1.00116.36	C
ATOM	5565	CB	THR	700	-49.949	50.568	42.202	1.00116.36	C
ATOM	5566	OG1	THR	700	-50.493	51.238	43.326	1.00116.36	O
ATOM	5567	CG2	THR	700	-50.917	49.482	41.709	1.00116.36	C
ATOM	5568	C	THR	700	-48.956	48.674	43.354	1.00116.36	C
ATOM	5569	O	THR	700	-49.166	47.608	42.777	1.00116.36	O
ATOM	5570	N	GLY	701	-48.975	48.791	44.696	1.00 44.63	N
ATOM	5571	CA	GLY	701	-49.164	47.642	45.533	1.00 44.63	C
ATOM	5572	C	GLY	701	-50.395	47.828	46.366	1.00 44.63	C
ATOM	5573	O	GLY	701	-51.096	48.833	46.248	1.00 44.63	O
ATOM	5574	N	TRP	702	-50.685	46.832	47.234	1.00 85.25	N
ATOM	5575	CA	TRP	702	-51.860	46.856	48.062	1.00 85.25	C
ATOM	5576	CB	TRP	702	-52.838	45.710	47.757	1.00 85.25	C
ATOM	5577	CG	TRP	702	-53.532	45.801	46.422	1.00 85.25	C
ATOM	5578	CD2	TRP	702	-53.012	45.268	45.195	1.00 85.25	C
ATOM	5579	CD1	TRP	702	-54.737	46.363	46.121	1.00 85.25	C
ATOM	5580	NE1	TRP	702	-55.004	46.212	44.783	1.00 85.25	N
ATOM	5581	CE2	TRP	702	-53.950	45.541	44.200	1.00 85.25	C
ATOM	5582	CE3	TRP	702	-51.851	44.606	44.918	1.00 85.25	C
ATOM	5583	CZ2	TRP	702	-53.740	45.154	42.908	1.00 85.25	C
ATOM	5584	CZ3	TRP	702	-51.642	44.218	43.614	1.00 85.25	C
ATOM	5585	CH2	TRP	702	-52.569	44.486	42.629	1.00 85.25	C
ATOM	5586	C	TRP	702	-51.476	46.659	49.499	1.00 85.25	C
ATOM	5587	O	TRP	702	-50.565	45.896	49.816	1.00 85.25	O
ATOM	5588	N	SER	703	-52.144	47.409	50.401	1.00 48.40	N
ATOM	5589	CA	SER	703	-51.990	47.266	51.824	1.00 48.40	C
ATOM	5590	CB	SER	703	-52.461	48.504	52.607	1.00 48.40	C
ATOM	5591	OG	SER	703	-51.627	49.614	52.318	1.00 48.40	O
ATOM	5592	C	SER	703	-52.822	46.110	52.302	1.00 48.40	C
ATOM	5593	O	SER	703	-52.492	45.458	53.292	1.00 48.40	O
ATOM	5594	N	ASN	704	-53.944	45.835	51.609	1.00 59.88	N
ATOM	5595	CA	ASN	704	-54.848	44.806	52.042	1.00 59.88	C
ATOM	5596	CB	ASN	704	-56.323	45.218	51.865	1.00 59.88	C
ATOM	5597	CG	ASN	704	-57.224	44.229	52.592	1.00 59.88	C
ATOM	5598	OD1	ASN	704	-56.880	43.060	52.756	1.00 59.88	O
ATOM	5599	ND2	ASN	704	-58.416	44.709	53.036	1.00 59.88	N
ATOM	5600	C	ASN	704	-54.602	43.590	51.203	1.00 59.88	C
ATOM	5601	O	ASN	704	-54.710	43.631	49.980	1.00 59.88	O
ATOM	5602	N	TRP	705	-54.289	42.463	51.865	1.00 79.75	N
ATOM	5603	CA	TRP	705	-53.972	41.215	51.228	1.00 79.75	C
ATOM	5604	CB	TRP	705	-53.511	40.140	52.229	1.00 79.75	C
ATOM	5605	CG	TRP	705	-54.520	39.772	53.290	1.00 79.75	C
ATOM	5606	CD2	TRP	705	-55.461	38.695	53.158	1.00 79.75	C
ATOM	5607	CD1	TRP	705	-54.728	40.318	54.523	1.00 79.75	C
ATOM	5608	NE1	TRP	705	-55.740	39.648	55.169	1.00 79.75	N
ATOM	5609	CE2	TRP	705	-56.198	38.646	54.340	1.00 79.75	C
ATOM	5610	CE3	TRP	705	-55.686	37.816	52.138	1.00 79.75	C
ATOM	5611	CZ2	TRP	705	-57.177	37.711	54.517	1.00 79.75	C
ATOM	5612	CZ3	TRP	705	-56.677	36.878	52.319	1.00 79.75	C
ATOM	5613	CH2	TRP	705	-57.409	36.826	53.487	1.00 79.75	C
ATOM	5614	C	TRP	705	-55.174	40.717	50.494	1.00 79.75	C

ATOM	5615	O	TRP	705	-55.061	39.978	49.518	1.00	79.75	O
ATOM	5616	N	GLU	706	-56.374	41.084	50.971	1.00	75.71	N
ATOM	5617	CA	GLU	706	-57.588	40.634	50.359	1.00	75.71	C
ATOM	5618	CB	GLU	706	-58.843	41.068	51.139	1.00	75.71	C
ATOM	5619	CG	GLU	706	-58.990	40.331	52.474	1.00	75.71	C
ATOM	5620	CD	GLU	706	-60.247	40.831	53.173	1.00	75.71	C
ATOM	5621	OE1	GLU	706	-60.805	41.865	52.719	1.00	75.71	O
ATOM	5622	OE2	GLU	706	-60.663	40.188	54.173	1.00	75.71	O
ATOM	5623	C	GLU	706	-57.679	41.170	48.956	1.00	75.71	C
ATOM	5624	O	GLU	706	-58.324	40.579	48.093	1.00	75.71	O
ATOM	5625	N	GLU	707	-57.088	42.349	48.719	1.00	120.77	N
ATOM	5626	CA	GLU	707	-57.083	43.057	47.465	1.00	120.77	C
ATOM	5627	CB	GLU	707	-56.653	44.522	47.658	1.00	120.77	C
ATOM	5628	CG	GLU	707	-57.572	45.315	48.595	1.00	120.77	C
ATOM	5629	CD	GLU	707	-58.629	46.047	47.779	1.00	120.77	C
ATOM	5630	OE1	GLU	707	-58.387	46.283	46.565	1.00	120.77	O
ATOM	5631	OE2	GLU	707	-59.689	46.393	48.366	1.00	120.77	O
ATOM	5632	C	GLU	707	-56.175	42.441	46.421	1.00	120.77	C
ATOM	5633	O	GLU	707	-56.378	42.679	45.231	1.00	120.77	O
ATOM	5634	N	VAL	708	-55.113	41.697	46.811	1.00	160.04	N
ATOM	5635	CA	VAL	708	-54.134	41.238	45.844	1.00	160.04	C
ATOM	5636	CB	VAL	708	-52.823	40.802	46.432	1.00	160.04	C
ATOM	5637	CG1	VAL	708	-52.036	42.032	46.880	1.00	160.04	C
ATOM	5638	CG2	VAL	708	-53.110	39.839	47.589	1.00	160.04	C
ATOM	5639	C	VAL	708	-54.608	40.114	44.970	1.00	160.04	C
ATOM	5640	O	VAL	708	-55.174	39.120	45.421	1.00	160.04	O
ATOM	5641	N	PRO	709	-54.374	40.297	43.687	1.00	104.66	N
ATOM	5642	CA	PRO	709	-54.689	39.286	42.711	1.00	104.66	C
ATOM	5643	CB	PRO	709	-54.397	41.628	43.107	1.00	104.66	C
ATOM	5644	CD	PRO	709	-54.918	40.014	41.387	1.00	104.66	C
ATOM	5645	CG	PRO	709	-54.267	41.391	41.594	1.00	104.66	C
ATOM	5646	C	PRO	709	-53.619	38.244	42.631	1.00	104.66	C
ATOM	5647	O	PRO	709	-52.439	38.590	42.632	1.00	104.66	O
ATOM	5648	N	PHE	710	-54.006	36.961	42.526	1.00	105.95	N
ATOM	5649	CA	PHE	710	-53.040	35.917	42.389	1.00	105.95	C
ATOM	5650	CB	PHE	710	-52.453	35.507	43.758	1.00	105.95	C
ATOM	5651	CG	PHE	710	-51.438	34.429	43.591	1.00	105.95	C
ATOM	5652	CD1	PHE	710	-50.253	34.677	42.937	1.00	105.95	C
ATOM	5653	CD2	PHE	710	-51.654	33.181	44.125	1.00	105.95	C
ATOM	5654	CE1	PHE	710	-49.311	33.686	42.792	1.00	105.95	C
ATOM	5655	CE2	PHE	710	-50.715	32.185	43.983	1.00	105.95	C
ATOM	5656	CZ	PHE	710	-49.543	32.435	43.313	1.00	105.95	C
ATOM	5657	C	PHE	710	-53.772	34.768	41.774	1.00	105.95	C
ATOM	5658	O	PHE	710	-54.841	34.383	42.245	1.00	105.95	O
ATOM	5659	N	CYS	711	-53.202	34.186	40.701	1.00	82.11	N
ATOM	5660	CA	CYS	711	-53.821	33.087	40.017	1.00	82.11	C
ATOM	5661	CB	CYS	711	-53.845	31.795	40.852	1.00	82.11	C
ATOM	5662	SG	CYS	711	-52.174	31.175	41.203	1.00	82.11	S
ATOM	5663	C	CYS	711	-55.235	33.430	39.627	1.00	82.11	C
ATOM	5664	O	CYS	711	-56.153	32.639	39.835	1.00	82.11	O
ATOM	5665	N	SER	712	-55.443	34.624	39.037	1.00	81.43	N
ATOM	5666	CA	SER	712	-56.719	35.042	38.510	1.00	81.43	C
ATOM	5667	CB	SER	712	-57.263	34.074	37.445	1.00	81.43	C
ATOM	5668	OG	SER	712	-56.380	34.023	36.334	1.00	81.43	O
ATOM	5669	C	SER	712	-57.766	35.176	39.574	1.00	81.43	C
ATOM	5670	O	SER	712	-58.958	35.201	39.267	1.00	81.43	O
ATOM	5671	N	HIS	713	-57.368	35.305	40.853	1.00	92.39	N
ATOM	5672	CA	HIS	713	-58.388	35.449	41.852	1.00	92.39	C
ATOM	5673	ND1	HIS	713	-58.742	32.397	40.657	1.00	92.39	N
ATOM	5674	CG	HIS	713	-59.428	33.171	41.566	1.00	92.39	C
ATOM	5675	CB	HIS	713	-58.776	34.122	42.522	1.00	92.39	C
ATOM	5676	NE2	HIS	713	-60.896	31.943	40.374	1.00	92.39	N
ATOM	5677	CD2	HIS	713	-60.745	32.880	41.380	1.00	92.39	C
ATOM	5678	CE1	HIS	713	-59.668	31.683	39.971	1.00	92.39	C
ATOM	5679	C	HIS	713	-57.911	36.365	42.933	1.00	92.39	C
ATOM	5680	O	HIS	713	-56.731	36.696	43.020	1.00	92.39	O

ATOM	5681	N	HIS	714	-58.866	36.832	43.763	1.00	92.97	N
ATOM	5682	CA	HIS	714	-58.580	37.617	44.933	1.00	92.97	C
ATOM	5683	ND1	HIS	714	-60.804	39.374	43.002	1.00	92.97	N
ATOM	5684	CG	HIS	714	-60.541	39.146	44.335	1.00	92.97	C
ATOM	5685	CB	HIS	714	-59.158	39.044	44.903	1.00	92.97	C
ATOM	5686	NE2	HIS	714	-62.772	39.238	44.022	1.00	92.97	N
ATOM	5687	CD2	HIS	714	-61.754	39.065	44.944	1.00	92.97	C
ATOM	5688	CE1	HIS	714	-62.153	39.421	42.871	1.00	92.97	C
ATOM	5689	C	HIS	714	-59.180	36.839	46.066	1.00	92.97	C
ATOM	5690	O	HIS	714	-59.998	35.957	45.827	1.00	92.97	O
ATOM	5691	N	PHE	715	-58.785	37.111	47.329	1.00	87.88	N
ATOM	5692	CA	PHE	715	-59.238	36.255	48.398	1.00	87.88	C
ATOM	5693	CB	PHE	715	-58.065	35.515	49.058	1.00	87.88	C
ATOM	5694	CG	PHE	715	-57.327	34.827	47.962	1.00	87.88	C
ATOM	5695	CD1	PHE	715	-56.380	35.512	47.235	1.00	87.88	C
ATOM	5696	CD2	PHE	715	-57.577	33.512	47.655	1.00	87.88	C
ATOM	5697	CE1	PHE	715	-55.691	34.892	46.218	1.00	87.88	C
ATOM	5698	CE2	PHE	715	-56.891	32.888	46.640	1.00	87.88	C
ATOM	5699	CZ	PHE	715	-55.946	33.577	45.920	1.00	87.88	C
ATOM	5700	C	PHE	715	-59.876	37.079	49.483	1.00	87.88	C
ATOM	5701	O	PHE	715	-59.428	38.186	49.775	1.00	87.88	O
ATOM	5702	N	ASN	716	-60.935	36.540	50.136	1.00	62.94	N
ATOM	5703	CA	ASN	716	-61.605	37.276	51.174	1.00	62.94	C
ATOM	5704	CB	ASN	716	-63.027	37.703	50.777	1.00	62.94	C
ATOM	5705	CG	ASN	716	-62.896	38.673	49.611	1.00	62.94	C
ATOM	5706	OD1	ASN	716	-62.481	38.292	48.518	1.00	62.94	O
ATOM	5707	ND2	ASN	716	-63.257	39.963	49.846	1.00	62.94	N
ATOM	5708	C	ASN	716	-61.718	36.438	52.416	1.00	62.94	C
ATOM	5709	O	ASN	716	-61.789	35.212	52.356	1.00	62.94	O
ATOM	5710	N	LYS	717	-61.725	37.105	53.593	1.00	125.78	N
ATOM	5711	CA	LYS	717	-61.878	36.422	54.850	1.00	125.78	C
ATOM	5712	CB	LYS	717	-61.067	37.044	56.000	1.00	125.78	C
ATOM	5713	CG	LYS	717	-59.569	36.755	55.948	1.00	125.78	C
ATOM	5714	CD	LYS	717	-59.230	35.273	56.106	1.00	125.78	C
ATOM	5715	CE	LYS	717	-59.381	34.753	57.537	1.00	125.78	C
ATOM	5716	NZ	LYS	717	-59.065	33.307	57.587	1.00	125.78	N
ATOM	5717	C	LYS	717	-63.318	36.553	55.241	1.00	125.78	C
ATOM	5718	O	LYS	717	-63.843	37.661	55.336	1.00	125.78	O
ATOM	5719	N	LEU	718	-63.991	35.408	55.489	1.00	76.09	N
ATOM	5720	CA	LEU	718	-65.389	35.389	55.826	1.00	76.09	C
ATOM	5721	CB	LEU	718	-66.205	34.431	54.936	1.00	76.09	C
ATOM	5722	CG	LEU	718	-66.315	34.830	53.454	1.00	76.09	C
ATOM	5723	CD1	LEU	718	-67.102	33.780	52.654	1.00	76.09	C
ATOM	5724	CD2	LEU	718	-66.918	36.234	53.307	1.00	76.09	C
ATOM	5725	C	LEU	718	-65.533	34.818	57.198	1.00	76.09	C
ATOM	5726	O	LEU	718	-64.810	33.900	57.576	1.00	76.09	O
ATOM	5727	N	TYR	719	-66.492	35.342	57.984	1.00	102.91	N
ATOM	5728	CA	TYR	719	-66.707	34.778	59.282	1.00	102.91	C
ATOM	5729	CB	TYR	719	-66.664	35.811	60.419	1.00	102.91	C
ATOM	5730	CG	TYR	719	-65.233	36.217	60.494	1.00	102.91	C
ATOM	5731	CD1	TYR	719	-64.722	37.158	59.629	1.00	102.91	C
ATOM	5732	CD2	TYR	719	-64.397	35.642	61.423	1.00	102.91	C
ATOM	5733	CE1	TYR	719	-63.398	37.523	59.695	1.00	102.91	C
ATOM	5734	CE2	TYR	719	-63.073	36.004	61.494	1.00	102.91	C
ATOM	5735	CZ	TYR	719	-62.572	36.946	60.629	1.00	102.91	C
ATOM	5736	OH	TYR	719	-61.212	37.318	60.699	1.00	102.91	O
ATOM	5737	C	TYR	719	-68.030	34.083	59.260	1.00	102.91	C
ATOM	5738	O	TYR	719	-69.050	34.656	58.878	1.00	102.91	O
ATOM	5739	N	LEU	720	-68.025	32.798	59.661	1.00	91.79	N
ATOM	5740	CA	LEU	720	-69.203	31.980	59.643	1.00	91.79	C
ATOM	5741	CB	LEU	720	-68.919	30.468	59.659	1.00	91.79	C
ATOM	5742	CG	LEU	720	-68.239	29.945	58.381	1.00	91.79	C
ATOM	5743	CD1	LEU	720	-66.841	30.554	58.195	1.00	91.79	C
ATOM	5744	CD2	LEU	720	-68.231	28.408	58.346	1.00	91.79	C
ATOM	5745	C	LEU	720	-70.056	32.294	60.831	1.00	91.79	C
ATOM	5746	O	LEU	720	-69.668	33.041	61.727	1.00	91.79	O

