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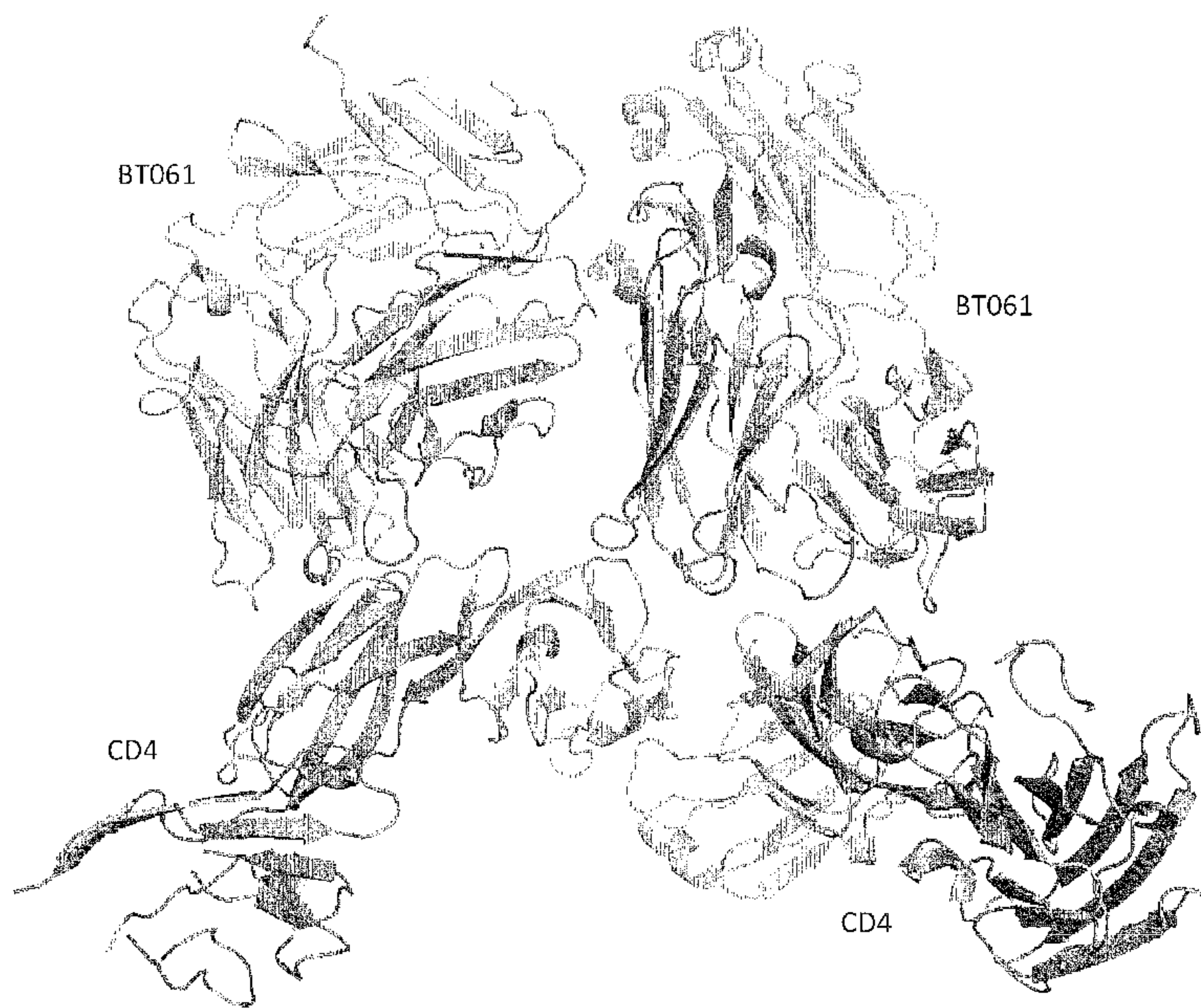


FIGURE 3

(57) Abrégé/Abstract:

Provided are methods of screening to identify molecules capable of binding to CD4 and capable of activating CD4+CD25+ regulatory T cells. Further provided are antibodies and antibody fragments capable of activating CD4+CD25+ regulatory T cells and methods and uses involving the antibodies and fragments thereof.



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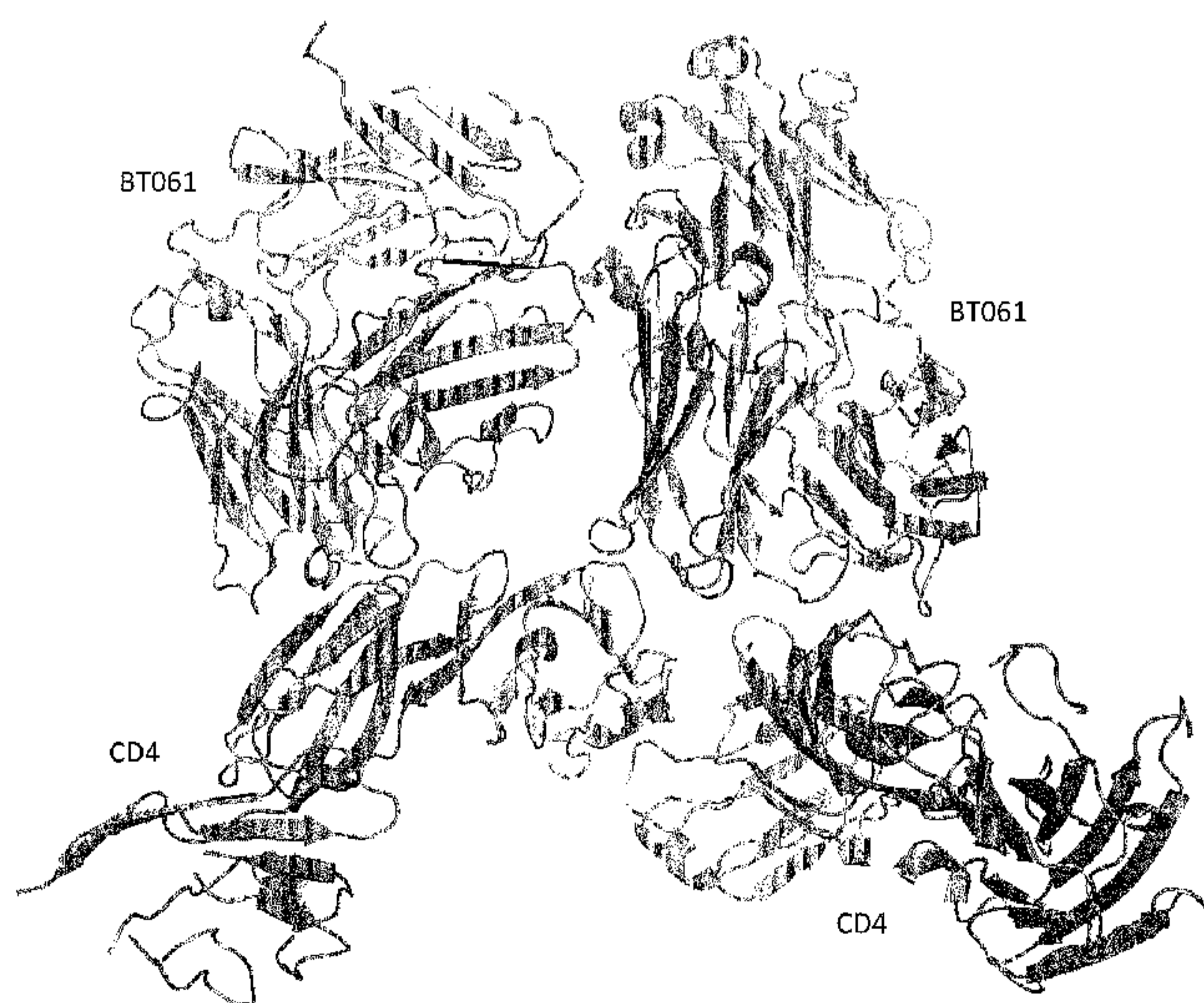


FIGURE 3

(57) Abstract: Provided are methods of screening to identify molecules capable of binding to CD4 and capable of activating CD4+CD25+ regulatory T cells. Further provided are antibodies and antibody fragments capable of activating CD4+CD25+ regulatory T cells and methods and uses involving the antibodies and fragments thereof.

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AGENTS FOR TREATING DISEASE

Field of the invention

The present invention is concerned with agents for the treatment of disease, and specifically treatment via the activation of CD4+CD25+ regulatory T cells through the T-cell surface receptor CD4. The invention involves screening methods for identifying such agents, agents capable of the activation of CD4+CD25+ regulatory T cells and their use in the treatment of disease, in particular autoimmune diseases, as well as in methods performed in vitro.

Background art

T-cells belong to the lymphocytes and are responsible for a number of key functions in the immune system. In mammals, T-cells (thymocytes) differentiate in the thymus gland from hematopoietic progenitor cells formed in bone marrow. Part of the differentiation process is the expression of characteristic surface receptors, mainly the glycoproteins CD4 and CD8. T-cells expressing CD4, so-called CD4+ T-cells, bind MHC class II complexes (Reinerz and Schlossman, Cell 19, 821-827 (1980); Reinerz et al., PNAS USA 77, 1588-1592 (1980)), while CD8+ T-cells bind MHC class I complexes (Fitch, Microbiol. Rev. 50, 50-69 (1986)). T-cells are released into blood and lymph.

CD4 positive cells can differentiate into T helper subpopulations (Th1 and Th2), but also into regulatory T-cells. Regulatory T-cells can be further divided into subclasses, the thymus derived (nTreg) inducible ones (iTregs) being the most evaluated.

Although there are other Treg subpopulations, such as for example Tr1 or Th3, the present invention refers to CD4 positive thymus derived Tregs (nTregs) and inducible Tregs, both expressing the transcription factor Foxp3. As a major difference Foxp3 is stably and permanently expressed in nTregs confirming the irreversible Treg phenotype, whereas inducible Tregs display inducible or transient Foxp3 expression, which is reversible.

Tregs secrete immunomodulatory cytokines such as IL-10, TGF beta or IL-35 and exert suppressive activity on effector T-cells via several mechanisms, for example via suppression of the production of

proinflammatory cytokines, direct cell-cell contact and modulating the activation state or function on antigen presenting cells (APC) (Shevach et al., *Immunity* (2009) 30; 636-645). A main characteristic of CD4 positive CD25 Treg cells is their anergic phenotype, meaning that they do not proliferate upon TCR stimulation, which can be restored by the addition of exogenous IL-2.

A prominent role for Tregs comprises maintaining homeostasis concerning immune responses and self tolerance. Treg dysfunction is correlated with autoimmune diseases.

Commonly, regulatory T-cells can be isolated via the surface receptor glycoproteins CD4, CD25, and characterized by intracellular staining of FOXP3. A further surface protein represents CD127 (IL-7 R), which is downregulated in Treg cells, and can be used for further purification of Tregs. Additionally, expression of CD39 (endonucleotidase) (Borsellino et al., *Blood* (2007) 110, 1225-1232) or GARP (glycoprotein A repetitions predominant (GARP, or LRRC32) (Wang et al., *PNAS* (2009) 106, 32. 13439-13444).

Human CD4 is encoded on chromosome 12 and belongs to the immunoglobulin (Ig) superfamily. Its natural function as a T-cell surface receptor is related to T-cell activation by binding of MHC class II complexes. In addition, CD4 can bind the HIV-1 gp120 protein, the P4HB/CDI protein, and human herpes virus HHV-7 capsid proteins. Interactions with the HIV-1 gp120 and Vpu proteins also have been reported. CD4 has 458 amino acids. The peptide sequence is shown in Figure 1.

The UniProt entry P01730 provides the domain structure of CD4 as shown below in Table 1, and in Figure 6. The first 25 amino acids are a signal peptide, which is cleaved off in the biologically active form. Positions 26 through 396 constitute the extracellular domain, which is followed by the transmembrane region, positions 397 through 418. Asn₂₉₆ and Asn₃₂₅ are known glycosylation sites (König et al., *J. Biol. Chem.* 263, 9502-9507 (1988); Carr et al., *J. Biol. Chem.* 264, 21286-21295 (1989)).

The last part, positions 419 through 458, is the cytoplasmic domain. Here is the binding site for the Tyrosine protein kinase LCK (p56^{lck}) (Rudd et al., *PNAS USA* 85, 5190-5194 (1988); Veillette et al., *Cell* 55, 301 (1988)), which is part of the signaling pathway activated by ligands binding to CD4.

Table 1 Table showing the domain structure of CD4 (according to UniProt P01730)

Feature	Positions	Length	Description
Signal peptide	1 - 25	25	
Chain	26 - 458	433	T-cell surface glycoprotein CD4
Topological domain	26 - 396	371	Extracellular
Transmembrane region	397 - 418	22	Potential
Topological domain	419 - 458	40	Cytoplasmic (potential)
Domain	26 - 125	100	Ig-like V-type
Domain	126 - 203	78	Ig-like C2-type 1
Domain	204 - 317	78	Ig-like C2-type 2
Domain	318 - 374	78	Ig-like C2-type 3
Region	427 - 455	29	HIV-1 Vpu-susceptibility domain
Glycosylation site	296	1	NeuAc(a2-3)Gal(b1-4)GlcNAc(b1-2)Man(a1-3)[Gal(b1-4)GlcNAc(b1-2)Man(a1-6)]Man(b1-4)GlcNAc(b1-4)GlcNAc
Glycosylation site	325	1	NeuAc(a2-3)Gal(b1-4)GlcNAc(b1-2)Man(a1-3)[Gal(b1-4)GlcNAc(b1-2)Man(a1-6)]Man(b1-4)GlcNAc(b1-4)GlcNAc
Disulfide bond	41 ↔ 109		
Disulfide bond	155 ↔ 184		
Disulfide bond	328 ↔ 370		
Lipidation site	419	1	S-palmitoyl cysteine
Lipidation site	422	1	S-palmitoyl cysteine

The extracellular part comprises 4 immunoglobulin-like domains. The first one, the N-terminal domain, comprising positions 26 through 125 is an Ig-like V-type domain. Based on the homology to antibodies, it has three homologues of antigen-complementary-determining regions, CDR1, CDR2, and CDR3 (Ashkenazi et al., PNAS USA 87, 7150-7154 (1990)) (see Figure 6). The CDR1 and CDR2 spans are involved in the binding of class II MHC molecules (Moebius et al., PNAS USA 89, 12008-120012 (1992)), the gp120 HIV-1 envelope protein (Moebius et al., J. Exp. Med. 176, 507-517 (1992)) and anti-CD4 antibodies (Lanza et al., PNAS USA 90, 11683-11687 (1993)). Phe₆₈ of CDR2 plays a key role for recognition and binding of class II MHC molecules and the gp120 HIV-1 envelope protein (Sharma et al., Biochemistry 44, 16192-16202 (2005)). All known ligands of CD4 bind to the N-terminal Ig-like V-type domain.

The mechanism of how regulatory T cells work is not fully clear. CD4⁺CD25⁺ Tregs inhibit polyclonal and antigen-specific T cell activation. The suppression can be mediated e.g. by a cell contact-dependent mechanism that requires activation of CD4⁺CD25⁺ Tregs via the TCR but Tregs do not show a proliferative response upon TCR activation or stimulation with mitogenic antibodies (anergic) (Shevach, Nature Rev. Immunol 2 : 389 (2002)). Once stimulated, they are competent to

suppress in an antigen-independent manner the response of CD4⁺ T cells and CD8⁺ T cells as well as inhibit B-cell activation and clonal expansion.

The ability of CD4⁺CD25⁺ regulatory T cells to have a controlling influence on immune system activity has meant that they have been recognized as a potential target for treating diseases, such as autoimmune diseases, where it is desirable to exert a control on the immune system.

Autoimmunity is the failure of an organism to recognise its own constituent parts (down to sub-molecular levels) as "self", which results in an immune response against its own cells and tissues. Any disease that results from such an aberrant immune response is termed an autoimmune disease. Autoimmune diseases include multiple sclerosis (MS), rheumatoid arthritis (RA), psoriasis, psoriatic arthritis, colitis ulcerosa, Crohn's disease, Type I Diabetes Mellitus (T1D), myasthenia gravis (MG), autoimmune polyglandular syndrome type II (APS-II), Hashimoto's thyroiditis (HT), systemic lupus erythematosus (SLE), Sjögrens Syndrome and autoimmune lymphoproliferative syndrome (ALS).

Autoimmune disease occurs when T cells recognise and react to 'self' molecules, that is, molecules produced by the cells of the host. Activation of 'autoreactive' T cells by presentation of autoantigens processed by antigen presenting cells (APC) leads to their clonal expansion and migration to the specific tissues, where they induce inflammation and tissue destruction.

Suppression of these T effector cell function by using immunosuppressive drugs is a principal therapeutic strategy that has been used successfully to treat autoimmune diseases. However these drugs induce general immune suppression due to their poor selectivity, resulting in inhibition of not only the harmful functions of the immune system, but also useful ones. As a consequence, several risks like infection, cancer and drug toxicity may occur.

It is generally agreed that CD4⁺ T cells play a major part in initiating and maintaining autoimmunity. Accordingly, it has been proposed to use mAbs against CD4⁺ T cells surface molecules, and in particular anti-CD4 mAbs, as immunosuppressive agents. Although numerous clinical studies confirmed the potential interest of this approach, they also raised several issues to be addressed in order to make anti-CD4 mAbs more suitable for use in routine clinical practice.

Several different mechanisms of action for CD4 mAbs have been proposed including: (1) antagonism of CD4-MHC II interactions resulting in inhibition of T cell activation, (2) CD4 receptor modulation as determined by a decrease in cell surface expression of CD4, (3) partial signaling through the CD4 receptor in the absence of T cell receptor cross-linking which can suppress subsequent T cell activation and trigger CD4 T cell apoptotic death, (4) Fc-mediated complement-dependent cytotoxicity (CDC) or antibody-dependent cellular cytotoxicity (ADCC) leading to CD4 T cell depletion, and (5) stimulation of regulatory T cells.

Several anti-CD4 antibodies targeting T cells have been in clinical development (Schulze-Koops et al., *J Rheumatol.* 25(11): 2065-76 (1998); Mason et al., *J Rheumatol.* 29(2): 220-9 (2002); Choy et al., *Rheumatology* 39(10): 1139-46 (2000); Herzyk et al., *Infect Immun.* 69(2): 1032-43 (2001); Kon et al., *Eur Respir J.* 18(1): 45-52 (2001); Mourad et al., *Transplantation* 65(5): 632-41 (1998); Skov et al., *Arch Dermatol.* 139(11): 1433-9 (2003); Jabado et al., *J Immunol.* 158(1): 94-103 (1997)) mainly aiming at CD4 cell depletion with only a few CD4 antibodies having been attributed to the other mechanisms like TRX-1, TNX-355, IDEC-151, OKTcdr4A.

The approach of using agents aimed at the activation of regulatory T cells for the therapy of autoimmune diseases has proven to be extremely difficult. Activation of Tregs via the TCR using the agonistic anti-CD3 antibody OKT-3 (Abramowicz et al, *N Engl. J Med.* 1992 Sep 3;327(10):736) or via the co-stimulatory molecule CD28 using the superagonistic anti-CD28 antibody TGN 1412 lead to complete depletion of regulatory T cell population as well as other conventional T cells and the systemic induction and release of excessive amounts of pro-inflammatory cytokines including IFN- γ , TNF- α , IL-1 and IL-2, resulting in a clinically apparent cytokine release syndrome (CRS) in humans (Suntharalingam et al, *N Engl. J Med.* 2006 Sep 7;355(10):1018-28).

However, recently humanized anti-CD4 antibodies have been described in WO2004/083247 which are capable of activating CD4+CD25+ regulatory T cells. The antibodies described in WO2004/083247 are humanized versions of the mouse antibody, mB-F5, a murine IgG1 anti-human CD4 described by Racadot et al. (*Clin. Exp. Rheum.*, 10, 365-374 (1992)). The epitope of mB-F5

was reported by Racadot et al., as spanning the Ig-like C2 type 1 and type 2 domains of human CD4 from amino acid 162 to amino acid 232 as shown in Figure 6.

Subsequent clinical trials reported in WO2009/112502, WO2009/121690, WO2009/124815 and in WO2010/034590, using one of these antibodies, designated BT061 (a humanized monoclonal IgG1), has resulted in the successful treatment of patients suffering from psoriasis and rheumatoid arthritis, providing proof that these antibodies are capable of treating autoimmune diseases safely and with good efficacy.

The promising clinical results achieved has increased the interest in providing further therapeutic agents having similar properties. It is therefore the aim of the present invention to provide screening methods for identifying such agents, and to provide further therapeutic agents.

Accordingly the present invention provides a method for screening for a molecule capable of binding to CD4 comprising:

- (a) providing one or more candidate molecules;
- (b) determining whether the one or more candidate molecules is capable of binding to one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168 and amino acids 185 to 192; and
- (c) selecting a molecule determined in step (b) to be capable of binding to CD4.

The present inventors have unexpectedly found that the humanized antibody BT061 binds to a domain of CD4 which was previously unrecognized as a ligand binding site. This finding is particularly surprising given what was known in the art as the epitope for the murine antibody, mB-F5, from which BT061 was derived. The present inventors have also established the residues of BT061 that are involved in binding the CD4 molecule and have surprisingly found that not all of the CDRs of BT061 are involved in CD4 binding.

The identification of the binding region, and details of the mechanism of binding, has enabled the development of further screening methods, and of antibodies and antibody fragments capable of activating CD4+CD25+ regulatory T cells.

Accordingly, the present invention also provides a method for screening for an antibody or antibody fragment capable of binding with CD4 comprising:

- (a) providing an antibody or antibody fragment comprising CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:
 - (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;
 - (ii) the light chain CDR2 comprises: Leu54; and Ile57;
 - (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
 - (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110,
- (b) determining whether the antibody or antibody fragment is capable of binding to CD4, and
- (c) selecting the antibody or antibody fragment determined in step (b) to be capable of binding to CD4,

wherein the antibody or antibody fragment does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.

Still further the present invention provides an antibody or antibody fragment capable of activating CD4+CD25+ regulatory T cells comprising an antibody or antibody fragment capable of activating CD4+CD25+ regulatory T cells comprising CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:

- (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;
- (ii) the light chain CDR2 comprises: Leu54; and Ile57;
- (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
- (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110,

and wherein the antibody or antibody fragment does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.

The invention will be illustrated by way of example only, with reference to the following Figures, in which:

Figure 1 shows the peptide sequence (SEQ ID No: 1) and disulphide bridges of human CD4 (UniProt ID P01730).

Figure 2A shows the peptide sequence (SEQ ID No: 2) of the light chain of the humanized antibody BT-061. The residues of the CDRs are shown with boxes (CDR1: SEQ ID No: 4, CDR2: SEQ ID No: 5 and CDR3: SEQ ID No: 6). Residues surrounded by dashed frames are not represented by the crystal structure.

Figure 2B shows the peptide sequence (SEQ ID No: 3) of the heavy chain of the humanized antibody BT-061. The residues of the CDRs are shown with boxes (CDR 1: SEQ ID No: 7, CDR2: SEQ ID No: 8 and CDR 3: SEQ ID No: 9). Residues surrounded by dashed frames are not represented by the crystal structure.

Figure 3 provides a representation of the asymmetric unit of CD4-BT061 crystal structure.

Figure 4 provides a representation of the CD4-BT061 crystal structure superimposed with a crystal structure of a CD4 complex with a class II MHC molecule (PDB code 1JL4).

Figure 5 provides a representation of the CD4-BT061 crystal structure superimposed with a crystal structure of a complex of CD4 with the gp120 HIV-1 protein (PDB code 2NY1). The latter, in addition, is bound to the antibody 17b.

Figure 6 shows the peptide sequence (SEQ ID No: 1) and domain structure of human CD4 (UniProt ID P01730).

Figure 7 provides a representation of the BT061 binding site on the surface of CD4. All amino acids shown are part of the Ig-like C2-type 1 domain, which follows the N-terminal Ig-like V-type domain.

Figure 8 provides the BT061 amino acid light chain sequence (SEQ ID No: 2). Amino acids involved in binding to CD4 are marked by rounded frames.

Figure 9 provides the BT061 amino acid heavy chain sequence (SEQ ID No: 3). Amino acids involved in binding to CD4 are marked by rounded frames.

Figure 10 provides a representation of the BT061 binding site on surface of CD4. Amino acids forming the binding pocket for Tyr₁₀₅ of the BT061 heavy chain are circled.

Figure 11 provides a representation of the BT061 binding site on surface of CD4. Amino acids forming the binding pocket for Arg₁₀₄ to Asp₁₀₆ of the BT061 heavy chain are circled.

Figure 12 provides a representation of the BT061 binding site on surface of CD4. Amino acids forming the binding pocket for Tyr₃₄ of the BT061 light chain are circled.

Detailed description of the invention

Screening methods

The present invention provides methods for screening for one or more molecules capable of binding to CD4, and preferably human CD4. As indicated above, the information provided herein describes the interaction between CD4 and antibody BT061, which is capable of activating CD4+CD25+ regulatory T cells. In particular, BT-061 binds to both T helper and regulatory T cells and selectively activates regulatory T cells without activation of T helper cells. The knowledge of the structures of BT061 and how these interact with the extracellular region of CD4 provides a means to design and produce agents with similar properties to BT061 in terms of CD4 binding and selective activation of regulatory T cells.

In a first aspect the present invention provides a method for screening for a molecule capable of binding to CD4 comprising: (a) providing one or more candidate molecules; and (b) determining whether the one or more candidate molecules is capable of binding to one or more of the following regions or amino acids of human CD4: amino acids 148 to 154, amino acids 164 to 168 and amino acids 185, 187, 189, 190 and 192; (c) selecting a molecule determined in step (b) to be capable of binding to CD4. More particularly, the regions of human CD4 are amino acids 148 to 154, amino acids 164 to 168 and amino acids 185 to 192.

In one embodiment steps (a) to (c) can be completed on a computer system and the interaction between CD4 and one or more candidate molecules modeled, based on the information provided herein regarding the interaction between BT061 and human CD4, i.e. the screening is conducted via computer assisted molecule design. In particular, a three dimensional structural model of CD4, and in particular, the extracellular region thereof, is generated in the computer system by interaction of the amino acids sequence for at least part of CD4 and software known to the person skilled in the art, for example Discovery Studio (Accelrys®) or Benchware 3D Explorer (Tripos). These programs further allow the inputting of, or de novo generation of, sequence and/or structural information on one or more candidate molecules. The ability of a candidate molecule to bind to the regions of CD4 identified as being important for BT061 binding (which are discussed further below) can then be examined.

In particular, the method for screening for a molecule capable of binding to CD4 can comprise as steps (a) and (b): (i) entering into a computer system or program an amino acid sequence from CD4 comprising at least amino acids 148 to 154, 164 to 168 and acids 185, 187, 189, 190 and 192; (ii) generating a three-dimensional model of the polypeptide or peptide encoded by the amino acid sequence; (iii) generating or entering the three dimensional structure of one or more candidate molecules; and (iv) simulating the interaction between the amino acid sequences of CD4 and a candidate molecule to determine whether the candidate molecule is capable of binding to CD4 via amino acids 148 to 154, 164 to 168 and acids 185, 187, 189, 190 and 192.

The selection of candidate molecules can further be restricted by considering the features of the CD4-BT061 interaction described below in Example 1. In particular, candidate molecules can be restricted to those that bind to the regions of CD4 without salt bridges and/or those that include one or more components which are accommodated in one or more of the binding pockets on the surface of CD4 involving:

- (i) amino acids residues S152, V153, Q154, Q164, G165, T185, V186, L187 and K192 of CD4 (as shown in Figure 10);
- (ii) amino acid residues S150, S152, G165 and G166 of CD4 (as shown in Figure 11); and/or
- (iii) amino acid residue S150, P151, S152 and K167 (as shown in Figure 12).

The method of this computer implemented embodiment can further comprise a step (d) in which the molecule selected in step (c) is produced. For example, where the selected molecule is a peptide the amino acid sequence of the peptide is taken from the computer and the peptide is manufactured in vitro. Thereafter, the activity of the selected molecule can be assessed in vitro, by contacting the selected molecule with a peptide or polypeptide comprising the relevant regions/amino acids of CD4, or by contacting the selected molecule with a cell expressing CD4. These in vitro steps are described further below in relation to the embodiment of the first aspect in which steps (a) to (c) are conducted in vitro.