ATOM	5747	N	LYS	721	-71.274	31.723	60.826	1.00	43.76	N
ATOM	5748	CA	LYS	721	-72.268	31.898	61.844	1.00	43.76	C
ATOM	5749	CB	LYS	721	-73.507	31.045	61.519	1.00	43.76	C
ATOM	5750	CG	LYS	721	-74.660	31.124	62.515	1.00	43.76	C
ATOM	5751	CD	LYS	721	-75.933	30.473	61.968	1.00	43.76	C
ATOM	5752	CE	LYS	721	-77.074	30.375	62.980	1.00	43.76	C
ATOM	5753	NZ	LYS	721	-78.248	29.733	62.348	1.00	43.76	N
ATOM	5754	C	LYS	721	-71.692	31.416	63.140	1.00	43.76	C
ATOM	5755	O	LYS	721	-71.870	32.044	64.183	1.00	43.76	O
ATOM	5756	N	ASP	722	-70.977	30.279	63.089	1.00	103.30	N
ATOM	5757	CA	ASP	722	-70.366	29.660	64.231	1.00	103.30	C
ATOM	5758	CB	ASP	722	-69.991	28.175	64.003	1.00	103.30	C
ATOM	5759	CG	ASP	722	-69.100	27.993	62.783	1.00	103.30	C
ATOM	5760	OD1	ASP	722	-68.234	28.867	62.524	1.00	103.30	O
ATOM	5761	OD2	ASP	722	-69.291	26.965	62.080	1.00	103.30	O
ATOM	5762	C	ASP	722	-69.213	30.478	64.737	1.00	103.30	C
ATOM	5763	O	ASP	722	-68.764	30.272	65.864	1.00	103.30	O
ATOM	5764	N	GLY	723	-68.666	31.401	63.921	1.00	31.63	N
ATOM	5765	CA	GLY	723	-67.611	32.245	64.420	1.00	31.63	C
ATOM	5766	C	GLY	723	-66.302	31.842	63.815	1.00	31.63	C
ATOM	5767	O	GLY	723	-65.291	32.515	64.009	1.00	31.63	O
ATOM	5768	N	ARG	724	-66.287	30.728	63.064	1.00	158.96	N
ATOM	5769	CA	ARG	724	-65.088	30.258	62.433	1.00	158.96	C
ATOM	5770	CB	ARG	724	-65.234	28.794	61.981	1.00	158.96	C
ATOM	5771	CG	ARG	724	-65.441	27.850	63.171	1.00	158.96	C
ATOM	5772	CD	ARG	724	-66.399	26.689	62.889	1.00	158.96	C
ATOM	5773	NE	ARG	724	-65.636	25.577	62.271	1.00	158.96	N
ATOM	5774	CZ	ARG	724	-66.290	24.626	61.543	1.00	158.96	C
ATOM	5775	NH1	ARG	724	-67.629	24.737	61.300	1.00	158.96	N
ATOM	5776	NH2	ARG	724	-65.593	23.560	61.056	1.00	158.96	N
ATOM	5777	C	ARG	724	-64.838	31.124	61.230	1.00	158.96	C
ATOM	5778	O	ARG	724	-65.762	31.728	60.687	1.00	158.96	O
ATOM	5779	N	SER	725	-63.563	31.228	60.795	1.00	47.79	N
ATOM	5780	CA	SER	725	-63.224	32.076	59.684	1.00	47.79	C
ATOM	5781	CB	SER	725	-62.131	33.101	60.028	1.00	47.79	C
ATOM	5782	OG	SER	725	-60.954	32.428	60.448	1.00	47.79	O
ATOM	5783	C	SER	725	-62.717	31.233	58.549	1.00	47.79	C
ATOM	5784	O	SER	725	-62.045	30.225	58.746	1.00	47.79	O
ATOM	5785	N	ILE	726	-63.043	31.652	57.312	1.00	169.48	N
ATOM	5786	CA	ILE	726	-62.700	30.953	56.103	1.00	169.48	C
ATOM	5787	CB	ILE	726	-63.960	30.469	55.441	1.00	169.48	C
ATOM	5788	CG1	ILE	726	-63.740	29.527	54.251	1.00	169.48	C
ATOM	5789	CG2	ILE	726	-64.771	31.723	55.114	1.00	169.48	C
ATOM	5790	CD1	ILE	726	-63.495	28.074	54.646	1.00	169.48	C
ATOM	5791	C	ILE	726	-62.056	31.950	55.174	1.00	169.48	C
ATOM	5792	O	ILE	726	-62.393	33.132	55.207	1.00	169.48	O
ATOM	5793	N	VAL	727	-61.076	31.511	54.352	1.00	71.16	N
ATOM	5794	CA	VAL	727	-60.483	32.379	53.358	1.00	71.16	C
ATOM	5795	CB	VAL	727	-58.982	32.366	53.356	1.00	71.16	C
ATOM	5796	CG1	VAL	727	-58.486	33.268	52.213	1.00	71.16	C
ATOM	5797	CG2	VAL	727	-58.472	32.777	54.744	1.00	71.16	C
ATOM	5798	C	VAL	727	-60.892	31.822	52.026	1.00	71.16	C
ATOM	5799	O	VAL	727	-60.474	30.722	51.668	1.00	71.16	O
ATOM	5800	N	VAL	728	-61.677	32.582	51.230	1.00	69.54	N
ATOM	5801	CA	VAL	728	-62.207	32.040	50.000	1.00	69.54	C
ATOM	5802	CB	VAL	728	-63.709	32.036	49.977	1.00	69.54	C
ATOM	5803	CG1	VAL	728	-64.221	31.125	51.106	1.00	69.54	C
ATOM	5804	CG2	VAL	728	-64.202	33.490	50.093	1.00	69.54	C
ATOM	5805	C	VAL	728	-61.754	32.842	48.807	1.00	69.54	C
ATOM	5806	O	VAL	728	-61.404	34.013	48.921	1.00	69.54	O
ATOM	5807	N	PRO	729	-61.704	32.206	47.653	1.00	114.19	N
ATOM	5808	CA	PRO	729	-61.340	32.902	46.438	1.00	114.19	C
ATOM	5809	CD	PRO	729	-61.381	30.792	47.584	1.00	114.19	C
ATOM	5810	CB	PRO	729	-60.764	31.843	45.495	1.00	114.19	C
ATOM	5811	CG	PRO	729	-61.251	30.506	46.079	1.00	114.19	C
ATOM	5812	C	PRO	729	-62.498	33.653	45.828	1.00	114.19	C

ATOM	5813	O	PRO	729	-63.623	33.169	45.938	1.00114.19	O
ATOM	5814	N	CYS	730	-62.256	34.820	45.175	1.00118.48	N
ATOM	5815	CA	CYS	730	-63.293	35.543	44.461	1.00118.48	C
ATOM	5816	CB	CYS	730	-63.961	36.823	45.108	1.00118.48	C
ATOM	5817	SG	CYS	730	-65.421	37.486	44.149	1.00118.48	S
ATOM	5818	C	CYS	730	-62.698	36.074	43.198	1.00118.48	C
ATOM	5819	O	CYS	730	-61.482	36.227	43.069	1.00118.48	O
ATOM	5820	N	ARG	731	-63.577	36.339	42.212	1.00119.17	N
ATOM	5821	CA	ARG	731	-63.187	36.955	40.980	1.00119.17	C
ATOM	5822	CB	ARG	731	-62.595	35.980	39.945	1.00119.17	C
ATOM	5823	CG	ARG	731	-63.538	34.861	39.502	1.00119.17	C
ATOM	5824	CD	ARG	731	-62.848	33.832	38.603	1.00119.17	C
ATOM	5825	NE	ARG	731	-62.276	34.572	37.441	1.00119.17	N
ATOM	5826	CZ	ARG	731	-61.318	33.994	36.660	1.00119.17	C
ATOM	5827	NH1	ARG	731	-60.901	32.720	36.916	1.00119.17	N
ATOM	5828	NH2	ARG	731	-60.774	34.692	35.621	1.00119.17	N
ATOM	5829	C	ARG	731	-64.428	37.575	40.408	1.00119.17	C
ATOM	5830	O	ARG	731	-65.529	37.324	40.895	1.00119.17	O
ATOM	5831	N	HIS	732	-64.284	38.406	39.356	1.00 52.07	N
ATOM	5832	CA	HIS	732	-65.423	39.084	38.794	1.00 52.07	C
ATOM	5833	ND1	HIS	732	-64.700	42.351	38.144	1.00 52.07	N
ATOM	5834	CG	HIS	732	-64.215	41.103	37.818	1.00 52.07	C
ATOM	5835	CB	HIS	732	-65.084	39.911	37.538	1.00 52.07	C
ATOM	5836	NE2	HIS	732	-62.483	42.518	38.127	1.00 52.07	N
ATOM	5837	CD2	HIS	732	-62.858	41.224	37.813	1.00 52.07	C
ATOM	5838	CE1	HIS	732	-63.623	43.158	38.318	1.00 52.07	C
ATOM	5839	C	HIS	732	-66.453	38.066	38.419	1.00 52.07	C
ATOM	5840	O	HIS	732	-66.158	37.069	37.761	1.00 52.07	O
ATOM	5841	N	GLN	733	-67.707	38.319	38.843	1.00 74.25	N
ATOM	5842	CA	GLN	733	-68.825	37.441	38.645	1.00 74.25	C
ATOM	5843	CB	GLN	733	-70.082	37.896	39.406	1.00 74.25	C
ATOM	5844	CG	GLN	733	-71.232	36.888	39.340	1.00 74.25	C
ATOM	5845	CD	GLN	733	-72.355	37.395	40.232	1.00 74.25	C
ATOM	5846	OE1	GLN	733	-72.553	36.900	41.342	1.00 74.25	O
ATOM	5847	NE2	GLN	733	-73.109	38.414	39.742	1.00 74.25	N
ATOM	5848	C	GLN	733	-69.172	37.332	37.191	1.00 74.25	C
ATOM	5849	O	GLN	733	-69.587	36.270	36.734	1.00 74.25	O
ATOM	5850	N	ASP	734	-69.033	38.430	36.422	1.00 64.83	N
ATOM	5851	CA	ASP	734	-69.415	38.395	35.038	1.00 64.83	C
ATOM	5852	CB	ASP	734	-69.341	39.755	34.321	1.00 64.83	C
ATOM	5853	CG	ASP	734	-70.591	40.540	34.699	1.00 64.83	C
ATOM	5854	OD1	ASP	734	-71.344	40.073	35.594	1.00 64.83	O
ATOM	5855	OD2	ASP	734	-70.820	41.613	34.080	1.00 64.83	O
ATOM	5856	C	ASP	734	-68.582	37.409	34.282	1.00 64.83	C
ATOM	5857	O	ASP	734	-69.091	36.742	33.384	1.00 64.83	O
ATOM	5858	N	GLU	735	-67.278	37.298	34.606	1.00 56.53	N
ATOM	5859	CA	GLU	735	-66.425	36.370	33.921	1.00 56.53	C
ATOM	5860	CB	GLU	735	-64.951	36.457	34.347	1.00 56.53	C
ATOM	5861	CG	GLU	735	-64.239	37.714	33.853	1.00 56.53	C
ATOM	5862	CD	GLU	735	-62.784	37.609	34.280	1.00 56.53	C
ATOM	5863	OE1	GLU	735	-62.488	36.765	35.168	1.00 56.53	O
ATOM	5864	OE2	GLU	735	-61.948	38.367	33.721	1.00 56.53	O
ATOM	5865	C	GLU	735	-66.873	34.970	34.213	1.00 56.53	C
ATOM	5866	O	GLU	735	-66.871	34.118	33.328	1.00 56.53	O
ATOM	5867	N	LEU	736	-67.263	34.692	35.472	1.00 79.52	N
ATOM	5868	CA	LEU	736	-67.648	33.364	35.860	1.00 79.52	C
ATOM	5869	CB	LEU	736	-67.995	33.258	37.355	1.00 79.52	C
ATOM	5870	CG	LEU	736	-66.786	33.453	38.288	1.00 79.52	C
ATOM	5871	CD1	LEU	736	-67.197	33.337	39.764	1.00 79.52	C
ATOM	5872	CD2	LEU	736	-65.647	32.491	37.925	1.00 79.52	C
ATOM	5873	C	LEU	736	-68.867	32.933	35.094	1.00 79.52	C
ATOM	5874	O	LEU	736	-68.908	31.819	34.573	1.00 79.52	O
ATOM	5875	N	ILE	737	-69.906	33.794	35.020	1.00120.39	N
ATOM	5876	CA	ILE	737	-71.090	33.444	34.280	1.00120.39	C
ATOM	5877	CB	ILE	737	-72.266	34.376	34.414	1.00120.39	C
ATOM	5878	CG1	ILE	737	-72.899	34.305	35.814	1.00120.39	C

ATOM	5879	CG2	ILE	737	-73.255	34.021	33.290	1.00120.39	C
ATOM	5880	CD1	ILE	737	-72.157	35.087	36.891	1.00120.39	C
ATOM	5881	C	ILE	737	-70.772	33.386	32.819	1.00120.39	C
ATOM	5882	O	ILE	737	-71.280	32.526	32.103	1.00120.39	O
ATOM	5883	N	GLY	738	-69.931	34.320	32.337	1.00 41.79	N
ATOM	5884	CA	GLY	738	-69.627	34.398	30.935	1.00 41.79	C
ATOM	5885	C	GLY	738	-69.015	33.110	30.478	1.00 41.79	C
ATOM	5886	O	GLY	738	-69.304	32.639	29.380	1.00 41.79	O
ATOM	5887	N	ARG	739	-68.117	32.532	31.292	1.00150.43	N
ATOM	5888	CA	ARG	739	-67.447	31.300	30.972	1.00150.43	C
ATOM	5889	CB	ARG	739	-66.383	30.962	32.023	1.00150.43	C
ATOM	5890	CG	ARG	739	-65.553	29.717	31.733	1.00150.43	C
ATOM	5891	CD	ARG	739	-64.606	29.403	32.888	1.00150.43	C
ATOM	5892	NE	ARG	739	-63.877	30.666	33.184	1.00150.43	N
ATOM	5893	CZ	ARG	739	-62.625	30.889	32.689	1.00150.43	C
ATOM	5894	NH1	ARG	739	-61.952	29.900	32.035	1.00150.43	N
ATOM	5895	NH2	ARG	739	-62.043	32.111	32.856	1.00150.43	N
ATOM	5896	C	ARG	739	-68.425	30.157	30.953	1.00150.43	C
ATOM	5897	O	ARG	739	-68.384	29.298	30.075	1.00150.43	O
ATOM	5898	N	ALA	740	-69.340	30.121	31.940	1.00 71.14	N
ATOM	5899	CA	ALA	740	-70.296	29.056	32.096	1.00 71.14	C
ATOM	5900	CB	ALA	740	-71.159	29.208	33.361	1.00 71.14	C
ATOM	5901	C	ALA	740	-71.217	29.021	30.917	1.00 71.14	C
ATOM	5902	O	ALA	740	-71.715	27.970	30.523	1.00 71.14	O
ATOM	5903	N	ARG	741	-71.496	30.202	30.356	1.00194.85	N
ATOM	5904	CA	ARG	741	-72.389	30.418	29.259	1.00194.85	C
ATOM	5905	CB	ARG	741	-72.623	31.925	29.076	1.00194.85	C
ATOM	5906	CG	ARG	741	-73.788	32.302	28.173	1.00194.85	C
ATOM	5907	CD	ARG	741	-74.096	33.799	28.218	1.00194.85	C
ATOM	5908	NE	ARG	741	-74.961	34.052	29.402	1.00194.85	N
ATOM	5909	CZ	ARG	741	-76.284	34.329	29.208	1.00194.85	C
ATOM	5910	NH1	ARG	741	-76.771	34.445	27.939	1.00194.85	N
ATOM	5911	NH2	ARG	741	-77.116	34.502	30.274	1.00194.85	N
ATOM	5912	C	ARG	741	-71.852	29.814	27.986	1.00194.85	C
ATOM	5913	O	ARG	741	-72.611	29.591	27.046	1.00194.85	O
ATOM	5914	N	VAL	742	-70.526	29.602	27.863	1.00155.68	N
ATOM	5915	CA	VAL	742	-70.017	29.099	26.609	1.00155.68	C
ATOM	5916	CB	VAL	742	-68.710	29.720	26.210	1.00155.68	C
ATOM	5917	CG1	VAL	742	-68.258	29.097	24.879	1.00155.68	C
ATOM	5918	CG2	VAL	742	-68.894	31.247	26.154	1.00155.68	C
ATOM	5919	C	VAL	742	-69.819	27.606	26.639	1.00155.68	C
ATOM	5920	O	VAL	742	-69.428	27.034	27.655	1.00155.68	O
ATOM	5921	N	SER	743	-70.081	26.941	25.485	1.00433.32	N
ATOM	5922	CA	SER	743	-69.911	25.518	25.330	1.00433.32	C
ATOM	5923	CB	SER	743	-71.125	24.849	24.664	1.00433.32	C
ATOM	5924	OG	SER	743	-70.987	23.438	24.683	1.00433.32	O
ATOM	5925	C	SER	743	-68.700	25.324	24.450	1.00433.32	C
ATOM	5926	O	SER	743	-68.479	26.087	23.514	1.00433.32	O
ATOM	5927	N	PRO	744	-67.929	24.297	24.726	1.00999.99	N
ATOM	5928	CA	PRO	744	-66.636	24.068	24.109	1.00999.99	C
ATOM	5929	CD	PRO	744	-68.051	23.618	26.007	1.00999.99	C
ATOM	5930	CB	PRO	744	-66.005	22.922	24.899	1.00999.99	C
ATOM	5931	CG	PRO	744	-66.666	23.014	26.286	1.00999.99	C
ATOM	5932	C	PRO	744	-66.586	23.844	22.630	1.00999.99	C
ATOM	5933	O	PRO	744	-65.523	24.048	22.038	1.00999.99	O
ATOM	5934	N	GLY	745	-67.686	23.386	22.010	1.00395.98	N
ATOM	5935	CA	GLY	745	-67.651	23.166	20.597	1.00395.98	C
ATOM	5936	C	GLY	745	-69.058	22.953	20.164	1.00395.98	C
ATOM	5937	O	GLY	745	-69.985	22.994	20.971	1.00395.98	O
ATOM	5938	N	ALA	746	-69.241	22.738	18.852	1.00152.12	N
ATOM	5939	CA	ALA	746	-70.545	22.555	18.303	1.00152.12	C
ATOM	5940	CB	ALA	746	-70.675	23.055	16.854	1.00152.12	C
ATOM	5941	C	ALA	746	-70.920	21.110	18.302	1.00152.12	C
ATOM	5942	O	ALA	746	-70.085	20.222	18.465	1.00152.12	O
ATOM	5943	N	GLY	747	-72.230	20.850	18.135	1.00135.83	N
ATOM	5944	CA	GLY	747	-72.708	19.509	17.985	1.00135.83	C

ATOM	5945	C	GLY	747	-72.865	18.841	19.311	1.00135.83	C
ATOM	5946	O	GLY	747	-73.012	17.621	19.363	1.00135.83	O
ATOM	5947	N	TRP	748	-72.836	19.598	20.422	1.00176.04	N
ATOM	5948	CA	TRP	748	-72.982	18.924	21.680	1.00176.04	C
ATOM	5949	CB	TRP	748	-72.339	19.659	22.867	1.00176.04	C
ATOM	5950	CG	TRP	748	-70.833	19.685	22.768	1.00176.04	C
ATOM	5951	CD2	TRP	748	-69.943	19.656	23.893	1.00176.04	C
ATOM	5952	CD1	TRP	748	-70.046	19.696	21.654	1.00176.04	C
ATOM	5953	NE1	TRP	748	-68.720	19.683	22.015	1.00176.04	N
ATOM	5954	CE2	TRP	748	-68.642	19.653	23.390	1.00176.04	C
ATOM	5955	CE3	TRP	748	-70.191	19.623	25.234	1.00176.04	C
ATOM	5956	CZ2	TRP	748	-67.563	19.618	24.225	1.00176.04	C
ATOM	5957	CZ3	TRP	748	-69.099	19.595	26.073	1.00176.04	C
ATOM	5958	CH2	TRP	748	-67.811	19.592	25.579	1.00176.04	C
ATOM	5959	C	TRP	748	-74.442	18.710	21.958	1.00176.04	C
ATOM	5960	O	TRP	748	-75.270	19.607	21.797	1.00176.04	O
ATOM	5961	N	SER	749	-74.776	17.484	22.408	1.00233.74	N
ATOM	5962	CA	SER	749	-76.122	17.075	22.690	1.00233.74	C
ATOM	5963	CB	SER	749	-76.245	15.557	22.903	1.00233.74	C
ATOM	5964	OG	SER	749	-77.579	15.212	23.241	1.00233.74	O
ATOM	5965	C	SER	749	-76.560	17.744	23.950	1.00233.74	C
ATOM	5966	O	SER	749	-75.753	18.294	24.696	1.00233.74	O
ATOM	5967	N	ILE	750	-77.877	17.691	24.219	1.00184.45	N
ATOM	5968	CA	ILE	750	-78.455	18.338	25.357	1.00184.45	C
ATOM	5969	CB	ILE	750	-79.953	18.159	25.399	1.00184.45	C
ATOM	5970	CG1	ILE	750	-80.623	19.080	26.438	1.00184.45	C
ATOM	5971	CG2	ILE	750	-80.251	16.663	25.592	1.00184.45	C
ATOM	5972	CD1	ILE	750	-80.280	18.766	27.894	1.00184.45	C
ATOM	5973	C	ILE	750	-77.839	17.761	26.596	1.00184.45	C
ATOM	5974	O	ILE	750	-77.528	18.488	27.538	1.00184.45	O
ATOM	5975	N	ARG	751	-77.633	16.432	26.624	1.00193.04	N
ATOM	5976	CA	ARG	751	-77.115	15.790	27.797	1.00193.04	C
ATOM	5977	CB	ARG	751	-76.995	14.265	27.627	1.00193.04	C
ATOM	5978	CG	ARG	751	-76.584	13.520	28.900	1.00193.04	C
ATOM	5979	CD	ARG	751	-76.585	11.997	28.734	1.00193.04	C
ATOM	5980	NE	ARG	751	-76.397	11.382	30.079	1.00193.04	N
ATOM	5981	CZ	ARG	751	-75.161	10.980	30.495	1.00193.04	C
ATOM	5982	NH1	ARG	751	-74.083	11.135	29.673	1.00193.04	N
ATOM	5983	NH2	ARG	751	-75.005	10.413	31.726	1.00193.04	N
ATOM	5984	C	ARG	751	-75.751	16.322	28.120	1.00193.04	C
ATOM	5985	O	ARG	751	-75.467	16.644	29.271	1.00193.04	O
ATOM	5986	N	GLU	752	-74.873	16.451	27.108	1.00369.63	N
ATOM	5987	CA	GLU	752	-73.515	16.883	27.312	1.00369.63	C
ATOM	5988	CB	GLU	752	-72.689	16.851	26.006	1.00369.63	C
ATOM	5989	CG	GLU	752	-72.391	15.437	25.483	1.00369.63	C
ATOM	5990	CD	GLU	752	-71.602	15.555	24.186	1.00369.63	C
ATOM	5991	OE1	GLU	752	-72.141	16.149	23.214	1.00369.63	O
ATOM	5992	OE2	GLU	752	-70.447	15.052	24.151	1.00369.63	O
ATOM	5993	C	GLU	752	-73.503	18.289	27.834	1.00369.63	C
ATOM	5994	O	GLU	752	-72.726	18.625	28.727	1.00369.63	O
ATOM	5995	N	THR	753	-74.377	19.144	27.278	1.00253.45	N
ATOM	5996	CA	THR	753	-74.463	20.534	27.628	1.00253.45	C
ATOM	5997	CB	THR	753	-75.510	21.233	26.814	1.00253.45	C
ATOM	5998	OG1	THR	753	-75.236	21.099	25.430	1.00253.45	O
ATOM	5999	CG2	THR	753	-75.527	22.715	27.197	1.00253.45	C
ATOM	6000	C	THR	753	-74.898	20.659	29.059	1.00253.45	C
ATOM	6001	O	THR	753	-74.371	21.478	29.812	1.00253.45	O
ATOM	6002	N	ALA	754	-75.899	19.853	29.462	1.00 96.90	N
ATOM	6003	CA	ALA	754	-76.434	19.888	30.797	1.00 96.90	C
ATOM	6004	CB	ALA	754	-77.640	18.948	30.985	1.00 96.90	C
ATOM	6005	C	ALA	754	-75.370	19.475	31.765	1.00 96.90	C
ATOM	6006	O	ALA	754	-75.283	19.984	32.881	1.00 96.90	O
ATOM	6007	N	CYS	755	-74.549	18.497	31.352	1.00168.37	N
ATOM	6008	CA	CYS	755	-73.467	17.946	32.110	1.00168.37	C
ATOM	6009	CB	CYS	755	-72.794	16.862	31.251	1.00168.37	C
ATOM	6010	SG	CYS	755	-73.781	15.336	31.168	1.00168.37	S

ATOM	6011	C	CYS	755	-72.455	19.025	32.394	1.00168.37	C
ATOM	6012	O	CYS	755	-71.971	19.176	33.517	1.00168.37	O
ATOM	6013	N	LEU	756	-72.096	19.819	31.373	1.00426.27	N
ATOM	6014	CA	LEU	756	-71.138	20.875	31.576	1.00426.27	C
ATOM	6015	CB	LEU	756	-70.772	21.697	30.328	1.00426.27	C
ATOM	6016	CG	LEU	756	-69.634	21.118	29.488	1.00426.27	C
ATOM	6017	CD1	LEU	756	-68.312	21.152	30.273	1.00426.27	C
ATOM	6018	CD2	LEU	756	-69.986	19.731	28.951	1.00426.27	C
ATOM	6019	C	LEU	756	-71.695	21.883	32.511	1.00426.27	C
ATOM	6020	O	LEU	756	-70.986	22.411	33.365	1.00426.27	O
ATOM	6021	N	ALA	757	-72.986	22.196	32.353	1.00119.91	N
ATOM	6022	CA	ALA	757	-73.584	23.196	33.179	1.00119.91	C
ATOM	6023	CB	ALA	757	-75.068	23.412	32.884	1.00119.91	C
ATOM	6024	C	ALA	757	-73.507	22.755	34.600	1.00119.91	C
ATOM	6025	O	ALA	757	-73.271	23.566	35.493	1.00119.91	O
ATOM	6026	N	LYS	758	-73.727	21.454	34.854	1.00147.92	N
ATOM	6027	CA	LYS	758	-73.729	20.985	36.209	1.00147.92	C
ATOM	6028	CB	LYS	758	-74.316	19.579	36.434	1.00147.92	C
ATOM	6029	CG	LYS	758	-73.538	18.413	35.846	1.00147.92	C
ATOM	6030	CD	LYS	758	-73.910	17.097	36.525	1.00147.92	C
ATOM	6031	CE	LYS	758	-73.199	16.924	37.869	1.00147.92	C
ATOM	6032	NZ	LYS	758	-73.489	15.598	38.449	1.00147.92	N
ATOM	6033	C	LYS	758	-72.360	21.084	36.811	1.00147.92	C
ATOM	6034	O	LYS	758	-72.230	21.274	38.018	1.00147.92	O
ATOM	6035	N	SER	759	-71.299	20.922	35.997	1.00226.38	N
ATOM	6036	CA	SER	759	-69.948	21.006	36.480	1.00226.38	C
ATOM	6037	CB	SER	759	-68.920	20.751	35.367	1.00226.38	C
ATOM	6038	OG	SER	759	-69.179	19.505	34.742	1.00226.38	O
ATOM	6039	C	SER	759	-69.696	22.400	36.971	1.00226.38	C
ATOM	6040	O	SER	759	-69.138	22.598	38.050	1.00226.38	O
ATOM	6041	N	TYR	760	-70.106	23.409	36.174	1.00142.61	N
ATOM	6042	CA	TYR	760	-69.896	24.784	36.526	1.00142.61	C
ATOM	6043	CB	TYR	760	-70.310	25.777	35.424	1.00142.61	C
ATOM	6044	CG	TYR	760	-69.288	25.695	34.339	1.00142.61	C
ATOM	6045	CD1	TYR	760	-69.408	24.803	33.299	1.00142.61	C
ATOM	6046	CD2	TYR	760	-68.189	26.519	34.375	1.00142.61	C
ATOM	6047	CE1	TYR	760	-68.448	24.746	32.313	1.00142.61	C
ATOM	6048	CE2	TYR	760	-67.230	26.467	33.395	1.00142.61	C
ATOM	6049	CZ	TYR	760	-67.356	25.579	32.360	1.00142.61	C
ATOM	6050	OH	TYR	760	-66.365	25.531	31.359	1.00142.61	O
ATOM	6051	C	TYR	760	-70.665	25.099	37.770	1.00142.61	C
ATOM	6052	O	TYR	760	-70.159	25.767	38.669	1.00142.61	O
ATOM	6053	N	ALA	761	-71.915	24.612	37.861	1.00 47.64	N
ATOM	6054	CA	ALA	761	-72.734	24.887	39.003	1.00 47.64	C
ATOM	6055	CB	ALA	761	-74.126	24.240	38.901	1.00 47.64	C
ATOM	6056	C	ALA	761	-72.073	24.345	40.240	1.00 47.64	C
ATOM	6057	O	ALA	761	-71.998	25.025	41.262	1.00 47.64	O
ATOM	6058	N	GLN	762	-71.550	23.110	40.169	1.00 89.19	N
ATOM	6059	CA	GLN	762	-70.932	22.426	41.273	1.00 89.19	C
ATOM	6060	CB	GLN	762	-70.566	20.973	40.912	1.00 89.19	C
ATOM	6061	CG	GLN	762	-71.782	20.105	40.572	1.00 89.19	C
ATOM	6062	CD	GLN	762	-71.294	18.760	40.046	1.00 89.19	C
ATOM	6063	OE1	GLN	762	-70.378	18.690	39.227	1.00 89.19	O
ATOM	6064	NE2	GLN	762	-71.923	17.654	40.526	1.00 89.19	N
ATOM	6065	C	GLN	762	-69.669	23.131	41.679	1.00 89.19	C
ATOM	6066	O	GLN	762	-69.339	23.185	42.862	1.00 89.19	O
ATOM	6067	N	MET	763	-68.904	23.661	40.705	1.00 60.11	N
ATOM	6068	CA	MET	763	-67.670	24.344	40.993	1.00 60.11	C
ATOM	6069	CB	MET	763	-66.935	24.812	39.730	1.00 60.11	C
ATOM	6070	CG	MET	763	-65.625	25.539	40.035	1.00 60.11	C
ATOM	6071	SD	MET	763	-64.749	26.152	38.567	1.00 60.11	S
ATOM	6072	CE	MET	763	-66.072	27.294	38.068	1.00 60.11	C
ATOM	6073	C	MET	763	-67.984	25.570	41.788	1.00 60.11	C
ATOM	6074	O	MET	763	-67.258	25.934	42.714	1.00 60.11	O
ATOM	6075	N	TRP	764	-69.089	26.245	41.422	1.00 72.57	N
ATOM	6076	CA	TRP	764	-69.509	27.455	42.063	1.00 72.57	C

ATOM	6077	CB	TRP	764	-70.734	28.079	41.359	1.00	72.57	C
ATOM	6078	CG	TRP	764	-70.401	28.651	39.996	1.00	72.57	C
ATOM	6079	CD2	TRP	764	-71.359	29.076	39.009	1.00	72.57	C
ATOM	6080	CD1	TRP	764	-69.169	28.873	39.452	1.00	72.57	C
ATOM	6081	NE1	TRP	764	-69.297	29.418	38.197	1.00	72.57	N
ATOM	6082	CE2	TRP	764	-70.639	29.546	37.911	1.00	72.57	C
ATOM	6083	CE3	TRP	764	-72.725	29.074	39.016	1.00	72.57	C
ATOM	6084	CZ2	TRP	764	-71.275	30.025	36.800	1.00	72.57	C
ATOM	6085	CZ3	TRP	764	-73.363	29.557	37.893	1.00	72.57	C
ATOM	6086	CH2	TRP	764	-72.652	30.024	36.806	1.00	72.57	C
ATOM	6087	C	TRP	764	-69.844	27.159	43.491	1.00	72.57	C
ATOM	6088	O	TRP	764	-69.469	27.909	44.391	1.00	72.57	O
ATOM	6089	N	GLN	765	-70.546	26.038	43.743	1.00144.07		N
ATOM	6090	CA	GLN	765	-70.945	25.722	45.084	1.00144.07		C
ATOM	6091	CB	GLN	765	-71.883	24.497	45.189	1.00144.07		C
ATOM	6092	CG	GLN	765	-71.274	23.149	44.797	1.00144.07		C
ATOM	6093	CD	GLN	765	-70.437	22.626	45.958	1.00144.07		C
ATOM	6094	OE1	GLN	765	-70.839	22.710	47.117	1.00144.07		O
ATOM	6095	NE2	GLN	765	-69.232	22.082	45.641	1.00144.07		N
ATOM	6096	C	GLN	765	-69.731	25.483	45.933	1.00144.07		C
ATOM	6097	O	GLN	765	-69.733	25.760	47.131	1.00144.07		O
ATOM	6098	N	LEU	766	-68.689	24.861	45.361	1.00140.76		N
ATOM	6099	CA	LEU	766	-67.496	24.573	46.103	1.00140.76		C
ATOM	6100	CB	LEU	766	-66.633	23.575	45.325	1.00140.76		C
ATOM	6101	CG	LEU	766	-65.330	23.173	46.017	1.00140.76		C
ATOM	6102	CD1	LEU	766	-65.581	22.296	47.250	1.00140.76		C
ATOM	6103	CD2	LEU	766	-64.387	22.523	45.011	1.00140.76		C
ATOM	6104	C	LEU	766	-66.652	25.795	46.388	1.00140.76		C
ATOM	6105	O	LEU	766	-66.230	26.019	47.522	1.00140.76		O
ATOM	6106	N	LEU	767	-66.268	26.547	45.332	1.00192.33		N
ATOM	6107	CA	LEU	767	-65.422	27.701	45.508	1.00192.33		C
ATOM	6108	CB	LEU	767	-64.431	27.883	44.350	1.00192.33		C
ATOM	6109	CG	LEU	767	-63.485	26.672	44.228	1.00192.33		C
ATOM	6110	CD1	LEU	767	-64.197	25.450	43.635	1.00192.33		C
ATOM	6111	CD2	LEU	767	-62.191	27.027	43.497	1.00192.33		C
ATOM	6112	C	LEU	767	-66.107	29.017	45.783	1.00192.33		C
ATOM	6113	O	LEU	767	-65.630	29.821	46.579	1.00192.33		O
ATOM	6114	N	TYR	768	-67.166	29.286	44.997	1.00221.69		N
ATOM	6115	CA	TYR	768	-67.998	30.456	44.832	1.00221.69		C
ATOM	6116	CB	TYR	768	-68.385	30.670	43.366	1.00221.69		C
ATOM	6117	CG	TYR	768	-67.042	30.757	42.730	1.00221.69		C
ATOM	6118	CD1	TYR	768	-66.336	31.936	42.714	1.00221.69		C
ATOM	6119	CD2	TYR	768	-66.466	29.632	42.194	1.00221.69		C
ATOM	6120	CE1	TYR	768	-65.087	31.994	42.141	1.00221.69		C
ATOM	6121	CE2	TYR	768	-65.220	29.683	41.619	1.00221.69		C
ATOM	6122	CH	TYR	768	-64.532	30.866	41.591	1.00221.69		C
ATOM	6123	OZ	TYR	768	-63.255	30.908	41.002	1.00221.69		O
ATOM	6124	C	TYR	768	-69.206	30.599	45.720	1.00221.69		C
ATOM	6125	O	TYR	768	-70.013	31.499	45.488	1.00221.69		O
ATOM	6126	N	PHE	769	-69.469	29.652	46.632	1.00113.03		N
ATOM	6127	CA	PHE	769	-70.693	29.595	47.394	1.00113.03		C
ATOM	6128	CB	PHE	769	-70.690	28.461	48.438	1.00113.03		C
ATOM	6129	CG	PHE	769	-69.491	28.609	49.314	1.00113.03		C
ATOM	6130	CD1	PHE	769	-69.522	29.400	50.440	1.00113.03		C
ATOM	6131	CD2	PHE	769	-68.324	27.946	49.004	1.00113.03		C
ATOM	6132	CE1	PHE	769	-68.409	29.525	51.240	1.00113.03		C
ATOM	6133	CE2	PHE	769	-67.208	28.068	49.800	1.00113.03		C
ATOM	6134	CZ	PHE	769	-67.249	28.860	50.922	1.00113.03		C
ATOM	6135	C	PHE	769	-71.008	30.900	48.074	1.00113.03		C
ATOM	6136	O	PHE	769	-72.175	31.203	48.321	1.00113.03		O
ATOM	6137	N	HIS	770	-69.982	31.688	48.425	1.00154.45		N
ATOM	6138	CA	HIS	770	-70.086	32.951	49.100	1.00154.45		C
ATOM	6139	ND1	HIS	770	-67.267	34.199	47.523	1.00154.45		N
ATOM	6140	CG	HIS	770	-67.630	33.275	48.477	1.00154.45		C
ATOM	6141	CB	HIS	770	-68.699	33.485	49.514	1.00154.45		C
ATOM	6142	NE2	HIS	770	-65.971	32.427	47.203	1.00154.45		N

ATOM	6143	CD2	HIS	770	-66.828	32.196	48.264	1.00154.45	C
ATOM	6144	CE1	HIS	770	-66.272	33.642	46.791	1.00154.45	C
ATOM	6145	C	HIS	770	-70.801	33.994	48.272	1.00154.45	C
ATOM	6146	O	HIS	770	-71.222	35.016	48.813	1.00154.45	O
ATOM	6147	N	ARG	771	-70.896	33.816	46.938	1.00217.42	N
ATOM	6148	CA	ARG	771	-71.536	34.782	46.078	1.00217.42	C
ATOM	6149	CB	ARG	771	-70.922	34.752	44.671	1.00217.42	C
ATOM	6150	CG	ARG	771	-69.397	34.784	44.770	1.00217.42	C
ATOM	6151	CD	ARG	771	-68.849	36.139	45.207	1.00217.42	C
ATOM	6152	NE	ARG	771	-68.450	36.875	43.978	1.00217.42	N
ATOM	6153	CZ	ARG	771	-69.377	37.479	43.182	1.00217.42	C
ATOM	6154	NH1	ARG	771	-70.705	37.339	43.450	1.00217.42	N
ATOM	6155	NH2	ARG	771	-68.966	38.203	42.100	1.00217.42	N
ATOM	6156	C	ARG	771	-72.998	34.441	45.971	1.00217.42	C
ATOM	6157	O	ARG	771	-73.362	33.333	45.581	1.00217.42	O
ATOM	6158	N	ARG	772	-73.877	35.419	46.280	1.00214.51	N
ATOM	6159	CA	ARG	772	-75.299	35.208	46.364	1.00214.51	C
ATOM	6160	CB	ARG	772	-76.068	36.494	46.713	1.00214.51	C
ATOM	6161	CG	ARG	772	-75.558	37.233	47.953	1.00214.51	C
ATOM	6162	CD	ARG	772	-76.304	36.935	49.248	1.00214.51	C
ATOM	6163	NE	ARG	772	-75.995	38.038	50.205	1.00214.51	N
ATOM	6164	CZ	ARG	772	-74.720	38.255	50.642	1.00214.51	C
ATOM	6165	NH1	ARG	772	-73.672	37.586	50.080	1.00214.51	N
ATOM	6166	NH2	ARG	772	-74.481	39.165	51.629	1.00214.51	N
ATOM	6167	C	ARG	772	-75.861	34.754	45.049	1.00214.51	C
ATOM	6168	O	ARG	772	-76.634	33.798	45.004	1.00214.51	O
ATOM	6169	N	ASP	773	-75.493	35.427	43.941	1.00138.61	N
ATOM	6170	CA	ASP	773	-76.053	35.118	42.654	1.00138.61	C
ATOM	6171	CB	ASP	773	-75.555	36.066	41.549	1.00138.61	C
ATOM	6172	CG	ASP	773	-76.061	37.468	41.850	1.00138.61	C
ATOM	6173	OD1	ASP	773	-76.758	37.636	42.885	1.00138.61	O
ATOM	6174	OD2	ASP	773	-75.757	38.392	41.049	1.00138.61	O
ATOM	6175	C	ASP	773	-75.653	33.739	42.227	1.00138.61	C
ATOM	6176	O	ASP	773	-76.466	32.988	41.692	1.00138.61	O
ATOM	6177	N	LEU	774	-74.374	33.378	42.438	1.00 62.53	N
ATOM	6178	CA	LEU	774	-73.851	32.118	41.983	1.00 62.53	C
ATOM	6179	CB	LEU	774	-72.324	32.031	42.116	1.00 62.53	C
ATOM	6180	CG	LEU	774	-71.608	33.071	41.233	1.00 62.53	C
ATOM	6181	CD1	LEU	774	-70.084	32.895	41.277	1.00 62.53	C
ATOM	6182	CD2	LEU	774	-72.169	33.069	39.801	1.00 62.53	C
ATOM	6183	C	LEU	774	-74.469	30.962	42.709	1.00 62.53	C
ATOM	6184	O	LEU	774	-74.731	29.918	42.114	1.00 62.53	O
ATOM	6185	N	ARG	775	-74.697	31.107	44.025	1.00177.15	N
ATOM	6186	CA	ARG	775	-75.255	30.048	44.817	1.00177.15	C
ATOM	6187	CB	ARG	775	-75.409	30.484	46.277	1.00177.15	C
ATOM	6188	CG	ARG	775	-75.792	29.385	47.262	1.00177.15	C
ATOM	6189	CD	ARG	775	-76.652	29.966	48.376	1.00177.15	C
ATOM	6190	NE	ARG	775	-76.475	29.167	49.613	1.00177.15	N
ATOM	6191	CZ	ARG	775	-75.427	29.478	50.427	1.00177.15	C
ATOM	6192	NH1	ARG	775	-74.424	30.279	49.968	1.00177.15	N
ATOM	6193	NH2	ARG	775	-75.410	29.026	51.711	1.00177.15	N
ATOM	6194	C	ARG	775	-76.638	29.759	44.317	1.00177.15	C
ATOM	6195	O	ARG	775	-77.036	28.602	44.180	1.00177.15	O
ATOM	6196	N	LEU	776	-77.415	30.826	44.050	1.00172.44	N
ATOM	6197	CA	LEU	776	-78.772	30.689	43.605	1.00172.44	C
ATOM	6198	CB	LEU	776	-79.496	32.053	43.559	1.00172.44	C
ATOM	6199	CG	LEU	776	-80.970	32.045	43.094	1.00172.44	C
ATOM	6200	CD1	LEU	776	-81.110	31.902	41.579	1.00172.44	C
ATOM	6201	CD2	LEU	776	-81.780	30.970	43.814	1.00172.44	C
ATOM	6202	C	LEU	776	-78.779	30.052	42.250	1.00172.44	C
ATOM	6203	O	LEU	776	-79.549	29.129	41.992	1.00172.44	O
ATOM	6204	N	MET	777	-77.890	30.514	41.352	1.00 58.56	N
ATOM	6205	CA	MET	777	-77.842	30.009	40.010	1.00 58.56	C
ATOM	6206	CB	MET	777	-76.867	30.799	39.118	1.00 58.56	C
ATOM	6207	CG	MET	777	-77.028	30.512	37.624	1.00 58.56	C
ATOM	6208	SD	MET	777	-75.913	31.464	36.551	1.00 58.56	S