In particular, as an alternative to the computer assisted embodiment described above, steps (a) to (c) of the method of screening may be conducted in vitro, and step (b) can comprise contacting one or more candidate molecules with the relevant regions/amino acids of CD4 and determining whether the candidate molecule is able to bind to one or more of these regions. An example of this embodiment comprises a method for screening for one or more molecules capable of binding to CD4 comprising: (a) contacting the one or more molecules with a peptide comprising one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168, and amino acids 185 to 192; and (b) detecting whether the one or more molecules binds to the one or more regions of the peptide, wherein the molecule does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.

The method of the present invention preferably comprises screening a library of molecules. In particular, the library can be a phage display library prepared according to methods known in the art. The library may be a peptide library reflecting a systematic combination of different amino acids/peptides in large number. Usually, a peptide library is synthesized on solid phase, mostly on resin, which can be made as flat surface or beads (solid phase peptide synthesis). This library can be used for protein-protein interactions, drug discovery, purification of proteins and variation in the antibody recognition sequence to generate antibody variants with different affinities.

Further libraries besides the phage display include yeast display, bacterial display, mRNA display, ribosomal and polysomal display. Ribosome display comprises a process which results in translated proteins that are associated with their mRNA progenitor which is used, as a complex, to bind to an

immobilized ligand in a selection step. mRNA display results in translated peptides or proteins that are associated with their mRNA progenitor via a puromycin linkage.

Bacterial display represent a library technology of polypeptides displayed on the surface of bacteria can be screened using flow cytometry or iterative selection procedures (biopanning).

In the yeast display (Abbott) technique, a protein of interest is displayed as a fusion to the Aga2p protein on the surface of yeast. The Aga2p protein is naturally used by yeast to mediate cell-cell contacts during yeast cell mating. As such, display of a protein via Aga2p projects the protein away from the cell surface, minimizing potential interactions with other molecules on the yeast cell wall. The use of magnetic separation and flow cytometry in conjunction with a yeast display library is a highly effective method to isolate high affinity protein ligands against nearly any receptor through directed evolution.

Polysome display comprises very large library of peptides displayed on bacterial polysomes (Mattheakis et al., 1994). MULTIPIN® peptide technology can also be used to generate the libraries (Tribbick et al., J Immunol. Methods (2002) 267: 27-35).

In the in vitro contacting step the selected molecule or a candidate molecule can be contacted with a peptide or polypeptide comprising one or more of the following regions or amino acids (the "relevant regions/amino acids of CD4") of human CD4: amino acids 148 to 154, amino acids 164 to 168 and amino acids 185, 187, 189, 190 and 192, wherein the amino acids are numbered as shown in Figure 6. Preferably the regions of human CD4 are: amino acids 148 to 154, amino acids 164 to 168 and amino acids 185 to 192. More preferably, the peptide or polypeptide comprises all of these regions. Still more preferably the peptide or polypeptide further comprises at least one of the following amino acids of human CD4: Lys26, Arg156, Arg159, Lys161 and Lys192. Most preferably the peptide or polypeptide comprises the Ig-like C2-type 1 domain of human CD4 (*i.e.* amino acids 126 to 205) and optionally also the Ig-like V-type domain. In particular, D1 of CD4 is utilized to stabilize the epitope. Accordingly, where the peptide or polypeptide is to be used in a competitive binding assay, the use of D1 is preferred. However, it is noted that one or two amino acids from these regions may be removed. It is preferred that the peptide is less than 50 amino acids in length and more preferably less than 20 amino acids in length.

The peptides may be natural peptides, for example those made by enzymatic cleavage of CD4 or directly by host cell expression, or they may be synthetic peptides. The peptides may also be modified, for example via PEGylation, phosphorylation, amidation, acetylation, labeling with Biotin, or fluorescent dyes such as FITC, or labeling with isotopes. Further modifications might use techniques like the "Multiple antigen peptide application". With such a technology one can produce high-titer anti-peptide antibodies and synthetic peptide vaccines. This system utilizes the α - and ϵ -amino groups of lysine to form a backbone to which multiple peptide chains can be attached. Depending on the number of lysine tiers, different numbers of peptide branches can be synthesized. This eliminates the need to conjugate the antigen to a protein carrier (Briand et al., *J Immunol Methods* (1992). 156; 2: pp 255-265).

As indicated above, the methods of the present invention are preferably performed with peptide sequences from human CD4. However, they can equally be performed with homologous regions of CD4 proteins of other mammals, or other molecules containing the Ig-like C2-type 1 domain.

The step of contacting the one or more molecules, selected molecule or candidate molecule with a peptide and the step of detecting whether the one or more molecules binds to the one or more regions of the peptide, can be conducted according to methods known in the art. In particular, in one embodiment of the invention the peptide is a linear peptide which is spotted or fixed onto a membrane. During the contacting step, the molecules which are able to bind to the CD4 peptide sequence become trapped.

In an alternative embodiment peptides are created which can mimic the conformation of the wild-type human CD4 epitope. This can be done by structure-based molecular design methods known in the art.

The following display methods are mentioned which can be used for screening:

To screen for linear epitopes an epitope mapping technique can be used. Amino acid sequence representing parts of the target epitope (e.g. 10 – 15 amino acids), which overlap by one amino acid, are spotted onto a membrane (e.g. cellulose). Subsequently it is possible to screen for proteins, or

peptides recognizing the spotted amino acid sequence. Several rounds of selection can be done with different stringency conditions to select high affinity binders.

To screen for discontinuous epitopes techniques such as phage display have been developed. Contemporary standard libraries of linear or cyclic peptides have a diversity of approximately 10^9 independent clones, meaning libraries with up to seven randomized positions can theoretically guarantee comprehensive coverage of the potential sequence repertoire. In vitro translation systems result in peptide libraries with a higher diversity since coupling of the peptide with its mRNA is achieved in a cell-free system involving small particles of RNA/peptide/ribosome or only mRNA/peptide complexes. Further libraries include polysomal or ribosomal display (Mattheakis et al., PNAS 1994; 91(19):9022-6) or the PROfusion technology (Roberts and Szostak, PNAS (1997) 94(23):12297-302). The latter technology comprises a covalent fusion between an mRNA and the peptide or protein that it encodes can be generated by in vitro translation of synthetic mRNAs that carry puromycin, a peptidyl acceptor antibiotic, at their 3' end.

Minicell display (Patent No. US 7,125,679) is also possible, which includes the preparation of peptides for screening that are expressed on the outer surface containing oligonucleotide library. Similarly, Flitrix (Invitrogen Corp.) random peptide library which uses the bacterial flagellar protein FliC and thioredoxin can also be used.

Further, as well as the above mentioned display methods, mass spectrometry or Solid Phase Epitope Recovery (SPHERE) (Genzyme) can also be utilized (Lawendowski et al., J Immunol., (2002) 169: 2414-2421).

In one embodiment detection of binding comprises performing X-ray crystallography or NMR. In particular, molecules can be selected which bind to the peptide without a salt bridge, using methods of X-ray crystallography which are known in the art.

Alternatively, or in addition, the method of the first aspect can comprise contacting the selected molecule or candidate molecule with a cell expressing CD4, and in particular a CD4+CD25+ regulatory T cell. This can be done in particular to determine the ability of the selected molecule or candidate molecule to modulate the activity of, and in particular activate CD4+ CD25+ regulatory T

cells (preferably selectively activate T regs cells without activation of T helper cells), or to determine the ability of the selected molecule or candidate molecule to reduce, or down modulate, CD4 receptor expression, in particular on specific lymphocyte populations in an in vitro culture of PBMC (peripheral blood mononuclear cells). In these embodiments it is preferred that the selected molecule or the candidate molecule are antibodies or antibody fragments, and in particular those of the IgG1 type, as discussed further below.

For the modulation assay, Treg can, in general, be isolated using commercially available isolation kits (magnetic beads isolation) sorting for CD25, CD27, CD62L and/or CD127 and additional intracellular staining for FoxP3. Tregs are negative for CD127, positive for CD25 and Foxp3. CD39, a cell surface associated ectonucleotidase, can be also used to purify Treg with strong suppressor functions (Mandapathil et al., J Immunol. Methods (2009). 346 (1-2), 55-63). Commercially available kits may use a combination of negative selection of CD4+ followed by positive isolation of CD25 positive resulting in a CD4 CD25 positive cell population. These cells can be further processed. CD25 and the transcription factor Foxp3 are expression markers associated with suppressive function of Tregs. Although intracellular staining with Foxp3 confirms the regulatory phenotype, due to the intracellular staining the cells are not viable for further therapeutic use. Foxp3 is commonly used as an intracellular marker of activated Tregs/functionally active Tregs.

Further, due to the fact that BT061, and the molecule being screened for, binds to an epitope which is distinct from that bound by other commercially available antibodies, one can purify Tregs with commercially available isolation kits (magnetic bead isolation) and additionally another CD4 antibody (e.g. SK-3 OKT4), which are non-competing for the BT061 binding site on CD4 and subsequently assay for activation of Tregs with the candidate molecule or selected molecule.

The ability of the candidate molecule to activate Tregs can be assayed by examining the Treg suppressive activity, after contact with the candidate molecule, by co-culturing Tregs with CD4 positive CD25 negative effector T-cells. Activated Tregs are able to inhibit proliferation of CD4+ CD25- effector T-cells, which can be labeled with CFSE (assessment of cell expansion via CFSE dilution assay). Alternatively the proliferation of effector cells can be determined by [3H] Thymidine incorporation.

More particularly, suppressive capacity can be assayed by for example a mixed lymphocyte reaction (MLR). Cell division of effector T-cell can be inhibited by the suppressive action of Tregs. For this naive autologous CD4+ CD25- T responder cells are stimulated with irradiated allogenic stimulator PBMCs. Tregs or conventional T cells are titrated into the culture and proliferation can be assessed by Thymidine incorporation.

Activation of Treg can also be assayed through determination of cyclic AMP production (as described in WO 2008/092905).

Cytokines affected by activated Tregs in a co-culture can also be measured to determine the activity of these cells towards effector cells. For example, Tregs exert their suppressive activity also via IL-2 consumption which results in proliferation inhibition of T effector cells. IL-4 or IFN gamma can be also determined in the co-culture assay and are reduced in case of activated Tregs. Furthermore surface activation markers on T effector cells, such as CD25, are reduced when Treg cells are activated and exert suppressive activity.

Additionally, determination of cell death (via factors such as Bim) in effector cells (which can be also CD4 positive) induced by activated Tregs in co-culture represents a further method to examine whether Tregs are activated (Pandiyani et al., *Nature Immunol.* (2007) 8 1353-1362).

Since Tregs represent only a small proportion in the blood (2-10%), several expansion strategies are known. For example following TCR stimulation with an anti-CD3 and costimulation with anti-CD28 and rapamycin can be used to increase the number of T-cells. Rapamycin promotes the selective survival of Tregs, but not T effector cells.

Several polyclonal expansion protocols are available e.g. Following positive selection for CD4/CD25 Treg cells can be expanded polyclonally in vitro by using anti-CD3 and anti-CD28 antibody (for stimulation) in combination with IL-2 and/or IL-15 able to increase Treg numbers while preserving suppressive capacity (Earle et al., *Clin. Immunol.* (2005) 115: 3-9).

In relation to modulation of CD4 expression, it is noted that by adding anti-CD4 antibodies, the expression of CD4 receptors on cell surfaces can be reduced. This feature can be used as basis for a

potency assay to determine the degree of CD4 binding. In particular, in this assay the step of contacting can comprise (i) incubating the candidate or selected molecule with peripheral blood mononuclear cells (PBMC) from human donor blood at 37°C; (ii) staining the incubated cells with an anti-CD4 labeled antibody which does not compete with BT061 for CD4 binding; and (iii) detecting the quantity of staining, to determine the occupation of CD4 receptors, and therefore the quantity of CD4 molecules present on the cell surfaces.

More specifically, this assay involves isolating PBMC (i.e. lymphocytes and monocytes) from human donor blood, which are then incubated with various concentrations of the candidate or selected molecule (preferably an antibody or antibody fragment) at 37°C. After incubation for 3 hours, the cells are stained by adding fluorochrome-labelled antibodies, such as phycoerythrin anti-CD4, which bind to a different epitope on CD4 to that bound by BT061. These staining antibodies label CD4 receptors on specific lymphocyte populations. As the BT061 epitope and the fluorochrome-labelled CD4 antibody used recognise different epitopes on the CD4 molecule and do not compete, this technique enables the quantity of CD4 receptors on the cell surface to be determined, independently of binding of CD4 by the candidate or selected molecule. The measurement is performed in a flow cytometer in which the antibody-labelled cells pass through a laser beam and are stimulated. When stimulated by the laser beam, the stained cells fluoresce in proportion to the bound antibody, and the light emitted is captured by the flow cytometer and then evaluated using the software known in the art, e.g. FlowJo software (Tree Star, Inc). Using the software (such as Parallel Line Assay software, Stegmann Systems) it is then possible to calculate a relative activity (potency) for the sample in relation to the standard run in parallel.

In a further embodiment of this aspect of the invention the contacting step can comprise contacting the CD4 peptide or polypeptide (preferably comprising D1 and D2 of CD4) or cell expressing CD4, and the candidate/selected molecule with a competitor antibody or antibody fragment having the heavy and light chain variable domains of BT061 to determine if the candidate/selected molecule is able to block binding of the competitor antibody or antibody fragment to CD4.

The one or more candidate molecules in the first aspect may be a peptide or a non-peptide. In particular, the one or more molecules may be a mimotope, a peptidomimetic, a small molecule, a recognition protein based on a natural or engineered lipocalin, an oligonucleotide, an siRNA, a

DARPin, a fibronectin, an affibody, a Kunitz-type inhibitor, a peptide aptamer, a ribozyme, a toxin, a camelid, an antibody, an antibody fragment or an antibody-derived molecule.

Mimotopes are peptides mimicking protein, carbohydrates or lipid epitopes and can be generated by phage display technology. When selected by antibodies, they represent exclusively B-cell epitopes and are devoid of antigen/allergen-specific T-cell epitopes. Coupled to carriers or presented in a multiple antigenic peptide form mimotopes achieve immunogenicity and induce epitope-specific antibody responses upon vaccination.

A peptidomimetic is a small protein-like chain designed to mimic a peptide. They typically arise from modification of an existing peptide in order to alter the molecule's properties. For example, they may arise from modifications to change the molecule's stability or biological activity. These modifications involve changes to the peptide that will not occur naturally (such as altered backbones and the incorporation of non-natural amino acids).

An example of peptidomimetics were those designed and synthesized with the purpose of binding to target proteins in order to induce cancer cells into a form of programmed cell death called apoptosis. Essentially these work by mimicking key interactions that activate apoptotic pathway in the cell.

A foldamer is a discrete chain molecule or oligomer that adopts a secondary structure stabilized by non-covalent interactions (Gellman, *Acc. Chem. Res* (1998) 31 (4): 173–180; Hill et al., *Chem. Rev.* (2001) 101 (12): 3893–4012). They are artificial molecules that mimic the ability of proteins, nucleic acids, and polysaccharides to fold into well-defined conformations, such as helices and β -sheets. Foldamers have been demonstrated to display a number of interesting supramolecular properties including molecular self-assembly, molecular recognition, and host-guest chemistry. They are studied as models of biological molecules and have been shown to display antimicrobial activity. They also have great potential application to the development of new functional materials.

A small molecule is a low molecular weight organic compound which is by definition not a polymer. The upper molecular weight limit for a small molecule is approximately 800 Daltons which allows for the possibility to rapidly diffuse across cell membranes so that they can reach intracellular sites of action. A small molecule exerts high affinity to a biopolymer such as protein, nucleic acid, or polysaccharide and in addition alters the activity or function of the biopolymer.

DARPin (Designed Ankyrin Repeat Proteins) are artificial proteins which are also able to recognize an antigen or antigenic structures. They are structurally derived from Ankyrin Proteins, are about 14 kDa (166 amino acid) and consist of three repeat motifs. They display a comparable affinity to antigens as antibodies. (Stumpp et al., *Drug Discov. Today* (2008) 13, Nr. 15-16, S. 695–701).

The Affibody® molecules are small and robust high affinity protein molecules that can be engineered to bind specifically to a large number of target proteins.

The term “camelid” refers to antibodies produced by camelids and comprising a heavy chain homodimer, and derivatives of these molecules (Muyldermans et al., *Veterinary Immunology and Immunopathology*, 128; 1-3; pp.178-183 (2009)).

It is preferred that the candidate molecule is an antibody or an antibody fragment. The phrase “an antibody, an antibody fragment or an antibody-derived molecule” covers monoclonal antibodies, polyclonal antibodies, multi-specific antibodies and antibody fragments. The term “antibody fragment” includes, in particular, fragments comprising Fab, Fab', F(ab)'₂, Fv and scFv fragments and dia- or tribodies. Preferably these are based on humanized or human antibodies. More preferably the antibody comprises a constant region/domain, i.e. an Fc portion. Where the antibody comprises a human constant region, this constant region can be selected among constant domains from any class of immunoglobulins, including IgM, IgG, IgD, IgA and IgE, and any isotype including IgG1, IgG2, IgG3 and IgG4. Preferred constant regions are selected among constant domains of IgG, in particular IgG1.

The Fc portions of different Ig subclasses are bound by cellular FcR that are specific for individual subclasses. Three different FcR classes are known that bind IgG isotypes with discrete affinities, CD16, CD32 and CD64. Diverse patterns of FcγR are expressed by various different immune cells such as monocytes, B cells, natural killer (NK) cells and others. The present inventors have found *in vitro* that the ability of the constant region of the antibody BT061 to bind Fc receptors (FcR) is critical for the ability of the antibody to cause CD4 down modulation in T cells. In particular, *in vitro* studies indicate that of the Fcγ receptors, Fcγ1 receptor, which is mainly expressed on

monocytes, is primarily involved; the presence of monocytes in a culture of PBMC is necessary and sufficient to confer CD4 down modulation in BT061-treated T cells.

Accordingly, in an embodiment of the invention the candidate molecule is capable of binding to an Fc receptor, preferably FcγRI (i.e. CD64) and most preferably comprises the Fc portion of an IgG1 antibody. In addition, or alternatively, the candidate molecule is capable of binding to monocytes via an Fc receptor.

In this aspect of the present invention the molecule being screened is not an antibody or antibody fragment which comprises CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain. These CDR sequences are shown in Figures 2A and 2B. In a preferred embodiment the molecule being screened is not the murine B-F5 molecule described by Racadot et al. (Clin. Exp. Rheum., 10, 365-374 (1992)).

In a preferred embodiment of the first aspect of the invention where the one or more candidate molecules are antibodies or antibody fragments, the antibodies or antibody fragments comprise CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:

- (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;
- (ii) the light chain CDR2 comprises: Leu54; and Ile57;
- (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
- (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110.

Alternatively, the candidate molecule is an antibody or antibody fragment comprising V domains having at least 70%, at least 80%, at least 85%, more preferably at least 90% sequence identity with the V domains of BT061 (i.e. SEQ ID No: 2 and SEQ ID No: 3) and comprising the sequence motif SGYSY (SEQ ID No: 10) in CDR1 of the light chain V domain, the sequence motif LASILE (SEQ ID No: 11) in CDR2 of the light chain V domain and the sequence motif SYY/F/HRYD (SEQ ID No: 13) in CDR3 of the heavy chain V domain.

In this method the one or more molecules screened are a set of candidate molecules defined by their similarity to the antibody BT061 and those residues within BT061 which the present inventors have identified as being important in the interaction between the BT061 antibody and the CD4. In particular, this method is preferably one which identifies molecules having approximately equivalent or better binding affinity/specificity and Treg activation activity compared to BT061.

The peptide sequences of the light chain and heavy chain of the humanized antibody BT061 are shown in Figures 2A and 2B, respectively. The CDRs of the light and heavy chain are marked on these Figures. Herein the amino acid residues within these CDRs are identified by residue type and number, in which the number represents the position of the amino acid within the variable region of the light or heavy chain BT061 antibody as represented in Figures 2A and 2B. The use of residue type and number has been done for the purpose of clearly identifying the amino acid residue of the BT061 CDR which is being referred to. However, it will be appreciated that the number of the residue is not intended to limit the residue to being in that position in the candidate antibody or fragment being screened in the method. For example, in an antibody of this embodiment Ser32 may be at position 31 within a light chain CDR1 if a non-essential amino acid residue has been deleted from the section 1 to 30 of the light chain.

In a preferred embodiment the amino acid substitutions in the sequence of CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of the BT061 heavy chain are selected from those set out in Table 4 and Table 5 below. More preferably the antibody or antibody fragment comprises a light chain comprising Tyr53 or Phe53 and a heavy chain comprising Ser28 (as shown in Table 7 in Example 1). Alternatively, or in addition, the antibody or antibody fragment comprises a light chain containing Asp64, and/or the antibody or antibody fragment comprises a heavy chain having at least one of Asp31 and Glu56 (as shown in Table 8, in Example 1). The antibody or antibody fragment may further comprise the CDR3 of BT061 light chain and/or the CDR2 of BT061 heavy chain optionally with amino acid substitutions in the sequences of these CDRs wherein the substitutions are selected from those set out in Table 4 and Table 5.

Candidate antibody or antibody fragments for use in the screening methods can be generated by mutating the known sequence of BT061. In particular, where these mutations are within the CDRs

they can be targeted mutations to ensure that the amino acids recited above are retained, or the desired substitutions are made.

Where step (a) of the screening method is performed in vitro, targeted mutagenesis can be used to cause amino acid exchange in the defined positions within the CDRs. Through knowing the corresponding DNA sequence of the amino acids one can create a library of specific mutants containing a range of desired amino acid substitutions. Where steps (a) to (c) of the screening method are to be performed in a computer system, the three dimensional structure of the candidate antibodies or antibody fragments can be generated by inputting the amino acid sequence in a manner similar to that indicated above in relation to CD4.

Table 4 Table showing sequence variations of the BT061 light chain CDRs

	Position	BT061 sequence	Isosteric Variations					
CDR1	24	Arg 24	Lys	Gln	Asn			
	25	Ala 25	Gly					
	26	Ser 26	Thr					
	27	Lys 27	Arg	Glu				
	28	Ser 28	Gly	Pro				
	29	Val 29	Ala	Ile				
	30	Ser 30						
	31	Thr 31	Ser	Asn	Gln	Asp		
	32	Ser 32						
	33	Gly 33						
	34	Tyr 34						
	35	Ser 35						
	36	Tyr 36						
	37	Ile 37	Val	Leu				
38	Tyr 38							

	Position	BT061 sequence	Isosteric Variations					
CDR2	54	Leu 54						
	55	Ala 55						
	56	Ser 56						
	57	Ile 57						
	58	Leu 58						
	59	Glu 59						
	60	Ser 60	Asn	Gln	Thr	Glu	Asp	

Table 4 continued Table showing sequence variations of the BT061 light chain CDRs

	Position	BT061 sequence	Isosteric Variations					
CDR3	93	Gln 93						
	94	His 94						
	95	Ser 95						
	96	Arg 96	Lys					
	97	Glu 97	Asp	Arg				
	98	Leu 98	Gly	Ile				
	99	Pro 99						
	100	Trp 100						
	101	Thr 101	Ser					

Table 5 Table showing sequence variations of the BT061 heavy chain CDRs.

	Position	BT061 sequence	Isosteric Variations					
CDR1	31	Asp 31	Glu	Thr	Cys	Pro	Met	Tyr
	32	Cys 32	Ser	Ala	Gly	Val		
	33	Arg 33	Lys	Ser	Thr	Glu		
	34	Met 34	Ile	Leu	Ala	Val		
	35	Tyr 35						

	Position	BT061 sequence	Isosteric Variations					
CDR2	51	Ile 51	Ala	Val	Gly			
	52	Ser 52	Asp	Gly	Ala	Thr		
	53	Val 53	Ser	Gly	Thr	Ile		
	54	Lys 54	Arg	Tyr				
	55	Ser 55	Asn	Gln	Thr	Glu		
	56	Glu 56	Asp	Arg				
	57	Asn 57	Asp	Tyr	Gln	Glu		
	58	Tyr 58	His	Lys				
	59	Gly 59	Ser					
	60	Ala 60	Ser	Thr				
	61	Asn 61	Gln	Asp				
	62	Tyr 62	Phe	His				
	63	Ala 63	Gly	Ser				
	64	Glu 64	Asp	Gln	Asn	Arg		
	65	Ser 65	Gly	Ala	Asn			
	66	Val 66	Ile	Ala	Ser	Gly		
	67	Arg 67	Lys	Gln	Tyr	His	Glu	
68	Gly 68							

Table 5 continued Table showing sequence variations of the BT061 heavy chain CDRs.

	Position	BT061 sequence	Isosteric Variations				
CDR3	101	Ser 101					
	102	Tyr 102					
	103	Tyr 103	Phe	His			
	104	Arg 104					
	105	Tyr 105					
	106	Asp 106					
	107	Val 107	Ile	Pro	Asp	Thr	Glu
	108	Gly 108	Ala				
	109	Ala 109	Ser				
	110	Trp 110	Phe	His	Tyr		
	111	Phe 111					
	112	Ala 112	Ser				
	113	Tyr 113	Phe	His	Asn		

Isosteric variations are those which do not cause steric effects, i.e. they do not change the conformation of the antibody in any way.

In a second aspect the present invention provides a method for screening for a candidate molecule, which is an antibody or antibody fragment, that is capable of binding with CD4 comprising: (a) providing an antibody or antibody fragment comprising CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:

- (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;
- (ii) the light chain CDR2 comprises: Leu54; and Ile57;
- (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
- (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110,

(b) determining whether the antibody or antibody fragment is capable of binding to CD4, and (c) selecting the antibody or antibody fragment determined in step (b) to be capable of binding to CD4, wherein the antibody or antibody fragment does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.

In one embodiment, steps (a) to (c) of the screening method according to the second aspect of the present invention can be performed in a computer system in a manner similar to that described above in relation to the first aspect of the invention. In particular, a number of BT061 variants can be generated in silico based on information provided herein on the residues important for the interaction of BT061 with its CD4 epitope, and the interaction of these variants with CD4 simulated.

In this embodiment the method can further comprise a step in which the candidate antibody or antibody fragment is contacted with a cell expressing CD4.

In an alternative embodiment to that performed in a computer system, steps (a) to (c) of the screening method according to the second aspect of the invention can be performed in vitro and step (b) can comprise contacting the candidate antibody or antibody fragment with a cell expressing CD4. Preferably the ability to bind CD4 is determined based on the ability of the candidate to activate CD4+CD25+ regulatory T cells.

In particular, this aspect of the present invention can be a method for screening for an antibody or antibody fragment capable of activating CD4+CD25+regulatory T cells which comprises:

- (a) contacting one or more antibody or antibody fragments with CD4+CD25+ regulatory T cells;
- (b) assessing the ability of the antibody or antibody fragment to activate said CD4+CD25+ regulatory T cells; and
- (c) identifying an antibody or antibody fragment which activates the CD4+CD25+ regulatory T cells,

wherein the antibody or antibody fragment comprise CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:

- (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;
- (ii) the light chain CDR2 comprises: Leu54; and Ile57;
- (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
- (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110,

and wherein the antibody or antibody fragment does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.

It is noted that the description of the embodiments and preferred features provided above in relation to the screening method according to the first aspect of the present invention also apply to the screening method according to the second aspect of the present invention.

These aspects of the invention may both further comprise production of the selected molecule, and in particular the selected antibody or antibody fragment, in order for their further use or downstream analysis.

Accordingly, the invention further provides a method for producing a therapeutic composition and therapeutic compositions obtainable by the method. In particular, the method comprises:

- (a) selecting a molecule determined as being capable of activating CD4+CD25+ regulatory T cells using the method according to the screening methods described above; and
- (b) producing a therapeutic composition comprising the molecule.

In particular, the therapeutic composition can be manufactured by combining the molecule with one or more pharmaceutically acceptable carriers or diluents.

Antibodies and antibody fragments

The work of the present inventors has allowed the identification of the features of BT061 which are important for their interaction with, and activation of, CD4+ CD25+ regulatory T cells. This has led to the identification of specific mutants/variants of the BT061 antibody which will be capable of activating CD4+CD25+ regulatory T cells.

Accordingly, in a third aspect the present invention provides an antibody or antibody fragment capable of activating CD4+CD25+ regulatory T cells comprising CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:

- (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;

- (ii) the light chain CDR2 comprises: Leu54; and Ile57;
 - (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
 - (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110,
- and wherein the antibody or antibody fragment does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.