ATOM	6209	CE	MET	777	-76.791	33.042	36.748	1.00	58.56	C
ATOM	6210	C	MET	777	-77.415	28.570	40.023	1.00	58.56	C
ATOM	6211	O	MET	777	-77.905	27.763	39.234	1.00	58.56	O
ATOM	6212	N	ALA	778	-76.471	28.214	40.914	1.00	41.44	N
ATOM	6213	CA	ALA	778	-75.963	26.869	40.971	1.00	41.44	C
ATOM	6214	CB	ALA	778	-74.850	26.700	42.019	1.00	41.44	C
ATOM	6215	C	ALA	778	-77.067	25.923	41.338	1.00	41.44	C
ATOM	6216	O	ALA	778	-77.219	24.868	40.722	1.00	41.44	O
ATOM	6217	N	ASN	779	-77.885	26.289	42.343	1.00	47.30	N
ATOM	6218	CA	ASN	779	-78.945	25.437	42.808	1.00	47.30	C
ATOM	6219	CB	ASN	779	-79.707	26.022	44.009	1.00	47.30	C
ATOM	6220	CG	ASN	779	-78.771	26.045	45.208	1.00	47.30	C
ATOM	6221	OD1	ASN	779	-78.148	25.042	45.547	1.00	47.30	O
ATOM	6222	ND2	ASN	779	-78.669	27.230	45.866	1.00	47.30	N
ATOM	6223	C	ASN	779	-79.944	25.270	41.708	1.00	47.30	C
ATOM	6224	O	ASN	779	-80.542	24.207	41.554	1.00	47.30	O
ATOM	6225	N	ALA	780	-80.174	26.347	40.937	1.00	38.81	N
ATOM	6226	CA	ALA	780	-81.128	26.325	39.868	1.00	38.81	C
ATOM	6227	CB	ALA	780	-81.278	27.693	39.182	1.00	38.81	C
ATOM	6228	C	ALA	780	-80.693	25.341	38.822	1.00	38.81	C
ATOM	6229	O	ALA	780	-81.510	24.591	38.290	1.00	38.81	O
ATOM	6230	N	ILE	781	-79.386	25.326	38.495	1.00	115.70	N
ATOM	6231	CA	ILE	781	-78.855	24.460	37.472	1.00	115.70	C
ATOM	6232	CB	ILE	781	-77.375	24.639	37.266	1.00	115.70	C
ATOM	6233	CG1	ILE	781	-77.004	26.077	36.858	1.00	115.70	C
ATOM	6234	CG2	ILE	781	-76.930	23.574	36.247	1.00	115.70	C
ATOM	6235	CD1	ILE	781	-77.485	26.493	35.472	1.00	115.70	C
ATOM	6236	C	ILE	781	-79.017	23.032	37.899	1.00	115.70	C
ATOM	6237	O	ILE	781	-79.459	22.178	37.133	1.00	115.70	O
ATOM	6238	N	CYS	782	-78.655	22.740	39.158	1.00	69.04	N
ATOM	6239	CA	CYS	782	-78.694	21.397	39.658	1.00	69.04	C
ATOM	6240	CB	CYS	782	-78.043	21.266	41.044	1.00	69.04	C
ATOM	6241	SG	CYS	782	-76.243	21.529	40.959	1.00	69.04	S
ATOM	6242	C	CYS	782	-80.114	20.915	39.703	1.00	69.04	C
ATOM	6243	O	CYS	782	-80.365	19.718	39.576	1.00	69.04	O
ATOM	6244	N	SER	783	-81.082	21.822	39.937	1.00	59.25	N
ATOM	6245	CA	SER	783	-82.469	21.432	39.979	1.00	59.25	C
ATOM	6246	CB	SER	783	-83.401	22.548	40.484	1.00	59.25	C
ATOM	6247	OG	SER	783	-83.117	22.852	41.841	1.00	59.25	O
ATOM	6248	C	SER	783	-82.956	21.077	38.605	1.00	59.25	C
ATOM	6249	O	SER	783	-83.846	20.244	38.451	1.00	59.25	O
ATOM	6250	N	ALA	784	-82.447	21.785	37.584	1.00	72.96	N
ATOM	6251	CA	ALA	784	-82.797	21.618	36.200	1.00	72.96	C
ATOM	6252	CB	ALA	784	-82.321	22.784	35.318	1.00	72.96	C
ATOM	6253	C	ALA	784	-82.235	20.360	35.613	1.00	72.96	C
ATOM	6254	O	ALA	784	-82.822	19.787	34.698	1.00	72.96	O
ATOM	6255	N	VAL	785	-81.041	19.934	36.067	1.00	132.50	N
ATOM	6256	CA	VAL	785	-80.407	18.803	35.439	1.00	132.50	C
ATOM	6257	CB	VAL	785	-78.922	18.961	35.262	1.00	132.50	C
ATOM	6258	CG1	VAL	785	-78.200	18.511	36.542	1.00	132.50	C
ATOM	6259	CG2	VAL	785	-78.502	18.221	33.987	1.00	132.50	C
ATOM	6260	C	VAL	785	-80.654	17.572	36.262	1.00	132.50	C
ATOM	6261	O	VAL	785	-80.639	17.619	37.489	1.00	132.50	O
ATOM	6262	N	PRO	786	-80.851	16.450	35.610	1.00	104.70	N
ATOM	6263	CA	PRO	786	-81.143	15.215	36.284	1.00	104.70	C
ATOM	6264	CD	PRO	786	-81.211	16.417	34.202	1.00	104.70	C
ATOM	6265	CB	PRO	786	-81.327	14.183	35.174	1.00	104.70	C
ATOM	6266	CG	PRO	786	-81.819	15.021	33.977	1.00	104.70	C
ATOM	6267	C	PRO	786	-80.081	14.876	37.279	1.00	104.70	C
ATOM	6268	O	PRO	786	-78.897	15.023	36.977	1.00	104.70	O
ATOM	6269	N	VAL	787	-80.493	14.402	38.473	1.00	81.45	N
ATOM	6270	CA	VAL	787	-79.542	14.141	39.516	1.00	81.45	C
ATOM	6271	CB	VAL	787	-80.162	13.813	40.837	1.00	81.45	C
ATOM	6272	CG1	VAL	787	-79.072	13.261	41.768	1.00	81.45	C
ATOM	6273	CG2	VAL	787	-80.780	15.104	41.390	1.00	81.45	C
ATOM	6274	C	VAL	787	-78.598	13.043	39.142	1.00	81.45	C

ATOM	6275	O	VAL	787	-77.427	13.072	39.520	1.00	81.45	O
ATOM	6276	N	ASP	788	-79.084	12.046	38.386	1.00	85.57	N
ATOM	6277	CA	ASP	788	-78.320	10.883	38.032	1.00	85.57	C
ATOM	6278	CB	ASP	788	-79.085	9.957	37.067	1.00	85.57	C
ATOM	6279	CG	ASP	788	-80.443	9.591	37.644	1.00	85.57	C
ATOM	6280	OD1	ASP	788	-81.188	10.524	38.049	1.00	85.57	O
ATOM	6281	OD2	ASP	788	-80.757	8.372	37.681	1.00	85.57	O
ATOM	6282	C	ASP	788	-77.112	11.281	37.245	1.00	85.57	C
ATOM	6283	O	ASP	788	-76.032	10.719	37.415	1.00	85.57	O
ATOM	6284	N	TRP	789	-77.268	12.272	36.355	1.00129.93		N
ATOM	6285	CA	TRP	789	-76.233	12.595	35.422	1.00129.93		C
ATOM	6286	CB	TRP	789	-76.665	13.682	34.421	1.00129.93		C
ATOM	6287	CG	TRP	789	-77.744	13.204	33.480	1.00129.93		C
ATOM	6288	CD2	TRP	789	-78.359	14.005	32.457	1.00129.93		C
ATOM	6289	CD1	TRP	789	-78.321	11.970	33.400	1.00129.93		C
ATOM	6290	NE1	TRP	789	-79.251	11.949	32.388	1.00129.93		N
ATOM	6291	CE2	TRP	789	-79.285	13.194	31.800	1.00129.93		C
ATOM	6292	CE3	TRP	789	-78.166	15.307	32.094	1.00129.93		C
ATOM	6293	CZ2	TRP	789	-80.033	13.675	30.765	1.00129.93		C
ATOM	6294	CZ3	TRP	789	-78.925	15.789	31.050	1.00129.93		C
ATOM	6295	CH2	TRP	789	-79.840	14.989	30.398	1.00129.93		C
ATOM	6296	C	TRP	789	-74.989	13.035	36.119	1.00129.93		C
ATOM	6297	O	TRP	789	-74.992	13.924	36.966	1.00129.93		O
ATOM	6298	N	VAL	790	-73.837	12.467	35.698	1.00301.89		N
ATOM	6299	CA	VAL	790	-72.536	12.832	36.201	1.00301.89		C
ATOM	6300	CB	VAL	790	-71.491	11.752	35.986	1.00301.89		C
ATOM	6301	CG1	VAL	790	-71.750	10.635	37.004	1.00301.89		C
ATOM	6302	CG2	VAL	790	-71.590	11.212	34.547	1.00301.89		C
ATOM	6303	C	VAL	790	-72.229	14.184	35.621	1.00301.89		C
ATOM	6304	O	VAL	790	-73.198	14.804	35.216	1.00301.89		O
ATOM	6305	N	PRO	791	-71.017	14.699	35.568	1.00598.72		N
ATOM	6306	CA	PRO	791	-70.762	16.035	35.088	1.00598.72		C
ATOM	6307	CD	PRO	791	-70.738	14.086	34.270	1.00598.72		C
ATOM	6308	CB	PRO	791	-71.462	16.463	33.916	1.00598.72		C
ATOM	6309	CG	PRO	791	-71.392	15.048	33.196	1.00598.72		C
ATOM	6310	C	PRO	791	-69.320	15.924	34.689	1.00598.72		C
ATOM	6311	O	PRO	791	-68.474	15.295	35.327	1.00598.72		O
ATOM	6312	N	THR	792	-69.087	16.630	33.571	1.00738.52		N
ATOM	6313	CA	THR	792	-67.908	16.468	32.820	1.00738.52		C
ATOM	6314	CB	THR	792	-68.016	15.410	31.759	1.00738.52		C
ATOM	6315	OG1	THR	792	-69.034	15.747	30.828	1.00738.52		O
ATOM	6316	CG2	THR	792	-68.333	14.062	32.427	1.00738.52		C
ATOM	6317	C	THR	792	-67.654	17.749	32.135	1.00738.52		C
ATOM	6318	O	THR	792	-68.503	18.637	32.075	1.00738.52		O
ATOM	6319	N	GLY	793	-66.450	17.847	31.574	1.00999.99		N
ATOM	6320	CA	GLY	793	-66.037	19.022	30.880	1.00999.99		C
ATOM	6321	C	GLY	793	-65.134	19.794	31.779	1.00999.99		C
ATOM	6322	O	GLY	793	-65.038	19.517	32.971	1.00999.99		O
ATOM	6323	N	ARG	794	-64.452	20.802	31.210	1.00999.99		N
ATOM	6324	CA	ARG	794	-63.484	21.550	31.951	1.00999.99		C
ATOM	6325	CB	ARG	794	-62.243	21.886	31.103	1.00999.99		C
ATOM	6326	CG	ARG	794	-61.007	22.235	31.928	1.00999.99		C
ATOM	6327	CD	ARG	794	-59.770	22.571	31.094	1.00999.99		C
ATOM	6328	NE	ARG	794	-58.605	22.417	32.007	1.00999.99		N
ATOM	6329	CZ	ARG	794	-57.866	21.273	31.970	1.00999.99		C
ATOM	6330	NH1	ARG	794	-58.054	20.380	30.955	1.00999.99		N
ATOM	6331	NH2	ARG	794	-56.937	21.021	32.938	1.00999.99		N
ATOM	6332	C	ARG	794	-64.107	22.844	32.376	1.00999.99		C
ATOM	6333	O	ARG	794	-64.722	23.557	31.586	1.00999.99		O
ATOM	6334	N	THR	795	-64.114	23.080	33.697	1.00738.38		N
ATOM	6335	CA	THR	795	-64.501	24.329	34.273	1.00738.38		C
ATOM	6336	CB	THR	795	-65.105	24.169	35.633	1.00738.38		C
ATOM	6337	OG1	THR	795	-64.180	23.534	36.498	1.00738.38		O
ATOM	6338	CG2	THR	795	-66.382	23.322	35.519	1.00738.38		C
ATOM	6339	C	THR	795	-63.328	25.271	34.384	1.00738.38		C
ATOM	6340	O	THR	795	-63.497	26.487	34.344	1.00738.38		O

ATOM	6341	N	THR	796	-62.096	24.759	34.606	1.00649.85	N
ATOM	6342	CA	THR	796	-61.004	25.688	34.794	1.00649.85	C
ATOM	6343	CB	THR	796	-60.756	25.994	36.247	1.00649.85	C
ATOM	6344	OG1	THR	796	-61.940	26.472	36.865	1.00649.85	O
ATOM	6345	CG2	THR	796	-59.681	27.082	36.343	1.00649.85	C
ATOM	6346	C	THR	796	-59.715	25.129	34.245	1.00649.85	C
ATOM	6347	O	THR	796	-59.539	23.917	34.178	1.00649.85	O
ATOM	6348	N	TRP	797	-58.827	26.012	33.725	1.00557.60	N
ATOM	6349	CA	TRP	797	-57.492	25.676	33.274	1.00557.60	C
ATOM	6350	CB	TRP	797	-56.995	26.500	32.076	1.00557.60	C
ATOM	6351	CG	TRP	797	-57.589	25.986	30.786	1.00557.60	C
ATOM	6352	CD2	TRP	797	-57.087	24.834	30.091	1.00557.60	C
ATOM	6353	CD1	TRP	797	-58.666	26.426	30.076	1.00557.60	C
ATOM	6354	NE1	TRP	797	-58.868	25.618	28.981	1.00557.60	N
ATOM	6355	CE2	TRP	797	-57.902	24.633	28.979	1.00557.60	C
ATOM	6356	CE3	TRP	797	-56.034	24.005	30.362	1.00557.60	C
ATOM	6357	CZ2	TRP	797	-57.680	23.598	28.117	1.00557.60	C
ATOM	6358	CZ3	TRP	797	-55.808	22.965	29.488	1.00557.60	C
ATOM	6359	CH2	TRP	797	-56.615	22.766	28.386	1.00557.60	C
ATOM	6360	C	TRP	797	-56.466	25.679	34.356	1.00557.60	C
ATOM	6361	O	TRP	797	-55.459	24.977	34.264	1.00557.60	O
ATOM	6362	N	SER	798	-56.678	26.494	35.401	1.00274.26	N
ATOM	6363	CA	SER	798	-55.670	26.684	36.400	1.00274.26	C
ATOM	6364	CB	SER	798	-56.144	27.573	37.562	1.00274.26	C
ATOM	6365	OG	SER	798	-55.108	27.727	38.519	1.00274.26	O
ATOM	6366	C	SER	798	-55.214	25.371	36.967	1.00274.26	C
ATOM	6367	O	SER	798	-55.981	24.431	37.163	1.00274.26	O
ATOM	6368	N	ILE	799	-53.898	25.303	37.234	1.00208.01	N
ATOM	6369	CA	ILE	799	-53.224	24.172	37.799	1.00208.01	C
ATOM	6370	CB	ILE	799	-51.732	24.359	37.861	1.00208.01	C
ATOM	6371	CG1	ILE	799	-51.035	23.045	38.254	1.00208.01	C
ATOM	6372	CG2	ILE	799	-51.424	25.547	38.788	1.00208.01	C
ATOM	6373	CD1	ILE	799	-49.524	23.056	38.008	1.00208.01	C
ATOM	6374	C	ILE	799	-53.752	23.948	39.190	1.00208.01	C
ATOM	6375	O	ILE	799	-53.748	22.830	39.702	1.00208.01	O
ATOM	6376	N	HIS	800	-54.151	25.040	39.862	1.00279.51	N
ATOM	6377	CA	HIS	800	-54.650	25.046	41.206	1.00279.51	C
ATOM	6378	ND1	HIS	800	-52.167	26.477	42.479	1.00279.51	N
ATOM	6379	CG	HIS	800	-53.208	26.972	41.724	1.00279.51	C
ATOM	6380	CB	HIS	800	-54.619	26.459	41.801	1.00279.51	C
ATOM	6381	NE2	HIS	800	-51.298	28.032	41.148	1.00279.51	N
ATOM	6382	CD2	HIS	800	-52.658	27.923	40.918	1.00279.51	C
ATOM	6383	CE1	HIS	800	-51.050	27.144	42.094	1.00279.51	C
ATOM	6384	C	HIS	800	-56.016	24.409	41.335	1.00279.51	C
ATOM	6385	O	HIS	800	-56.411	24.028	42.437	1.00279.51	O
ATOM	6386	N	GLY	801	-56.816	24.346	40.249	1.00188.97	N
ATOM	6387	CA	GLY	801	-58.122	23.726	40.316	1.00188.97	C
ATOM	6388	C	GLY	801	-57.982	22.241	40.517	1.00188.97	C
ATOM	6389	O	GLY	801	-57.391	21.542	39.693	1.00188.97	O
ATOM	6390	N	LYS	802	-58.505	21.742	41.661	1.00278.16	N
ATOM	6391	CA	LYS	802	-58.555	20.351	42.027	1.00278.16	C
ATOM	6392	CB	LYS	802	-58.635	20.132	43.544	1.00278.16	C
ATOM	6393	CG	LYS	802	-57.246	20.109	44.185	1.00278.16	C
ATOM	6394	CD	LYS	802	-56.453	21.404	44.032	1.00278.16	C
ATOM	6395	CE	LYS	802	-54.997	21.270	44.487	1.00278.16	C
ATOM	6396	NZ	LYS	802	-54.238	20.429	43.532	1.00278.16	N
ATOM	6397	C	LYS	802	-59.643	19.560	41.351	1.00278.16	C
ATOM	6398	O	LYS	802	-59.449	18.375	41.094	1.00278.16	O
ATOM	6399	N	GLY	803	-60.832	20.148	41.093	1.00167.41	N
ATOM	6400	CA	GLY	803	-61.852	19.406	40.384	1.00167.41	C
ATOM	6401	C	GLY	803	-62.682	18.538	41.291	1.00167.41	C
ATOM	6402	O	GLY	803	-63.336	17.599	40.836	1.00167.41	O
ATOM	6403	N	GLU	804	-62.727	18.846	42.596	1.00232.09	N
ATOM	6404	CA	GLU	804	-63.495	18.027	43.497	1.00232.09	C
ATOM	6405	CB	GLU	804	-63.283	18.341	44.990	1.00232.09	C
ATOM	6406	CG	GLU	804	-63.271	19.823	45.333	1.00232.09	C