Alternatively, the third aspect provides an antibody or antibody fragment capable of activating CD4+CD25+ regulatory T cells comprising CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:

- (i) the light chain CDR1 comprises: Ser32 or Pro32; Gly33 or Ala33; and Tyr 34;
- (ii) the light chain CDR2 comprises: Leu54, Ile54 or Thr54; and Ile57, Leu57; Val57 or Thr57;
- (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
- (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110,

and wherein the antibody or antibody fragment does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.

As discussed above, the peptide sequences of the light chain and heavy chain of the humanized antibody BT061 are shown in Figures 2A and 2B, respectively. The CDRs of the light and heavy chain are marked on these Figures. As discussed above, the amino acid residues within these CDRs are identified by residue type and number, in which the number represents the position of the amino acid within the variable region of the light or heavy chain BT061 antibody as represented in Figures 2A and 2B. The use of residue type and number has been done for the purpose of clearly identifying the amino acid residue of the BT061 CDR which is being referred to. However, it will be appreciated that the number of the residue is not intended to limit the residue to being in that position in the antibody, or fragment, of the invention. For example, in an antibody of the invention Ser32 may be at position 31 within a light chain CDR1 if a non-essential amino acid residue has been deleted from the section 1 to 30 of the light chain.

In a preferred embodiment the amino acid substitutions in the sequence of CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of the BT061 heavy chain are selected from those set out in Table 4 and Table 5 above. More preferably the antibody or antibody fragment comprises a light chain comprising Tyr53 or Phe53 and a heavy chain comprising Ser28. Alternatively, or in addition, the antibody or antibody fragment comprises a light chain containing Asp64, and/or the antibody or antibody fragment comprises a heavy chain having at least one of amino acids indicated in Table 8 of Example 1 to be important for interaction. In particular, the heavy chain comprises Asp31 and/or Glu56. The antibody or antibody fragment may further comprise the CDR3 of BT061 light chain and/or the CDR2 of BT061 heavy chain optionally with amino acid substitutions in the sequences of these CDRs wherein the substitutions are selected from those set out in Table 4 and Table 5.

In particular, recognition and binding of the CD4 epitope by the BT061 antibody is based on a particular constitution and conformation of the three complementarity determining areas CDR1, CDR2, and CDR3. Even though only CDR1 and CDR2 of the light chain and CDR1 and CDR3 of the heavy chain are in direct contact with CD4, all six CDRs are very densely packed and mutually support each other's conformation. As a consequence, many positions in the CDRs do not tolerate any amino acid substitution without significant loss of affinity and potency of BT061. In some positions, however, substitutions do not destabilize the structure.

Examples of such conservative substitutions are given in Tables 4 and 5. In these tables the sequence variations have been selected such that the overall interaction network is preserved. The syntax of attractive as well as repulsive interactions is maintained. Directed polar interactions can be inverted, e.g. donor-acceptor pair of hydrogen bridges, the ionic partners of salt bridges, or loci of the partners of dipole-quadrupole interactions can be switched.

In further embodiments the antibody or antibody fragment comprises the sequence (SEQ ID No: 14):

10	20	30	40	50	60
DIVMTQSPDS	LAVSLGERAT	INCXXXXXXXXS	XSGYSYXYWY	QQKPGQPPKL	LIYLASILEX
70	80	90	100	110	120
GVPDRFSGSG	SGTDFTLTIS	SLQAEDVAVY	YCQHSXXXPW	XFGQGTVKVEI	KRTVAAPSVF


```

130          140          150          160          170          180
IFPPSDEQLK SGTASVVCLL NNFYPREAKV QWKVDNALQS GNSQESVTEQ DSKDSTYSLS
190          200          210          218
STLTLSKADY EKHKVYACEV THQGLSSPVT KSFNRGEC

```

wherein the amino acids at positions 24 to 29, 31, 37, 60, 96 to 98 and 101 marked as “X” are selected from those shown at the corresponding positions in Table 4, and further comprising the sequence (SEQ ID No: 15):

```

10          20          30          40          50          60
EEQLVESGGG LVKPGGSLRL SCAASGFSFS XXXXYWLRQA PGKGLEWIGV XXXXXXXXXXXX
70          80          90          100         110         120
XXXXXXXXGRF TISRDDSKNT VYLQMNSLKT EDTAVYYCSA SYXRYDXXXX FXXWGQGLTV
130         140         150         160         170         180
TVSSASTKGP SVFPLAPSSK STSGGTAALG CLVKDYFPEP VTVSWNSGAL TSGVHTFPAV
190         200         210         220         230         240
LQSSGLYSLV SVVTVPSSSL GTQTYICNVN HKPSNTKVDK KVEPKSCDKT HTCPPCPAPE
250         260         270         280         290         300
LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE
310         320         330         340         350         360
EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP
370         380         390         400         410         420
SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSDGS FFLYSKLTVD
430         440         450         454
KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGK

```

wherein the amino acids at positions 31 to 34, 51 to 67, 103, 107 to 110, 111 and 112 marked as “X” are selected from those shown at the corresponding positions in Table 5.

In particular, specific amino acid motifs within CDR1 and CDR2 of the light chain and within CDR3 of the heavy chain of BT061 are important for CD4 binding. Accordingly, the antibody or antibody fragment may comprise SGYSY (SEQ ID No: 10) from CDR1 of BT061 light chain and/or the sequence LASILE (SEQ ID No: 11) from CDR2 of BT061 light chain and/or the sequence YYRYD (SEQ ID No: 12) from CDR3 of BT061 heavy chain.

Further, the antibody or antibody fragment capable of activating CD4+CD25+ regulatory T cells may have V domains that are at least 80% identical, more preferably at least 90% identical to the V domains of the antibody BT061, the V domains comprising:

- (i) the sequence motif SGYSY (SEQ ID No: 10) in CDR1 of the light chain V domain;
- (ii) the sequence motif LASILE (SEQ ID No: 11) in CDR2 of the light chain V domain; and
- (iii) the sequence motif SYXRYD where X is Y, F or H (SEQ ID No: 13) in CDR3 of the heavy chain V domain,

with the proviso that the antibody or antibody fragment does not comprise V domains that are 100% identical to the V domains of the antibody BT061.

In specific embodiments of the third aspect of the present invention the antibody or antibody fragment comprises the CDR sequence of BT061 light chain and the CDR sequences of BT061 heavy chain with a single amino acid substitution wherein the substitution is:

- (i) A63G in the heavy chain;
- (ii) R33K in the heavy chain; or
- (iii) L98I in the light chain.

or the antibody or antibody fragment comprising the CDR sequences of BT061 light chain and the CDR sequences of BT061 heavy chain and a double amino acid substitution wherein the substitutions are:

- (i) R33K and A63G in the heavy chain; or
- (ii) L98I in the light chain and R33K in the heavy chain.

In these specific embodiments of the invention the antibody or antibody fragment may further comprising the remaining variable domain sequences of BT061 heavy and light chains.

The antibodies or fragments thereof of the present invention can, in particular, be manufactured by mutagenesis of the polynucleotide sequence known to encode the variable domains of the murine B-F5 antibody and the BT061 antibody (as described in WO2004/083247).

It is noted that the definitions and preferred embodiments for antibody and antibody fragments described above in relation to the first and second aspects of the present invention also apply to the third aspect of the invention. In particular, the antibodies and fragments are preferably IgG1 antibodies, and/or preferably comprise an Fc portion such that the antibody or antibody fragment is capable of binding to an Fc receptor, preferably FcγRI (i.e. CD64). Most preferably the antibody or antibody fragment comprises the Fc portion of an IgG1 antibody. In addition, or alternatively, the antibody or antibody fragment is capable of binding to monocytes via an Fc receptor.

Further, the present invention provides an isolated peptide comprising less than 50 amino acids of human CD4 protein and including one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168, and amino acids 185 to 192. Preferably, the isolated peptide comprises two of these regions, more preferably three. In addition or alternatively the isolated peptide comprises less than 30 amino acids, and most preferably the isolated peptide comprises less than 20 amino acids.

Further, the present invention provides a mimotope peptide of the isolated peptide described above.

The present invention also includes nucleic acids encoding the antibody or antibody fragment described herein. The nucleic acid can be RNA or DNA but is preferably DNA, and most preferably encodes the V domain of the H chain or of the L chain of the antibodies or fragments. The polynucleotide may be fused with a polynucleotide coding for the constant region of a human H or L chain, for the purpose of expressing the complete H and L chains.

The invention also makes use of expression cassettes, wherein a polynucleotide as described above is linked to appropriate control sequences to allow the regulation of its transcription and translation in a chosen host cell. Further embodiments are recombinant vectors comprising a polynucleotide or an expression cassette as described above.

The polynucleotide as described above can be linked within an expression vector to appropriate control sequences allowing the regulation of its transcription and translation in a chosen host cell. These recombinant DNA constructs can be obtained and introduced into host cells by the well known techniques of recombinant DNA and genetic engineering.

Useful host cells can be prokaryotic or eukaryotic cells. Among suitable eukaryotic cells are plant cells, cells of yeast such as *Saccharomyces*, cells of insects such as *Drosophila*, or *Spodoptera*, and mammalian cells such as HeLa, CHO, 3T3, C127, BHK, COS, *etc.* The antibodies or fragments described herein can be obtained by culturing a host cell containing an expression vector comprising a nucleic acid sequence encoding said antibody under conditions suitable for the expression thereof and recovering said antibody from the host cell culture.

According to the present invention the host cell can also be a hybridoma obtained by fusing a cell producing an antibody of the present invention with a myeloma cell.

The antibody or antibody fragment has medical and non-medical uses as described further below.

In view of the medical use, the antibody or antibody fragment described herein can be formulated in a pharmaceutical composition. In particular, a pharmaceutical composition of the present invention comprises the antibody or antibody fragment and a pharmaceutically-acceptable carrier or diluent.

Still further, the antibody or antibody fragment can further comprise a label. Techniques of antibody labeling are well known in the art. Accordingly, by way of example only, the antibody can be labeled with a fluorescent label, such as GFP or a fluorescent dye (e.g. FITC, high performance dyLight), a radioactive isotope, biotin, HRP, *etc*

Uses of antibodies and epitopes

The present invention further provides methods of treatment using the antibody or antibody fragment of the present invention. Since the antibody or antibody fragment is capable of selectively activating CD4+CD25+ regulatory T cells it has particular use in therapy. The present invention provides a method of treating a subject suffering from or preventing a subject suffering from an autoimmune disease or transplant rejection comprising administering to said subject an antibody or antibody fragment according to the present invention. Similarly, the present invention also provides an antibody or antibody fragment as described herein for use in medicine, and specifically for use in the treatment of autoimmune disease or transplant rejection. Accordingly, the present invention

provides the use of an antibody or antibody fragment as described herein for the manufacture of a medicament for use in treating an autoimmune disease or transplant rejection. Suitable medical uses and methods of treatment are those as described for BT061 in WO2009/112502, WO2009/121690, WO2009/124815 and WO2010/034590, whose disclosures are incorporated herein by reference.

In a preferred embodiment the autoimmune disease is selected from psoriasis, rheumatoid arthritis, multiple sclerosis, type-1 diabetes, inflammatory bowel disease, Crohn's disease, autoimmune thyreoditis, autoimmune myasthenia gravis, systemic lupus erythematosus, ulcerative colitis, atopic dermatitis, myocarditis and transplant-related diseases such as graft-versus host or host-versus graft reactions, or general organ tolerance issues. The treatment of psoriasis and rheumatoid arthritis is particularly preferred.

The present invention further provides a method of treating a subject suffering from or preventing a subject suffering from an autoimmune disease or transplant rejection comprising removing a sample comprising CD4+ CD25+ regulatory T cells from the subject, contacting the sample with an antibody or antibody fragment as described herein to activate CD4+ CD25+ regulatory T cells and administering the activated cells to the subject. Such a method may additionally include an in vitro step of increasing the number of Treg cells. This can be done using the expansion strategies described herein (Peters et al., 2008).

Similarly, the present invention provides activated CD4+CD25+ regulatory T cells, which have been activated in vitro using the antibody or antibody fragment of the present invention. These activated T regulatory cells can be for use in medicine, and in particular for use in the treatment of autoimmune disease or transplant rejection. Similarly, the present invention provides use of CD4+CD25+ regulatory T cells activated using the antibody or antibody fragment of the present invention for the manufacture of a medicament for use in the treatment of autoimmune disease or transplant rejection.

Patients with an autoimmune disease such as rheumatoid arthritis display Tregs which have a lower suppressive capacity, which might be due to pro-inflammatory cytokines, such as TNF alpha. The present invention includes a method for screening, isolating or/and activating Tregs from patients suffering from an autoimmune disease and may display (but not necessarily) a disabled population

of Tregs. The specific binding mode of the antibody and fragments thereof of the present invention enables the antibody not only to bind to CD4 but more importantly to activate Tregs. Isolation of Tregs may occur using BT061 or the antibody or antibody fragment of the present invention. In case that an activation step will follow, CD4 selection has to occur by a CD4 antibody which does not compete with BT061 for binding to CD4. Alternatively an expansion strategy can be included before the activation step.

In the present invention Tregs might be isolated using BT061 and/or the antibody or antibody fragment of the present invention and transferred back to the patient in "Treg cell based immunotherapy". Alternatively, Tregs might be stimulated directly by administering into a patient either intravenously or subcutaneously.

Treg based immunotherapy is of great public interest to induce tolerance in autoimmune diseases or transplants. Several approaches exist to generate inducible Tregs (Tregs) *in vitro* such as the use of retinoic acid inducing FoxP3 expression or co-culturing with bone marrow derived DCs in addition to stimulation with anti-CD3 and anti-CD28 antibodies. For example, PCT Application No. PCT/US2009/054631 refers to a method of purification of FoxP3 Tregs for the treatment of autoimmune diseases ("Treg based immunotherapy") using LAP and CD121b.

Therapeutic applications require large amounts of Tregs and these cells should retain their regulatory phenotype. This is at present only achieved by selecting natural Tregs. Inducible Tregs generated by *in vitro* methods have the disadvantage that they might revert their phenotype into effector cells, causing an unpredictable risk for the patients.

However, BT061 has been demonstrated to activate Tregs in a mixed lymphocyte reaction (WO 2009112502 A1). This is due to the specific unexpected binding mode to CD4 described herein.

***In vitro* uses**

The antibody and antibody fragments and isolated peptides of the present invention also have a number of *in vitro* uses. In particular, the antibody or antibody fragment described herein can be

used for activating CD4⁺ CD25⁺ regulatory T cells *in vitro*, or for identifying CD4⁺ CD25⁺ regulatory T cells *in vitro*.

More specifically, the antibody or antibody fragment of the present invention can be used in a method for screening for the presence of CD4⁺ CD25⁺ T regulatory cells in a sample. Such a method can comprise the step of contacting a labeled antibody or antibody fragment with the sample, washing the sample to remove unbound antibody and detecting the presence of the label in the sample.

In particular, in such a method of screening the CD4⁺ CD25⁺ T regulatory cells are activated CD4⁺ CD25⁺ T regulatory cells. The sample is preferably a blood sample taken from a subject suffering from an autoimmune disease.

The present invention also describes a kit for isolating CD4⁺ CD25⁺ regulatory T cells comprising magnetic beads coated with the antibody or antibody fragment described herein. The kit may further comprise a second anti-CD25 antibody and/or anti-CD4⁺ antibody. Additional antibodies to carry out further selection steps, e.g. positive selection for CD39, a negative selection step for CD127, depletion of CD19 positive cells, can also be included. LAP (latency associated peptide), GARP or CD121b (Il-1 receptor type 2) can be used further for characterization of Treg phenotype.

Following Treg isolation, cells isolated with the antibody or antibody fragment of the present invention can be also cryopreserved (Peters et al., PLoS One (2008) 3; 9: e 3161).

Still further, the present invention provides an *in vitro* method for the activation of CD4⁺ CD25⁺ regulatory T cells comprising contacting the cells with the antibody or antibody fragments described herein. Methods for assessing the suppressive capacity of activated Tregs comprise (beside the above mentioned MLR), MLR assays determining the activation state of effector T-cells via cytokine release or expressing of activation markers on T effector cells (such as the proliferation and cytokine assay described in WO 2009112592 A1, which is incorporated herein by reference). Such methods may additionally comprise a first step of isolating the CD4⁺CD25⁺ regulatory T cells. If such a step is completed with an antibody this antibody should be a non-competing CD4 antibody (e.g. OKT4 or SK3). This allows the cells to be activated in the main step with the antibody or

fragment thereof of the present invention, which binds to a distinct epitope on CD4. In another scenario cells might be isolated using other surface expression markers of Tregs, which are distinct from CD4 such as CD25 or CD39, or by negative selection via CD127.

The antibody of the present invention has been described earlier as being capable of stimulating Tregs, which can be confirmed by co-culture with T effector cells. Tregs are able to suppress the proliferation of CD8 positive T cells by inhibiting the production of Il-2 and IFN gamma by alloreactive CD8 positive T-cells. In addition it has been demonstrated (WO 2009112592) that pre activated CD4+ CD25+ Tregs render suppressed CD8+ cells unable to express CD25 upon re-stimulation.

The invention will now be described further in relation to the following specific embodiments.

Examples

EXAMPLE 1 Crystal Structure of CD4 Complexed with BT061

A crystal structure of human CD4 complexed with the BT061 Fab fragment was obtained by x-ray diffraction.

Crystallization procedure of BT061 (Fab):CD4

Recombinant human CD4 has been produced using conventional methods: Different constructs of CD4 were cloned by standard procedures into vectors for heterologous expression in insect cells followed by purification via NiNTA. The Fab fragment of BT061 was cleaved from the intact antibody using the protease papain and purified by protein A. Subsequently the Fab fragment was further purified by size exclusion chromatography.

The CD4-Fab complex was formed by mixing the purified proteins, with a molar excess of CD4 and further purification by size exclusion chromatography.

Crystals of the CD4:BT061 complex were prepared by the method of co-crystallisation, meaning that the purified complex was used in crystallisation trials employing both, a standard screen with

approximately 1200 different conditions, as well as crystallisation conditions identified using literature data. Conditions initially obtained have been optimised using standard strategies, systematically varying parameters critically influencing crystallisation, such as temperature, protein concentration, drop ratio, and others. These conditions were also refined by systematically varying pH or precipitant concentrations.

Crystals were flash-frozen and measured at a temperature of 100 K.

The X-ray Diffraction data of the CD4:BT061 complex were collected at the SWISS LIGHT SOURCE (SLS, Villigen, Switzerland) using cryogenic conditions. The structure was solved and refined to a final resolution of 2.9 Å.

The crystals belong to space group P21 with two complexes in the asymmetric unit. Data were processed using the programmes XDS and XSCALE. Data collection statistics are summarised in Table 6 below.

Table 6 Statistics of data collection and processing

Complex	CD4:BT061
X-ray source	PX (SLS ¹)
Wavelength [Å]	1.0000
Detector	PILATUS 6M
Temperature [K]	100
Space group	P 2 ₁
Cell: a; b; c [Å]	110.18; 78.94; 132.85
α; β; γ [°]	90.0; 94.8; 90.0
Resolution [Å] ²	2.88 (3.15-2.99)
Unique reflections ²	50962 (6585)
Multiplicity ²	2.9 (2.8)
Completeness [%] ²	98.2 (98.3)
R _{sym} [%] ^{2, 3}	8.4 (44.3)
R _{meas} [%] ^{2, 4}	10.3 (54.7)
I / σ I ²	- (-)
mean(I)/sigma ^{2,5}	11.60 (2.72)

¹ SWISS LIGHT SOURCE (SLS, Villigen, Switzerland)

² Numbers in brackets correspond to the resolution bin with R_{sym} = 44.3 %.

The phase information necessary to determine and analyse the structure was obtained by molecular replacement. Published models of CD4 and a Fab fragment were used as a search model.

Subsequent model building and refinement was performed according to standard protocols with the software packages CCP4 and COOT. The asymmetric unit (as shown Figure 3) consists of two such complexes with an overall RMS resolution of 2.9Å.

In the crystal structure the signal peptides are absent from the CD4 molecule and the peptide chains only comprise the Ig-like V-type domain, the Ig-like C2-type 1 domain, and part of the Ig-like C2-type 2 domain. The exact chains in the crystal structure reach from amino acid residue 26 through to residue 258, as shown in Figure 1 in which the amino acids not represented by the crystal structure are marked inside a dashed frame. Accordingly, the CD4 molecules only have the first two disulphide bridges, one between Cys₄₁ and Cys₁₀₉, and another one between Cys₁₅₅ and Cys₁₈₄.

The light chains of the two BT061 units in the crystal structure reach from position 1 through to position 215 in one unit, and from 1 through only 182 in the other unit, as shown in Figure 2A. There are two disulphide bridges in the BT061 light chains, Cys₂₃ – Cys₉₂ and Cys₁₃₈ – Cys₁₉₈.

The heavy chains of the two BT061 units in the crystal structure reach from position 2 through 219 in one unit, as shown in Figure 2B, and from position 2 through 220 in the other unit. Also in the heavy chains there are two disulphide bridges, one between Cys₂₂ and Cys₉₈, and another one between Cys₁₅₁ and Cys₂₀₇.

Analysis of the crystal structure shows that in contrast to other known ligands of CD4, binding of BT061 involves the Ig-like C2-type 1 domain, only. This constitutes an entirely new binding mode, documented by the crystal structure given in the Appendix.

As shown in Figure 3 BT061 does not bind to the N-terminal domain of CD4, there is the possibility of concurrent binding of BT061 and a class II MHC molecule, or a gp120 HIV-1 envelope protein (as shown in Figures 4 and 5).

Detailed analysis of the crystal structure reveals the interacting amino acids of both, CD4 and BT061. Selection was based on a distance criterion. Taking into account the resolution of the crystal structure, all CD4 amino acids having non-hydrogen atoms within a sphere of radius $d = 4.5\text{\AA}$ around any non-hydrogen atom of an BT061 amino acid have been selected as interacting partners. Radius d has been selected as the typical distance of a non-bonded interaction, 3\AA , extended by half the crystal structure resolution of 2.9\AA ($d = 3\text{\AA} + \frac{1}{2} \times 2.9\text{\AA} = 4.45\text{\AA}$).

Hence, the crystal structure shows that the binding site on the surface of CD4 consists of a cluster of 7 consecutive amino acids (Gly₁₄₈ through Gln₁₅₄), a cluster of 6 consecutive amino acids (Gln₁₆₄ through Thr₁₆₈), plus Thr₁₈₅, Leu₁₈₇, Asn₁₈₉, Gln₁₉₀, and Lys₁₉₂, as shown in Figure 7.

Table 7 below shows the matrix of interacting partners of CD4 and BT061. There are only few pure 1:1 interactions; most of the listed amino acids of both, CD4 and BT061 interact with more than one partner. The interactions are mainly hydrogen bonds, complemented by van-der-Waals contacts and polar interactions.

In the top row of Table 7 the amino acids of CD4 that interact with amino acids of BT061 are shown. On the left margin the amino acids of BT061 interacting with CD4 are given. Each "x" corresponds to at least one interaction. Since there are only few 1:1 interaction pairings, pattern extended in rows or columns are found. Ser₁₅₀ and Pro₁₅₁ of CD4 interact with both, the light and the heavy chain of BT061. Val₁₈₆, which is an important part of the binding pocket for Tyr₁₀₅ of the BT061 heavy chain is not listed here, because there are no direct interactions with amino acids of BT061. All the interactions identified are either hydrogen bonds, polar interactions, van-der-Waals contacts, or combinations of these types of interaction. Identification of the interacting amino acids is based on the crystal structure given in the appendix. A distance criterion was applied, taking into account all amino acids which have at least one non-hydrogen atom closer than $d = 4.5\text{\AA}$ to a non-hydrogen atom of the other molecular partner. Roughly speaking, d corresponds to the typical distance for a non-covalent interaction of 3\AA augmented by half the overall resolution of the crystal structure (2.9\AA).

		CD4	Gly 148	Ser 149	Ser 150	Pro 151	Ser 152	Val 153	Gln 154	Gln 164	Gly 165	Gly 166	Lys 167	Thr 168	Thr 185	Leu 187	Asn 189	Gln 190	Lys 192	
BT061	Light chain	Ser 32										x	x	x						
		Gly 33												x						
		Tyr 34			x	x														
		Tyr 53			x															
		Leu 54			x															
		Ile 57	x	x																
	Heavy chain	Ser 28																	x	
		Asp 31																	x	
		Tyr 102																x	x	
		Tyr 103									x						x			
		Arg 104			x	x	x										x			
		Tyr 105					x	x	x		x					x	x			x
		Asp 106					x					x								
		Trp 110			x															

Table 7 Table showing the interacting amino acids of CD4 and BT061.

Figure 7 shows the CD4 amino acids of the BT061 binding site as a schematic representation of their relative orientation. Besides the amino acids fulfilling directly the above mentioned distance criterion, a number of amino acids are available for additional interactions with BT061 upon moderate changes of conformation of both, BT061 and CD4. Those amino acids, Arg₁₅₆, Gln₁₈₈, Asn₁₈₉, Gln₁₉₀, and Lys₁₉₂ are likely to be involved in the mechanism of signal transduction of CD4.

BT061 binds with both, the light and the heavy chain to CD4. The respective amino acids of the light chain are shown in Figure 8. The amino acids of heavy chain involved in binding to CD4 are shown in Figure 9.

Tyr₁₀₅ of the BT061 heavy chain plays a very important role for the interaction with CD4. Its side chain perfectly fits into a pocket on the surface of CD4 (Figure 10).

Even though salt bridges are typical elements of interaction between antibodies no salt bridges between CD4 and BT061 exist in the crystal structure. Interestingly, BT061 shows a number of intramolecular salt bridges. One of them, formed between Arg₁₀₄ and Asp₁₀₆, confers polar interactions with a pocket on the surface of CD4 (Figure 11). The formation of the intramolecular salt bridges can be influenced by substances with buffer activity, which in turn can induce conformational changes of BT061 and the complex with CD4, thus contributing to signal transduction of CD4.

The other very important residue for the interaction with CD4 is Tyr₃₄ of the BT061 light chain. Much like Tyr₁₀₅ of the heavy chain, Tyr₃₄ accommodates in a pocket on the surface of CD4 (Figure 12).

Comparing the crystal structure of the complex of CD4 with BT061 with crystal structures of the CD4 complexes with a class II MHC molecule, and with the gp120 HIV-1 envelope protein it can immediately be seen that BT061 is bound to an entirely different part of the CD4 surface. With respect to the other ligands of CD4, BT061 binds on the opposite side of the extracellular part of CD4 (Figures 4 and 5) and does not interfere with the binding sites of other ligands.

The CD4 amino acids Lys₂₆, Arg₁₅₆, Lys₁₆₁, and Lys₁₉₂ are available for additional interactions with charge complementary amino acids of BT061 as indicated in Table 8 shown below.

		CD4									
		Lys 26	Arg 156	Arg 159	Lys 161	Lys 192					
BT061	Light chain	Asp 64	x								
	Heavy chain	Asp 31		x						x	
		Glu 56		x				x			

Table 8. Additional Interactions between CD4 and BT061

In the top row of Table 8 the amino acids of CD4 that can form salt bridges with amino acids of BT061 are shown. On the left margin the possible salt bridge partner amino acids of BT061 are given. Each “x” corresponds to a possible salt bridge. The pairs indicated do not match the distance criterion of $d=4.5\text{\AA}$ mentioned above. However, a series of moderate conformational changes in both, CD4 and BT061 can result in the formation of the indicated salt bridges. For BT061, a shift of the sequence stretches Ser₅₆ to Gly₆₈ of light chain, and Ser₂₅ to Cys₃₂, as well as Ser₅₂ to Gly₅₉ of the heavy chain allows forming the salt bridges with Asp₃₁ and Glu₅₆ of CD4.

EXAMPLE 2 Creating and testing mutants of BT061

BT061 variable domain mutants were manufactured by introduction of specific mutations into the nucleotide sequences encoding the variable domains of BT061 and expression of the mutated amino acid sequence and therefore antibody or antibody fragments, using standard techniques for DNA manipulation and antibody production.

The following BT061 variants were made:

- (1) six variants having one mutation each in all 6 CDRs : the mutations in CDR1, CDR2 and CDR3 of the light chain are G33A, A55G and L98I, respectively; the mutations in CDR1, CDR2 and CDR3 of the heavy chain are R33K, A63G, and S101T, respectively;
- (2) one variant having two mutations in one variable domain: R33K and A63G in the heavy chain variable domain; and
- (3) three variants having parallel mutation of both heavy and light chain (e.g. combinations of heavy and light chain variants from part (1): light chain L98I with heavy chain R33K; light chain A55G with heavy chain R33K; and light chain G33A with heavy chain R33K.

The ability of the BT061 variants to activate CD4+CD25+ regulatory T cells was determined by in vitro assay. A negative control of an antibody which does not bind to CD4 was used. The BT061 variant having a mutation in the heavy chain CDR3 (Y105W) was also created as a negative control;

based on the results obtained in example 1, it was predicted that this amino acid was critical to BT061 binding. As positive controls, an antibody produced from the the master light and heavy chain sequence was used, as well as a sample from BT061 produced for clinical trials.

In vitro assay:

The induction of suppressive capacity of CD4⁺ CD25⁺ regulatory T cells (Tregs) from healthy donors by variants of the antibody BT061 was assessed in allogeneic mixed lymphocytes reactions (indirect co-culture).

CD4⁺ CD25⁺ regulatory T cells were freshly isolated from a first donor (donor A). PBMCs were obtained from EDTA-blood by density gradient centrifugation. Tregs, responder T cells (Tresp) and APCs were immunomagnetically separated from PBMCs as previously described (Haas et al., J Immunol. 2007 Jul 15; 179(2):1322-30). Tregs were pre-incubated with or without plate-bound antibody for 2 days. The number and phenotype of Tregs was determined by six colour flow cytometry as previously described (Haas et al., 2007). Pre-incubated Tregs were transferred to responder T cells (second donor B) in the presence of T-cell depleted and irradiated PBMCs (first donor A). After stimulation, [³H] thymidine was added and proliferation of responder T cells was measured after five days.

Results:

The results of the *in vitro* assay are shown below in Table 9. The percentage inhibition of responder T cell inhibition was measured three times for each variant and an average was taken.

Variant	% Inh1	% Inh2	% Inh3	Avg.	Std.dev.
LC master HC master	27,7%	25,4%	25,9%	26,3%	1,0%
BT61 Lot 52690	26,7%	24,1%	27,8%	26,2%	1,6%
LC master HC A63G	33,1%	25,5%	19,5%	26,0%	5,6%
LC master HC R33K-A63G	15,7%	21,5%	21,9%	19,7%	2,8%
LC L98I HC R33K	9,2%	24,3%	24,6%	19,4%	7,2%
LC master HC R33K	19,8%	18,8%	15,0%	17,9%	2,1%
HC master LC L98I	12,2%	8,4%	18,2%	12,9%	4,0%
LC A55G HC R33K	12,1%	6,4%	19,3%	12,6%	5,3%
LC G33A HC R33K	6,5%	7,9%	9,0%	7,8%	1,0%
Negative control	3,0%	7,0%	5,2%	5,1%	1,6%
LC master HC Y105W	5,3%	2,0%	7,0%	4,8%	2,0%
LC master HC S101T	3,1%	-3,6%	0,0%	-0,2%	2,7%

Table 9. Results from in vitro assay with BT061 variants

As predicted the knockout mutant of LC master HC Y105W did not bind CD4 and was unable to activate regulatory T cells. Further the results indicate that single positions within the heavy chain can be mutated at least according to the substitutions set out in Table 5 (single variants HC R33K, A63G and double variants HC R33K and A63G retained activity). Further, as predicted by the crystal structure work, the residues surrounding Tyr34 in the light chain which make up a loop also appear to be crucial for binding.

APPENDIX

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HEADER      BIOTEST AG
TITLE       FAB FRAGMENT OF BT061 IN COMPLEX WITH CD4
COMPND      MOL_ID: 1;
COMPND      2 MOLECULE: FAB FRAGMENT;
COMPND      3 CHAIN: A;
COMPND      4 FRAGMENT: CD4
SOURCE      MOL_ID: 1;
SOURCE      2 SYNTHETIC: YES;
SOURCE      3 ORGANISM_SCIENTIFIC: HOMO SAPIENS
SOURCE      4 ORGANISM_COMMON: HUMAN
KEYWDS      FAB FRAGMENT, CD4
EXPDTA      X-RAY DIFFRACTION
REMARK      2
REMARK      2 RESOLUTION: 2.9 ANGSTROMS.
REMARK      3
REMARK      3 REFINEMENT.
REMARK      3   PROGRAM       : REFMAC 5.2.0005
REMARK      3   AUTHORS        : MURSHUDOV, VAGIN, DODSON
REMARK      3
REMARK      3   REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK      3
REMARK      3 DATA USED IN REFINEMENT.
REMARK      3   RESOLUTION RANGE HIGH (ANGSTROMS) : 2.88
REMARK      3   RESOLUTION RANGE LOW  (ANGSTROMS) : 49.27
REMARK      3   DATA CUTOFF          (SIGMA(F))   : NONE
REMARK      3   COMPLETENESS FOR RANGE (%)         : 100.00
REMARK      3   NUMBER OF REFLECTIONS              : 49941
REMARK      3
REMARK      3 FIT TO DATA USED IN REFINEMENT.
REMARK      3   CROSS-VALIDATION METHOD             : THROUGHOUT
REMARK      3   FREE R VALUE TEST SET SELECTION    : RANDOM
REMARK      3   R VALUE (WORKING + TEST SET)       : 0.23152
REMARK      3   R VALUE (WORKING SET)              : 0.23041
REMARK      3   FREE R VALUE                       : 0.28740
REMARK      3   FREE R VALUE TEST SET SIZE (%)     : 2.0
REMARK      3   FREE R VALUE TEST SET COUNT        : 1020
REMARK      3
REMARK      3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK      3   TOTAL NUMBER OF BINS USED          : 20
REMARK      3   BIN RESOLUTION RANGE HIGH          : 2.880
REMARK      3   BIN RESOLUTION RANGE LOW           : 2.955
REMARK      3   REFLECTION IN BIN (WORKING SET)    : 3636
REMARK      3   BIN COMPLETENESS (WORKING+TEST) (%) : 100.00
REMARK      3   BIN R VALUE (WORKING SET)          : 0.376
REMARK      3   BIN FREE R VALUE SET COUNT         : 75
REMARK      3   BIN FREE R VALUE                   : 0.371
REMARK      3
REMARK      3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK      3   ALL ATOMS                          : 10284
REMARK      3
REMARK      3 B VALUES.
REMARK      3   FROM WILSON PLOT (A**2)           : NULL
REMARK      3   MEAN B VALUE (OVERALL, A**2)      : 52.022
REMARK      3   OVERALL ANISOTROPIC B VALUE.
REMARK      3   B11 (A**2) : -1.61
REMARK      3   B22 (A**2) : 3.33
REMARK      3   B33 (A**2) : -1.44
REMARK      3   B12 (A**2) : 0.00
REMARK      3   B13 (A**2) : 1.69
REMARK      3   B23 (A**2) : 0.00

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REMARK 3
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
REMARK 3 ESU BASED ON R VALUE (A): 0.722
REMARK 3 ESU BASED ON FREE R VALUE (A): 0.378
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD (A): 0.295
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2): 33.905
REMARK 3
REMARK 3 CORRELATION COEFFICIENTS.
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.912
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.876
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT
REMARK 3 BOND LENGTHS REFINED ATOMS (A): 10456 ; 0.009 ; 0.022
REMARK 3 BOND LENGTHS OTHERS (A): 9324 ; 0.001 ; 0.020
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES): 14158 ; 1.228 ; 1.961
REMARK 3 BOND ANGLES OTHERS (DEGREES): 21862 ; 0.727 ; 3.000
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES): 1306 ; 7.017 ; 5.000
REMARK 3 TORSION ANGLES, PERIOD 2 (DEGREES): 424 ; 35.372 ; 24.858
REMARK 3 TORSION ANGLES, PERIOD 3 (DEGREES): 1818 ; 18.316 ; 15.000
REMARK 3 TORSION ANGLES, PERIOD 4 (DEGREES): 41 ; 16.414 ; 15.000
REMARK 3 CHIRAL-CENTER RESTRAINTS (A**3): 1602 ; 0.069 ; 0.200
REMARK 3 GENERAL PLANES REFINED ATOMS (A): 11455 ; 0.003 ; 0.020
REMARK 3 GENERAL PLANES OTHERS (A): 1996 ; 0.001 ; 0.020
REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A): 1858 ; 0.192 ; 0.200
REMARK 3 NON-BONDED CONTACTS OTHERS (A): 9611 ; 0.173 ; 0.200
REMARK 3 NON-BONDED TORSION REFINED ATOMS (A): 4911 ; 0.180 ; 0.200
REMARK 3 NON-BONDED TORSION OTHERS (A): 6795 ; 0.083 ; 0.200
REMARK 3 H-BOND (X...Y) REFINED ATOMS (A): 238 ; 0.216 ; 0.200
REMARK 3 H-BOND (X...Y) OTHERS (A): 2 ; 0.093 ; 0.200
REMARK 3 SYMMETRY VDW REFINED ATOMS (A): 14 ; 0.169 ; 0.200
REMARK 3 SYMMETRY VDW OTHERS (A): 58 ; 0.166 ; 0.200
REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A): 4 ; 0.117 ; 0.200
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 8442 ; 1.414 ; 2.000
REMARK 3 MAIN-CHAIN BOND OTHER ATOMS (A**2): 2703 ; 0.279 ; 2.000
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 10593 ; 1.907 ; 3.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 4611 ; 2.821 ; 4.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 3565 ; 4.196 ; 6.000
REMARK 3
REMARK 3 NCS RESTRAINTS STATISTICS
REMARK 3 NUMBER OF DIFFERENT NCS GROUPS : 4
REMARK 3
REMARK 3 NCS GROUP NUMBER : 1
REMARK 3 CHAIN NAMES : L A
REMARK 3 NUMBER OF COMPONENTS NCS GROUP : 1
REMARK 3 COMPONENT C SSSEQI TO C SSSEQI CODE
REMARK 3 1 L 1 L 118 4
REMARK 3 1 A 1 A 118 4
REMARK 3 GROUP CHAIN COUNT RMS WEIGHT
REMARK 3 MEDIUM POSITIONAL 1 L (A): 1730 ; 0.35 ; 0.50
REMARK 3 MEDIUM THERMAL 1 L (A**2): 1730 ; 0.41 ; 2.00
REMARK 3
REMARK 3 NCS GROUP NUMBER : 2
REMARK 3 CHAIN NAMES : L A
REMARK 3 NUMBER OF COMPONENTS NCS GROUP : 1
REMARK 3 COMPONENT C SSSEQI TO C SSSEQI CODE
REMARK 3 1 L 119 L 222 4
REMARK 3 1 A 119 A 222 4
REMARK 3 GROUP CHAIN COUNT RMS WEIGHT
REMARK 3 MEDIUM POSITIONAL 2 L (A): 478 ; 0.40 ; 0.50
REMARK 3 MEDIUM THERMAL 2 L (A**2): 478 ; 0.30 ; 2.00
REMARK 3

REMARK 3 NCS GROUP NUMBER : 3
 REMARK 3 CHAIN NAMES : H B
 REMARK 3 NUMBER OF COMPONENTS NCS GROUP : 1
 REMARK 3 COMPONENT C SSSEQI TO C SSSEQI CODE
 REMARK 3 1 H 1 H 114 4
 REMARK 3 1 B 1 B 114 4
 REMARK 3 GROUP CHAIN COUNT RMS WEIGHT
 REMARK 3 MEDIUM POSITIONAL 3 H (A): 1679 ; 0.41 ; 0.50
 REMARK 3 MEDIUM THERMAL 3 H (A**2): 1679 ; 0.46 ; 2.00
 REMARK 3
 REMARK 3 NCS GROUP NUMBER : 4
 REMARK 3 CHAIN NAMES : H B
 REMARK 3 NUMBER OF COMPONENTS NCS GROUP : 1
 REMARK 3 COMPONENT C SSSEQI TO C SSSEQI CODE
 REMARK 3 1 H 115 H 222 4
 REMARK 3 1 B 115 B 222 4
 REMARK 3 GROUP CHAIN COUNT RMS WEIGHT
 REMARK 3 MEDIUM POSITIONAL 4 H (A): 1062 ; 0.33 ; 0.50
 REMARK 3 MEDIUM THERMAL 4 H (A**2): 1062 ; 0.33 ; 2.00
 REMARK 3
 REMARK 3
 REMARK 3 TLS DETAILS
 REMARK 3 NUMBER OF TLS GROUPS : 6
 REMARK 3 ATOM RECORD CONTAINS RESIDUAL B FACTORS ONLY
 REMARK 3
 REMARK 3 TLS GROUP : 1
 REMARK 3 NUMBER OF COMPONENTS GROUP : 1
 REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
 REMARK 3 RESIDUE RANGE : L 1 L 118
 REMARK 3 ORIGIN FOR THE GROUP (A):
 REMARK 3 T TENSOR
 REMARK 3 T11: 2.0000 T22: 0.0000
 REMARK 3 T33: 0.0000 T12: 0.0000
 REMARK 3 T13: 0.0000 T23: 0.0000
 REMARK 3 L TENSOR
 REMARK 3 L11: 0.0000 L22: 119.0000
 REMARK 3 L33: 0.0000 L12: 222.0000
 REMARK 3 L13: 0.0000 L23: 0.0000
 REMARK 3 S TENSOR
 REMARK 3 S11: 0.0000 S12: 0.0000 S13: 0.0000
 REMARK 3 S21: 0.0000 S22: 0.0000 S23: 0.0000
 REMARK 3 S31: 0.0000 S32: 0.0000 S33: 0.0000
 REMARK 3
 REMARK 3 TLS GROUP : 2
 REMARK 3 NUMBER OF COMPONENTS GROUP : 1
 REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
 REMARK 3 RESIDUE RANGE : H 1 H 118
 REMARK 3 ORIGIN FOR THE GROUP (A):
 REMARK 3 T TENSOR
 REMARK 3 T11: 4.0000 T22: 0.0000
 REMARK 3 T33: 0.0000 T12: 0.0000
 REMARK 3 T13: 0.0000 T23: 0.0000
 REMARK 3 L TENSOR
 REMARK 3 L11: 0.0000 L22: 119.0000
 REMARK 3 L33: 0.0000 L12: 222.0000
 REMARK 3 L13: 0.0000 L23: 0.0000
 REMARK 3 S TENSOR
 REMARK 3 S11: 0.0000 S12: 0.0000 S13: 0.0000
 REMARK 3 S21: 0.0000 S22: 0.0000 S23: 0.0000
 REMARK 3 S31: 0.0000 S32: 0.0000 S33: 0.0000
 REMARK 3
 REMARK 3 TLS GROUP : 3
 REMARK 3 NUMBER OF COMPONENTS GROUP : 1

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REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : A 1 A 114
REMARK 3 ORIGIN FOR THE GROUP (A):
REMARK 3 T TENSOR
REMARK 3 T11: 6.0000 T22: 0.0000
REMARK 3 T33: 0.0000 T12: 0.0000
REMARK 3 T13: 0.0000 T23: 0.0000
REMARK 3 L TENSOR
REMARK 3 L11: 0.0000 L22: 115.0000
REMARK 3 L33: 0.0000 L12: 222.0000
REMARK 3 L13: 0.0000 L23: 0.0000
REMARK 3 S TENSOR
REMARK 3 S11: 0.0000 S12: 0.0000 S13: 0.0000
REMARK 3 S21: 0.0000 S22: 0.0000 S23: 0.0000
REMARK 3 S31: 0.0000 S32: 0.0000 S33: 0.0000
REMARK 3
REMARK 3 TLS GROUP : 4
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : B 1 B 114
REMARK 3 ORIGIN FOR THE GROUP (A):
REMARK 3 T TENSOR
REMARK 3 T11: 8.0000 T22: 0.0000
REMARK 3 T33: 0.0000 T12: 0.0000
REMARK 3 T13: 0.0000 T23: 0.0000
REMARK 3 L TENSOR
REMARK 3 L11: 0.0000 L22: 115.0000
REMARK 3 L33: 0.0000 L12: 222.0000
REMARK 3 L13: 0.0000 L23: 0.0000
REMARK 3 S TENSOR
REMARK 3 S11: 0.0000 S12: 0.0000 S13: 0.0000
REMARK 3 S21: 0.0000 S22: 0.0000 S23: 0.0000
REMARK 3 S31: 0.0000 S32: 0.0000 S33: 0.0000
REMARK 3
REMARK 3 TLS GROUP : 5
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : C 1 C 180
REMARK 3 ORIGIN FOR THE GROUP (A):
REMARK 3 T TENSOR
REMARK 3 T11: 10.0000 T22: 0.0000
REMARK 3 T33: 0.0000 T12: 0.0000
REMARK 3 T13: 0.0000 T23: 0.0000
REMARK 3 L TENSOR
REMARK 3 L11: 0.0000 L22: 1.0000
REMARK 3 L33: 0.0000 L12: 180.0000
REMARK 3 L13: 0.0000 L23: 0.0000
REMARK 3 S TENSOR
REMARK 3 S11: 0.0000 S12: 0.0000 S13: 0.0000
REMARK 3 S21: 0.0000 S22: 0.0000 S23: 0.0000
REMARK 3 S31: 0.0000 S32: 0.0000 S33: 0.0000
REMARK 3
REMARK 3 TLS GROUP : 6
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : C 181 C 380
REMARK 3 ORIGIN FOR THE GROUP (A):
REMARK 3 T TENSOR
REMARK 3 T11: 12.0000 T22: 0.0000
REMARK 3 T33: 0.0000 T12: 0.0000
REMARK 3 T13: 0.0000 T23: 0.0000
REMARK 3 L TENSOR
REMARK 3 L11: 0.0000 L22: 181.0000

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REMARK 3 L33: 0.0000 L12: 380.0000
 REMARK 3 L13: 0.0000 L23: 0.0000
 REMARK 3 S TENSOR
 REMARK 3 S11: 0.0000 S12: 0.0000 S13: 0.0000
 REMARK 3 S21: 0.0000 S22: 0.0000 S23: 0.0000
 REMARK 3 S31: 0.0000 S32: 0.0000 S33: 0.0000
 REMARK 3
 REMARK 3 ATOM RECORD CONTAINS RESIDUAL B FACTORS ONLY
 REMARK 3
 REMARK 3 TLS GROUP : 1
 REMARK 3 NUMBER OF COMPONENTS GROUP : 1
 REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
 REMARK 3 RESIDUE RANGE : L 1 L 118
 REMARK 3 ORIGIN FOR THE GROUP (A): 34.0774 4.1630 34.7010
 REMARK 3 T TENSOR
 REMARK 3 T11: -0.0925 T22: -0.0085
 REMARK 3 T33: -0.0772 T12: 0.0721
 REMARK 3 T13: 0.1030 T23: 0.1518
 REMARK 3 L TENSOR
 REMARK 3 L11: 2.1122 L22: 0.7711
 REMARK 3 L33: 4.9967 L12: -0.5661
 REMARK 3 L13: 0.1050 L23: -0.3455
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.0080 S12: 0.5079 S13: 0.2345
 REMARK 3 S21: -0.4260 S22: -0.2376 S23: -0.3549
 REMARK 3 S31: 0.3135 S32: 0.8283 S33: 0.2455
 REMARK 3
 REMARK 3 TLS GROUP : 2
 REMARK 3 NUMBER OF COMPONENTS GROUP : 1
 REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
 REMARK 3 RESIDUE RANGE : L 119 L 222
 REMARK 3 ORIGIN FOR THE GROUP (A): 21.6146 -3.8126 1.1893
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.4726 T22: 0.2750
 REMARK 3 T33: -0.0808 T12: -0.0116
 REMARK 3 T13: 0.1752 T23: -0.0339
 REMARK 3 L TENSOR
 REMARK 3 L11: 6.9206 L22: 1.9549
 REMARK 3 L33: 9.3382 L12: -1.0476
 REMARK 3 L13: 4.6283 L23: 0.1643
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.3330 S12: 1.0733 S13: -0.2008
 REMARK 3 S21: -0.5473 S22: -0.0661 S23: 0.0016
 REMARK 3 S31: 0.3697 S32: 0.4209 S33: 0.3991
 REMARK 3
 REMARK 3 TLS GROUP : 3
 REMARK 3 NUMBER OF COMPONENTS GROUP : 1
 REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
 REMARK 3 RESIDUE RANGE : H 1 H 118
 REMARK 3 ORIGIN FOR THE GROUP (A): 12.9034 6.8440 41.4571
 REMARK 3 T TENSOR
 REMARK 3 T11: -0.1425 T22: -0.2315
 REMARK 3 T33: -0.1588 T12: 0.0165
 REMARK 3 T13: 0.0200 T23: -0.0215
 REMARK 3 L TENSOR
 REMARK 3 L11: 2.6891 L22: 1.4103
 REMARK 3 L33: 2.8991 L12: -0.9097
 REMARK 3 L13: 0.3158 L23: 0.1940
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.0860 S12: 0.1826 S13: -0.0201
 REMARK 3 S21: -0.0986 S22: -0.1525 S23: 0.3016
 REMARK 3 S31: 0.2526 S32: -0.1665 S33: 0.2385
 REMARK 3

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REMARK 3   TLS GROUP :      4
REMARK 3   NUMBER OF COMPONENTS GROUP :      1
REMARK 3   COMPONENTS          C SSSEQI   TO   C SSSEQI
REMARK 3   RESIDUE RANGE :    H   119           H   222
REMARK 3   ORIGIN FOR THE GROUP (A):  10.0696  -4.9768  15.4814
REMARK 3   T TENSOR
REMARK 3     T11:   0.3487 T22:   0.1930
REMARK 3     T33:  -0.0301 T12:  -0.0884
REMARK 3     T13:   0.0902 T23:   0.0141
REMARK 3   L TENSOR
REMARK 3     L11:   4.9078 L22:   0.9490
REMARK 3     L33:   2.3693 L12:   0.1356
REMARK 3     L13:  -1.4071 L23:   0.9275
REMARK 3   S TENSOR
REMARK 3     S11:  -0.5914 S12:  -0.3320 S13:  -0.7844
REMARK 3     S21:  -0.5500 S22:   0.2083 S23:   0.0456
REMARK 3     S31:   0.8546 S32:  -0.5341 S33:   0.3830
REMARK 3
REMARK 3   TLS GROUP :      5
REMARK 3   NUMBER OF COMPONENTS GROUP :      1
REMARK 3   COMPONENTS          C SSSEQI   TO   C SSSEQI
REMARK 3   RESIDUE RANGE :    A    1           A   114
REMARK 3   ORIGIN FOR THE GROUP (A): -15.4841  -4.3916  40.7560
REMARK 3   T TENSOR
REMARK 3     T11:   0.0309 T22:  -0.0078
REMARK 3     T33:  -0.0631 T12:  -0.1474
REMARK 3     T13:  -0.0713 T23:   0.0966
REMARK 3   L TENSOR
REMARK 3     L11:   2.9713 L22:   2.0240
REMARK 3     L33:   4.0886 L12:   1.7325
REMARK 3     L13:   0.6998 L23:  -0.4779
REMARK 3   S TENSOR
REMARK 3     S11:  -0.5589 S12:   0.9646 S13:   0.4929
REMARK 3     S21:  -0.3574 S22:   0.2963 S23:   0.1246
REMARK 3     S31:  -0.6789 S32:   0.3641 S33:   0.2626
REMARK 3
REMARK 3   TLS GROUP :      6
REMARK 3   NUMBER OF COMPONENTS GROUP :      1
REMARK 3   COMPONENTS          C SSSEQI   TO   C SSSEQI
REMARK 3   RESIDUE RANGE :    A   115           A   222
REMARK 3   ORIGIN FOR THE GROUP (A): -18.4640  -5.6643  13.2181
REMARK 3   T TENSOR
REMARK 3     T11:   0.3721 T22:   0.5165
REMARK 3     T33:   0.1442 T12:  -0.1750
REMARK 3     T13:  -0.1099 T23:   0.3085
REMARK 3   L TENSOR
REMARK 3     L11:   7.9687 L22:   9.9652
REMARK 3     L33:   6.7758 L12:   8.8789
REMARK 3     L13:   3.4153 L23:   4.4245
REMARK 3   S TENSOR
REMARK 3     S11:  -0.5121 S12:  -0.1151 S13:   0.2897
REMARK 3     S21:  -0.6527 S22:   0.0754 S23:   0.2830
REMARK 3     S31:  -0.1875 S32:   0.5151 S33:   0.4367
REMARK 3
REMARK 3   TLS GROUP :      7
REMARK 3   NUMBER OF COMPONENTS GROUP :      1
REMARK 3   COMPONENTS          C SSSEQI   TO   C SSSEQI
REMARK 3   RESIDUE RANGE :    B    1           B   114
REMARK 3   ORIGIN FOR THE GROUP (A): -26.6676 -23.2278  44.1916
REMARK 3   T TENSOR
REMARK 3     T11:  -0.1839 T22:  -0.0790
REMARK 3     T33:  -0.0886 T12:  -0.0213
REMARK 3     T13:   0.0625 T23:  -0.1009

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REMARK 3 L TENSOR
REMARK 3 L11: 3.0455 L22: 1.4373
REMARK 3 L33: 2.6154 L12: 0.5832
REMARK 3 L13: 1.1863 L23: 0.0809
REMARK 3 S TENSOR
REMARK 3 S11: -0.1089 S12: 0.5431 S13: -0.7596
REMARK 3 S21: -0.1800 S22: 0.1339 S23: -0.1796
REMARK 3 S31: 0.1077 S32: 0.0582 S33: -0.0250
REMARK 3
REMARK 3 TLS GROUP : 8
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : B 115 B 222
REMARK 3 ORIGIN FOR THE GROUP (A): -25.1927 -22.6544 15.6984
REMARK 3 T TENSOR
REMARK 3 T11: 0.1708 T22: 0.8383
REMARK 3 T33: -0.1174 T12: -0.1954
REMARK 3 T13: 0.0466 T23: -0.1825
REMARK 3 L TENSOR
REMARK 3 L11: 0.6073 L22: 3.3530
REMARK 3 L33: 3.8016 L12: 1.4235
REMARK 3 L13: 0.2857 L23: 0.4225
REMARK 3 S TENSOR
REMARK 3 S11: -0.4259 S12: 0.6847 S13: 0.0804
REMARK 3 S21: -0.7985 S22: 0.3366 S23: -0.0886
REMARK 3 S31: 0.2684 S32: 0.4004 S33: 0.0893
REMARK 3
REMARK 3 TLS GROUP : 9
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : C 1 C 180
REMARK 3 ORIGIN FOR THE GROUP (A): 35.7158 -7.3606 65.7332
REMARK 3 T TENSOR
REMARK 3 T11: -0.1452 T22: -0.0687
REMARK 3 T33: -0.0721 T12: 0.0065
REMARK 3 T13: -0.0658 T23: 0.0456
REMARK 3 L TENSOR
REMARK 3 L11: 1.1034 L22: 4.2466
REMARK 3 L33: 1.1325 L12: -0.2671
REMARK 3 L13: -0.3798 L23: 1.1165
REMARK 3 S TENSOR
REMARK 3 S11: 0.0853 S12: -0.1113 S13: -0.1585
REMARK 3 S21: 0.0004 S22: -0.0963 S23: -0.2630
REMARK 3 S31: 0.0304 S32: 0.1813 S33: 0.0109
REMARK 3
REMARK 3 TLS GROUP : 10
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : D 1 D 180
REMARK 3 ORIGIN FOR THE GROUP (A): 1.4791 -18.6629 63.8831
REMARK 3 T TENSOR
REMARK 3 T11: -0.0882 T22: -0.2158
REMARK 3 T33: -0.0033 T12: -0.0591
REMARK 3 T13: -0.0712 T23: 0.0506
REMARK 3 L TENSOR
REMARK 3 L11: 4.1627 L22: 0.6887
REMARK 3 L33: 1.6928 L12: -0.5821
REMARK 3 L13: -1.3565 L23: -0.0674
REMARK 3 S TENSOR
REMARK 3 S11: 0.0942 S12: 0.0481 S13: -0.1530
REMARK 3 S21: 0.0632 S22: -0.0674 S23: -0.1425
REMARK 3 S31: -0.0044 S32: 0.1570 S33: -0.0268
REMARK 3