ATOM	6407	CD	GLU	804	-61.856	20.327	45.099	1.00232.09	C
ATOM	6408	OE1	GLU	804	-60.977	19.474	44.812	1.00232.09	O
ATOM	6409	OE2	GLU	804	-61.630	21.563	45.206	1.00232.09	O
ATOM	6410	C	GLU	804	-64.961	18.059	43.137	1.00232.09	C
ATOM	6411	O	GLU	804	-65.725	17.187	43.548	1.00232.09	O
ATOM	6412	N	TRP	805	-65.405	19.098	42.403	1.00187.34	N
ATOM	6413	CA	TRP	805	-66.767	19.271	41.962	1.00187.34	C
ATOM	6414	CB	TRP	805	-67.055	20.688	41.440	1.00187.34	C
ATOM	6415	CG	TRP	805	-66.081	21.178	40.403	1.00187.34	C
ATOM	6416	CD2	TRP	805	-64.856	21.851	40.725	1.00187.34	C
ATOM	6417	CD1	TRP	805	-66.138	21.103	39.044	1.00187.34	C
ATOM	6418	NE1	TRP	805	-65.019	21.684	38.496	1.00187.34	N
ATOM	6419	CE2	TRP	805	-64.222	22.151	39.522	1.00187.34	C
ATOM	6420	CE3	TRP	805	-64.306	22.191	41.927	1.00187.34	C
ATOM	6421	CZ2	TRP	805	-63.019	22.798	39.501	1.00187.34	C
ATOM	6422	CZ3	TRP	805	-63.094	22.844	41.904	1.00187.34	C
ATOM	6423	CH2	TRP	805	-62.463	23.143	40.714	1.00187.34	C
ATOM	6424	C	TRP	805	-67.184	18.250	40.927	1.00187.34	C
ATOM	6425	O	TRP	805	-68.379	18.086	40.674	1.00187.34	O
ATOM	6426	N	MET	806	-66.240	17.594	40.220	1.00333.83	N
ATOM	6427	CA	MET	806	-66.712	16.615	39.274	1.00333.83	C
ATOM	6428	CB	MET	806	-65.714	16.228	38.173	1.00333.83	C
ATOM	6429	CG	MET	806	-65.696	17.196	36.994	1.00333.83	C
ATOM	6430	SD	MET	806	-64.990	18.827	37.336	1.00333.83	S
ATOM	6431	CE	MET	806	-65.403	19.460	35.689	1.00333.83	C
ATOM	6432	C	MET	806	-67.066	15.359	39.998	1.00333.83	C
ATOM	6433	O	MET	806	-66.293	14.401	40.013	1.00333.83	O
ATOM	6434	N	THR	807	-68.276	15.328	40.593	1.00188.44	N
ATOM	6435	CA	THR	807	-68.705	14.168	41.315	1.00188.44	C
ATOM	6436	CB	THR	807	-68.301	14.206	42.760	1.00188.44	C
ATOM	6437	OG1	THR	807	-66.904	14.408	42.883	1.00188.44	O
ATOM	6438	CG2	THR	807	-68.649	12.861	43.401	1.00188.44	C
ATOM	6439	C	THR	807	-70.204	14.155	41.310	1.00188.44	C
ATOM	6440	O	THR	807	-70.849	15.155	40.999	1.00188.44	O
ATOM	6441	N	THR	808	-70.781	12.963	41.556	1.00137.20	N
ATOM	6442	CA	THR	808	-72.187	12.757	41.749	1.00137.20	C
ATOM	6443	CB	THR	808	-72.626	11.359	41.424	1.00137.20	C
ATOM	6444	OG1	THR	808	-72.306	11.045	40.075	1.00137.20	O
ATOM	6445	CG2	THR	808	-74.147	11.275	41.626	1.00137.20	C
ATOM	6446	C	THR	808	-72.559	13.038	43.180	1.00137.20	C
ATOM	6447	O	THR	808	-73.721	13.311	43.476	1.00137.20	O
ATOM	6448	N	GLU	809	-71.579	12.933	44.112	1.00114.15	N
ATOM	6449	CA	GLU	809	-71.825	13.012	45.530	1.00114.15	C
ATOM	6450	CB	GLU	809	-70.605	12.697	46.421	1.00114.15	C
ATOM	6451	CG	GLU	809	-69.512	13.766	46.438	1.00114.15	C
ATOM	6452	CD	GLU	809	-68.397	13.271	47.352	1.00114.15	C
ATOM	6453	OE1	GLU	809	-67.874	12.156	47.083	1.00114.15	O
ATOM	6454	OE2	GLU	809	-68.053	13.991	48.327	1.00114.15	O
ATOM	6455	C	GLU	809	-72.351	14.355	45.917	1.00114.15	C
ATOM	6456	O	GLU	809	-72.217	15.331	45.181	1.00114.15	O
ATOM	6457	N	ASP	810	-73.009	14.402	47.098	1.00 59.03	N
ATOM	6458	CA	ASP	810	-73.615	15.600	47.602	1.00 59.03	C
ATOM	6459	CB	ASP	810	-74.341	15.408	48.945	1.00 59.03	C
ATOM	6460	CG	ASP	810	-75.142	16.670	49.243	1.00 59.03	C
ATOM	6461	OD1	ASP	810	-75.496	17.397	48.277	1.00 59.03	O
ATOM	6462	OD2	ASP	810	-75.403	16.928	50.448	1.00 59.03	O
ATOM	6463	C	ASP	810	-72.546	16.626	47.802	1.00 59.03	C
ATOM	6464	O	ASP	810	-71.508	16.363	48.407	1.00 59.03	O
ATOM	6465	N	MET	811	-72.811	17.846	47.304	1.00 88.81	N
ATOM	6466	CA	MET	811	-71.868	18.925	47.335	1.00 88.81	C
ATOM	6467	CB	MET	811	-72.295	20.146	46.498	1.00 88.81	C
ATOM	6468	CG	MET	811	-72.233	19.931	44.978	1.00 88.81	C
ATOM	6469	SD	MET	811	-70.559	19.774	44.277	1.00 88.81	S
ATOM	6470	CE	MET	811	-70.368	17.999	44.598	1.00 88.81	C
ATOM	6471	C	MET	811	-71.601	19.369	48.740	1.00 88.81	C
ATOM	6472	O	MET	811	-70.506	19.840	49.041	1.00 88.81	O

ATOM	6473	N	LEU	812	-72.599	19.272	49.634	1.00127.27	N
ATOM	6474	CA	LEU	812	-72.416	19.733	50.981	1.00127.27	C
ATOM	6475	CB	LEU	812	-73.731	19.674	51.782	1.00127.27	C
ATOM	6476	CG	LEU	812	-73.749	20.540	53.059	1.00127.27	C
ATOM	6477	CD1	LEU	812	-75.089	20.416	53.793	1.00127.27	C
ATOM	6478	CD2	LEU	812	-72.558	20.269	53.979	1.00127.27	C
ATOM	6479	C	LEU	812	-71.357	18.877	51.621	1.00127.27	C
ATOM	6480	O	LEU	812	-70.525	19.368	52.383	1.00127.27	O
ATOM	6481	N	MET	813	-71.359	17.561	51.323	1.00132.94	N
ATOM	6482	CA	MET	813	-70.388	16.664	51.892	1.00132.94	C
ATOM	6483	CB	MET	813	-70.624	15.196	51.492	1.00132.94	C
ATOM	6484	CG	MET	813	-69.792	14.189	52.295	1.00132.94	C
ATOM	6485	SD	MET	813	-68.003	14.207	51.962	1.00132.94	S
ATOM	6486	CE	MET	813	-67.609	12.893	53.151	1.00132.94	C
ATOM	6487	C	MET	813	-69.023	17.048	51.405	1.00132.94	C
ATOM	6488	O	MET	813	-68.064	17.069	52.173	1.00132.94	O
ATOM	6489	N	VAL	814	-68.910	17.364	50.100	1.00 75.61	N
ATOM	6490	CA	VAL	814	-67.656	17.721	49.497	1.00 75.61	C
ATOM	6491	CB	VAL	814	-67.791	18.031	48.029	1.00 75.61	C
ATOM	6492	CG1	VAL	814	-66.436	18.510	47.494	1.00 75.61	C
ATOM	6493	CG2	VAL	814	-68.337	16.799	47.299	1.00 75.61	C
ATOM	6494	C	VAL	814	-67.168	18.982	50.132	1.00 75.61	C
ATOM	6495	O	VAL	814	-65.981	19.131	50.417	1.00 75.61	O
ATOM	6496	N	TRP	815	-68.094	19.923	50.379	1.00 85.73	N
ATOM	6497	CA	TRP	815	-67.752	21.210	50.909	1.00 85.73	C
ATOM	6498	CB	TRP	815	-68.994	22.099	51.110	1.00 85.73	C
ATOM	6499	CG	TRP	815	-68.689	23.547	51.415	1.00 85.73	C
ATOM	6500	CD2	TRP	815	-68.413	24.076	52.721	1.00 85.73	C
ATOM	6501	CD1	TRP	815	-68.613	24.598	50.549	1.00 85.73	C
ATOM	6502	NE1	TRP	815	-68.304	25.749	51.231	1.00 85.73	N
ATOM	6503	CE2	TRP	815	-68.177	25.443	52.569	1.00 85.73	C
ATOM	6504	CE3	TRP	815	-68.356	23.475	53.944	1.00 85.73	C
ATOM	6505	CZ2	TRP	815	-67.879	26.231	53.645	1.00 85.73	C
ATOM	6506	CZ3	TRP	815	-68.058	24.274	55.026	1.00 85.73	C
ATOM	6507	CH2	TRP	815	-67.824	25.625	54.881	1.00 85.73	C
ATOM	6508	C	TRP	815	-67.097	21.001	52.237	1.00 85.73	C
ATOM	6509	O	TRP	815	-66.083	21.626	52.545	1.00 85.73	O
ATOM	6510	N	ASN	816	-67.660	20.095	53.057	1.00 49.95	N
ATOM	6511	CA	ASN	816	-67.134	19.825	54.367	1.00 49.95	C
ATOM	6512	CB	ASN	816	-67.948	18.776	55.145	1.00 49.95	C
ATOM	6513	CG	ASN	816	-69.191	19.444	55.707	1.00 49.95	C
ATOM	6514	OD1	ASN	816	-69.097	20.399	56.476	1.00 49.95	O
ATOM	6515	ND2	ASN	816	-70.390	18.931	55.321	1.00 49.95	N
ATOM	6516	C	ASN	816	-65.752	19.276	54.241	1.00 49.95	C
ATOM	6517	O	ASN	816	-64.868	19.629	55.020	1.00 49.95	O
ATOM	6518	N	ARG	817	-65.529	18.385	53.258	1.00153.46	N
ATOM	6519	CA	ARG	817	-64.247	17.762	53.127	1.00153.46	C
ATOM	6520	CB	ARG	817	-64.190	16.790	51.933	1.00153.46	C
ATOM	6521	CG	ARG	817	-62.801	16.186	51.702	1.00153.46	C
ATOM	6522	CD	ARG	817	-62.636	15.471	50.357	1.00153.46	C
ATOM	6523	NE	ARG	817	-63.544	14.290	50.343	1.00153.46	N
ATOM	6524	CZ	ARG	817	-64.817	14.404	49.862	1.00153.46	C
ATOM	6525	NH1	ARG	817	-65.260	15.601	49.381	1.00153.46	N
ATOM	6526	NH2	ARG	817	-65.645	13.320	49.852	1.00153.46	N
ATOM	6527	C	ARG	817	-63.188	18.789	52.863	1.00153.46	C
ATOM	6528	O	ARG	817	-62.156	18.807	53.532	1.00153.46	O
ATOM	6529	N	VAL	818	-63.403	19.660	51.859	1.00 92.69	N
ATOM	6530	CA	VAL	818	-62.389	20.600	51.478	1.00 92.69	C
ATOM	6531	CB	VAL	818	-62.677	21.235	50.147	1.00 92.69	C
ATOM	6532	CG1	VAL	818	-61.562	22.241	49.827	1.00 92.69	C
ATOM	6533	CG2	VAL	818	-62.812	20.122	49.097	1.00 92.69	C
ATOM	6534	C	VAL	818	-62.188	21.707	52.467	1.00 92.69	C
ATOM	6535	O	VAL	818	-61.060	22.036	52.830	1.00 92.69	O
ATOM	6536	N	TRP	819	-63.286	22.364	52.868	1.00130.60	N
ATOM	6537	CA	TRP	819	-63.199	23.509	53.726	1.00130.60	C
ATOM	6538	CB	TRP	819	-64.442	24.401	53.598	1.00130.60	C

ATOM	6539	CG	TRP	819	-64.571	24.929	52.184	1.00130.60	C
ATOM	6540	CD2	TRP	819	-63.729	25.945	51.618	1.00130.60	C
ATOM	6541	CD1	TRP	819	-65.418	24.533	51.191	1.00130.60	C
ATOM	6542	NE1	TRP	819	-65.160	25.242	50.041	1.00130.60	N
ATOM	6543	CE2	TRP	819	-64.121	26.113	50.289	1.00130.60	C
ATOM	6544	CE3	TRP	819	-62.708	26.672	52.156	1.00130.60	C
ATOM	6545	CZ2	TRP	819	-63.496	27.015	49.476	1.00130.60	C
ATOM	6546	CZ3	TRP	819	-62.085	27.587	51.336	1.00130.60	C
ATOM	6547	CH2	TRP	819	-62.471	27.755	50.021	1.00130.60	C
ATOM	6548	C	TRP	819	-62.935	23.172	55.164	1.00130.60	C
ATOM	6549	O	TRP	819	-62.235	23.917	55.846	1.00130.60	O
ATOM	6550	N	ILE	820	-63.645	22.165	55.712	1.00160.23	N
ATOM	6551	CA	ILE	820	-63.444	21.761	57.080	1.00160.23	C
ATOM	6552	CB	ILE	820	-64.716	21.216	57.654	1.00160.23	C
ATOM	6553	CG1	ILE	820	-65.839	22.252	57.488	1.00160.23	C
ATOM	6554	CG2	ILE	820	-64.454	20.805	59.112	1.00160.23	C
ATOM	6555	CD1	ILE	820	-65.530	23.604	58.127	1.00160.23	C
ATOM	6556	C	ILE	820	-62.384	20.718	57.323	1.00160.23	C
ATOM	6557	O	ILE	820	-61.374	20.975	57.976	1.00160.23	O
ATOM	6558	N	GLU	821	-62.577	19.502	56.755	1.00127.90	N
ATOM	6559	CA	GLU	821	-61.738	18.406	57.168	1.00127.90	C
ATOM	6560	CB	GLU	821	-62.263	17.005	56.781	1.00127.90	C
ATOM	6561	CG	GLU	821	-62.357	16.705	55.287	1.00127.90	C
ATOM	6562	CD	GLU	821	-62.732	15.232	55.154	1.00127.90	C
ATOM	6563	OE1	GLU	821	-62.560	14.489	56.157	1.00127.90	O
ATOM	6564	OE2	GLU	821	-63.193	14.828	54.054	1.00127.90	O
ATOM	6565	C	GLU	821	-60.330	18.528	56.684	1.00127.90	C
ATOM	6566	O	GLU	821	-59.387	18.420	57.464	1.00127.90	O
ATOM	6567	N	GLU	822	-60.159	18.765	55.377	1.00131.17	N
ATOM	6568	CA	GLU	822	-58.866	18.834	54.768	1.00131.17	C
ATOM	6569	CB	GLU	822	-58.883	18.586	53.247	1.00131.17	C
ATOM	6570	CG	GLU	822	-59.751	19.534	52.423	1.00131.17	C
ATOM	6571	CD	GLU	822	-59.706	19.014	50.991	1.00131.17	C
ATOM	6572	OE1	GLU	822	-59.173	17.889	50.797	1.00131.17	O
ATOM	6573	OE2	GLU	822	-60.201	19.724	50.076	1.00131.17	O
ATOM	6574	C	GLU	822	-58.162	20.120	55.076	1.00131.17	C
ATOM	6575	O	GLU	822	-56.951	20.214	54.895	1.00131.17	O
ATOM	6576	N	ASN	823	-58.904	21.162	55.494	1.0076.56	N
ATOM	6577	CA	ASN	823	-58.365	22.483	55.706	1.0076.56	C
ATOM	6578	CB	ASN	823	-59.490	23.524	55.883	1.0076.56	C
ATOM	6579	CG	ASN	823	-58.939	24.938	55.762	1.0076.56	C
ATOM	6580	OD1	ASN	823	-57.729	25.155	55.739	1.0076.56	O
ATOM	6581	ND2	ASN	823	-59.862	25.935	55.688	1.0076.56	N
ATOM	6582	C	ASN	823	-57.491	22.532	56.935	1.0076.56	C
ATOM	6583	O	ASN	823	-57.973	22.415	58.060	1.0076.56	O
ATOM	6584	N	ASP	824	-56.170	22.752	56.733	1.0058.79	N
ATOM	6585	CA	ASP	824	-55.170	22.820	57.771	1.0058.79	C
ATOM	6586	CB	ASP	824	-53.746	22.977	57.210	1.0058.79	C
ATOM	6587	CG	ASP	824	-53.359	21.695	56.491	1.0058.79	C
ATOM	6588	OD1	ASP	824	-54.108	20.690	56.623	1.0058.79	O
ATOM	6589	OD2	ASP	824	-52.305	21.702	55.799	1.0058.79	O
ATOM	6590	C	ASP	824	-55.410	24.026	58.626	1.0058.79	C
ATOM	6591	O	ASP	824	-55.123	24.028	59.822	1.0058.79	O
ATOM	6592	N	HIS	825	-55.897	25.106	57.997	1.0094.78	N
ATOM	6593	CA	HIS	825	-56.172	26.369	58.619	1.0094.78	C
ATOM	6594	ND1	HIS	825	-54.243	27.393	56.153	1.0094.78	N
ATOM	6595	CG	HIS	825	-54.988	28.009	57.135	1.0094.78	C
ATOM	6596	CB	HIS	825	-56.324	27.528	57.620	1.0094.78	C
ATOM	6597	NE2	HIS	825	-53.057	29.143	56.847	1.0094.78	N
ATOM	6598	CD2	HIS	825	-54.249	29.077	57.546	1.0094.78	C
ATOM	6599	CE1	HIS	825	-53.098	28.112	56.023	1.0094.78	C
ATOM	6600	C	HIS	825	-57.385	26.296	59.496	1.0094.78	C
ATOM	6601	O	HIS	825	-57.664	27.248	60.221	1.0094.78	O
ATOM	6602	N	MET	826	-58.199	25.225	59.390	1.0096.81	N
ATOM	6603	CA	MET	826	-59.400	25.137	60.187	1.0096.81	C
ATOM	6604	CB	MET	826	-60.580	24.537	59.399	1.0096.81	C

ATOM	6605	CG	MET	826	-61.961	24.753	60.028	1.00	96.81	C
ATOM	6606	SD	MET	826	-62.742	26.359	59.666	1.00	96.81	S
ATOM	6607	CE	MET	826	-61.604	27.414	60.604	1.00	96.81	C
ATOM	6608	C	MET	826	-59.171	24.206	61.351	1.00	96.81	C
ATOM	6609	O	MET	826	-59.130	22.988	61.184	1.00	96.81	O
ATOM	6610	N	GLU	827	-59.011	24.761	62.573	1.00	104.56	N
ATOM	6611	CA	GLU	827	-58.797	23.947	63.740	1.00	104.56	C
ATOM	6612	CB	GLU	827	-58.238	24.740	64.935	1.00	104.56	C
ATOM	6613	CG	GLU	827	-59.102	25.913	65.393	1.00	104.56	C
ATOM	6614	CD	GLU	827	-58.269	26.697	66.397	1.00	104.56	C
ATOM	6615	OE1	GLU	827	-57.088	26.312	66.610	1.00	104.56	O
ATOM	6616	OE2	GLU	827	-58.797	27.692	66.961	1.00	104.56	O
ATOM	6617	C	GLU	827	-60.050	23.221	64.156	1.00	104.56	C
ATOM	6618	O	GLU	827	-59.990	22.041	64.497	1.00	104.56	O
ATOM	6619	N	ASP	828	-61.222	23.894	64.130	1.00	84.64	N
ATOM	6620	CA	ASP	828	-62.443	23.267	64.572	1.00	84.64	C
ATOM	6621	CB	ASP	828	-63.540	24.268	64.983	1.00	84.64	C
ATOM	6622	CG	ASP	828	-64.697	23.498	65.607	1.00	84.64	C
ATOM	6623	OD1	ASP	828	-64.615	22.242	65.662	1.00	84.64	O
ATOM	6624	OD2	ASP	828	-65.680	24.155	66.041	1.00	84.64	O
ATOM	6625	C	ASP	828	-62.988	22.441	63.446	1.00	84.64	C
ATOM	6626	O	ASP	828	-63.373	22.957	62.401	1.00	84.64	O
ATOM	6627	N	LYS	829	-63.000	21.113	63.659	1.00	148.15	N
ATOM	6628	CA	LYS	829	-63.417	20.092	62.738	1.00	148.15	C
ATOM	6629	CB	LYS	829	-62.864	18.706	63.096	1.00	148.15	C
ATOM	6630	CG	LYS	829	-61.346	18.672	62.926	1.00	148.15	C
ATOM	6631	CD	LYS	829	-60.910	19.134	61.532	1.00	148.15	C
ATOM	6632	CE	LYS	829	-59.396	19.219	61.340	1.00	148.15	C
ATOM	6633	NZ	LYS	829	-59.093	19.715	59.978	1.00	148.15	N
ATOM	6634	C	LYS	829	-64.908	20.004	62.582	1.00	148.15	C
ATOM	6635	O	LYS	829	-65.381	19.324	61.677	1.00	148.15	O
ATOM	6636	N	THR	830	-65.690	20.616	63.490	1.00	152.63	N
ATOM	6637	CA	THR	830	-67.126	20.484	63.483	1.00	152.63	C
ATOM	6638	CB	THR	830	-67.775	21.425	64.462	1.00	152.63	C
ATOM	6639	OG1	THR	830	-69.145	21.111	64.613	1.00	152.63	O
ATOM	6640	CG2	THR	830	-67.622	22.876	63.977	1.00	152.63	C
ATOM	6641	C	THR	830	-67.696	20.716	62.104	1.00	152.63	C
ATOM	6642	O	THR	830	-67.502	21.756	61.478	1.00	152.63	O
ATOM	6643	N	PRO	831	-68.404	19.723	61.619	1.00	77.33	N
ATOM	6644	CA	PRO	831	-68.969	19.791	60.291	1.00	77.33	C
ATOM	6645	CD	PRO	831	-68.046	18.358	61.976	1.00	77.33	C
ATOM	6646	CB	PRO	831	-69.291	18.350	59.895	1.00	77.33	C
ATOM	6647	CG	PRO	831	-68.298	17.513	60.716	1.00	77.33	C
ATOM	6648	C	PRO	831	-70.165	20.688	60.184	1.00	77.33	C
ATOM	6649	O	PRO	831	-70.840	20.907	61.189	1.00	77.33	O
ATOM	6650	N	VAL	832	-70.435	21.222	58.972	1.00	139.58	N
ATOM	6651	CA	VAL	832	-71.603	22.026	58.748	1.00	139.58	C
ATOM	6652	CB	VAL	832	-71.424	23.163	57.785	1.00	139.58	C
ATOM	6653	CG1	VAL	832	-70.661	24.292	58.477	1.00	139.58	C
ATOM	6654	CG2	VAL	832	-70.690	22.634	56.548	1.00	139.58	C
ATOM	6655	C	VAL	832	-72.671	21.147	58.201	1.00	139.58	C
ATOM	6656	O	VAL	832	-72.484	20.437	57.213	1.00	139.58	O
ATOM	6657	N	THR	833	-73.813	21.150	58.909	1.00	83.86	N
ATOM	6658	CA	THR	833	-74.967	20.365	58.603	1.00	83.86	C
ATOM	6659	CB	THR	833	-75.888	20.226	59.773	1.00	83.86	C
ATOM	6660	OG1	THR	833	-75.189	19.690	60.887	1.00	83.86	O
ATOM	6661	CG2	THR	833	-77.006	19.259	59.370	1.00	83.86	C
ATOM	6662	C	THR	833	-75.766	20.927	57.463	1.00	83.86	C
ATOM	6663	O	THR	833	-76.400	20.165	56.736	1.00	83.86	O
ATOM	6664	N	LYS	834	-75.818	22.268	57.295	1.00	122.40	N
ATOM	6665	CA	LYS	834	-76.682	22.762	56.253	1.00	122.40	C
ATOM	6666	CB	LYS	834	-77.996	23.384	56.756	1.00	122.40	C
ATOM	6667	CG	LYS	834	-78.735	22.554	57.800	1.00	122.40	C
ATOM	6668	CD	LYS	834	-78.021	22.604	59.150	1.00	122.40	C
ATOM	6669	CE	LYS	834	-78.834	22.066	60.324	1.00	122.40	C
ATOM	6670	NZ	LYS	834	-78.029	22.184	61.559	1.00	122.40	N

ATOM	6671	C	LYS	834	-76.009	23.874	55.508	1.00122.40	C
ATOM	6672	O	LYS	834	-75.057	24.490	55.982	1.00122.40	O
ATOM	6673	N	TRP	835	-76.533	24.159	54.299	1.00100.03	N
ATOM	6674	CA	TRP	835	-76.048	25.199	53.441	1.00100.03	C
ATOM	6675	CB	TRP	835	-76.652	25.145	52.032	1.00100.03	C
ATOM	6676	CG	TRP	835	-76.043	24.040	51.205	1.00100.03	C
ATOM	6677	CD2	TRP	835	-74.836	24.211	50.451	1.00100.03	C
ATOM	6678	CD1	TRP	835	-76.435	22.745	51.022	1.00100.03	C
ATOM	6679	NE1	TRP	835	-75.544	22.099	50.198	1.00100.03	N
ATOM	6680	CE2	TRP	835	-74.554	22.991	49.840	1.00100.03	C
ATOM	6681	CE3	TRP	835	-74.027	25.299	50.287	1.00100.03	C
ATOM	6682	CZ2	TRP	835	-73.451	22.838	49.049	1.00100.03	C
ATOM	6683	CZ3	TRP	835	-72.918	25.144	49.487	1.00100.03	C
ATOM	6684	CH2	TRP	835	-72.636	23.937	48.882	1.00100.03	C
ATOM	6685	C	TRP	835	-76.311	26.535	54.058	1.00100.03	C
ATOM	6686	O	TRP	835	-75.547	27.477	53.858	1.00100.03	O
ATOM	6687	N	THR	836	-77.394	26.656	54.841	1.00224.97	N
ATOM	6688	CA	THR	836	-77.741	27.914	55.439	0.88224.97	C
ATOM	6689	CB	THR	836	-78.959	27.824	56.312	0.88224.97	C
ATOM	6690	OG1	THR	836	-78.733	26.917	57.381	1.00224.97	O
ATOM	6691	CG2	THR	836	-80.144	27.350	55.454	1.00224.97	C
ATOM	6692	C	THR	836	-76.586	28.351	56.284	1.00224.97	C
ATOM	6693	O	THR	836	-76.336	29.545	56.441	1.00224.97	O
ATOM	6694	N	ASP	837	-75.877	27.378	56.877	1.0077.94	N
ATOM	6695	CA	ASP	837	-74.733	27.597	57.713	1.0077.94	C
ATOM	6696	CB	ASP	837	-74.286	26.326	58.458	1.0077.94	C
ATOM	6697	CG	ASP	837	-75.311	26.038	59.548	1.0077.94	C
ATOM	6698	OD1	ASP	837	-76.054	26.981	59.929	1.0077.94	O
ATOM	6699	OD2	ASP	837	-75.361	24.871	60.019	1.0077.94	O
ATOM	6700	C	ASP	837	-73.566	28.106	56.911	1.0077.94	C
ATOM	6701	O	ASP	837	-72.652	28.690	57.490	1.0077.94	O
ATOM	6702	N	ILE	838	-73.516	27.874	55.579	1.00172.19	N
ATOM	6703	CA	ILE	838	-72.340	28.314	54.872	1.00172.19	C
ATOM	6704	CB	ILE	838	-71.982	27.475	53.666	1.00172.19	C
ATOM	6705	CG1	ILE	838	-72.940	27.655	52.481	1.00172.19	C
ATOM	6706	CG2	ILE	838	-71.879	26.020	54.153	1.00172.19	C
ATOM	6707	CD1	ILE	838	-72.559	28.851	51.609	1.00172.19	C
ATOM	6708	C	ILE	838	-72.518	29.758	54.480	1.00172.19	C
ATOM	6709	O	ILE	838	-73.482	30.159	53.829	1.00172.19	O
ATOM	6710	N	PRO	839	-71.553	30.537	54.905	1.00109.14	N
ATOM	6711	CA	PRO	839	-71.532	31.980	54.806	1.00109.14	C
ATOM	6712	CD	PRO	839	-70.254	29.991	55.271	1.00109.14	C
ATOM	6713	CB	PRO	839	-70.261	32.397	55.542	1.00109.14	C
ATOM	6714	CG	PRO	839	-69.310	31.205	55.318	1.00109.14	C
ATOM	6715	C	PRO	839	-71.515	32.553	53.417	1.00109.14	C
ATOM	6716	O	PRO	839	-71.151	31.860	52.468	1.00109.14	O
ATOM	6717	N	TYR	840	-71.902	33.843	53.307	1.00174.95	N
ATOM	6718	CA	TYR	840	-71.890	34.586	52.075	1.00174.95	C
ATOM	6719	CB	TYR	840	-73.221	35.265	51.698	1.00174.95	C
ATOM	6720	CG	TYR	840	-74.343	34.354	51.309	1.00174.95	C
ATOM	6721	CD1	TYR	840	-74.503	33.963	50.000	1.00174.95	C
ATOM	6722	CD2	TYR	840	-75.260	33.913	52.238	1.00174.95	C
ATOM	6723	CE1	TYR	840	-75.548	33.151	49.623	1.00174.95	C
ATOM	6724	CE2	TYR	840	-76.307	33.098	51.866	1.00174.95	C
ATOM	6725	CZ	TYR	840	-76.456	32.716	50.557	1.00174.95	C
ATOM	6726	OH	TYR	840	-77.535	31.886	50.185	1.00174.95	O
ATOM	6727	C	TYR	840	-70.970	35.749	52.320	1.00174.95	C
ATOM	6728	O	TYR	840	-70.566	35.995	53.455	1.00174.95	O
ATOM	6729	N	LEU	841	-70.573	36.475	51.251	1.00152.78	N
ATOM	6730	CA	LEU	841	-69.759	37.642	51.451	1.00152.78	C
ATOM	6731	CB	LEU	841	-69.083	38.258	50.213	1.00152.78	C
ATOM	6732	CG	LEU	841	-68.075	37.362	49.492	1.00152.78	C
ATOM	6733	CD1	LEU	841	-68.813	36.314	48.659	1.00152.78	C
ATOM	6734	CD2	LEU	841	-67.053	38.183	48.693	1.00152.78	C
ATOM	6735	C	LEU	841	-70.675	38.719	51.912	1.00152.78	C
ATOM	6736	O	LEU	841	-71.896	38.570	51.876	1.00152.78	O

ATOM	6737	N	GLY	842	-70.098	39.833	52.394	1.00	61.27	N
ATOM	6738	CA	GLY	842	-70.933	40.928	52.774	1.00	61.27	C
ATOM	6739	C	GLY	842	-71.526	41.427	51.497	1.00	61.27	C
ATOM	6740	O	GLY	842	-70.931	41.281	50.432	1.00	61.27	O
ATOM	6741	N	LYS	843	-72.713	42.054	51.573	1.00200.97		N
ATOM	6742	CA	LYS	843	-73.353	42.499	50.369	1.00200.97		C
ATOM	6743	CB	LYS	843	-74.718	43.175	50.565	1.00200.97		C
ATOM	6744	CG	LYS	843	-75.882	42.196	50.681	1.00200.97		C
ATOM	6745	CD	LYS	843	-77.219	42.888	50.944	1.00200.97		C
ATOM	6746	CE	LYS	843	-78.426	41.966	50.779	1.00200.97		C
ATOM	6747	NZ	LYS	843	-79.674	42.747	50.911	1.00200.97		N
ATOM	6748	C	LYS	843	-72.484	43.491	49.674	1.00200.97		C
ATOM	6749	O	LYS	843	-72.458	43.541	48.446	1.00200.97		O
ATOM	6750	N	ARG	844	-71.763	44.328	50.437	1.00281.60		N
ATOM	6751	CA	ARG	844	-70.953	45.333	49.815	0.88281.60		C
ATOM	6752	CB	ARG	844	-70.189	46.187	50.838	0.88281.60		C
ATOM	6753	CG	ARG	844	-71.107	46.858	51.855	0.83281.60		C
ATOM	6754	CD	ARG	844	-71.822	48.102	51.327	0.83281.60		C
ATOM	6755	NE	ARG	844	-70.818	49.197	51.246	0.83281.60		N
ATOM	6756	CZ	ARG	844	-71.186	50.466	51.588	0.83281.60		C
ATOM	6757	NH1	ARG	844	-72.465	50.712	51.999	0.83281.60		N
ATOM	6758	NH2	ARG	844	-70.280	51.484	51.531	0.83281.60		N
ATOM	6759	C	ARG	844	-69.916	44.659	48.973	1.00281.60		C
ATOM	6760	O	ARG	844	-69.687	45.050	47.830	1.00281.60		O
ATOM	6761	N	GLU	845	-69.272	43.613	49.525	1.00116.34		N
ATOM	6762	CA	GLU	845	-68.208	42.916	48.860	1.00116.34		C
ATOM	6763	CB	GLU	845	-67.600	41.801	49.734	1.00116.34		C
ATOM	6764	CG	GLU	845	-67.005	42.270	51.066	1.00116.34		C
ATOM	6765	CD	GLU	845	-65.644	42.909	50.827	1.00116.34		C
ATOM	6766	OE1	GLU	845	-65.472	43.578	49.774	1.00116.34		O
ATOM	6767	OE2	GLU	845	-64.757	42.742	51.707	1.00116.34		O
ATOM	6768	C	GLU	845	-68.756	42.232	47.647	1.00116.34		C
ATOM	6769	O	GLU	845	-68.124	42.205	46.593	1.00116.34		O
ATOM	6770	N	ASP	846	-69.964	41.659	47.781	1.00119.13		N
ATOM	6771	CA	ASP	846	-70.577	40.900	46.731	1.00119.13		C
ATOM	6772	CB	ASP	846	-71.934	40.329	47.185	1.00119.13		C
ATOM	6773	CG	ASP	846	-72.315	39.151	46.304	1.00119.13		C
ATOM	6774	OD1	ASP	846	-71.785	39.061	45.165	1.00119.13		O
ATOM	6775	OD2	ASP	846	-73.137	38.317	46.767	1.00119.13		O
ATOM	6776	C	ASP	846	-70.790	41.805	45.551	1.00119.13		C
ATOM	6777	O	ASP	846	-70.520	41.427	44.412	1.00119.13		O
ATOM	6778	N	LEU	847	-71.265	43.039	45.805	1.00160.81		N
ATOM	6779	CA	LEU	847	-71.522	43.996	44.763	1.00160.81		C
ATOM	6780	CB	LEU	847	-72.138	45.310	45.272	1.00160.81		C
ATOM	6781	CG	LEU	847	-72.255	46.378	44.166	1.00160.81		C
ATOM	6782	CD1	LEU	847	-73.199	45.926	43.040	1.00160.81		C
ATOM	6783	CD2	LEU	847	-72.626	47.750	44.750	1.00160.81		C
ATOM	6784	C	LEU	847	-70.237	44.372	44.090	1.00160.81		C
ATOM	6785	O	LEU	847	-70.199	44.539	42.872	1.00160.81		O
ATOM	6786	N	TRP	848	-69.145	44.520	44.866	1.00199.75		N
ATOM	6787	CA	TRP	848	-67.889	44.928	44.298	1.00199.75		C
ATOM	6788	CB	TRP	848	-66.730	45.007	45.310	1.00199.75		C
ATOM	6789	CG	TRP	848	-66.784	46.141	46.306	1.00199.75		C
ATOM	6790	CD2	TRP	848	-66.380	47.486	46.012	1.00199.75		C
ATOM	6791	CD1	TRP	848	-67.181	46.134	47.609	1.00199.75		C
ATOM	6792	NE1	TRP	848	-67.048	47.391	48.148	1.00199.75		N
ATOM	6793	CE2	TRP	848	-66.554	48.234	47.176	1.00199.75		C
ATOM	6794	CE3	TRP	848	-65.898	48.053	44.868	1.00199.75		C
ATOM	6795	CZ2	TRP	848	-66.249	49.565	47.212	1.00199.75		C
ATOM	6796	CZ3	TRP	848	-65.595	49.394	44.908	1.00199.75		C
ATOM	6797	CH2	TRP	848	-65.765	50.137	46.057	1.00199.75		C
ATOM	6798	C	TRP	848	-67.468	43.892	43.302	1.00199.75		C
ATOM	6799	O	TRP	848	-66.949	44.233	42.240	1.00199.75		O
ATOM	6800	N	CYS	849	-67.664	42.601	43.643	1.00131.55		N
ATOM	6801	CA	CYS	849	-67.302	41.486	42.802	1.00131.55		C
ATOM	6802	CB	CYS	849	-67.207	40.051	43.474	1.00131.55		C