REMARK 3 TLS GROUP : 11
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : C 181 C 380
REMARK 3 ORIGIN FOR THE GROUP (A): 36.5001 36.1209 86.2248
REMARK 3 T TENSOR
REMARK 3 T11: 0.0149 T22: 0.0474
REMARK 3 T33: 0.0512 T12: -0.0859
REMARK 3 T13: -0.0012 T23: 0.0006
REMARK 3 L TENSOR
REMARK 3 L11: 0.4991 L22: 4.2729
REMARK 3 L33: 2.2884 L12: 0.0613
REMARK 3 L13: -0.0422 L23: 1.6006
REMARK 3 S TENSOR
REMARK 3 S11: 0.0700 S12: -0.1894 S13: 0.3339
REMARK 3 S21: 0.3199 S22: -0.1636 S23: 0.0538
REMARK 3 S31: -0.4706 S32: -0.0348 S33: 0.0936
REMARK 3
REMARK 3 TLS GROUP : 12
REMARK 3 NUMBER OF COMPONENTS GROUP : 1
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : D 181 D 380
REMARK 3 ORIGIN FOR THE GROUP (A): -22.0680 -7.2511 94.0538
REMARK 3 T TENSOR
REMARK 3 T11: 0.3324 T22: -0.0300
REMARK 3 T33: 0.1241 T12: -0.0639
REMARK 3 T13: -0.0093 T23: -0.1280
REMARK 3 L TENSOR
REMARK 3 L11: 3.2904 L22: 1.2480
REMARK 3 L33: 5.3741 L12: -0.6499
REMARK 3 L13: -3.1202 L23: 1.5523
REMARK 3 S TENSOR
REMARK 3 S11: 0.2251 S12: -0.5588 S13: 0.4970
REMARK 3 S21: 0.6434 S22: -0.2477 S23: -0.0135
REMARK 3 S31: -0.3232 S32: 0.0394 S33: 0.0226
REMARK 3
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED : BABINET MODEL WITH MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS : 1.20
REMARK 3 ION PROBE RADIUS : 0.80
REMARK 3 SHRINKAGE RADIUS : 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 EXPERIMENT TYPE : X-RAY DIFFRACTION
REMARK 200 DATE OF DATA COLLECTION : NULL
REMARK 200 TEMPERATURE (KELVIN) : 100
REMARK 200 PH : NULL
REMARK 200 NUMBER OF CRYSTALS USED : 1
REMARK 200
REMARK 200 SYNCHROTRON (Y/N) : Y
REMARK 200 RADIATION SOURCE : SLS
REMARK 200 BEAMLINE : PX
REMARK 200 X-RAY GENERATOR MODEL : NULL
REMARK 200 MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200 WAVELENGTH OR RANGE (A) : 1.0000
REMARK 200 MONOCHROMATOR : NULL
REMARK 200 OPTICS : NULL

REMARK 200
REMARK 200 DETECTOR TYPE : PILATUS 6M
REMARK 200 DETECTOR MANUFACTURER : DECTRIS
REMARK 200 INTENSITY-INTEGRATION SOFTWARE : XDS
REMARK 200 DATA SCALING SOFTWARE : XSCALE
REMARK 200
REMARK 200 NUMBER OF UNIQUE REFLECTIONS : 50962
REMARK 200 RESOLUTION RANGE HIGH (A) : 2.88
REMARK 200 RESOLUTION RANGE LOW (A) : 49.27
REMARK 200 REJECTION CRITERIA (SIGMA(I)) : 0.0
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE (%) : 98.2
REMARK 200 DATA REDUNDANCY : 2.9
REMARK 200 R MERGE (I) : 8.40
REMARK 200 R SYM (I) : NULL
REMARK 200 <I/SIGMA(I)> FOR THE DATA SET : NULL
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : 2.88
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A) : 2.99
REMARK 200 COMPLETENESS FOR SHELL (%) : 97.2
REMARK 200 DATA REDUNDANCY IN SHELL : 2.9
REMARK 200 R MERGE FOR SHELL (I) : 71.00
REMARK 200 R SYM FOR SHELL (I) : NULL
REMARK 200 <I/SIGMA(I)> FOR SHELL : NULL
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH
REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: OTHER
REMARK 200 SOFTWARE USED: NULL
REMARK 200 STARTING MODEL: NONE
REMARK 200
REMARK 200 REMARK: NONE
REMARK 280
REMARK 280 CRYSTAL
REMARK 280 SOLVENT CONTENT, VS (%): 80.54
REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): 6.32
REMARK 280
REMARK 280 CRYSTALLIZATION CONDITIONS: NULL
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 1 21 1
REMARK 290
REMARK 290 SYMOP SYMMETRY
REMARK 290 NNNMMM OPERATOR
REMARK 290 1555 X, Y, Z
REMARK 290 2555 -X, Y+1/2, -Z
REMARK 290
REMARK 290 WHERE NNN -> OPERATOR NUMBER
REMARK 290 MMM -> TRANSLATION VECTOR
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY
REMARK 290 RELATED MOLECULES.
REMARK 290 REMARK: NULL
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND ANGLES
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN

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REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).

REMARK 500

REMARK 500 STANDARD TABLE:

REMARK 500 FORMAT: (10X,I3,1X,A3,1X,A1,I4,A1,3(1X,A4,2X),12X,F5.1)

REMARK 500

REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991

REMARK 500

REMARK 500 REMARK: NULL

SSBOND	1	CYS L	23	CYS L	92					
SSBOND	2	CYS L	138	CYS L	198					
SSBOND	3	CYS H	22	CYS H	98					
SSBOND	4	CYS H	151	CYS H	207					
SSBOND	5	CYS A	23	CYS A	92					
SSBOND	6	CYS B	22	CYS B	98					
SSBOND	7	CYS B	151	CYS B	207					
SSBOND	8	CYS C	41	CYS C	109					
SSBOND	9	CYS C	155	CYS C	184					
SSBOND	10	CYS D	41	CYS D	109					
SSBOND	11	CYS D	155	CYS D	184					
CISPEP	1	SER L	7	PRO L	8			0.00		
CISPEP	2	LEU L	98	PRO L	99			0.00		
CISPEP	3	TYR L	144	PRO L	145			0.00		
LINK			PRO H 137				LEU H 149			gap
CISPEP	4	PHE H	157	PRO H	158			0.00		
CISPEP	5	GLU H	159	PRO H	160			0.00		
LINK			VAL H 192				CYS H 207			gap
CISPEP	6	SER A	7	PRO A	8			0.00		
CISPEP	7	LEU A	98	PRO A	99			0.00		
LINK			VAL A 119				VAL A 137			gap
CISPEP	8	TYR A	144	PRO A	145			0.00		
LINK			ARG A 146				SER A 160			gap
LINK			LEU B 135				GLY B 150			gap
CISPEP	9	PHE B	157	PRO B	158			0.00		
CISPEP	10	GLU B	159	PRO B	160			0.00		
LINK			VAL B 192				CYS B 207			gap
CISPEP	11	ASP C	269	PRO C	270			0.00		
CISPEP	12	LEU C	278	PRO C	279			0.00		
LINK			THR C 320				VAL C 330			gap
LINK			LYS C 337				ARG C 354			gap
LINK			VAL C 358				GLN C 369			gap
LINK			TYR D 212				GLU D 220			gap
LINK			LEU D 238				TRP D 251			gap
LINK			LYS D 264				PRO D 270			gap
CISPEP	13	LEU D	278	PRO D	279			0.00		
LINK			LEU D 282				ASN D 296			gap
CRYST1	110.180	78.940	132.850	90.00	94.83	90.00	P 1 21 1			
SCALE1	0.009076	0.000000	0.000767			0.000000				
SCALE2	0.000000	0.012668	0.000000			0.000000				
SCALE3	0.000000	0.000000	0.007554			0.000000				
ATOM	1	N	ASP L	1	25.380	23.459	40.132	1.00	63.38	N
ATOM	2	CA	ASP L	1	25.701	22.022	39.898	1.00	63.63	C
ATOM	4	CB	ASP L	1	25.152	21.571	38.537	1.00	65.02	C
ATOM	7	CG	ASP L	1	23.658	21.304	38.570	1.00	68.49	C
ATOM	8	OD1	ASP L	1	23.196	20.423	37.797	1.00	66.99	O
ATOM	9	OD2	ASP L	1	22.958	21.976	39.373	1.00	66.85	O
ATOM	10	C	ASP L	1	27.193	21.736	39.943	1.00	61.99	C
ATOM	11	O	ASP L	1	28.013	22.646	39.993	1.00	62.03	O
ATOM	15	N	ILE L	2	27.518	20.449	39.938	1.00	60.78	N
ATOM	16	CA	ILE L	2	28.867	19.976	39.683	1.00	60.23	C
ATOM	18	CB	ILE L	2	29.363	19.040	40.806	1.00	59.25	C
ATOM	20	CG1	ILE L	2	29.357	19.783	42.139	1.00	60.29	C
ATOM	23	CD1	ILE L	2	30.101	19.074	43.258	1.00	61.36	C
ATOM	27	CG2	ILE L	2	30.776	18.548	40.510	1.00	60.46	C

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ATOM	31	C	ILE	L	2	28.856	19.221	38.356	1.00	59.29	C
ATOM	32	O	ILE	L	2	28.034	18.319	38.159	1.00	59.02	O
ATOM	34	N	VAL	L	3	29.774	19.582	37.458	1.00	57.94	N
ATOM	35	CA	VAL	L	3	29.889	18.928	36.151	1.00	57.13	C
ATOM	37	CB	VAL	L	3	30.134	19.933	35.026	1.00	56.55	C
ATOM	39	CG1	VAL	L	3	30.245	19.203	33.680	1.00	57.32	C
ATOM	43	CG2	VAL	L	3	29.025	20.976	34.993	1.00	56.20	C
ATOM	47	C	VAL	L	3	31.017	17.899	36.101	1.00	56.43	C
ATOM	48	O	VAL	L	3	32.192	18.234	36.238	1.00	55.47	O
ATOM	50	N	MET	L	4	30.627	16.648	35.876	1.00	56.71	N
ATOM	51	CA	MET	L	4	31.553	15.549	35.670	1.00	55.20	C
ATOM	53	CB	MET	L	4	30.915	14.247	36.126	1.00	55.10	C
ATOM	56	CG	MET	L	4	30.512	14.258	37.561	1.00	55.51	C
ATOM	59	SD	MET	L	4	31.956	14.143	38.626	1.00	59.57	S
ATOM	60	CE	MET	L	4	31.566	15.426	39.802	1.00	62.32	C
ATOM	64	C	MET	L	4	31.900	15.446	34.187	1.00	54.82	C
ATOM	65	O	MET	L	4	31.045	15.149	33.351	1.00	54.44	O
ATOM	67	N	THR	L	5	33.162	15.694	33.871	1.00	53.54	N
ATOM	68	CA	THR	L	5	33.659	15.576	32.520	1.00	53.71	C
ATOM	70	CB	THR	L	5	34.503	16.793	32.181	1.00	53.53	C
ATOM	72	OG1	THR	L	5	33.683	17.966	32.261	1.00	54.63	O
ATOM	74	CG2	THR	L	5	35.102	16.677	30.796	1.00	53.09	C
ATOM	78	C	THR	L	5	34.518	14.330	32.433	1.00	54.11	C
ATOM	79	O	THR	L	5	35.487	14.195	33.166	1.00	54.88	O
ATOM	81	N	GLN	L	6	34.150	13.413	31.547	1.00	55.17	N
ATOM	82	CA	GLN	L	6	34.957	12.215	31.300	1.00	54.24	C
ATOM	84	CB	GLN	L	6	34.063	11.008	31.063	1.00	54.16	C
ATOM	87	CG	GLN	L	6	33.285	10.641	32.287	1.00	55.97	C
ATOM	90	CD	GLN	L	6	32.500	9.387	32.109	1.00	53.56	C
ATOM	91	OE1	GLN	L	6	31.370	9.289	32.581	1.00	51.02	O
ATOM	92	NE2	GLN	L	6	33.087	8.409	31.423	1.00	52.33	N
ATOM	95	C	GLN	L	6	35.902	12.380	30.114	1.00	53.83	C
ATOM	96	O	GLN	L	6	35.716	13.242	29.266	1.00	53.74	O
ATOM	98	N	SER	L	7	36.907	11.522	30.052	1.00	53.31	N
ATOM	99	CA	SER	L	7	37.941	11.649	29.050	1.00	52.92	C
ATOM	101	CB	SER	L	7	38.860	12.803	29.451	1.00	51.79	C
ATOM	104	OG	SER	L	7	40.157	12.650	28.914	1.00	55.05	O
ATOM	106	C	SER	L	7	38.716	10.326	28.934	1.00	52.77	C
ATOM	107	O	SER	L	7	39.139	9.776	29.949	1.00	52.30	O
ATOM	109	N	PRO	L	8	38.872	9.788	27.705	1.00	52.09	N
ATOM	110	CA	PRO	L	8	38.334	10.230	26.423	1.00	50.67	C
ATOM	112	CB	PRO	L	8	39.185	9.461	25.419	1.00	50.52	C
ATOM	115	CG	PRO	L	8	39.483	8.200	26.096	1.00	51.62	C
ATOM	118	CD	PRO	L	8	39.694	8.575	27.542	1.00	52.48	C
ATOM	121	C	PRO	L	8	36.879	9.840	26.255	1.00	50.37	C
ATOM	122	O	PRO	L	8	36.318	9.191	27.130	1.00	49.80	O
ATOM	123	N	ASP	L	9	36.289	10.232	25.127	1.00	51.41	N
ATOM	124	CA	ASP	L	9	34.908	9.893	24.800	1.00	51.96	C
ATOM	126	CB	ASP	L	9	34.356	10.828	23.724	1.00	51.80	C
ATOM	129	CG	ASP	L	9	34.053	12.218	24.259	1.00	54.57	C
ATOM	130	OD1	ASP	L	9	33.314	12.333	25.258	1.00	58.63	O
ATOM	131	OD2	ASP	L	9	34.538	13.206	23.676	1.00	58.36	O
ATOM	132	C	ASP	L	9	34.792	8.450	24.339	1.00	52.42	C
ATOM	133	O	ASP	L	9	33.896	7.734	24.768	1.00	53.87	O
ATOM	135	N	SER	L	10	35.692	8.024	23.464	1.00	52.69	N
ATOM	136	CA	SER	L	10	35.696	6.648	22.988	1.00	54.38	C
ATOM	138	CB	SER	L	10	35.133	6.564	21.577	1.00	55.07	C
ATOM	141	OG	SER	L	10	35.899	7.345	20.677	1.00	59.21	O
ATOM	143	C	SER	L	10	37.101	6.078	23.023	1.00	55.27	C
ATOM	144	O	SER	L	10	38.079	6.816	23.066	1.00	55.84	O
ATOM	146	N	LEU	L	11	37.193	4.757	22.991	1.00	56.01	N
ATOM	147	CA	LEU	L	11	38.438	4.086	23.304	1.00	55.98	C
ATOM	149	CB	LEU	L	11	38.651	4.118	24.819	1.00	56.96	C

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ATOM	152	CG	LEU	L	11	39.813	3.304	25.387	1.00	57.49	C
ATOM	154	CD1	LEU	L	11	41.134	3.780	24.769	1.00	59.64	C
ATOM	158	CD2	LEU	L	11	39.828	3.382	26.917	1.00	56.04	C
ATOM	162	C	LEU	L	11	38.412	2.646	22.831	1.00	56.18	C
ATOM	163	O	LEU	L	11	37.454	1.920	23.085	1.00	57.30	O
ATOM	165	N	ALA	L	12	39.477	2.241	22.151	1.00	55.92	N
ATOM	166	CA	ALA	L	12	39.660	0.860	21.753	1.00	56.55	C
ATOM	168	CB	ALA	L	12	39.599	0.732	20.243	1.00	57.50	C
ATOM	172	C	ALA	L	12	41.011	0.397	22.252	1.00	57.38	C
ATOM	173	O	ALA	L	12	41.979	1.152	22.203	1.00	59.18	O
ATOM	175	N	VAL	L	13	41.079	-0.840	22.731	1.00	56.85	N
ATOM	176	CA	VAL	L	13	42.357	-1.448	23.090	1.00	56.67	C
ATOM	178	CB	VAL	L	13	42.770	-1.087	24.551	1.00	57.06	C
ATOM	180	CG1	VAL	L	13	42.256	-2.121	25.547	1.00	57.39	C
ATOM	184	CG2	VAL	L	13	44.293	-0.921	24.674	1.00	58.38	C
ATOM	188	C	VAL	L	13	42.254	-2.960	22.872	1.00	56.89	C
ATOM	189	O	VAL	L	13	41.146	-3.501	22.845	1.00	57.82	O
ATOM	191	N	SER	L	14	43.395	-3.631	22.703	1.00	55.08	N
ATOM	192	CA	SER	L	14	43.404	-5.051	22.348	1.00	53.83	C
ATOM	194	CB	SER	L	14	44.764	-5.459	21.799	1.00	54.07	C
ATOM	197	OG	SER	L	14	45.058	-4.758	20.602	1.00	56.13	O
ATOM	199	C	SER	L	14	43.054	-5.914	23.544	1.00	53.30	C
ATOM	200	O	SER	L	14	43.113	-5.448	24.689	1.00	53.10	O
ATOM	202	N	LEU	L	15	42.683	-7.168	23.273	1.00	52.90	N
ATOM	203	CA	LEU	L	15	42.353	-8.125	24.343	1.00	52.23	C
ATOM	205	CB	LEU	L	15	42.037	-9.531	23.800	1.00	51.58	C
ATOM	208	CG	LEU	L	15	40.609	-10.098	23.763	1.00	49.56	C
ATOM	210	CD1	LEU	L	15	40.642	-11.575	24.161	1.00	45.14	C
ATOM	214	CD2	LEU	L	15	39.621	-9.369	24.663	1.00	52.95	C
ATOM	218	C	LEU	L	15	43.503	-8.242	25.325	1.00	51.62	C
ATOM	219	O	LEU	L	15	44.663	-8.288	24.928	1.00	53.26	O
ATOM	221	N	GLY	L	16	43.177	-8.294	26.606	1.00	51.58	N
ATOM	222	CA	GLY	L	16	44.181	-8.502	27.636	1.00	51.94	C
ATOM	225	C	GLY	L	16	45.024	-7.285	27.951	1.00	51.47	C
ATOM	226	O	GLY	L	16	45.996	-7.399	28.686	1.00	51.96	O
ATOM	228	N	GLU	L	17	44.640	-6.120	27.430	1.00	51.42	N
ATOM	229	CA	GLU	L	17	45.424	-4.895	27.593	1.00	52.11	C
ATOM	231	CB	GLU	L	17	45.699	-4.290	26.219	1.00	51.96	C
ATOM	234	CG	GLU	L	17	47.012	-3.531	26.116	1.00	52.88	C
ATOM	237	CD	GLU	L	17	47.389	-3.222	24.675	1.00	54.10	C
ATOM	238	OE1	GLU	L	17	46.480	-2.925	23.865	1.00	54.55	O
ATOM	239	OE2	GLU	L	17	48.596	-3.278	24.350	1.00	55.90	O
ATOM	240	C	GLU	L	17	44.716	-3.874	28.497	1.00	52.53	C
ATOM	241	O	GLU	L	17	43.513	-3.986	28.759	1.00	52.88	O
ATOM	243	N	ARG	L	18	45.464	-2.877	28.969	1.00	52.79	N
ATOM	244	CA	ARG	L	18	44.907	-1.838	29.845	1.00	52.48	C
ATOM	246	CB	ARG	L	18	46.022	-1.030	30.522	1.00	52.23	C
ATOM	249	CG	ARG	L	18	45.527	-0.108	31.648	1.00	55.11	C
ATOM	252	CD	ARG	L	18	46.640	0.740	32.240	1.00	56.70	C
ATOM	255	NE	ARG	L	18	47.354	0.049	33.311	1.00	62.41	N
ATOM	257	CZ	ARG	L	18	48.601	0.324	33.698	1.00	65.36	C
ATOM	258	NH1	ARG	L	18	49.306	1.287	33.102	1.00	64.22	N
ATOM	261	NH2	ARG	L	18	49.155	-0.377	34.686	1.00	63.92	N
ATOM	264	C	ARG	L	18	43.960	-0.877	29.114	1.00	51.24	C
ATOM	265	O	ARG	L	18	44.192	-0.498	27.970	1.00	49.77	O
ATOM	267	N	ALA	L	19	42.884	-0.504	29.802	1.00	51.67	N
ATOM	268	CA	ALA	L	19	41.957	0.526	29.348	1.00	52.18	C
ATOM	270	CB	ALA	L	19	40.611	-0.078	28.990	1.00	52.39	C
ATOM	274	C	ALA	L	19	41.800	1.496	30.492	1.00	51.75	C
ATOM	275	O	ALA	L	19	41.690	1.084	31.640	1.00	53.75	O
ATOM	277	N	THR	L	20	41.793	2.782	30.187	1.00	51.92	N
ATOM	278	CA	THR	L	20	41.799	3.792	31.232	1.00	52.69	C
ATOM	280	CB	THR	L	20	43.236	4.258	31.501	1.00	51.99	C

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ATOM	282	OG1	THR	L	20	43.952	3.180	32.108	1.00	52.75	O
ATOM	284	CG2	THR	L	20	43.280	5.469	32.422	1.00	51.10	C
ATOM	288	C	THR	L	20	40.882	4.957	30.869	1.00	53.68	C
ATOM	289	O	THR	L	20	40.926	5.469	29.748	1.00	53.88	O
ATOM	291	N	ILE	L	21	40.040	5.349	31.826	1.00	54.16	N
ATOM	292	CA	ILE	L	21	39.089	6.430	31.632	1.00	54.15	C
ATOM	294	CB	ILE	L	21	37.652	5.930	31.697	1.00	54.03	C
ATOM	296	CG1	ILE	L	21	37.488	4.668	30.849	1.00	52.98	C
ATOM	299	CD1	ILE	L	21	36.156	4.011	30.996	1.00	53.32	C
ATOM	303	CG2	ILE	L	21	36.700	7.048	31.256	1.00	53.86	C
ATOM	307	C	ILE	L	21	39.247	7.452	32.727	1.00	54.75	C
ATOM	308	O	ILE	L	21	39.315	7.100	33.897	1.00	57.16	O
ATOM	310	N	ASN	L	22	39.286	8.719	32.350	1.00	55.21	N
ATOM	311	CA	ASN	L	22	39.362	9.788	33.321	1.00	55.96	C
ATOM	313	CB	ASN	L	22	40.346	10.856	32.882	1.00	56.21	C
ATOM	316	CG	ASN	L	22	41.769	10.434	33.093	1.00	58.98	C
ATOM	317	OD1	ASN	L	22	42.676	11.260	33.078	1.00	62.63	O
ATOM	318	ND2	ASN	L	22	41.982	9.136	33.295	1.00	60.66	N
ATOM	321	C	ASN	L	22	38.021	10.422	33.538	1.00	57.66	C
ATOM	322	O	ASN	L	22	37.162	10.415	32.658	1.00	59.39	O
ATOM	324	N	CYS	L	23	37.859	10.968	34.735	1.00	58.38	N
ATOM	325	CA	CYS	L	23	36.694	11.737	35.085	1.00	56.40	C
ATOM	327	CB	CYS	L	23	35.699	10.860	35.814	1.00	57.46	C
ATOM	330	SG	CYS	L	23	34.170	11.702	36.051	1.00	64.01	S
ATOM	332	C	CYS	L	23	37.131	12.882	35.976	1.00	54.72	C
ATOM	333	O	CYS	L	23	37.849	12.667	36.942	1.00	53.36	O
ATOM	335	N	ARG	L	24	36.725	14.098	35.632	1.00	55.34	N
ATOM	336	CA	ARG	L	24	37.128	15.280	36.382	1.00	55.30	C
ATOM	338	CB	ARG	L	24	38.003	16.193	35.535	1.00	54.44	C
ATOM	341	CG	ARG	L	24	38.513	17.408	36.314	1.00	58.14	C
ATOM	344	CD	ARG	L	24	39.648	18.128	35.612	1.00	62.00	C
ATOM	347	NE	ARG	L	24	40.875	17.326	35.557	1.00	67.28	N
ATOM	349	CZ	ARG	L	24	42.021	17.732	35.007	1.00	70.82	C
ATOM	350	NH1	ARG	L	24	42.126	18.934	34.446	1.00	73.39	N
ATOM	353	NH2	ARG	L	24	43.075	16.926	35.013	1.00	72.54	N
ATOM	356	C	ARG	L	24	35.893	16.020	36.801	1.00	54.29	C
ATOM	357	O	ARG	L	24	34.916	16.024	36.062	1.00	57.57	O
ATOM	359	N	ALA	L	25	35.939	16.662	37.965	1.00	52.05	N
ATOM	360	CA	ALA	L	25	34.769	17.329	38.539	1.00	50.95	C
ATOM	362	CB	ALA	L	25	34.510	16.759	39.909	1.00	51.27	C
ATOM	366	C	ALA	L	25	34.982	18.837	38.636	1.00	49.44	C
ATOM	367	O	ALA	L	25	36.085	19.255	38.948	1.00	49.36	O
ATOM	369	N	SER	L	26	33.929	19.633	38.398	1.00	48.83	N
ATOM	370	CA	SER	L	26	33.973	21.115	38.500	1.00	48.35	C
ATOM	372	CB	SER	L	26	32.568	21.730	38.505	1.00	47.36	C
ATOM	375	OG	SER	L	26	31.646	20.947	37.787	1.00	51.82	O
ATOM	377	C	SER	L	26	34.664	21.621	39.759	1.00	48.75	C
ATOM	378	O	SER	L	26	35.474	22.555	39.699	1.00	50.06	O
ATOM	380	N	LYS	L	27	34.304	21.040	40.902	1.00	48.88	N
ATOM	381	CA	LYS	L	27	34.964	21.353	42.163	1.00	50.43	C
ATOM	383	CB	LYS	L	27	34.161	22.366	42.978	1.00	52.16	C
ATOM	386	CG	LYS	L	27	32.749	21.981	43.368	1.00	54.56	C
ATOM	389	CD	LYS	L	27	31.967	23.255	43.735	1.00	54.52	C
ATOM	392	CE	LYS	L	27	30.692	22.965	44.503	1.00	57.35	C
ATOM	395	NZ	LYS	L	27	29.707	24.077	44.335	1.00	58.07	N
ATOM	399	C	LYS	L	27	35.230	20.087	42.940	1.00	49.45	C
ATOM	400	O	LYS	L	27	34.836	19.017	42.508	1.00	47.81	O
ATOM	402	N	SER	L	28	35.939	20.202	44.059	1.00	51.44	N
ATOM	403	CA	SER	L	28	36.385	19.020	44.799	1.00	51.83	C
ATOM	405	CB	SER	L	28	37.304	19.379	45.964	1.00	52.23	C
ATOM	408	OG	SER	L	28	37.520	18.241	46.785	1.00	52.48	O
ATOM	410	C	SER	L	28	35.202	18.272	45.347	1.00	53.06	C
ATOM	411	O	SER	L	28	34.250	18.877	45.839	1.00	54.62	O