ATOM	6803	SG	CYS	849	-65.647	39.554	44.367	1.00131.55	S
ATOM	6804	C	CYS	849	-68.208	41.424	41.594	1.00131.55	C
ATOM	6805	O	CYS	849	-67.947	40.637	40.691	1.00131.55	O
ATOM	6806	N	GLY	850	-69.322	42.194	41.539	1.00 55.25	N
ATOM	6807	CA	GLY	850	-70.129	42.167	40.338	1.00 55.25	C
ATOM	6808	C	GLY	850	-71.502	41.596	40.564	1.00 55.25	C
ATOM	6809	O	GLY	850	-72.189	41.247	39.606	1.00 55.25	O
ATOM	6810	N	SER	851	-71.952	41.483	41.827	1.00165.35	N
ATOM	6811	CA	SER	851	-73.254	40.936	42.112	1.00165.35	C
ATOM	6812	CB	SER	851	-73.497	40.704	43.612	1.00165.35	C
ATOM	6813	OG	SER	851	-74.793	40.162	43.818	1.00165.35	O
ATOM	6814	C	SER	851	-74.359	41.838	41.624	1.00165.35	C
ATOM	6815	O	SER	851	-74.253	43.062	41.639	1.00165.35	O
ATOM	6816	N	LEU	852	-75.434	41.200	41.107	1.00359.53	N
ATOM	6817	CA	LEU	852	-76.661	41.782	40.624	1.00359.53	C
ATOM	6818	CB	LEU	852	-77.427	40.911	39.606	1.00359.53	C
ATOM	6819	CG	LEU	852	-76.730	40.768	38.237	1.00359.53	C
ATOM	6820	CD1	LEU	852	-76.440	42.139	37.610	1.00359.53	C
ATOM	6821	CD2	LEU	852	-75.497	39.858	38.296	1.00359.53	C
ATOM	6822	C	LEU	852	-77.611	42.145	41.727	1.00359.53	C
ATOM	6823	O	LEU	852	-78.596	42.842	41.481	1.00359.53	O
ATOM	6824	N	ILE	853	-77.409	41.585	42.937	1.00376.96	N
ATOM	6825	CA	ILE	853	-78.295	41.800	44.053	1.00376.96	C
ATOM	6826	CB	ILE	853	-77.700	41.457	45.380	1.00376.96	C
ATOM	6827	CG1	ILE	853	-77.353	39.981	45.520	1.00376.96	C
ATOM	6828	CG2	ILE	853	-78.684	41.922	46.446	1.00376.96	C
ATOM	6829	CD1	ILE	853	-76.644	39.729	46.844	1.00376.96	C
ATOM	6830	C	ILE	853	-78.654	43.245	44.184	1.00376.96	C
ATOM	6831	O	ILE	853	-77.809	44.129	44.056	1.00376.96	O
ATOM	6832	N	GLY	854	-79.952	43.504	44.447	1.00380.69	N
ATOM	6833	CA	GLY	854	-80.427	44.838	44.677	1.00380.69	C
ATOM	6834	C	GLY	854	-81.050	45.374	43.429	1.00380.69	C
ATOM	6835	O	GLY	854	-81.763	46.375	43.477	1.00380.69	O
ATOM	6836	N	HIS	855	-80.788	44.729	42.277	1.00363.79	N
ATOM	6837	CA	HIS	855	-81.354	45.174	41.034	1.00363.79	C
ATOM	6838	ND1	HIS	855	-78.092	45.300	40.437	1.00363.79	N
ATOM	6839	CG	HIS	855	-79.224	45.578	39.705	1.00363.79	C
ATOM	6840	CB	HIS	855	-80.506	44.805	39.801	1.00363.79	C
ATOM	6841	NE2	HIS	855	-77.603	47.050	39.156	1.00363.79	N
ATOM	6842	CD2	HIS	855	-78.908	46.650	38.927	1.00363.79	C
ATOM	6843	CE1	HIS	855	-77.154	46.210	40.071	1.00363.79	C
ATOM	6844	C	HIS	855	-82.696	44.534	40.866	1.00363.79	C
ATOM	6845	O	HIS	855	-82.955	43.459	41.404	1.00363.79	O
ATOM	6846	N	ARG	856	-83.603	45.217	40.137	1.00284.59	N
ATOM	6847	CA	ARG	856	-84.919	44.704	39.876	1.00284.59	C
ATOM	6848	CB	ARG	856	-85.863	45.730	39.226	1.00284.59	C
ATOM	6849	CG	ARG	856	-86.535	46.654	40.244	1.00284.59	C
ATOM	6850	CD	ARG	856	-85.563	47.521	41.044	1.00284.59	C
ATOM	6851	NE	ARG	856	-85.498	48.858	40.394	1.00284.59	N
ATOM	6852	CZ	ARG	856	-84.779	49.855	40.987	1.00284.59	C
ATOM	6853	NH1	ARG	856	-84.104	49.604	42.148	1.00284.59	N
ATOM	6854	NH2	ARG	856	-84.734	51.097	40.425	1.00284.59	N
ATOM	6855	C	ARG	856	-84.859	43.506	38.982	1.00284.59	C
ATOM	6856	O	ARG	856	-85.593	42.543	39.201	1.00284.59	O
ATOM	6857	N	PRO	857	-84.031	43.511	37.974	1.00112.91	N
ATOM	6858	CA	PRO	857	-83.986	42.374	37.105	1.00112.91	C
ATOM	6859	CD	PRO	857	-83.663	44.725	37.273	1.00112.91	C
ATOM	6860	CB	PRO	857	-83.135	42.791	35.899	1.00112.91	C
ATOM	6861	CG	PRO	857	-82.649	44.219	36.233	1.00112.91	C
ATOM	6862	C	PRO	857	-83.551	41.144	37.828	1.00112.91	C
ATOM	6863	O	PRO	857	-84.036	40.062	37.499	1.00112.91	O
ATOM	6864	N	ARG	858	-82.633	41.277	38.802	1.00235.17	N
ATOM	6865	CA	ARG	858	-82.222	40.133	39.558	1.00235.17	C
ATOM	6866	CB	ARG	858	-81.032	40.375	40.494	1.00235.17	C
ATOM	6867	CG	ARG	858	-80.606	39.060	41.140	1.00235.17	C
ATOM	6868	CD	ARG	858	-79.681	39.186	42.342	1.00235.17	C

ATOM	6869	NE	ARG	858	-79.410	37.794	42.795	1.00235.17	N
ATOM	6870	CZ	ARG	858	-80.268	37.169	43.651	1.00235.17	C
ATOM	6871	NH1	ARG	858	-81.386	37.821	44.080	1.00235.17	N
ATOM	6872	NH2	ARG	858	-80.008	35.900	44.077	1.00235.17	N
ATOM	6873	C	ARG	858	-83.362	39.707	40.427	1.00235.17	C
ATOM	6874	O	ARG	858	-83.580	38.518	40.650	1.00235.17	O
ATOM	6875	N	THR	859	-84.115	40.686	40.957	1.00178.20	N
ATOM	6876	CA	THR	859	-85.196	40.388	41.848	1.00178.20	C
ATOM	6877	CB	THR	859	-85.907	41.620	42.325	1.00178.20	C
ATOM	6878	OG1	THR	859	-85.003	42.479	43.001	1.00178.20	O
ATOM	6879	CG2	THR	859	-87.046	41.195	43.268	1.00178.20	C
ATOM	6880	C	THR	859	-86.195	39.559	41.114	1.00178.20	C
ATOM	6881	O	THR	859	-86.695	38.564	41.638	1.00178.20	O
ATOM	6882	N	THR	860	-86.510	39.941	39.868	1.00149.45	N
ATOM	6883	CA	THR	860	-87.490	39.192	39.147	1.00149.45	C
ATOM	6884	CB	THR	860	-87.853	39.785	37.813	1.00149.45	C
ATOM	6885	OG1	THR	860	-88.987	39.115	37.288	1.00149.45	O
ATOM	6886	CG2	THR	860	-86.670	39.649	36.842	1.00149.45	C
ATOM	6887	C	THR	860	-86.986	37.802	38.913	1.00149.45	C
ATOM	6888	O	THR	860	-87.745	36.843	39.045	1.00149.45	O
ATOM	6889	N	TRP	861	-85.691	37.634	38.564	1.00315.12	N
ATOM	6890	CA	TRP	861	-85.264	36.304	38.228	1.00315.12	C
ATOM	6891	CB	TRP	861	-83.890	36.179	37.514	1.00315.12	C
ATOM	6892	CG	TRP	861	-82.607	36.222	38.317	1.00315.12	C
ATOM	6893	CD2	TRP	861	-81.784	35.070	38.577	1.00315.12	C
ATOM	6894	CD1	TRP	861	-81.938	37.286	38.837	1.00315.12	C
ATOM	6895	NE1	TRP	861	-80.767	36.870	39.424	1.00315.12	N
ATOM	6896	CE2	TRP	861	-80.654	35.510	39.263	1.00315.12	C
ATOM	6897	CE3	TRP	861	-81.947	33.755	38.257	1.00315.12	C
ATOM	6898	CZ2	TRP	861	-79.665	34.644	39.639	1.00315.12	C
ATOM	6899	CZ3	TRP	861	-80.954	32.885	38.651	1.00315.12	C
ATOM	6900	CH2	TRP	861	-79.834	33.316	39.327	1.00315.12	C
ATOM	6901	C	TRP	861	-85.282	35.419	39.433	1.00315.12	C
ATOM	6902	O	TRP	861	-85.689	34.262	39.345	1.00315.12	O
ATOM	6903	N	ALA	862	-84.859	35.934	40.602	1.0091.92	N
ATOM	6904	CA	ALA	862	-84.795	35.095	41.769	1.0091.92	C
ATOM	6905	CB	ALA	862	-84.239	35.822	43.006	1.0091.92	C
ATOM	6906	C	ALA	862	-86.163	34.591	42.123	1.0091.92	C
ATOM	6907	O	ALA	862	-86.328	33.438	42.521	1.0091.92	O
ATOM	6908	N	GLU	863	-87.181	35.461	42.022	1.00135.86	N
ATOM	6909	CA	GLU	863	-88.524	35.087	42.357	1.00135.86	C
ATOM	6910	CB	GLU	863	-89.480	36.288	42.354	1.00135.86	C
ATOM	6911	CG	GLU	863	-90.917	35.917	42.716	1.00135.86	C
ATOM	6912	CD	GLU	863	-91.768	37.171	42.587	1.00135.86	C
ATOM	6913	OE1	GLU	863	-91.456	38.174	43.282	1.00135.86	O
ATOM	6914	OE2	GLU	863	-92.739	37.143	41.785	1.00135.86	O
ATOM	6915	C	GLU	863	-89.076	34.096	41.374	1.00135.86	C
ATOM	6916	O	GLU	863	-89.785	33.172	41.768	1.00135.86	O
ATOM	6917	N	ASN	864	-88.785	34.261	40.065	1.00126.17	N
ATOM	6918	CA	ASN	864	-89.415	33.411	39.086	1.00126.17	C
ATOM	6919	CB	ASN	864	-89.868	34.215	37.855	1.00126.17	C
ATOM	6920	CG	ASN	864	-90.857	35.279	38.309	1.00126.17	C
ATOM	6921	OD1	ASN	864	-91.973	34.974	38.721	1.00126.17	O
ATOM	6922	ND2	ASN	864	-90.432	36.570	38.238	1.00126.17	N
ATOM	6923	C	ASN	864	-88.440	32.395	38.563	1.00126.17	C
ATOM	6924	O	ASN	864	-88.491	32.031	37.389	1.00126.17	O
ATOM	6925	N	ILE	865	-87.550	31.874	39.421	1.00183.10	N
ATOM	6926	CA	ILE	865	-86.571	30.906	39.006	1.00183.10	C
ATOM	6927	CB	ILE	865	-85.491	30.670	40.031	1.00183.10	C
ATOM	6928	CG1	ILE	865	-84.325	29.888	39.402	1.00183.10	C
ATOM	6929	CG2	ILE	865	-86.113	29.976	41.256	1.00183.10	C
ATOM	6930	CD1	ILE	865	-83.610	30.635	38.276	1.00183.10	C
ATOM	6931	C	ILE	865	-87.229	29.598	38.666	1.00183.10	C
ATOM	6932	O	ILE	865	-86.805	28.891	37.754	1.00183.10	O
ATOM	6933	N	LYS	866	-88.295	29.236	39.398	1.00149.25	N
ATOM	6934	CA	LYS	866	-88.929	27.959	39.239	1.00149.25	C

ATOM	6935	CB	LYS	866	-90.156	27.795	40.152	1.00149.25	C
ATOM	6936	CG	LYS	866	-89.807	27.793	41.641	1.00149.25	C
ATOM	6937	CD	LYS	866	-88.854	26.663	42.038	1.00149.25	C
ATOM	6938	CE	LYS	866	-89.542	25.310	42.224	1.00149.25	C
ATOM	6939	NZ	LYS	866	-90.237	25.270	43.530	1.00149.25	N
ATOM	6940	C	LYS	866	-89.400	27.779	37.825	1.00149.25	C
ATOM	6941	O	LYS	866	-89.340	26.671	37.294	1.00149.25	O
ATOM	6942	N	ASP	867	-89.907	28.844	37.173	1.00101.46	N
ATOM	6943	CA	ASP	867	-90.412	28.660	35.841	1.00101.46	C
ATOM	6944	CB	ASP	867	-91.169	29.883	35.268	1.00101.46	C
ATOM	6945	CG	ASP	867	-90.256	31.084	35.046	1.00101.46	C
ATOM	6946	OD1	ASP	867	-89.388	31.023	34.135	1.00101.46	O
ATOM	6947	OD2	ASP	867	-90.440	32.097	35.771	1.00101.46	O
ATOM	6948	C	ASP	867	-89.300	28.293	34.905	1.00101.46	C
ATOM	6949	O	ASP	867	-89.472	27.429	34.047	1.00101.46	O
ATOM	6950	N	THR	868	-88.121	28.928	35.049	1.00 98.16	N
ATOM	6951	CA	THR	868	-87.037	28.655	34.147	1.00 98.16	C
ATOM	6952	CB	THR	868	-85.848	29.566	34.324	1.00 98.16	C
ATOM	6953	OG1	THR	868	-84.966	29.432	33.220	1.00 98.16	O
ATOM	6954	CG2	THR	868	-85.110	29.215	35.626	1.00 98.16	C
ATOM	6955	C	THR	868	-86.581	27.241	34.337	1.00 98.16	C
ATOM	6956	O	THR	868	-86.280	26.546	33.368	1.00 98.16	O
ATOM	6957	N	VAL	869	-86.531	26.773	35.598	1.00 32.72	N
ATOM	6958	CA	VAL	869	-86.079	25.443	35.895	1.00 32.72	C
ATOM	6959	CB	VAL	869	-86.097	25.141	37.364	1.00 32.72	C
ATOM	6960	CG1	VAL	869	-85.734	23.660	37.561	1.00 32.72	C
ATOM	6961	CG2	VAL	869	-85.146	26.118	38.076	1.00 32.72	C
ATOM	6962	C	VAL	869	-86.990	24.467	35.222	1.00 32.72	C
ATOM	6963	O	VAL	869	-86.537	23.477	34.649	1.00 32.72	O
ATOM	6964	N	ASN	870	-88.309	24.728	35.275	1.00 35.47	N
ATOM	6965	CA	ASN	870	-89.277	23.844	34.691	1.00 35.47	C
ATOM	6966	CB	ASN	870	-90.730	24.291	34.932	1.00 35.47	C
ATOM	6967	CG	ASN	870	-91.070	24.065	36.397	1.00 35.47	C
ATOM	6968	OD1	ASN	870	-90.518	23.178	37.046	1.00 35.47	O
ATOM	6969	ND2	ASN	870	-92.015	24.882	36.935	1.00 35.47	N
ATOM	6970	C	ASN	870	-89.074	23.797	33.210	1.00 35.47	C
ATOM	6971	O	ASN	870	-89.207	22.739	32.598	1.00 35.47	O
ATOM	6972	N	MET	871	-88.746	24.947	32.588	1.00 70.70	N
ATOM	6973	CA	MET	871	-88.607	24.973	31.160	1.00 70.70	C
ATOM	6974	CB	MET	871	-88.237	26.357	30.594	1.00 70.70	C
ATOM	6975	CG	MET	871	-89.342	27.407	30.723	1.00 70.70	C
ATOM	6976	SD	MET	871	-88.970	28.985	29.901	1.00 70.70	S
ATOM	6977	CE	MET	871	-87.709	29.511	31.097	1.00 70.70	C
ATOM	6978	C	MET	871	-87.502	24.050	30.759	1.00 70.70	C
ATOM	6979	O	MET	871	-87.644	23.290	29.803	1.00 70.70	O
ATOM	6980	N	VAL	872	-86.369	24.092	31.485	1.00 48.89	N
ATOM	6981	CA	VAL	872	-85.248	23.268	31.141	1.00 48.89	C
ATOM	6982	CB	VAL	872	-84.043	23.523	32.000	1.00 48.89	C
ATOM	6983	CG1	VAL	872	-82.966	22.483	31.644	1.00 48.89	C
ATOM	6984	CG2	VAL	872	-83.592	24.981	31.794	1.00 48.89	C
ATOM	6985	C	VAL	872	-85.622	21.829	31.299	1.00 48.89	C
ATOM	6986	O	VAL	872	-85.309	20.999	30.448	1.00 48.89	O
ATOM	6987	N	ARG	873	-86.327	21.484	32.389	1.00186.32	N
ATOM	6988	CA	ARG	873	-86.636	20.099	32.586	1.00186.32	C
ATOM	6989	CB	ARG	873	-87.144	19.742	34.002	1.00186.32	C
ATOM	6990	CG	ARG	873	-88.351	20.504	34.536	1.00186.32	C
ATOM	6991	CD	ARG	873	-88.659	20.170	36.003	1.00186.32	C
ATOM	6992	NE	ARG	873	-87.445	20.491	36.810	1.00186.32	N
ATOM	6993	CZ	ARG	873	-87.514	20.580	38.173	1.00186.32	C
ATOM	6994	NH1	ARG	873	-88.697	20.384	38.824	1.00186.32	N
ATOM	6995	NH2	ARG	873	-86.395	20.871	38.896	1.00186.32	N
ATOM	6996	C	ARG	873	-87.529	19.596	31.495	1.00186.32	C
ATOM	6997	O	ARG	873	-87.414	18.439	31.091	1.00186.32	O
ATOM	6998	N	ARG	874	-88.437	20.444	30.977	1.00116.51	N
ATOM	6999	CA	ARG	874	-89.310	20.015	29.920	1.00116.51	C
ATOM	7000	CB	ARG	874	-90.283	21.122	29.478	1.00116.51	C

ATOM	7001	CG	ARG	874	-91.262	21.552	30.569	1.00116.51	C
ATOM	7002	CD	ARG	874	-92.127	22.747	30.166	1.00116.51	C
ATOM	7003	NE	ARG	874	-91.202	23.883	29.894	1.00116.51	N
ATOM	7004	CZ	ARG	874	-90.681	24.053	28.644	1.00116.51	C
ATOM	7005	NH1	ARG	874	-91.054	23.218	27.630	1.00116.51	N
ATOM	7006	NH2	ARG	874	-89.788	25.058	28.406	1.00116.51	N
ATOM	7007	C	ARG	874	-88.488	19.655	28.717	1.00116.51	C
ATOM	7008	O	ARG	874	-88.735	18.630	28.083	1.00116.51	O
ATOM	7009	N	ILE	875	-87.485	20.488	28.363	1.00102.07	N
ATOM	7010	CA	ILE	875	-86.718	20.217	27.177	1.00102.07	C
ATOM	7011	CB	ILE	875	-85.733	21.291	26.787	1.00102.07	C
ATOM	7012	CG1	ILE	875	-84.619	21.449	27.835	1.00102.07	C
ATOM	7013	CG2	ILE	875	-86.515	22.581	26.510	1.00102.07	C
ATOM	7014	CD1	ILE	875	-83.410	22.234	27.329	1.00102.07	C
ATOM	7015	C	ILE	875	-85.920	18.964	27.344	1.00102.07	C
ATOM	7016	O	ILE	875	-85.884	18.136	26.435	1.00102.07	O
ATOM	7017	N	ILE	876	-85.252	18.777	28.504	1.00204.75	N
ATOM	7018	CA	ILE	876	-84.413	17.616	28.585	1.00204.75	C
ATOM	7019	CB	ILE	876	-83.486	17.531	29.779	1.00204.75	C
ATOM	7020	CG1	ILE	876	-84.188	17.195	31.089	1.00204.75	C
ATOM	7021	CG2	ILE	876	-82.680	18.833	29.838	1.00204.75	C
ATOM	7022	CD1	ILE	876	-84.354	15.684	31.217	1.00204.75	C
ATOM	7023	C	ILE	876	-85.318	16.427	28.506	1.00204.75	C
ATOM	7024	O	ILE	876	-84.992	15.445	27.842	1.00204.75	O
ATOM	7025	N	GLY	877	-86.489	16.478	29.178	1.0056.44	N
ATOM	7026	CA	GLY	877	-87.426	15.406	28.982	1.0056.44	C
ATOM	7027	C	GLY	877	-87.743	14.721	30.268	1.0056.44	C
ATOM	7028	O	GLY	877	-87.315	15.135	31.342	1.0056.44	O
ATOM	7029	N	ASP	878	-88.537	13.633	30.172	1.0086.63	N
ATOM	7030	CA	ASP	878	-88.903	12.896	31.341	1.0086.63	C
ATOM	7031	CB	ASP	878	-90.052	11.889	31.115	1.0086.63	C
ATOM	7032	CG	ASP	878	-89.683	10.887	30.027	1.0086.63	C
ATOM	7033	OD1	ASP	878	-88.764	11.187	29.217	1.0086.63	O
ATOM	7034	OD2	ASP	878	-90.333	9.809	29.984	1.0086.63	O
ATOM	7035	C	ASP	878	-87.682	12.191	31.815	1.0086.63	C
ATOM	7036	O	ASP	878	-87.217	11.216	31.226	1.0086.63	O
ATOM	7037	N	GLU	879	-87.117	12.711	32.915	1.00160.32	N
ATOM	7038	CA	GLU	879	-85.913	12.178	33.457	1.00160.32	C
ATOM	7039	CB	GLU	879	-84.680	13.055	33.179	1.00160.32	C
ATOM	7040	CG	GLU	879	-83.358	12.426	33.621	1.00160.32	C
ATOM	7041	CD	GLU	879	-83.056	11.241	32.716	1.00160.32	C
ATOM	7042	OE1	GLU	879	-82.890	11.458	31.488	1.00160.32	O
ATOM	7043	OE2	GLU	879	-82.984	10.099	33.242	1.00160.32	O
ATOM	7044	C	GLU	879	-86.123	12.100	34.920	1.00160.32	C
ATOM	7045	O	GLU	879	-87.159	12.518	35.434	1.00160.32	O
ATOM	7046	N	GLU	880	-85.127	11.566	35.642	1.00125.54	N
ATOM	7047	CA	GLU	880	-85.392	11.310	37.011	1.00125.54	C
ATOM	7048	CB	GLU	880	-85.127	9.856	37.425	1.00125.54	C
ATOM	7049	CG	GLU	880	-86.069	8.834	36.791	1.00125.54	C
ATOM	7050	CD	GLU	880	-85.616	7.461	37.269	1.00125.54	C
ATOM	7051	OE1	GLU	880	-84.632	7.409	38.056	1.00125.54	O
ATOM	7052	OE2	GLU	880	-86.242	6.450	36.854	1.00125.54	O
ATOM	7053	C	GLU	880	-84.556	12.114	37.912	1.00125.54	C
ATOM	7054	O	GLU	880	-83.720	12.937	37.522	1.00125.54	O
ATOM	7055	N	LYS	881	-84.867	11.861	39.191	1.00306.94	N
ATOM	7056	CA	LYS	881	-84.242	12.453	40.309	1.00306.94	C
ATOM	7057	CB	LYS	881	-82.840	11.913	40.628	1.00306.94	C
ATOM	7058	CG	LYS	881	-82.385	12.305	42.034	1.00306.94	C
ATOM	7059	CD	LYS	881	-83.271	11.737	43.147	1.00306.94	C
ATOM	7060	CE	LYS	881	-83.387	10.212	43.122	1.00306.94	C
ATOM	7061	NZ	LYS	881	-82.082	9.601	43.454	1.00306.94	N
ATOM	7062	C	LYS	881	-84.197	13.897	40.034	1.00306.94	C
ATOM	7063	O	LYS	881	-83.171	14.546	40.204	1.00306.94	O
ATOM	7064	N	TYR	882	-85.321	14.463	39.572	1.00167.45	N
ATOM	7065	CA	TYR	882	-85.185	15.869	39.506	1.00167.45	C
ATOM	7066	CB	TYR	882	-86.351	16.644	38.869	1.00167.45	C

ATOM	7067	CG	TYR	882	-86.300	16.540	37.394	1.00167.45	C
ATOM	7068	CD1	TYR	882	-85.544	17.448	36.694	1.00167.45	C
ATOM	7069	CD2	TYR	882	-86.986	15.561	36.719	1.00167.45	C
ATOM	7070	CE1	TYR	882	-85.475	17.390	35.327	1.00167.45	C
ATOM	7071	CE2	TYR	882	-86.922	15.498	35.349	1.00167.45	C
ATOM	7072	CZ	TYR	882	-86.168	16.414	34.661	1.00167.45	C
ATOM	7073	OH	TYR	882	-86.103	16.357	33.259	1.00167.45	O
ATOM	7074	C	TYR	882	-85.289	16.206	40.938	1.00167.45	C
ATOM	7075	O	TYR	882	-86.295	15.904	41.575	1.00167.45	O
ATOM	7076	N	MET	883	-84.210	16.760	41.509	1.00114.18	N
ATOM	7077	CA	MET	883	-84.320	17.085	42.889	1.00114.18	C
ATOM	7078	CB	MET	883	-83.194	16.536	43.790	1.00114.18	C
ATOM	7079	CG	MET	883	-81.823	17.192	43.624	1.00114.18	C
ATOM	7080	SD	MET	883	-80.621	16.689	44.897	1.00114.18	S
ATOM	7081	CE	MET	883	-80.424	14.981	44.314	1.00114.18	C
ATOM	7082	C	MET	883	-84.342	18.568	42.982	1.00114.18	C
ATOM	7083	O	MET	883	-83.714	19.268	42.190	1.00114.18	O
ATOM	7084	N	ASP	884	-85.115	19.073	43.957	1.0081.26	N
ATOM	7085	CA	ASP	884	-85.288	20.478	44.140	0.8881.26	C
ATOM	7086	CB	ASP	884	-86.674	20.811	44.720	0.8881.26	C
ATOM	7087	CG	ASP	884	-86.865	22.318	44.747	0.8881.26	C
ATOM	7088	OD1	ASP	884	-85.888	23.046	44.434	0.8881.26	O
ATOM	7089	OD2	ASP	884	-87.995	22.761	45.084	0.8881.26	O
ATOM	7090	C	ASP	884	-84.251	20.949	45.113	1.0081.26	C
ATOM	7091	O	ASP	884	-84.328	20.681	46.310	1.0081.26	O
ATOM	7092	N	TYR	885	-83.217	21.616	44.571	1.00117.45	N
ATOM	7093	CA	TYR	885	-82.106	22.221	45.250	1.00117.45	C
ATOM	7094	CB	TYR	885	-80.912	22.518	44.328	1.00117.45	C
ATOM	7095	CG	TYR	885	-80.347	21.212	43.888	1.00117.45	C
ATOM	7096	CD1	TYR	885	-79.437	20.550	44.678	1.00117.45	C
ATOM	7097	CD2	TYR	885	-80.736	20.638	42.699	1.00117.45	C
ATOM	7098	CE1	TYR	885	-78.910	19.343	44.283	1.00117.45	C
ATOM	7099	CE2	TYR	885	-80.212	19.432	42.300	1.00117.45	C
ATOM	7100	CZ	TYR	885	-79.296	18.783	43.090	1.00117.45	C
ATOM	7101	OH	TYR	885	-78.757	17.544	42.683	1.00117.45	O
ATOM	7102	C	TYR	885	-82.489	23.512	45.910	1.00117.45	C
ATOM	7103	O	TYR	885	-81.810	23.956	46.833	1.00117.45	O
ATOM	7104	N	LEU	886	-83.547	24.180	45.411	1.00144.01	N
ATOM	7105	CA	LEU	886	-83.908	25.510	45.829	1.00144.01	C
ATOM	7106	CB	LEU	886	-85.156	26.040	45.106	1.00144.01	C
ATOM	7107	CG	LEU	886	-84.924	26.266	43.598	1.00144.01	C
ATOM	7108	CD1	LEU	886	-84.683	24.941	42.857	1.00144.01	C
ATOM	7109	CD2	LEU	886	-86.047	27.110	42.974	1.00144.01	C
ATOM	7110	C	LEU	886	-84.139	25.586	47.315	1.00144.01	C
ATOM	7111	O	LEU	886	-83.816	26.602	47.930	1.00144.01	O
ATOM	7112	N	SER	887	-84.697	24.534	47.942	1.00107.14	N
ATOM	7113	CA	SER	887	-84.975	24.550	49.357	1.00107.14	C
ATOM	7114	CB	SER	887	-85.751	23.300	49.818	1.00107.14	C
ATOM	7115	OG	SER	887	-84.982	22.127	49.595	1.00107.14	O
ATOM	7116	C	SER	887	-83.698	24.627	50.157	1.00107.14	C
ATOM	7117	O	SER	887	-83.727	24.847	51.365	1.00107.14	O
ATOM	7118	N	THR	888	-82.529	24.444	49.524	1.00103.66	N
ATOM	7119	CA	THR	888	-81.274	24.487	50.229	1.00103.66	C
ATOM	7120	CB	THR	888	-80.112	24.188	49.329	1.00103.66	C
ATOM	7121	OG1	THR	888	-80.264	22.902	48.744	1.00103.66	O
ATOM	7122	CG2	THR	888	-78.821	24.246	50.157	1.00103.66	C
ATOM	7123	C	THR	888	-81.075	25.866	50.784	1.00103.66	C
ATOM	7124	O	THR	888	-80.451	26.025	51.834	1.00103.66	O
ATOM	7125	N	GLN	889	-81.556	26.898	50.053	1.00174.95	N
ATOM	7126	CA	GLN	889	-81.437	28.262	50.492	1.00174.95	C
ATOM	7127	CB	GLN	889	-81.384	29.298	49.359	1.00174.95	C
ATOM	7128	CG	GLN	889	-82.663	29.406	48.538	1.00174.95	C
ATOM	7129	CD	GLN	889	-82.419	30.493	47.505	1.00174.95	C
ATOM	7130	OE1	GLN	889	-81.812	30.251	46.463	1.00174.95	O
ATOM	7131	NE2	GLN	889	-82.886	31.733	47.809	1.00174.95	N
ATOM	7132	C	GLN	889	-82.610	28.579	51.371	1.00174.95	C

ATOM	7133	O	GLN	889	-83.662	27.952	51.276	1.00174.95	O
ATOM	7134	N	VAL	890	-82.442	29.577	52.259	1.00211.60	N
ATOM	7135	CA	VAL	890	-83.400	29.897	53.283	1.00211.60	C
ATOM	7136	CB	VAL	890	-82.889	30.920	54.253	1.00211.60	C
ATOM	7137	CG1	VAL	890	-82.606	32.225	53.489	1.00211.60	C
ATOM	7138	CG2	VAL	890	-83.922	31.073	55.383	1.00211.60	C
ATOM	7139	C	VAL	890	-84.723	30.387	52.774	1.00211.60	C
ATOM	7140	O	VAL	890	-85.766	29.967	53.271	1.00211.60	O
ATOM	7141	N	ARG	891	-84.731	31.266	51.761	1.00273.36	N
ATOM	7142	CA	ARG	891	-85.963	31.889	51.373	1.00273.36	C
ATOM	7143	CB	ARG	891	-85.776	32.848	50.198	1.00273.36	C
ATOM	7144	CG	ARG	891	-87.077	33.512	49.778	1.00273.36	C
ATOM	7145	CD	ARG	891	-86.892	34.469	48.607	1.00273.36	C
ATOM	7146	NE	ARG	891	-86.439	33.663	47.443	1.00273.36	N
ATOM	7147	CZ	ARG	891	-86.299	34.264	46.226	1.00273.36	C
ATOM	7148	NH1	ARG	891	-86.556	35.598	46.094	1.00273.36	N
ATOM	7149	NH2	ARG	891	-85.899	33.533	45.146	1.00273.36	N
ATOM	7150	C	ARG	891	-86.961	30.852	50.965	1.00273.36	C
ATOM	7151	O	ARG	891	-88.127	30.903	51.355	1.00273.36	O
ATOM	7152	N	TYR	892	-86.499	29.874	50.176	1.00281.91	N
ATOM	7153	CA	TYR	892	-87.280	28.799	49.646	1.00281.91	C
ATOM	7154	CB	TYR	892	-86.440	27.947	48.681	1.00281.91	C
ATOM	7155	CG	TYR	892	-86.175	28.793	47.477	1.00281.91	C
ATOM	7156	CD1	TYR	892	-85.385	29.920	47.528	1.00281.91	C
ATOM	7157	CD2	TYR	892	-86.709	28.440	46.267	1.00281.91	C
ATOM	7158	CE1	TYR	892	-85.153	30.684	46.404	1.00281.91	C
ATOM	7159	CE2	TYR	892	-86.480	29.197	45.144	1.00281.91	C
ATOM	7160	CZ	TYR	892	-85.705	30.326	45.201	1.00281.91	C
ATOM	7161	OH	TYR	892	-85.476	31.099	44.043	1.00281.91	O
ATOM	7162	C	TYR	892	-87.772	27.935	50.769	1.00281.91	C
ATOM	7163	O	TYR	892	-88.866	27.388	50.690	1.00281.91	O
ATOM	7164	N	LEU	893	-86.953	27.732	51.818	1.00252.96	N
ATOM	7165	CA	LEU	893	-87.310	26.916	52.951	1.00252.96	C
ATOM	7166	CB	LEU	893	-86.168	26.778	53.976	1.00252.96	C
ATOM	7167	CG	LEU	893	-85.043	25.818	53.565	1.00252.96	C
ATOM	7168	CD1	LEU	893	-83.918	25.797	54.613	1.00252.96	C
ATOM	7169	CD2	LEU	893	-85.606	24.410	53.309	1.00252.96	C
ATOM	7170	C	LEU	893	-88.445	27.522	53.708	1.00252.96	C
ATOM	7171	O	LEU	893	-89.373	26.820	54.100	1.00252.96	O
ATOM	7172	N	GLY	894	-88.378	28.839	53.963	1.00787.66	N
ATOM	7173	CA	GLY	894	-89.418	29.512	54.685	1.00787.66	C
ATOM	7174	C	GLY	894	-90.647	29.464	53.846	1.00787.66	C
ATOM	7175	O	GLY	894	-91.763	29.413	54.357	1.00787.66	O
ATOM	7176	N	GLU	895	-90.469	29.543	52.518	1.00512.90	N
ATOM	7177	CA	GLU	895	-91.587	29.512	51.632	1.00512.90	C
ATOM	7178	CB	GLU	895	-91.257	29.832	50.162	1.00512.90	C
ATOM	7179	CG	GLU	895	-92.513	29.823	49.284	1.00512.90	C
ATOM	7180	CD	GLU	895	-92.147	30.229	47.863	1.00512.90	C
ATOM	7181	OE1	GLU	895	-91.093	30.896	47.686	1.00512.90	O
ATOM	7182	OE2	GLU	895	-92.926	29.881	46.935	1.00512.90	O
ATOM	7183	C	GLU	895	-92.243	28.173	51.657	1.00512.90	C
ATOM	7184	O	GLU	895	-93.434	28.114	51.390	1.00512.90	O
ATOM	7185	N	GLU	896	-91.498	27.060	51.838	1.00671.97	N
ATOM	7186	CA	GLU	896	-92.090	25.745	51.929	1.00671.97	C
ATOM	7187	CB	GLU	896	-91.123	24.573	51.656	1.00671.97	C
ATOM	7188	CG	GLU	896	-90.889	24.266	50.170	1.00671.97	C
ATOM	7189	CD	GLU	896	-89.608	24.937	49.696	1.00671.97	C
ATOM	7190	OE1	GLU	896	-88.540	24.659	50.304	1.00671.97	O
ATOM	7191	OE2	GLU	896	-89.676	25.721	48.712	1.00671.97	O
ATOM	7192	C	GLU	896	-92.728	25.485	53.260	1.00671.97	C
ATOM	7193	O	GLU	896	-93.748	24.806	53.335	1.00671.97	O
ATOM	7194	N	GLY	897	-92.117	25.946	54.367	1.00744.01	N
ATOM	7195	CA	GLY	897	-92.713	25.664	55.642	1.00744.01	C
ATOM	7196	C	GLY	897	-94.012	26.393	55.767	1.00744.01	C
ATOM	7197	O	GLY	897	-95.010	25.828	56.210	1.00744.01	O
ATOM	7198	N	SER	898	-94.008	27.692	55.414	1.00515.56	N

ATOM	7199	CA	SER	898	-95.169	28.525	55.515	1.00	51.56	C
ATOM	7200	CB	SER	898	-94.843	30.005	55.244	1.00	51.56	C
ATOM	7201	OG	SER	898	-96.014	30.800	55.357	1.00	51.56	O
ATOM	7202	C	SER	898	-96.237	28.121	54.549	1.00	51.56	C
ATOM	7203	O	SER	898	-97.238	27.512	54.926	1.00	51.56	O
ATOM	7204	N	THR	899	-96.028	28.421	53.253	1.00131.66		N
ATOM	7205	CA	THR	899	-97.088	28.202	52.315	1.00131.66		C
ATOM	7206	CB	THR	899	-96.939	28.926	50.989	1.00131.66		C
ATOM	7207	OG1	THR	899	-95.725	28.626	50.321	1.00131.66		O
ATOM	7208	CG2	THR	899	-97.013	30.436	51.269	1.00131.66		C
ATOM	7209	C	THR	899	-97.438	26.749	52.154	1.00131.66		C
ATOM	7210	O	THR	899	-98.629	26.449	52.112	1.00131.66		O
ATOM	7211	N	PRO	900	-96.536	25.808	52.066	1.00128.34		N
ATOM	7212	CA	PRO	900	-97.000	24.458	51.931	1.00128.34		C
ATOM	7213	CD	PRO	900	-95.305	26.003	51.320	1.00128.34		C
ATOM	7214	CB	PRO	900	-95.810	23.636	51.447	1.00128.34		C
ATOM	7215	CG	PRO	900	-94.987	24.658	50.648	1.00128.34		C
ATOM	7216	C	PRO	900	-97.695	23.882	53.127	1.00128.34		C
ATOM	7217	O	PRO	900	-98.524	22.992	52.942	1.00128.34		O
ATOM	7218	N	GLY	901	-97.377	24.338	54.351	1.00	38.92	N
ATOM	7219	CA	GLY	901	-97.984	23.759	55.512	1.00	38.92	C
ATOM	7220	C	GLY	901	-99.442	24.037	55.467	1.00	38.92	C
ATOM	7221	O	GLY	901	-100.261	23.150	55.700	1.00	38.92	O
ATOM	7222	N	VAL	902	-99.808	25.291	55.151	1.00202.98		N
ATOM	7223	CA	VAL	902	-101.200	25.587	55.120	1.00202.98		C
ATOM	7224	CB	VAL	902	-101.530	26.938	55.689	1.00202.98		C
ATOM	7225	CG1	VAL	902	-101.237	26.893	57.200	1.00202.98		C
ATOM	7226	CG2	VAL	902	-100.703	28.013	54.961	1.00202.98		C
ATOM	7227	C	VAL	902	-101.656	25.493	53.702	1.00202.98		C
ATOM	7228	O	VAL	902	-101.452	26.390	52.886	1.00202.98		O
ATOM	7229	N	LEU	903	-102.333	24.381	53.379	1.00	48.89	N
ATOM	7230	CA	LEU	903	-102.777	24.185	52.035	1.00	48.89	C
ATOM	7231	CB	LEU	903	-103.674	25.321	51.520	1.00	48.89	C
ATOM	7232	CG	LEU	903	-105.009	25.424	52.277	1.00	48.89	C
ATOM	7233	CD1	LEU	903	-105.873	26.571	51.730	1.00	48.89	C
ATOM	7234	CD2	LEU	903	-105.743	24.074	52.294	1.00	48.89	C
ATOM	7235	C	LEU	903	-101.539	24.112	51.155	1.00	48.89	C
ATOM	7236	O	LEU	903	-100.866	23.048	51.182	1.00	48.89	O
ATOM	7237	OXT	LEU	903	-101.251	25.113	50.445	1.00	48.89	O

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