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ATOM	413	N	VAL	L	29	35.293	16.951	45.292	1.00	52.94	N
ATOM	414	CA	VAL	L	29	34.186	16.089	45.637	1.00	53.18	C
ATOM	416	CB	VAL	L	29	33.727	15.308	44.367	1.00	53.28	C
ATOM	418	CG1	VAL	L	29	32.363	14.688	44.550	1.00	56.43	C
ATOM	422	CG2	VAL	L	29	34.735	14.247	43.974	1.00	54.81	C
ATOM	426	C	VAL	L	29	34.616	15.181	46.799	1.00	53.03	C
ATOM	427	O	VAL	L	29	34.156	14.046	46.916	1.00	53.62	O
ATOM	429	N	SER	L	30	35.471	15.719	47.674	1.00	54.25	N
ATOM	430	CA	SER	L	30	36.098	14.962	48.770	1.00	54.15	C
ATOM	432	CB	SER	L	30	37.602	14.803	48.511	1.00	54.60	C
ATOM	435	OG	SER	L	30	37.880	14.092	47.317	1.00	55.08	O
ATOM	437	C	SER	L	30	35.940	15.634	50.142	1.00	54.40	C
ATOM	438	O	SER	L	30	36.454	16.730	50.360	1.00	54.45	O
ATOM	440	N	THR	L	31	35.253	14.962	51.063	1.00	54.06	N
ATOM	441	CA	THR	L	31	35.161	15.389	52.467	1.00	53.25	C
ATOM	443	CB	THR	L	31	33.993	16.393	52.726	1.00	53.03	C
ATOM	445	OG1	THR	L	31	33.060	16.367	51.636	1.00	54.02	O
ATOM	447	CG2	THR	L	31	34.517	17.807	52.899	1.00	54.14	C
ATOM	451	C	THR	L	31	34.986	14.190	53.406	1.00	52.65	C
ATOM	452	O	THR	L	31	34.466	13.141	53.019	1.00	50.65	O
ATOM	454	N	SER	L	32	35.418	14.381	54.648	1.00	53.64	N
ATOM	455	CA	SER	L	32	35.372	13.357	55.704	1.00	54.12	C
ATOM	457	CB	SER	L	32	33.956	13.228	56.262	1.00	52.79	C
ATOM	460	OG	SER	L	32	33.037	13.102	55.212	1.00	55.88	O
ATOM	462	C	SER	L	32	35.954	11.993	55.288	1.00	53.54	C
ATOM	463	O	SER	L	32	35.331	10.943	55.451	1.00	52.41	O
ATOM	465	N	GLY	L	33	37.169	12.032	54.757	1.00	53.81	N
ATOM	466	CA	GLY	L	33	37.924	10.822	54.469	1.00	54.19	C
ATOM	469	C	GLY	L	33	37.477	10.089	53.231	1.00	53.03	C
ATOM	470	O	GLY	L	33	37.937	8.978	52.970	1.00	55.58	O
ATOM	472	N	TYR	L	34	36.597	10.715	52.462	1.00	52.53	N
ATOM	473	CA	TYR	L	34	36.006	10.089	51.286	1.00	53.45	C
ATOM	475	CB	TYR	L	34	34.537	9.740	51.539	1.00	53.20	C
ATOM	478	CG	TYR	L	34	34.264	8.550	52.431	1.00	52.50	C
ATOM	479	CD1	TYR	L	34	34.930	7.355	52.253	1.00	49.83	C
ATOM	481	CE1	TYR	L	34	34.638	6.248	53.039	1.00	53.40	C
ATOM	483	CZ	TYR	L	34	33.669	6.329	54.011	1.00	52.05	C
ATOM	484	OH	TYR	L	34	33.407	5.234	54.783	1.00	52.72	O
ATOM	486	CE2	TYR	L	34	32.968	7.499	54.205	1.00	53.91	C
ATOM	488	CD2	TYR	L	34	33.258	8.601	53.405	1.00	58.63	C
ATOM	490	C	TYR	L	34	36.051	11.021	50.081	1.00	53.06	C
ATOM	491	O	TYR	L	34	36.016	12.249	50.224	1.00	51.85	O
ATOM	493	N	SER	L	35	36.142	10.412	48.902	1.00	52.09	N
ATOM	494	CA	SER	L	35	35.819	11.066	47.653	1.00	51.97	C
ATOM	496	CB	SER	L	35	36.920	10.862	46.622	1.00	50.03	C
ATOM	499	OG	SER	L	35	38.115	11.519	47.001	1.00	49.98	O
ATOM	501	C	SER	L	35	34.529	10.410	47.181	1.00	53.64	C
ATOM	502	O	SER	L	35	34.509	9.202	46.887	1.00	53.53	O
ATOM	504	N	TYR	L	36	33.453	11.196	47.114	1.00	54.08	N
ATOM	505	CA	TYR	L	36	32.147	10.663	46.743	1.00	55.43	C
ATOM	507	CB	TYR	L	36	31.035	11.506	47.366	1.00	56.93	C
ATOM	510	CG	TYR	L	36	31.100	11.479	48.876	1.00	57.15	C
ATOM	511	CD1	TYR	L	36	30.536	10.427	49.583	1.00	55.21	C
ATOM	513	CE1	TYR	L	36	30.599	10.375	50.960	1.00	57.63	C
ATOM	515	CZ	TYR	L	36	31.254	11.369	51.661	1.00	57.30	C
ATOM	516	OH	TYR	L	36	31.303	11.278	53.034	1.00	55.65	O
ATOM	518	CE2	TYR	L	36	31.845	12.429	50.983	1.00	55.89	C
ATOM	520	CD2	TYR	L	36	31.767	12.476	49.593	1.00	55.45	C
ATOM	522	C	TYR	L	36	32.015	10.539	45.227	1.00	56.47	C
ATOM	523	O	TYR	L	36	31.304	11.304	44.580	1.00	58.30	O
ATOM	525	N	ILE	L	37	32.729	9.547	44.692	1.00	56.72	N
ATOM	526	CA	ILE	L	37	32.740	9.187	43.276	1.00	55.37	C
ATOM	528	CB	ILE	L	37	34.157	9.351	42.692	1.00	55.42	C

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ATOM	530	CG1	ILE	L	37	34.521	10.838	42.602	1.00	59.90	C
ATOM	533	CD1	ILE	L	37	33.833	11.599	41.482	1.00	61.86	C
ATOM	537	CG2	ILE	L	37	34.297	8.689	41.324	1.00	54.24	C
ATOM	541	C	ILE	L	37	32.309	7.727	43.128	1.00	54.15	C
ATOM	542	O	ILE	L	37	32.612	6.887	43.982	1.00	51.17	O
ATOM	544	N	TYR	L	38	31.598	7.437	42.042	1.00	54.32	N
ATOM	545	CA	TYR	L	38	31.138	6.080	41.746	1.00	55.44	C
ATOM	547	CB	TYR	L	38	29.694	5.907	42.252	1.00	55.24	C
ATOM	550	CG	TYR	L	38	29.481	6.629	43.574	1.00	54.93	C
ATOM	551	CD1	TYR	L	38	29.636	5.971	44.778	1.00	55.24	C
ATOM	553	CE1	TYR	L	38	29.487	6.632	45.990	1.00	54.82	C
ATOM	555	CZ	TYR	L	38	29.182	7.979	46.006	1.00	57.34	C
ATOM	556	OH	TYR	L	38	29.022	8.642	47.205	1.00	55.61	O
ATOM	558	CE2	TYR	L	38	29.039	8.665	44.815	1.00	56.07	C
ATOM	560	CD2	TYR	L	38	29.197	7.993	43.611	1.00	54.45	C
ATOM	562	C	TYR	L	38	31.272	5.838	40.236	1.00	56.25	C
ATOM	563	O	TYR	L	38	31.170	6.790	39.454	1.00	57.66	O
ATOM	565	N	TRP	L	39	31.551	4.590	39.837	1.00	55.93	N
ATOM	566	CA	TRP	L	39	31.650	4.209	38.416	1.00	54.81	C
ATOM	568	CB	TRP	L	39	33.042	3.682	38.053	1.00	54.09	C
ATOM	571	CG	TRP	L	39	34.154	4.656	38.199	1.00	54.18	C
ATOM	572	CD1	TRP	L	39	34.902	4.880	39.319	1.00	55.84	C
ATOM	574	NE1	TRP	L	39	35.843	5.846	39.073	1.00	54.26	N
ATOM	576	CE2	TRP	L	39	35.723	6.262	37.775	1.00	50.74	C
ATOM	577	CD2	TRP	L	39	34.671	5.528	37.192	1.00	52.46	C
ATOM	578	CE3	TRP	L	39	34.341	5.769	35.854	1.00	55.28	C
ATOM	580	CZ3	TRP	L	39	35.066	6.718	35.147	1.00	55.11	C
ATOM	582	CH2	TRP	L	39	36.110	7.429	35.753	1.00	55.77	C
ATOM	584	CZ2	TRP	L	39	36.451	7.218	37.066	1.00	54.51	C
ATOM	586	C	TRP	L	39	30.644	3.114	38.059	1.00	56.62	C
ATOM	587	O	TRP	L	39	30.502	2.111	38.782	1.00	55.41	O
ATOM	589	N	TYR	L	40	29.987	3.303	36.913	1.00	56.41	N
ATOM	590	CA	TYR	L	40	29.020	2.352	36.396	1.00	54.40	C
ATOM	592	CB	TYR	L	40	27.649	3.006	36.294	1.00	53.71	C
ATOM	595	CG	TYR	L	40	27.197	3.584	37.609	1.00	54.69	C
ATOM	596	CD1	TYR	L	40	26.392	2.846	38.469	1.00	54.76	C
ATOM	598	CE1	TYR	L	40	25.988	3.371	39.694	1.00	54.40	C
ATOM	600	CZ	TYR	L	40	26.393	4.646	40.068	1.00	51.99	C
ATOM	601	OH	TYR	L	40	25.991	5.148	41.287	1.00	51.85	O
ATOM	603	CE2	TYR	L	40	27.196	5.394	39.233	1.00	51.58	C
ATOM	605	CD2	TYR	L	40	27.597	4.865	38.010	1.00	53.46	C
ATOM	607	C	TYR	L	40	29.442	1.827	35.032	1.00	54.01	C
ATOM	608	O	TYR	L	40	30.164	2.482	34.284	1.00	52.13	O
ATOM	610	N	GLN	L	41	28.990	0.618	34.737	1.00	54.63	N
ATOM	611	CA	GLN	L	41	29.155	0.025	33.434	1.00	54.67	C
ATOM	613	CB	GLN	L	41	29.875	-1.308	33.557	1.00	55.57	C
ATOM	616	CG	GLN	L	41	30.049	-2.048	32.229	1.00	53.36	C
ATOM	619	CD	GLN	L	41	30.362	-3.499	32.453	1.00	53.70	C
ATOM	620	OE1	GLN	L	41	29.614	-4.195	33.147	1.00	52.72	O
ATOM	621	NE2	GLN	L	41	31.475	-3.970	31.888	1.00	51.10	N
ATOM	624	C	GLN	L	41	27.777	-0.209	32.858	1.00	54.05	C
ATOM	625	O	GLN	L	41	26.922	-0.806	33.517	1.00	51.69	O
ATOM	627	N	GLN	L	42	27.572	0.264	31.631	1.00	53.51	N
ATOM	628	CA	GLN	L	42	26.314	0.057	30.930	1.00	54.34	C
ATOM	630	CB	GLN	L	42	25.576	1.373	30.724	1.00	53.62	C
ATOM	633	CG	GLN	L	42	24.115	1.187	30.355	1.00	53.29	C
ATOM	636	CD	GLN	L	42	23.380	2.504	30.159	1.00	53.05	C
ATOM	637	OE1	GLN	L	42	23.968	3.514	29.770	1.00	50.26	O
ATOM	638	NE2	GLN	L	42	22.085	2.494	30.428	1.00	52.99	N
ATOM	641	C	GLN	L	42	26.557	-0.621	29.587	1.00	55.48	C
ATOM	642	O	GLN	L	42	27.129	-0.025	28.665	1.00	53.27	O
ATOM	644	N	LYS	L	43	26.130	-1.883	29.516	1.00	56.31	N
ATOM	645	CA	LYS	L	43	26.078	-2.649	28.276	1.00	56.15	C

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ATOM	647	CB	LYS	L	43	26.250	-4.164	28.556	1.00	55.36	C
ATOM	650	CG	LYS	L	43	27.711	-4.598	28.760	1.00	53.71	C
ATOM	653	CD	LYS	L	43	27.913	-5.546	29.935	1.00	55.52	C
ATOM	656	CE	LYS	L	43	27.712	-7.011	29.574	1.00	59.61	C
ATOM	659	NZ	LYS	L	43	28.948	-7.681	29.059	1.00	57.53	N
ATOM	663	C	LYS	L	43	24.734	-2.357	27.589	1.00	56.42	C
ATOM	664	O	LYS	L	43	23.745	-2.067	28.268	1.00	53.62	O
ATOM	666	N	PRO	L	44	24.692	-2.452	26.243	1.00	57.78	N
ATOM	667	CA	PRO	L	44	23.492	-2.110	25.457	1.00	58.18	C
ATOM	669	CB	PRO	L	44	23.914	-2.391	24.006	1.00	58.48	C
ATOM	672	CG	PRO	L	44	25.394	-2.517	24.022	1.00	59.46	C
ATOM	675	CD	PRO	L	44	25.793	-2.941	25.392	1.00	57.45	C
ATOM	678	C	PRO	L	44	22.281	-2.969	25.816	1.00	58.75	C
ATOM	679	O	PRO	L	44	22.401	-4.195	25.904	1.00	59.48	O
ATOM	680	N	GLY	L	45	21.136	-2.323	26.025	1.00	59.04	N
ATOM	681	CA	GLY	L	45	19.893	-3.011	26.401	1.00	58.61	C
ATOM	684	C	GLY	L	45	19.766	-3.393	27.873	1.00	59.15	C
ATOM	685	O	GLY	L	45	18.936	-4.240	28.227	1.00	58.77	O
ATOM	687	N	GLN	L	46	20.570	-2.764	28.734	1.00	59.18	N
ATOM	688	CA	GLN	L	46	20.612	-3.111	30.159	1.00	57.60	C
ATOM	690	CB	GLN	L	46	21.792	-4.048	30.456	1.00	59.08	C
ATOM	693	CG	GLN	L	46	21.709	-5.463	29.846	1.00	59.83	C
ATOM	696	CD	GLN	L	46	22.903	-6.341	30.225	1.00	58.60	C
ATOM	697	OE1	GLN	L	46	23.706	-5.988	31.088	1.00	60.97	O
ATOM	698	NE2	GLN	L	46	23.021	-7.485	29.574	1.00	60.99	N
ATOM	701	C	GLN	L	46	20.764	-1.878	31.037	1.00	56.58	C
ATOM	702	O	GLN	L	46	21.336	-0.865	30.616	1.00	56.23	O
ATOM	704	N	PRO	L	47	20.274	-1.964	32.278	1.00	55.72	N
ATOM	705	CA	PRO	L	47	20.547	-0.897	33.233	1.00	55.56	C
ATOM	707	CB	PRO	L	47	19.786	-1.332	34.485	1.00	54.62	C
ATOM	710	CG	PRO	L	47	19.575	-2.795	34.316	1.00	56.19	C
ATOM	713	CD	PRO	L	47	19.454	-3.036	32.860	1.00	55.23	C
ATOM	716	C	PRO	L	47	22.037	-0.821	33.542	1.00	55.18	C
ATOM	717	O	PRO	L	47	22.740	-1.821	33.402	1.00	53.89	O
ATOM	718	N	PRO	L	48	22.523	0.361	33.952	1.00	55.70	N
ATOM	719	CA	PRO	L	48	23.916	0.464	34.380	1.00	54.77	C
ATOM	721	CB	PRO	L	48	24.098	1.966	34.653	1.00	55.21	C
ATOM	724	CG	PRO	L	48	22.909	2.646	34.076	1.00	54.15	C
ATOM	727	CD	PRO	L	48	21.816	1.653	34.027	1.00	54.85	C
ATOM	730	C	PRO	L	48	24.207	-0.363	35.645	1.00	54.20	C
ATOM	731	O	PRO	L	48	23.395	-0.392	36.571	1.00	54.36	O
ATOM	732	N	LYS	L	49	25.365	-1.014	35.668	1.00	53.47	N
ATOM	733	CA	LYS	L	49	25.785	-1.850	36.787	1.00	52.96	C
ATOM	735	CB	LYS	L	49	26.279	-3.192	36.251	1.00	51.47	C
ATOM	738	CG	LYS	L	49	27.192	-3.954	37.162	1.00	53.42	C
ATOM	741	CD	LYS	L	49	27.500	-5.331	36.599	1.00	55.24	C
ATOM	744	CE	LYS	L	49	28.178	-6.217	37.636	1.00	58.11	C
ATOM	747	NZ	LYS	L	49	28.617	-7.519	37.073	1.00	60.19	N
ATOM	751	C	LYS	L	49	26.876	-1.114	37.555	1.00	52.05	C
ATOM	752	O	LYS	L	49	27.752	-0.520	36.956	1.00	53.68	O
ATOM	754	N	LEU	L	50	26.820	-1.140	38.880	1.00	52.75	N
ATOM	755	CA	LEU	L	50	27.820	-0.452	39.697	1.00	52.69	C
ATOM	757	CB	LEU	L	50	27.339	-0.263	41.136	1.00	50.73	C
ATOM	760	CG	LEU	L	50	28.370	0.307	42.123	1.00	52.58	C
ATOM	762	CD1	LEU	L	50	28.665	1.778	41.846	1.00	53.41	C
ATOM	766	CD2	LEU	L	50	27.902	0.138	43.556	1.00	53.16	C
ATOM	770	C	LEU	L	50	29.090	-1.258	39.725	1.00	54.47	C
ATOM	771	O	LEU	L	50	29.051	-2.478	39.870	1.00	58.94	O
ATOM	773	N	LEU	L	51	30.219	-0.573	39.618	1.00	54.92	N
ATOM	774	CA	LEU	L	51	31.510	-1.224	39.711	1.00	54.54	C
ATOM	776	CB	LEU	L	51	32.375	-0.838	38.516	1.00	55.15	C
ATOM	779	CG	LEU	L	51	31.728	-1.006	37.149	1.00	55.63	C
ATOM	781	CD1	LEU	L	51	32.640	-0.455	36.054	1.00	55.55	C

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ATOM	785	CD2	LEU	L	51	31.406	-2.475	36.924	1.00	56.89	C
ATOM	789	C	LEU	L	51	32.213	-0.812	40.985	1.00	54.28	C
ATOM	790	O	LEU	L	51	32.670	-1.653	41.759	1.00	54.65	O
ATOM	792	N	ILE	L	52	32.316	0.496	41.185	1.00	54.53	N
ATOM	793	CA	ILE	L	52	33.220	1.047	42.178	1.00	54.82	C
ATOM	795	CB	ILE	L	52	34.519	1.569	41.507	1.00	54.75	C
ATOM	797	CG1	ILE	L	52	35.289	0.370	40.943	1.00	57.46	C
ATOM	800	CD1	ILE	L	52	36.673	0.673	40.438	1.00	58.45	C
ATOM	804	CG2	ILE	L	52	35.380	2.374	42.503	1.00	54.63	C
ATOM	808	C	ILE	L	52	32.516	2.165	42.896	1.00	54.44	C
ATOM	809	O	ILE	L	52	31.845	2.987	42.258	1.00	55.52	O
ATOM	811	N	TYR	L	53	32.665	2.198	44.217	1.00	52.02	N
ATOM	812	CA	TYR	L	53	32.032	3.238	45.010	1.00	51.95	C
ATOM	814	CB	TYR	L	53	30.764	2.719	45.712	1.00	50.42	C
ATOM	817	CG	TYR	L	53	30.967	1.600	46.698	1.00	50.94	C
ATOM	818	CD1	TYR	L	53	31.235	0.307	46.276	1.00	55.87	C
ATOM	820	CE1	TYR	L	53	31.407	-0.733	47.193	1.00	52.11	C
ATOM	822	CZ	TYR	L	53	31.304	-0.477	48.536	1.00	49.69	C
ATOM	823	OH	TYR	L	53	31.480	-1.495	49.450	1.00	51.98	O
ATOM	825	CE2	TYR	L	53	31.030	0.796	48.975	1.00	52.89	C
ATOM	827	CD2	TYR	L	53	30.861	1.824	48.060	1.00	55.48	C
ATOM	829	C	TYR	L	53	33.005	3.879	45.993	1.00	52.42	C
ATOM	830	O	TYR	L	53	33.951	3.247	46.467	1.00	51.02	O
ATOM	832	N	LEU	L	54	32.750	5.156	46.271	1.00	53.74	N
ATOM	833	CA	LEU	L	54	33.614	5.992	47.098	1.00	52.49	C
ATOM	835	CB	LEU	L	54	33.585	5.540	48.567	1.00	53.60	C
ATOM	838	CG	LEU	L	54	32.180	5.580	49.210	1.00	55.04	C
ATOM	840	CD1	LEU	L	54	32.172	4.913	50.550	1.00	57.98	C
ATOM	844	CD2	LEU	L	54	31.673	7.004	49.372	1.00	59.12	C
ATOM	848	C	LEU	L	54	34.999	5.963	46.482	1.00	52.10	C
ATOM	849	O	LEU	L	54	36.005	5.752	47.154	1.00	53.39	O
ATOM	851	N	ALA	L	55	35.011	6.134	45.164	1.00	51.42	N
ATOM	852	CA	ALA	L	55	36.227	6.322	44.385	1.00	51.30	C
ATOM	854	CB	ALA	L	55	37.083	7.447	44.977	1.00	50.70	C
ATOM	858	C	ALA	L	55	37.070	5.065	44.175	1.00	51.24	C
ATOM	859	O	ALA	L	55	37.636	4.884	43.082	1.00	51.52	O
ATOM	861	N	SER	L	56	37.182	4.209	45.192	1.00	49.46	N
ATOM	862	CA	SER	L	56	38.076	3.058	45.070	1.00	48.46	C
ATOM	864	CB	SER	L	56	39.380	3.391	45.750	1.00	45.78	C
ATOM	867	OG	SER	L	56	39.173	3.416	47.136	1.00	54.02	O
ATOM	869	C	SER	L	56	37.590	1.701	45.585	1.00	45.99	C
ATOM	870	O	SER	L	56	38.285	0.731	45.387	1.00	43.02	O
ATOM	872	N	ILE	L	57	36.424	1.613	46.219	1.00	46.73	N
ATOM	873	CA	ILE	L	57	35.975	0.337	46.785	1.00	48.73	C
ATOM	875	CB	ILE	L	57	35.035	0.517	48.001	1.00	48.71	C
ATOM	877	CG1	ILE	L	57	35.658	1.431	49.061	1.00	46.23	C
ATOM	880	CD1	ILE	L	57	34.633	2.004	50.033	1.00	47.63	C
ATOM	884	CG2	ILE	L	57	34.711	-0.831	48.638	1.00	46.23	C
ATOM	888	C	ILE	L	57	35.263	-0.492	45.719	1.00	50.97	C
ATOM	889	O	ILE	L	57	34.290	-0.038	45.117	1.00	54.06	O
ATOM	891	N	LEU	L	58	35.757	-1.711	45.504	1.00	52.60	N
ATOM	892	CA	LEU	L	58	35.239	-2.614	44.471	1.00	52.11	C
ATOM	894	CB	LEU	L	58	36.251	-3.749	44.215	1.00	51.36	C
ATOM	897	CG	LEU	L	58	35.855	-4.852	43.215	1.00	53.01	C
ATOM	899	CD1	LEU	L	58	35.603	-4.276	41.810	1.00	52.83	C
ATOM	903	CD2	LEU	L	58	36.895	-5.968	43.155	1.00	51.72	C
ATOM	907	C	LEU	L	58	33.910	-3.224	44.910	1.00	52.58	C
ATOM	908	O	LEU	L	58	33.845	-3.879	45.946	1.00	51.89	O
ATOM	910	N	GLU	L	59	32.859	-3.019	44.123	1.00	52.83	N
ATOM	911	CA	GLU	L	59	31.572	-3.654	44.406	1.00	54.04	C
ATOM	913	CB	GLU	L	59	30.503	-3.169	43.416	1.00	53.52	C
ATOM	916	CG	GLU	L	59	29.182	-3.929	43.421	1.00	55.28	C
ATOM	919	CD	GLU	L	59	28.447	-3.865	44.737	1.00	56.48	C

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ATOM	920	OE1	GLU	L	59	29.054	-4.202	45.765	1.00	62.78	O
ATOM	921	OE2	GLU	L	59	27.251	-3.508	44.747	1.00	51.37	O
ATOM	922	C	GLU	L	59	31.731	-5.182	44.357	1.00	54.60	C
ATOM	923	O	GLU	L	59	32.406	-5.706	43.476	1.00	54.40	O
ATOM	925	N	SER	L	60	31.126	-5.897	45.302	1.00	54.98	N
ATOM	926	CA	SER	L	60	31.310	-7.346	45.343	1.00	56.20	C
ATOM	928	CB	SER	L	60	30.816	-7.948	46.654	1.00	55.93	C
ATOM	931	OG	SER	L	60	29.428	-7.786	46.784	1.00	61.09	O
ATOM	933	C	SER	L	60	30.612	-7.982	44.148	1.00	56.93	C
ATOM	934	O	SER	L	60	29.554	-7.514	43.718	1.00	58.44	O
ATOM	936	N	GLY	L	61	31.242	-9.019	43.599	1.00	55.93	N
ATOM	937	CA	GLY	L	61	30.791	-9.643	42.362	1.00	56.18	C
ATOM	940	C	GLY	L	61	31.531	-9.138	41.137	1.00	57.25	C
ATOM	941	O	GLY	L	61	31.611	-9.831	40.119	1.00	58.16	O
ATOM	943	N	VAL	L	62	32.078	-7.931	41.231	1.00	56.14	N
ATOM	944	CA	VAL	L	62	32.753	-7.324	40.108	1.00	54.63	C
ATOM	946	CB	VAL	L	62	32.793	-5.810	40.256	1.00	55.58	C
ATOM	948	CG1	VAL	L	62	33.562	-5.168	39.093	1.00	55.66	C
ATOM	952	CG2	VAL	L	62	31.363	-5.271	40.332	1.00	55.35	C
ATOM	956	C	VAL	L	62	34.164	-7.854	40.031	1.00	53.37	C
ATOM	957	O	VAL	L	62	34.857	-7.854	41.034	1.00	51.85	O
ATOM	959	N	PRO	L	63	34.592	-8.315	38.838	1.00	55.14	N
ATOM	960	CA	PRO	L	63	35.972	-8.764	38.607	1.00	54.76	C
ATOM	962	CB	PRO	L	63	36.043	-8.909	37.080	1.00	54.50	C
ATOM	965	CG	PRO	L	63	34.656	-9.189	36.661	1.00	53.15	C
ATOM	968	CD	PRO	L	63	33.763	-8.463	37.622	1.00	55.43	C
ATOM	971	C	PRO	L	63	37.023	-7.760	39.082	1.00	54.42	C
ATOM	972	O	PRO	L	63	36.939	-6.572	38.758	1.00	52.19	O
ATOM	973	N	ASP	L	64	38.022	-8.245	39.815	1.00	55.17	N
ATOM	974	CA	ASP	L	64	39.014	-7.358	40.429	1.00	56.09	C
ATOM	976	CB	ASP	L	64	39.777	-8.076	41.563	1.00	56.48	C
ATOM	979	CG	ASP	L	64	40.622	-9.238	41.070	1.00	60.55	C
ATOM	980	OD1	ASP	L	64	40.635	-9.506	39.846	1.00	63.87	O
ATOM	981	OD2	ASP	L	64	41.281	-9.885	41.918	1.00	63.35	O
ATOM	982	C	ASP	L	64	39.989	-6.707	39.429	1.00	55.97	C
ATOM	983	O	ASP	L	64	40.889	-5.976	39.844	1.00	56.53	O
ATOM	985	N	ARG	L	65	39.820	-6.959	38.130	1.00	55.08	N
ATOM	986	CA	ARG	L	65	40.575	-6.212	37.119	1.00	54.31	C
ATOM	988	CB	ARG	L	65	40.439	-6.834	35.728	1.00	52.42	C
ATOM	991	CG	ARG	L	65	39.017	-7.000	35.212	1.00	54.44	C
ATOM	994	CD	ARG	L	65	39.026	-7.328	33.713	1.00	54.08	C
ATOM	997	NE	ARG	L	65	37.712	-7.686	33.170	1.00	54.88	N
ATOM	999	CZ	ARG	L	65	37.099	-8.857	33.364	1.00	54.31	C
ATOM	1000	NH1	ARG	L	65	37.643	-9.801	34.128	1.00	55.55	N
ATOM	1003	NH2	ARG	L	65	35.912	-9.083	32.812	1.00	51.57	N
ATOM	1006	C	ARG	L	65	40.142	-4.742	37.114	1.00	54.34	C
ATOM	1007	O	ARG	L	65	40.948	-3.841	36.830	1.00	54.86	O
ATOM	1009	N	PHE	L	66	38.872	-4.514	37.437	1.00	53.05	N
ATOM	1010	CA	PHE	L	66	38.350	-3.163	37.606	1.00	53.28	C
ATOM	1012	CB	PHE	L	66	36.818	-3.168	37.667	1.00	52.13	C
ATOM	1015	CG	PHE	L	66	36.171	-3.510	36.361	1.00	51.63	C
ATOM	1016	CD1	PHE	L	66	36.048	-2.557	35.367	1.00	54.90	C
ATOM	1018	CE1	PHE	L	66	35.467	-2.873	34.132	1.00	54.83	C
ATOM	1020	CZ	PHE	L	66	35.001	-4.155	33.895	1.00	54.18	C
ATOM	1022	CE2	PHE	L	66	35.125	-5.120	34.879	1.00	53.41	C
ATOM	1024	CD2	PHE	L	66	35.713	-4.795	36.107	1.00	55.89	C
ATOM	1026	C	PHE	L	66	38.924	-2.543	38.870	1.00	53.24	C
ATOM	1027	O	PHE	L	66	38.996	-3.196	39.904	1.00	56.75	O
ATOM	1029	N	SER	L	67	39.353	-1.290	38.775	1.00	52.30	N
ATOM	1030	CA	SER	L	67	39.835	-0.552	39.934	1.00	51.60	C
ATOM	1032	CB	SER	L	67	41.269	-0.950	40.274	1.00	50.46	C
ATOM	1035	OG	SER	L	67	42.206	-0.173	39.561	1.00	50.17	O
ATOM	1037	C	SER	L	67	39.770	0.949	39.672	1.00	52.16	C

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ATOM	1038	O	SER	L	67	39.894	1.387	38.524	1.00	53.02	O
ATOM	1040	N	GLY	L	68	39.593	1.720	40.747	1.00	50.97	N
ATOM	1041	CA	GLY	L	68	39.509	3.164	40.666	1.00	50.80	C
ATOM	1044	C	GLY	L	68	40.435	3.896	41.620	1.00	50.07	C
ATOM	1045	O	GLY	L	68	40.438	3.624	42.797	1.00	49.95	O
ATOM	1047	N	SER	L	69	41.211	4.840	41.096	1.00	50.99	N
ATOM	1048	CA	SER	L	69	42.014	5.742	41.908	1.00	51.86	C
ATOM	1050	CB	SER	L	69	43.482	5.696	41.460	1.00	53.01	C
ATOM	1053	OG	SER	L	69	43.613	5.878	40.055	1.00	58.20	O
ATOM	1055	C	SER	L	69	41.504	7.178	41.796	1.00	52.61	C
ATOM	1056	O	SER	L	69	40.693	7.507	40.922	1.00	51.85	O
ATOM	1058	N	GLY	L	70	41.990	8.029	42.693	1.00	53.58	N
ATOM	1059	CA	GLY	L	70	41.774	9.462	42.591	1.00	54.01	C
ATOM	1062	C	GLY	L	70	41.381	10.140	43.883	1.00	55.34	C
ATOM	1063	O	GLY	L	70	40.934	9.500	44.832	1.00	56.33	O
ATOM	1065	N	SER	L	71	41.550	11.456	43.910	1.00	55.88	N
ATOM	1066	CA	SER	L	71	41.042	12.264	44.998	1.00	54.92	C
ATOM	1068	CB	SER	L	71	42.030	12.304	46.154	1.00	53.23	C
ATOM	1071	OG	SER	L	71	42.895	13.411	46.004	1.00	55.47	O
ATOM	1073	C	SER	L	71	40.809	13.678	44.516	1.00	55.33	C
ATOM	1074	O	SER	L	71	41.396	14.127	43.526	1.00	51.70	O
ATOM	1076	N	GLY	L	72	39.958	14.376	45.259	1.00	57.11	N
ATOM	1077	CA	GLY	L	72	39.703	15.780	45.026	1.00	56.11	C
ATOM	1080	C	GLY	L	72	38.845	15.924	43.805	1.00	56.31	C
ATOM	1081	O	GLY	L	72	37.622	15.848	43.887	1.00	55.82	O
ATOM	1083	N	THR	L	73	39.506	16.101	42.666	1.00	56.80	N
ATOM	1084	CA	THR	L	73	38.834	16.488	41.434	1.00	55.61	C
ATOM	1086	CB	THR	L	73	39.063	17.975	41.191	1.00	53.26	C
ATOM	1088	OG1	THR	L	73	38.041	18.470	40.323	1.00	56.96	O
ATOM	1090	CG2	THR	L	73	40.459	18.239	40.604	1.00	54.07	C
ATOM	1094	C	THR	L	73	39.220	15.665	40.184	1.00	56.76	C
ATOM	1095	O	THR	L	73	38.537	15.751	39.160	1.00	57.24	O
ATOM	1097	N	ASP	L	74	40.301	14.883	40.268	1.00	57.91	N
ATOM	1098	CA	ASP	L	74	40.699	13.944	39.206	1.00	56.78	C
ATOM	1100	CB	ASP	L	74	42.155	14.184	38.788	1.00	56.63	C
ATOM	1103	CG	ASP	L	74	42.380	15.589	38.276	1.00	62.56	C
ATOM	1104	OD1	ASP	L	74	41.382	16.236	37.885	1.00	67.01	O
ATOM	1105	OD2	ASP	L	74	43.543	16.058	38.276	1.00	69.21	O
ATOM	1106	C	ASP	L	74	40.524	12.506	39.679	1.00	54.43	C
ATOM	1107	O	ASP	L	74	41.003	12.145	40.752	1.00	52.01	O
ATOM	1109	N	PHE	L	75	39.830	11.705	38.871	1.00	53.34	N
ATOM	1110	CA	PHE	L	75	39.566	10.303	39.179	1.00	54.81	C
ATOM	1112	CB	PHE	L	75	38.153	10.143	39.747	1.00	54.75	C
ATOM	1115	CG	PHE	L	75	37.943	10.945	40.993	1.00	55.33	C
ATOM	1116	CD1	PHE	L	75	38.329	10.436	42.229	1.00	53.87	C
ATOM	1118	CE1	PHE	L	75	38.190	11.192	43.379	1.00	55.62	C
ATOM	1120	CZ	PHE	L	75	37.674	12.474	43.299	1.00	58.22	C
ATOM	1122	CE2	PHE	L	75	37.306	13.002	42.061	1.00	56.85	C
ATOM	1124	CD2	PHE	L	75	37.447	12.242	40.923	1.00	54.25	C
ATOM	1126	C	PHE	L	75	39.778	9.442	37.952	1.00	55.41	C
ATOM	1127	O	PHE	L	75	39.706	9.936	36.827	1.00	57.09	O
ATOM	1129	N	THR	L	76	40.075	8.160	38.171	1.00	56.45	N
ATOM	1130	CA	THR	L	76	40.349	7.236	37.071	1.00	56.24	C
ATOM	1132	CB	THR	L	76	41.850	7.129	36.813	1.00	55.71	C
ATOM	1134	OG1	THR	L	76	42.326	8.371	36.292	1.00	58.96	O
ATOM	1136	CG2	THR	L	76	42.149	6.039	35.803	1.00	56.70	C
ATOM	1140	C	THR	L	76	39.811	5.834	37.314	1.00	55.99	C
ATOM	1141	O	THR	L	76	40.001	5.282	38.392	1.00	54.19	O
ATOM	1143	N	LEU	L	77	39.144	5.282	36.296	1.00	56.24	N
ATOM	1144	CA	LEU	L	77	38.793	3.861	36.240	1.00	56.68	C
ATOM	1146	CB	LEU	L	77	37.398	3.643	35.652	1.00	57.76	C
ATOM	1149	CG	LEU	L	77	36.938	2.191	35.464	1.00	56.37	C
ATOM	1151	CD1	LEU	L	77	36.778	1.512	36.825	1.00	57.33	C

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ATOM	1155	CD2	LEU	L	77	35.629	2.131	34.679	1.00	55.93	C
ATOM	1159	C	LEU	L	77	39.798	3.151	35.354	1.00	57.54	C
ATOM	1160	O	LEU	L	77	39.987	3.527	34.190	1.00	57.34	O
ATOM	1162	N	THR	L	78	40.421	2.115	35.913	1.00	57.49	N
ATOM	1163	CA	THR	L	78	41.395	1.305	35.207	1.00	56.32	C
ATOM	1165	CB	THR	L	78	42.728	1.237	35.996	1.00	56.02	C
ATOM	1167	OG1	THR	L	78	42.882	2.421	36.795	1.00	56.83	O
ATOM	1169	CG2	THR	L	78	43.919	1.090	35.050	1.00	54.58	C
ATOM	1173	C	THR	L	78	40.822	-0.099	35.047	1.00	55.35	C
ATOM	1174	O	THR	L	78	40.325	-0.686	36.009	1.00	52.97	O
ATOM	1176	N	ILE	L	79	40.862	-0.614	33.824	1.00	56.31	N
ATOM	1177	CA	ILE	L	79	40.559	-2.019	33.563	1.00	57.74	C
ATOM	1179	CB	ILE	L	79	39.515	-2.182	32.437	1.00	57.50	C
ATOM	1181	CG1	ILE	L	79	38.312	-1.279	32.681	1.00	58.13	C
ATOM	1184	CD1	ILE	L	79	37.322	-1.310	31.537	1.00	59.88	C
ATOM	1188	CG2	ILE	L	79	39.043	-3.629	32.344	1.00	58.10	C
ATOM	1192	C	ILE	L	79	41.862	-2.732	33.174	1.00	57.37	C
ATOM	1193	O	ILE	L	79	42.293	-2.666	32.025	1.00	57.31	O
ATOM	1195	N	SER	L	80	42.492	-3.394	34.142	1.00	57.69	N
ATOM	1196	CA	SER	L	80	43.743	-4.124	33.900	1.00	58.45	C
ATOM	1198	CB	SER	L	80	44.406	-4.469	35.236	1.00	60.09	C
ATOM	1201	OG	SER	L	80	43.535	-5.250	36.052	1.00	61.16	O
ATOM	1203	C	SER	L	80	43.466	-5.414	33.129	1.00	57.69	C
ATOM	1204	O	SER	L	80	42.903	-6.347	33.683	1.00	60.35	O
ATOM	1206	N	SER	L	81	43.863	-5.480	31.866	1.00	55.77	N
ATOM	1207	CA	SER	L	81	43.448	-6.579	30.983	1.00	56.09	C
ATOM	1209	CB	SER	L	81	43.730	-7.954	31.600	1.00	55.99	C
ATOM	1212	OG	SER	L	81	43.447	-8.988	30.672	1.00	57.68	O
ATOM	1214	C	SER	L	81	41.965	-6.478	30.593	1.00	56.33	C
ATOM	1215	O	SER	L	81	41.072	-6.848	31.365	1.00	55.73	O
ATOM	1217	N	LEU	L	82	41.717	-5.984	29.381	1.00	55.01	N
ATOM	1218	CA	LEU	L	82	40.366	-5.842	28.868	1.00	54.17	C
ATOM	1220	CB	LEU	L	82	40.338	-4.758	27.789	1.00	53.78	C
ATOM	1223	CG	LEU	L	82	38.957	-4.295	27.329	1.00	53.78	C
ATOM	1225	CD1	LEU	L	82	38.201	-3.652	28.482	1.00	56.84	C
ATOM	1229	CD2	LEU	L	82	39.076	-3.328	26.174	1.00	52.87	C
ATOM	1233	C	LEU	L	82	39.868	-7.170	28.297	1.00	53.85	C
ATOM	1234	O	LEU	L	82	40.520	-7.756	27.437	1.00	52.59	O
ATOM	1236	N	GLN	L	83	38.725	-7.644	28.790	1.00	53.69	N
ATOM	1237	CA	GLN	L	83	38.078	-8.838	28.248	1.00	53.93	C
ATOM	1239	CB	GLN	L	83	37.446	-9.687	29.357	1.00	54.98	C
ATOM	1242	CG	GLN	L	83	38.363	-10.000	30.530	1.00	53.38	C
ATOM	1245	CD	GLN	L	83	39.648	-10.627	30.088	1.00	52.37	C
ATOM	1246	OE1	GLN	L	83	39.654	-11.708	29.496	1.00	51.82	O
ATOM	1247	NE2	GLN	L	83	40.754	-9.944	30.354	1.00	51.44	N
ATOM	1250	C	GLN	L	83	37.002	-8.431	27.261	1.00	53.94	C
ATOM	1251	O	GLN	L	83	36.553	-7.283	27.255	1.00	53.65	O
ATOM	1253	N	ALA	L	84	36.579	-9.389	26.443	1.00	54.11	N
ATOM	1254	CA	ALA	L	84	35.666	-9.110	25.338	1.00	54.22	C
ATOM	1256	CB	ALA	L	84	35.546	-10.315	24.420	1.00	53.53	C
ATOM	1260	C	ALA	L	84	34.285	-8.669	25.803	1.00	54.33	C
ATOM	1261	O	ALA	L	84	33.653	-7.865	25.129	1.00	54.33	O
ATOM	1263	N	GLU	L	85	33.811	-9.193	26.934	1.00	55.23	N
ATOM	1264	CA	GLU	L	85	32.492	-8.790	27.459	1.00	55.73	C
ATOM	1266	CB	GLU	L	85	31.920	-9.806	28.463	1.00	56.15	C
ATOM	1269	CG	GLU	L	85	32.596	-9.858	29.826	1.00	57.31	C
ATOM	1272	CD	GLU	L	85	33.534	-11.041	29.972	1.00	62.41	C
ATOM	1273	OE1	GLU	L	85	34.372	-11.272	29.069	1.00	68.87	O
ATOM	1274	OE2	GLU	L	85	33.433	-11.741	30.999	1.00	60.61	O
ATOM	1275	C	GLU	L	85	32.502	-7.397	28.085	1.00	55.79	C
ATOM	1276	O	GLU	L	85	31.454	-6.760	28.161	1.00	57.71	O
ATOM	1278	N	ASP	L	86	33.677	-6.929	28.508	1.00	54.50	N
ATOM	1279	CA	ASP	L	86	33.827	-5.597	29.099	1.00	54.34	C

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ATOM	1281	CB	ASP	L	86	35.249	-5.401	29.609	1.00	53.96	C
ATOM	1284	CG	ASP	L	86	35.595	-6.355	30.708	1.00	56.40	C
ATOM	1285	OD1	ASP	L	86	34.724	-6.610	31.562	1.00	64.93	O
ATOM	1286	OD2	ASP	L	86	36.733	-6.857	30.728	1.00	58.96	O
ATOM	1287	C	ASP	L	86	33.476	-4.445	28.153	1.00	54.52	C
ATOM	1288	O	ASP	L	86	33.398	-3.285	28.576	1.00	54.01	O
ATOM	1290	N	VAL	L	87	33.273	-4.760	26.877	1.00	54.56	N
ATOM	1291	CA	VAL	L	87	32.835	-3.771	25.904	1.00	53.80	C
ATOM	1293	CB	VAL	L	87	32.765	-4.375	24.477	1.00	53.26	C
ATOM	1295	CG1	VAL	L	87	31.578	-5.327	24.328	1.00	54.94	C
ATOM	1299	CG2	VAL	L	87	32.715	-3.280	23.444	1.00	55.38	C
ATOM	1303	C	VAL	L	87	31.496	-3.157	26.354	1.00	52.87	C
ATOM	1304	O	VAL	L	87	30.475	-3.841	26.512	1.00	50.81	O
ATOM	1306	N	ALA	L	88	31.539	-1.853	26.591	1.00	52.72	N
ATOM	1307	CA	ALA	L	88	30.429	-1.151	27.203	1.00	52.43	C
ATOM	1309	CB	ALA	L	88	30.253	-1.623	28.628	1.00	51.93	C
ATOM	1313	C	ALA	L	88	30.665	0.360	27.174	1.00	53.06	C
ATOM	1314	O	ALA	L	88	31.712	0.835	26.701	1.00	53.38	O
ATOM	1316	N	VAL	L	89	29.670	1.103	27.656	1.00	52.34	N
ATOM	1317	CA	VAL	L	89	29.796	2.526	27.901	1.00	51.67	C
ATOM	1319	CB	VAL	L	89	28.554	3.296	27.406	1.00	50.95	C
ATOM	1321	CG1	VAL	L	89	28.652	4.761	27.771	1.00	52.81	C
ATOM	1325	CG2	VAL	L	89	28.397	3.147	25.910	1.00	49.54	C
ATOM	1329	C	VAL	L	89	29.939	2.671	29.406	1.00	51.58	C
ATOM	1330	O	VAL	L	89	29.047	2.274	30.150	1.00	54.46	O
ATOM	1332	N	TYR	L	90	31.062	3.221	29.854	1.00	51.52	N
ATOM	1333	CA	TYR	L	90	31.337	3.371	31.287	1.00	52.57	C
ATOM	1335	CB	TYR	L	90	32.797	2.993	31.593	1.00	51.47	C
ATOM	1338	CG	TYR	L	90	33.051	1.510	31.450	1.00	50.52	C
ATOM	1339	CD1	TYR	L	90	33.177	0.923	30.199	1.00	49.13	C
ATOM	1341	CE1	TYR	L	90	33.379	-0.434	30.060	1.00	47.35	C
ATOM	1343	CZ	TYR	L	90	33.454	-1.223	31.179	1.00	50.51	C
ATOM	1344	OH	TYR	L	90	33.656	-2.579	31.067	1.00	51.12	O
ATOM	1346	CE2	TYR	L	90	33.326	-0.664	32.436	1.00	51.36	C
ATOM	1348	CD2	TYR	L	90	33.123	0.691	32.563	1.00	52.08	C
ATOM	1350	C	TYR	L	90	31.017	4.800	31.735	1.00	52.63	C
ATOM	1351	O	TYR	L	90	31.328	5.757	31.026	1.00	51.70	O
ATOM	1353	N	TYR	L	91	30.395	4.931	32.908	1.00	53.91	N
ATOM	1354	CA	TYR	L	91	29.901	6.223	33.403	1.00	55.09	C
ATOM	1356	CB	TYR	L	91	28.380	6.213	33.507	1.00	54.71	C
ATOM	1359	CG	TYR	L	91	27.641	6.358	32.204	1.00	54.89	C
ATOM	1360	CD1	TYR	L	91	27.461	7.605	31.624	1.00	48.90	C
ATOM	1362	CE1	TYR	L	91	26.765	7.739	30.446	1.00	49.97	C
ATOM	1364	CZ	TYR	L	91	26.234	6.620	29.841	1.00	53.05	C
ATOM	1365	OH	TYR	L	91	25.543	6.738	28.664	1.00	53.94	O
ATOM	1367	CE2	TYR	L	91	26.399	5.369	30.402	1.00	54.39	C
ATOM	1369	CD2	TYR	L	91	27.091	5.245	31.572	1.00	53.31	C
ATOM	1371	C	TYR	L	91	30.426	6.628	34.777	1.00	56.54	C
ATOM	1372	O	TYR	L	91	30.550	5.811	35.689	1.00	58.18	O
ATOM	1374	N	CYS	L	92	30.617	7.932	34.919	1.00	58.34	N
ATOM	1375	CA	CYS	L	92	31.134	8.568	36.109	1.00	57.04	C
ATOM	1377	CB	CYS	L	92	32.105	9.636	35.634	1.00	59.10	C
ATOM	1380	SG	CYS	L	92	33.016	10.328	36.933	1.00	67.16	S
ATOM	1382	C	CYS	L	92	30.003	9.246	36.883	1.00	56.04	C
ATOM	1383	O	CYS	L	92	29.027	9.666	36.277	1.00	55.74	O
ATOM	1385	N	GLN	L	93	30.132	9.382	38.203	1.00	56.50	N
ATOM	1386	CA	GLN	L	93	29.059	9.990	39.034	1.00	55.53	C
ATOM	1388	CB	GLN	L	93	27.924	8.993	39.245	1.00	55.82	C
ATOM	1391	CG	GLN	L	93	26.676	9.548	39.958	1.00	57.20	C
ATOM	1394	CD	GLN	L	93	26.391	8.920	41.317	1.00	54.95	C
ATOM	1395	OE1	GLN	L	93	26.866	7.832	41.633	1.00	56.37	O
ATOM	1396	NE2	GLN	L	93	25.590	9.602	42.118	1.00	51.50	N
ATOM	1399	C	GLN	L	93	29.556	10.425	40.392	1.00	54.46	C

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ATOM	1400	O	GLN	L	93	30.358	9.728	41.004	1.00	57.26	O
ATOM	1402	N	HIS	L	94	29.057	11.557	40.873	1.00	52.91	N
ATOM	1403	CA	HIS	L	94	29.462	12.089	42.177	1.00	53.90	C
ATOM	1405	CB	HIS	L	94	30.100	13.471	42.020	1.00	54.57	C
ATOM	1408	CG	HIS	L	94	29.098	14.584	42.006	1.00	54.75	C
ATOM	1409	ND1	HIS	L	94	28.735	15.275	43.141	1.00	54.59	N
ATOM	1411	CE1	HIS	L	94	27.801	16.157	42.835	1.00	59.25	C
ATOM	1413	NE2	HIS	L	94	27.536	16.057	41.545	1.00	57.68	N
ATOM	1415	CD2	HIS	L	94	28.326	15.072	41.006	1.00	57.78	C
ATOM	1417	C	HIS	L	94	28.270	12.245	43.108	1.00	53.25	C
ATOM	1418	O	HIS	L	94	27.114	12.181	42.681	1.00	53.22	O
ATOM	1420	N	SER	L	95	28.553	12.512	44.377	1.00	53.15	N
ATOM	1421	CA	SER	L	95	27.498	12.890	45.310	1.00	53.23	C
ATOM	1423	CB	SER	L	95	26.858	11.636	45.923	1.00	52.60	C
ATOM	1426	OG	SER	L	95	27.766	10.992	46.812	1.00	49.79	O
ATOM	1428	C	SER	L	95	27.990	13.815	46.420	1.00	52.80	C
ATOM	1429	O	SER	L	95	27.553	13.695	47.551	1.00	56.31	O
ATOM	1431	N	ARG	L	96	28.895	14.734	46.125	1.00	52.61	N
ATOM	1432	CA	ARG	L	96	29.294	15.716	47.141	1.00	53.47	C
ATOM	1434	CB	ARG	L	96	30.408	16.624	46.612	1.00	53.66	C
ATOM	1437	CG	ARG	L	96	30.862	17.705	47.579	1.00	52.95	C
ATOM	1440	CD	ARG	L	96	31.613	17.142	48.764	1.00	52.49	C
ATOM	1443	NE	ARG	L	96	31.892	18.199	49.731	1.00	53.39	N
ATOM	1445	CZ	ARG	L	96	31.053	18.604	50.685	1.00	53.34	C
ATOM	1446	NH1	ARG	L	96	29.860	18.041	50.847	1.00	58.89	N
ATOM	1449	NH2	ARG	L	96	31.417	19.579	51.502	1.00	52.87	N
ATOM	1452	C	ARG	L	96	28.091	16.562	47.590	1.00	52.41	C
ATOM	1453	O	ARG	L	96	27.918	16.836	48.768	1.00	51.51	O
ATOM	1455	N	GLU	L	97	27.269	16.966	46.638	1.00	52.07	N
ATOM	1456	CA	GLU	L	97	26.111	17.784	46.920	1.00	53.05	C
ATOM	1458	CB	GLU	L	97	26.489	19.267	46.838	1.00	54.44	C
ATOM	1461	CG	GLU	L	97	27.058	19.715	45.483	1.00	56.59	C
ATOM	1464	CD	GLU	L	97	27.644	21.116	45.533	1.00	58.43	C
ATOM	1465	OE1	GLU	L	97	28.282	21.450	46.554	1.00	66.43	O
ATOM	1466	OE2	GLU	L	97	27.479	21.886	44.553	1.00	65.22	O
ATOM	1467	C	GLU	L	97	25.064	17.454	45.883	1.00	51.91	C
ATOM	1468	O	GLU	L	97	25.316	16.638	44.997	1.00	51.93	O
ATOM	1470	N	LEU	L	98	23.898	18.083	45.986	1.00	50.34	N
ATOM	1471	CA	LEU	L	98	22.882	17.940	44.954	1.00	50.49	C
ATOM	1473	CB	LEU	L	98	21.472	17.987	45.536	1.00	49.48	C
ATOM	1476	CG	LEU	L	98	20.804	16.641	45.764	1.00	51.33	C
ATOM	1478	CD1	LEU	L	98	21.548	15.886	46.827	1.00	56.91	C
ATOM	1482	CD2	LEU	L	98	19.358	16.837	46.171	1.00	52.44	C
ATOM	1486	C	LEU	L	98	23.050	19.041	43.928	1.00	49.66	C
ATOM	1487	O	LEU	L	98	23.513	20.137	44.274	1.00	51.20	O
ATOM	1489	N	PRO	L	99	22.670	18.760	42.661	1.00	48.26	N
ATOM	1490	CA	PRO	L	99	22.170	17.476	42.177	1.00	49.09	C
ATOM	1492	CB	PRO	L	99	21.466	17.835	40.865	1.00	49.32	C
ATOM	1495	CG	PRO	L	99	21.617	19.295	40.678	1.00	46.87	C
ATOM	1498	CD	PRO	L	99	22.699	19.752	41.579	1.00	47.57	C
ATOM	1501	C	PRO	L	99	23.263	16.452	41.889	1.00	49.51	C
ATOM	1502	O	PRO	L	99	24.367	16.799	41.485	1.00	50.96	O
ATOM	1503	N	TRP	L	100	22.925	15.188	42.088	1.00	50.14	N
ATOM	1504	CA	TRP	L	100	23.827	14.090	41.797	1.00	49.90	C
ATOM	1506	CB	TRP	L	100	23.315	12.817	42.465	1.00	49.58	C
ATOM	1509	CG	TRP	L	100	23.201	12.960	43.949	1.00	52.10	C
ATOM	1510	CD1	TRP	L	100	24.033	13.666	44.770	1.00	56.37	C
ATOM	1512	NE1	TRP	L	100	23.630	13.554	46.074	1.00	55.05	N
ATOM	1514	CE2	TRP	L	100	22.519	12.758	46.117	1.00	52.25	C
ATOM	1515	CD2	TRP	L	100	22.223	12.365	44.797	1.00	53.05	C
ATOM	1516	CE3	TRP	L	100	21.127	11.533	44.570	1.00	54.95	C
ATOM	1518	CZ3	TRP	L	100	20.376	11.137	45.641	1.00	55.55	C
ATOM	1520	CH2	TRP	L	100	20.692	11.550	46.944	1.00	54.45	C

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ATOM	1522	CZ2	TRP	L	100	21.756	12.362	47.197	1.00	49.52	C
ATOM	1524	C	TRP	L	100	23.961	13.919	40.279	1.00	49.78	C
ATOM	1525	O	TRP	L	100	23.036	13.459	39.607	1.00	48.93	O
ATOM	1527	N	THR	L	101	25.113	14.320	39.748	1.00	49.38	N
ATOM	1528	CA	THR	L	101	25.311	14.404	38.303	1.00	48.66	C
ATOM	1530	CB	THR	L	101	25.717	15.819	37.855	1.00	46.87	C
ATOM	1532	OG1	THR	L	101	26.804	16.309	38.655	1.00	46.30	O
ATOM	1534	CG2	THR	L	101	24.540	16.739	38.016	1.00	44.92	C
ATOM	1538	C	THR	L	101	26.329	13.400	37.827	1.00	47.78	C
ATOM	1539	O	THR	L	101	27.192	12.968	38.579	1.00	47.20	O
ATOM	1541	N	PHE	L	102	26.197	13.037	36.561	1.00	47.97	N
ATOM	1542	CA	PHE	L	102	26.962	11.966	35.960	1.00	48.82	C
ATOM	1544	CB	PHE	L	102	26.021	11.021	35.207	1.00	49.42	C
ATOM	1547	CG	PHE	L	102	25.300	10.039	36.076	1.00	46.67	C
ATOM	1548	CD1	PHE	L	102	25.742	8.720	36.164	1.00	47.15	C
ATOM	1550	CE1	PHE	L	102	25.085	7.800	36.936	1.00	46.15	C
ATOM	1552	CZ	PHE	L	102	23.965	8.174	37.638	1.00	50.19	C
ATOM	1554	CE2	PHE	L	102	23.498	9.488	37.551	1.00	53.10	C
ATOM	1556	CD2	PHE	L	102	24.168	10.407	36.761	1.00	47.98	C
ATOM	1558	C	PHE	L	102	27.926	12.571	34.956	1.00	49.48	C
ATOM	1559	O	PHE	L	102	27.792	13.739	34.592	1.00	51.35	O
ATOM	1561	N	GLY	L	103	28.882	11.774	34.495	1.00	49.86	N
ATOM	1562	CA	GLY	L	103	29.714	12.143	33.351	1.00	50.55	C
ATOM	1565	C	GLY	L	103	28.962	11.813	32.080	1.00	51.42	C
ATOM	1566	O	GLY	L	103	27.832	11.324	32.142	1.00	54.44	O
ATOM	1568	N	GLN	L	104	29.570	12.071	30.925	1.00	51.70	N
ATOM	1569	CA	GLN	L	104	28.886	11.861	29.639	1.00	51.67	C
ATOM	1571	CB	GLN	L	104	29.305	12.921	28.598	1.00	52.35	C
ATOM	1574	CG	GLN	L	104	30.581	12.630	27.784	1.00	52.79	C
ATOM	1577	CD	GLN	L	104	31.854	12.921	28.543	1.00	53.59	C
ATOM	1578	OE1	GLN	L	104	31.841	13.166	29.753	1.00	53.39	O
ATOM	1579	NE2	GLN	L	104	32.968	12.903	27.831	1.00	51.28	N
ATOM	1582	C	GLN	L	104	29.098	10.449	29.096	1.00	51.16	C
ATOM	1583	O	GLN	L	104	28.619	10.111	28.015	1.00	50.46	O
ATOM	1585	N	GLY	L	105	29.818	9.629	29.852	1.00	52.46	N
ATOM	1586	CA	GLY	L	105	30.071	8.249	29.470	1.00	52.57	C
ATOM	1589	C	GLY	L	105	31.240	8.128	28.517	1.00	52.29	C
ATOM	1590	O	GLY	L	105	31.511	9.045	27.734	1.00	52.99	O
ATOM	1592	N	THR	L	106	31.928	6.990	28.590	1.00	52.25	N
ATOM	1593	CA	THR	L	106	33.051	6.688	27.709	1.00	52.43	C
ATOM	1595	CB	THR	L	106	34.391	6.741	28.477	1.00	52.12	C
ATOM	1597	OG1	THR	L	106	34.638	8.078	28.934	1.00	49.34	O
ATOM	1599	CG2	THR	L	106	35.551	6.290	27.595	1.00	52.62	C
ATOM	1603	C	THR	L	106	32.855	5.300	27.102	1.00	52.40	C
ATOM	1604	O	THR	L	106	32.718	4.323	27.828	1.00	53.01	O
ATOM	1606	N	LYS	L	107	32.851	5.226	25.775	1.00	53.39	N
ATOM	1607	CA	LYS	L	107	32.646	3.972	25.057	1.00	54.31	C
ATOM	1609	CB	LYS	L	107	32.114	4.244	23.647	1.00	55.17	C
ATOM	1612	CG	LYS	L	107	31.300	3.111	23.024	1.00	55.52	C
ATOM	1615	CD	LYS	L	107	30.815	3.508	21.617	1.00	57.87	C
ATOM	1618	CE	LYS	L	107	29.491	2.835	21.229	1.00	60.84	C
ATOM	1621	NZ	LYS	L	107	28.967	3.298	19.891	1.00	58.55	N
ATOM	1625	C	LYS	L	107	33.965	3.240	24.963	1.00	54.57	C
ATOM	1626	O	LYS	L	107	34.946	3.775	24.450	1.00	53.85	O
ATOM	1628	N	VAL	L	108	33.992	2.015	25.466	1.00	55.85	N
ATOM	1629	CA	VAL	L	108	35.201	1.204	25.429	1.00	55.48	C
ATOM	1631	CB	VAL	L	108	35.516	0.622	26.821	1.00	54.97	C
ATOM	1633	CG1	VAL	L	108	36.545	-0.498	26.735	1.00	54.29	C
ATOM	1637	CG2	VAL	L	108	36.006	1.738	27.744	1.00	54.20	C
ATOM	1641	C	VAL	L	108	34.976	0.101	24.428	1.00	54.93	C
ATOM	1642	O	VAL	L	108	33.910	-0.506	24.417	1.00	55.37	O
ATOM	1644	N	GLU	L	109	35.980	-0.151	23.593	1.00	55.63	N
ATOM	1645	CA	GLU	L	109	35.896	-1.185	22.553	1.00	56.24	C

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ATOM	1647	CB	GLU	L	109	35.520	-0.553	21.213	1.00	55.87	C
ATOM	1650	CG	GLU	L	109	34.026	-0.230	21.125	1.00	59.28	C
ATOM	1653	CD	GLU	L	109	33.636	0.546	19.880	1.00	59.04	C
ATOM	1654	OE1	GLU	L	109	34.493	1.271	19.333	1.00	65.40	O
ATOM	1655	OE2	GLU	L	109	32.463	0.435	19.458	1.00	63.24	O
ATOM	1656	C	GLU	L	109	37.172	-2.022	22.421	1.00	55.96	C
ATOM	1657	O	GLU	L	109	38.209	-1.708	23.011	1.00	56.62	O
ATOM	1659	N	ILE	L	110	37.070	-3.103	21.655	1.00	55.26	N
ATOM	1660	CA	ILE	L	110	38.171	-4.044	21.471	1.00	54.84	C
ATOM	1662	CB	ILE	L	110	37.676	-5.520	21.615	1.00	53.97	C
ATOM	1664	CG1	ILE	L	110	37.964	-6.046	23.018	1.00	53.00	C
ATOM	1667	CD1	ILE	L	110	37.208	-5.335	24.077	1.00	57.14	C
ATOM	1671	CG2	ILE	L	110	38.358	-6.449	20.626	1.00	57.07	C
ATOM	1675	C	ILE	L	110	38.851	-3.823	20.118	1.00	55.03	C
ATOM	1676	O	ILE	L	110	38.176	-3.633	19.100	1.00	55.16	O
ATOM	1678	N	LYS	L	111	40.184	-3.840	20.117	1.00	54.09	N
ATOM	1679	CA	LYS	L	111	40.950	-3.865	18.873	1.00	53.75	C
ATOM	1681	CB	LYS	L	111	42.302	-3.150	19.010	1.00	54.21	C
ATOM	1684	CG	LYS	L	111	42.196	-1.626	18.941	1.00	55.69	C
ATOM	1687	CD	LYS	L	111	43.542	-0.952	18.674	1.00	55.59	C
ATOM	1690	CE	LYS	L	111	43.376	0.573	18.529	1.00	57.45	C
ATOM	1693	NZ	LYS	L	111	44.562	1.256	17.911	1.00	56.32	N
ATOM	1697	C	LYS	L	111	41.126	-5.322	18.458	1.00	52.96	C
ATOM	1698	O	LYS	L	111	41.512	-6.174	19.257	1.00	53.46	O
ATOM	1700	N	ARG	L	112	40.838	-5.589	17.193	1.00	52.44	N
ATOM	1701	CA	ARG	L	112	40.702	-6.940	16.682	1.00	51.40	C
ATOM	1703	CB	ARG	L	112	39.212	-7.243	16.523	1.00	51.98	C
ATOM	1706	CG	ARG	L	112	38.787	-8.647	16.869	1.00	50.47	C
ATOM	1709	CD	ARG	L	112	37.574	-9.048	16.036	1.00	49.48	C
ATOM	1712	NE	ARG	L	112	37.957	-9.432	14.678	1.00	43.18	N
ATOM	1714	CZ	ARG	L	112	38.354	-10.652	14.317	1.00	42.39	C
ATOM	1715	NH1	ARG	L	112	38.422	-11.634	15.200	1.00	43.28	N
ATOM	1718	NH2	ARG	L	112	38.683	-10.900	13.057	1.00	45.12	N
ATOM	1721	C	ARG	L	112	41.396	-7.011	15.325	1.00	50.66	C
ATOM	1722	O	ARG	L	112	41.635	-5.982	14.692	1.00	49.67	O
ATOM	1724	N	THR	L	113	41.721	-8.220	14.878	1.00	50.47	N
ATOM	1725	CA	THR	L	113	42.254	-8.408	13.525	1.00	50.41	C
ATOM	1727	CB	THR	L	113	42.738	-9.851	13.293	1.00	50.23	C
ATOM	1729	OG1	THR	L	113	41.649	-10.765	13.472	1.00	51.99	O
ATOM	1731	CG2	THR	L	113	43.850	-10.209	14.262	1.00	50.47	C
ATOM	1735	C	THR	L	113	41.162	-8.082	12.511	1.00	50.13	C
ATOM	1736	O	THR	L	113	39.978	-8.076	12.852	1.00	50.91	O
ATOM	1738	N	VAL	L	114	41.544	-7.796	11.272	1.00	49.57	N
ATOM	1739	CA	VAL	L	114	40.553	-7.403	10.271	1.00	49.63	C
ATOM	1741	CB	VAL	L	114	41.199	-6.691	9.050	1.00	48.73	C
ATOM	1743	CG1	VAL	L	114	40.183	-6.488	7.936	1.00	47.74	C
ATOM	1747	CG2	VAL	L	114	41.777	-5.345	9.476	1.00	47.63	C
ATOM	1751	C	VAL	L	114	39.722	-8.622	9.848	1.00	49.92	C
ATOM	1752	O	VAL	L	114	40.269	-9.675	9.507	1.00	49.67	O
ATOM	1754	N	ALA	L	115	38.399	-8.462	9.906	1.00	49.86	N
ATOM	1755	CA	ALA	L	115	37.451	-9.497	9.507	1.00	49.19	C
ATOM	1757	CB	ALA	L	115	36.633	-9.947	10.698	1.00	49.31	C
ATOM	1761	C	ALA	L	115	36.535	-8.963	8.419	1.00	48.76	C
ATOM	1762	O	ALA	L	115	35.754	-8.039	8.654	1.00	47.41	O
ATOM	1764	N	ALA	L	116	36.638	-9.550	7.228	1.00	49.59	N
ATOM	1765	CA	ALA	L	116	35.802	-9.165	6.097	1.00	49.37	C
ATOM	1767	CB	ALA	L	116	36.165	-9.975	4.873	1.00	48.28	C
ATOM	1771	C	ALA	L	116	34.340	-9.383	6.461	1.00	50.11	C
ATOM	1772	O	ALA	L	116	34.035	-10.246	7.282	1.00	50.77	O
ATOM	1774	N	PRO	L	117	33.428	-8.588	5.879	1.00	50.29	N
ATOM	1775	CA	PRO	L	117	32.023	-8.851	6.133	1.00	50.04	C
ATOM	1777	CB	PRO	L	117	31.356	-7.489	5.893	1.00	49.53	C
ATOM	1780	CG	PRO	L	117	32.410	-6.599	5.286	1.00	49.57	C

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ATOM	1783	CD	PRO	L	117	33.601	-7.442	4.976	1.00	50.58	C
ATOM	1786	C	PRO	L	117	31.499	-9.885	5.152	1.00	50.47	C
ATOM	1787	O	PRO	L	117	31.836	-9.837	3.972	1.00	50.01	O
ATOM	1788	N	SER	L	118	30.703	-10.825	5.648	1.00	51.10	N
ATOM	1789	CA	SER	L	118	29.962	-11.740	4.792	1.00	50.63	C
ATOM	1791	CB	SER	L	118	29.693	-13.059	5.513	1.00	51.05	C
ATOM	1794	OG	SER	L	118	29.183	-12.832	6.820	1.00	49.77	O
ATOM	1796	C	SER	L	118	28.648	-11.060	4.431	1.00	51.04	C
ATOM	1797	O	SER	L	118	27.859	-10.717	5.317	1.00	50.74	O
ATOM	1799	N	VAL	L	119	28.427	-10.865	3.131	1.00	51.04	N
ATOM	1800	CA	VAL	L	119	27.300	-10.084	2.624	1.00	50.67	C
ATOM	1802	CB	VAL	L	119	27.745	-9.151	1.460	1.00	50.02	C
ATOM	1804	CG1	VAL	L	119	26.568	-8.317	0.946	1.00	47.92	C
ATOM	1808	CG2	VAL	L	119	28.897	-8.251	1.903	1.00	48.89	C
ATOM	1812	C	VAL	L	119	26.179	-10.983	2.113	1.00	50.98	C
ATOM	1813	O	VAL	L	119	26.434	-11.980	1.434	1.00	51.69	O
ATOM	1815	N	PHE	L	120	24.942	-10.612	2.429	1.00	51.17	N
ATOM	1816	CA	PHE	L	120	23.757	-11.283	1.903	1.00	53.08	C
ATOM	1818	CB	PHE	L	120	23.068	-12.106	3.002	1.00	53.27	C
ATOM	1821	CG	PHE	L	120	23.970	-13.113	3.687	1.00	54.14	C
ATOM	1822	CD1	PHE	L	120	24.866	-12.714	4.675	1.00	54.71	C
ATOM	1824	CE1	PHE	L	120	25.690	-13.636	5.313	1.00	51.45	C
ATOM	1826	CZ	PHE	L	120	25.613	-14.973	4.982	1.00	51.35	C
ATOM	1828	CE2	PHE	L	120	24.718	-15.390	4.007	1.00	53.76	C
ATOM	1830	CD2	PHE	L	120	23.900	-14.462	3.366	1.00	54.90	C
ATOM	1832	C	PHE	L	120	22.795	-10.215	1.383	1.00	53.98	C
ATOM	1833	O	PHE	L	120	22.800	-9.093	1.884	1.00	54.86	O
ATOM	1835	N	ILE	L	121	21.982	-10.550	0.381	1.00	55.74	N
ATOM	1836	CA	ILE	L	121	20.916	-9.645	-0.083	1.00	56.42	C
ATOM	1838	CB	ILE	L	121	21.187	-9.069	-1.491	1.00	56.16	C
ATOM	1840	CG1	ILE	L	121	20.244	-7.894	-1.776	1.00	55.98	C
ATOM	1843	CD1	ILE	L	121	20.615	-7.095	-3.018	1.00	56.25	C
ATOM	1847	CG2	ILE	L	121	21.056	-10.145	-2.569	1.00	56.85	C
ATOM	1851	C	ILE	L	121	19.565	-10.348	-0.068	1.00	57.75	C
ATOM	1852	O	ILE	L	121	19.470	-11.535	-0.373	1.00	58.73	O
ATOM	1854	N	PHE	L	122	18.529	-9.597	0.295	1.00	59.21	N
ATOM	1855	CA	PHE	L	122	17.187	-10.135	0.468	1.00	59.29	C
ATOM	1857	CB	PHE	L	122	16.779	-10.070	1.939	1.00	61.07	C
ATOM	1860	CG	PHE	L	122	17.673	-10.862	2.847	1.00	62.37	C
ATOM	1861	CD1	PHE	L	122	17.561	-12.242	2.912	1.00	63.05	C
ATOM	1863	CE1	PHE	L	122	18.381	-12.983	3.744	1.00	63.87	C
ATOM	1865	CZ	PHE	L	122	19.331	-12.341	4.526	1.00	63.53	C
ATOM	1867	CE2	PHE	L	122	19.456	-10.960	4.468	1.00	62.76	C
ATOM	1869	CD2	PHE	L	122	18.630	-10.228	3.630	1.00	62.86	C
ATOM	1871	C	PHE	L	122	16.202	-9.325	-0.354	1.00	59.29	C
ATOM	1872	O	PHE	L	122	16.111	-8.107	-0.187	1.00	59.29	O
ATOM	1874	N	PRO	L	123	15.455	-9.995	-1.242	1.00	58.87	N
ATOM	1875	CA	PRO	L	123	14.453	-9.272	-2.013	1.00	58.89	C
ATOM	1877	CB	PRO	L	123	14.165	-10.219	-3.182	1.00	59.19	C
ATOM	1880	CG	PRO	L	123	14.450	-11.582	-2.653	1.00	59.45	C
ATOM	1883	CD	PRO	L	123	15.483	-11.434	-1.567	1.00	59.04	C
ATOM	1886	C	PRO	L	123	13.201	-9.027	-1.168	1.00	58.28	C
ATOM	1887	O	PRO	L	123	12.977	-9.745	-0.196	1.00	58.56	O
ATOM	1888	N	PRO	L	124	12.394	-8.013	-1.522	1.00	57.89	N
ATOM	1889	CA	PRO	L	124	11.140	-7.784	-0.798	1.00	58.13	C
ATOM	1891	CB	PRO	L	124	10.569	-6.532	-1.471	1.00	58.19	C
ATOM	1894	CG	PRO	L	124	11.211	-6.493	-2.808	1.00	57.53	C
ATOM	1897	CD	PRO	L	124	12.586	-7.031	-2.600	1.00	57.38	C
ATOM	1900	C	PRO	L	124	10.160	-8.947	-0.950	1.00	58.10	C
ATOM	1901	O	PRO	L	124	10.000	-9.475	-2.051	1.00	58.38	O
ATOM	1902	N	SER	L	125	9.509	-9.331	0.145	1.00	57.47	N
ATOM	1903	CA	SER	L	125	8.545	-10.428	0.119	1.00	57.48	C
ATOM	1905	CB	SER	L	125	8.179	-10.849	1.541	1.00	57.88	C

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ATOM	1908	OG	SER	L	125	7.590	-9.772	2.243	1.00	60.56	O
ATOM	1910	C	SER	L	125	7.282	-10.035	-0.643	1.00	56.61	C
ATOM	1911	O	SER	L	125	6.920	-8.859	-0.700	1.00	55.29	O
ATOM	1913	N	ASP	L	126	6.619	-11.031	-1.228	1.00	56.62	N
ATOM	1914	CA	ASP	L	126	5.383	-10.800	-1.974	1.00	56.49	C
ATOM	1916	CB	ASP	L	126	4.930	-12.075	-2.697	1.00	55.78	C
ATOM	1919	CG	ASP	L	126	5.773	-12.383	-3.921	1.00	54.08	C
ATOM	1920	OD1	ASP	L	126	5.370	-13.253	-4.720	1.00	53.82	O
ATOM	1921	OD2	ASP	L	126	6.837	-11.753	-4.093	1.00	51.90	O
ATOM	1922	C	ASP	L	126	4.283	-10.292	-1.055	1.00	56.62	C
ATOM	1923	O	ASP	L	126	3.468	-9.462	-1.457	1.00	57.02	O
ATOM	1925	N	GLU	L	127	4.272	-10.786	0.179	1.00	56.79	N
ATOM	1926	CA	GLU	L	127	3.324	-10.323	1.190	1.00	56.91	C
ATOM	1928	CB	GLU	L	127	3.597	-11.020	2.531	1.00	56.92	C
ATOM	1931	CG	GLU	L	127	3.247	-12.521	2.526	1.00	57.47	C
ATOM	1934	CD	GLU	L	127	4.302	-13.404	3.187	1.00	56.55	C
ATOM	1935	OE1	GLU	L	127	3.923	-14.371	3.883	1.00	51.13	O
ATOM	1936	OE2	GLU	L	127	5.510	-13.142	3.000	1.00	55.50	O
ATOM	1937	C	GLU	L	127	3.365	-8.796	1.346	1.00	57.23	C
ATOM	1938	O	GLU	L	127	2.312	-8.153	1.413	1.00	57.81	O
ATOM	1940	N	GLN	L	128	4.574	-8.225	1.376	1.00	56.33	N
ATOM	1941	CA	GLN	L	128	4.756	-6.777	1.559	1.00	55.91	C
ATOM	1943	CB	GLN	L	128	6.225	-6.431	1.833	1.00	55.96	C
ATOM	1946	CG	GLN	L	128	6.441	-4.959	2.208	1.00	55.23	C
ATOM	1949	CD	GLN	L	128	7.893	-4.555	2.254	1.00	53.28	C
ATOM	1950	OE1	GLN	L	128	8.782	-5.361	2.000	1.00	50.86	O
ATOM	1951	NE2	GLN	L	128	8.142	-3.293	2.576	1.00	48.52	N
ATOM	1954	C	GLN	L	128	4.291	-5.974	0.355	1.00	55.73	C
ATOM	1955	O	GLN	L	128	3.665	-4.925	0.502	1.00	55.43	O
ATOM	1957	N	LEU	L	129	4.627	-6.457	-0.833	1.00	56.19	N
ATOM	1958	CA	LEU	L	129	4.290	-5.754	-2.064	1.00	56.62	C
ATOM	1960	CB	LEU	L	129	4.842	-6.515	-3.273	1.00	56.91	C
ATOM	1963	CG	LEU	L	129	6.373	-6.569	-3.353	1.00	57.38	C
ATOM	1965	CD1	LEU	L	129	6.849	-7.667	-4.293	1.00	57.69	C
ATOM	1969	CD2	LEU	L	129	6.932	-5.219	-3.780	1.00	58.52	C
ATOM	1973	C	LEU	L	129	2.778	-5.581	-2.168	1.00	56.69	C
ATOM	1974	O	LEU	L	129	2.284	-4.496	-2.483	1.00	56.09	O
ATOM	1976	N	LYS	L	130	2.051	-6.651	-1.860	1.00	56.77	N
ATOM	1977	CA	LYS	L	130	0.594	-6.615	-1.833	1.00	56.47	C
ATOM	1979	CB	LYS	L	130	0.030	-7.960	-1.355	1.00	56.00	C
ATOM	1982	CG	LYS	L	130	0.195	-9.078	-2.389	1.00	55.88	C
ATOM	1985	CD	LYS	L	130	-0.185	-10.451	-1.853	1.00	55.79	C
ATOM	1988	CE	LYS	L	130	-0.033	-11.517	-2.930	1.00	53.50	C
ATOM	1991	NZ	LYS	L	130	-0.372	-12.874	-2.429	1.00	52.48	N
ATOM	1995	C	LYS	L	130	0.073	-5.458	-0.979	1.00	56.78	C
ATOM	1996	O	LYS	L	130	-0.971	-4.892	-1.290	1.00	56.99	O
ATOM	1998	N	SER	L	131	0.805	-5.096	0.077	1.00	57.09	N
ATOM	1999	CA	SER	L	131	0.450	-3.927	0.895	1.00	57.34	C
ATOM	2001	CB	SER	L	131	1.197	-3.927	2.235	1.00	57.08	C
ATOM	2004	OG	SER	L	131	2.458	-3.296	2.125	1.00	56.21	O
ATOM	2006	C	SER	L	131	0.690	-2.605	0.151	1.00	57.77	C
ATOM	2007	O	SER	L	131	0.009	-1.620	0.419	1.00	58.13	O
ATOM	2009	N	GLY	L	132	1.658	-2.581	-0.766	1.00	58.05	N
ATOM	2010	CA	GLY	L	132	1.823	-1.449	-1.686	1.00	58.27	C
ATOM	2013	C	GLY	L	132	3.159	-0.715	-1.674	1.00	58.75	C
ATOM	2014	O	GLY	L	132	3.303	0.305	-2.352	1.00	58.07	O
ATOM	2016	N	THR	L	133	4.131	-1.204	-0.902	1.00	59.16	N
ATOM	2017	CA	THR	L	133	5.503	-0.665	-0.943	1.00	59.08	C
ATOM	2019	CB	THR	L	133	5.770	0.352	0.177	1.00	58.61	C
ATOM	2021	OG1	THR	L	133	5.641	-0.299	1.448	1.00	59.73	O
ATOM	2023	CG2	THR	L	133	4.815	1.543	0.086	1.00	58.69	C
ATOM	2027	C	THR	L	133	6.543	-1.770	-0.802	1.00	58.73	C
ATOM	2028	O	THR	L	133	6.257	-2.824	-0.235	1.00	59.65	O

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ATOM	2030	N	ALA	L	134	7.751	-1.505	-1.296	1.00	57.63	N
ATOM	2031	CA	ALA	L	134	8.834	-2.483	-1.270	1.00	58.37	C
ATOM	2033	CB	ALA	L	134	9.291	-2.793	-2.685	1.00	58.84	C
ATOM	2037	C	ALA	L	134	10.021	-2.011	-0.425	1.00	58.96	C
ATOM	2038	O	ALA	L	134	10.439	-0.851	-0.512	1.00	59.55	O
ATOM	2040	N	SER	L	135	10.547	-2.927	0.391	1.00	58.21	N
ATOM	2041	CA	SER	L	135	11.784	-2.717	1.133	1.00	57.20	C
ATOM	2043	CB	SER	L	135	11.523	-2.746	2.644	1.00	57.71	C
ATOM	2046	OG	SER	L	135	11.108	-1.476	3.121	1.00	58.76	O
ATOM	2048	C	SER	L	135	12.768	-3.816	0.761	1.00	55.71	C
ATOM	2049	O	SER	L	135	12.458	-4.992	0.929	1.00	55.68	O
ATOM	2051	N	VAL	L	136	13.938	-3.434	0.248	1.00	54.44	N
ATOM	2052	CA	VAL	L	136	15.007	-4.393	-0.057	1.00	54.20	C
ATOM	2054	CB	VAL	L	136	15.438	-4.351	-1.568	1.00	54.24	C
ATOM	2056	CG1	VAL	L	136	16.023	-3.009	-1.974	1.00	52.66	C
ATOM	2060	CG2	VAL	L	136	16.421	-5.471	-1.884	1.00	55.76	C
ATOM	2064	C	VAL	L	136	16.183	-4.182	0.912	1.00	53.60	C
ATOM	2065	O	VAL	L	136	16.612	-3.050	1.158	1.00	53.72	O
ATOM	2067	N	VAL	L	137	16.687	-5.284	1.465	1.00	53.30	N
ATOM	2068	CA	VAL	L	137	17.637	-5.243	2.581	1.00	53.45	C
ATOM	2070	CB	VAL	L	137	17.087	-6.015	3.804	1.00	52.01	C
ATOM	2072	CG1	VAL	L	137	18.072	-5.978	4.961	1.00	50.63	C
ATOM	2076	CG2	VAL	L	137	15.749	-5.450	4.228	1.00	51.67	C
ATOM	2080	C	VAL	L	137	18.981	-5.854	2.200	1.00	54.41	C
ATOM	2081	O	VAL	L	137	19.038	-6.880	1.521	1.00	55.20	O
ATOM	2083	N	CYS	L	138	20.056	-5.212	2.647	1.00	55.76	N
ATOM	2084	CA	CYS	L	138	21.406	-5.736	2.491	1.00	54.89	C
ATOM	2086	CB	CYS	L	138	22.298	-4.729	1.779	1.00	55.45	C
ATOM	2089	SG	CYS	L	138	23.884	-5.436	1.297	1.00	59.37	S
ATOM	2091	C	CYS	L	138	21.963	-5.996	3.868	1.00	54.85	C
ATOM	2092	O	CYS	L	138	21.772	-5.184	4.768	1.00	55.84	O
ATOM	2094	N	LEU	L	139	22.654	-7.120	4.032	1.00	54.78	N
ATOM	2095	CA	LEU	L	139	23.214	-7.519	5.331	1.00	54.82	C
ATOM	2097	CB	LEU	L	139	22.598	-8.853	5.771	1.00	54.03	C
ATOM	2100	CG	LEU	L	139	23.274	-9.583	6.933	1.00	53.90	C
ATOM	2102	CD1	LEU	L	139	23.385	-8.660	8.139	1.00	51.76	C
ATOM	2106	CD2	LEU	L	139	22.516	-10.861	7.269	1.00	52.76	C
ATOM	2110	C	LEU	L	139	24.737	-7.651	5.245	1.00	55.59	C
ATOM	2111	O	LEU	L	139	25.232	-8.375	4.384	1.00	57.06	O
ATOM	2113	N	LEU	L	140	25.472	-6.955	6.117	1.00	55.07	N
ATOM	2114	CA	LEU	L	140	26.923	-7.155	6.247	1.00	54.32	C
ATOM	2116	CB	LEU	L	140	27.699	-5.849	6.110	1.00	53.60	C
ATOM	2119	CG	LEU	L	140	27.248	-4.885	5.018	1.00	52.60	C
ATOM	2121	CD1	LEU	L	140	28.239	-3.728	4.865	1.00	51.63	C
ATOM	2125	CD2	LEU	L	140	27.074	-5.584	3.713	1.00	52.71	C
ATOM	2129	C	LEU	L	140	27.196	-7.772	7.604	1.00	54.65	C
ATOM	2130	O	LEU	L	140	27.284	-7.070	8.606	1.00	55.51	O
ATOM	2132	N	ASN	L	141	27.337	-9.091	7.625	1.00	54.62	N
ATOM	2133	CA	ASN	L	141	27.370	-9.837	8.872	1.00	54.74	C
ATOM	2135	CB	ASN	L	141	26.737	-11.214	8.658	1.00	54.71	C
ATOM	2138	CG	ASN	L	141	26.514	-11.960	9.945	1.00	52.97	C
ATOM	2139	OD1	ASN	L	141	26.712	-13.163	10.008	1.00	51.47	O
ATOM	2140	ND2	ASN	L	141	26.097	-11.250	10.981	1.00	56.80	N
ATOM	2143	C	ASN	L	141	28.787	-9.985	9.428	1.00	55.57	C
ATOM	2144	O	ASN	L	141	29.748	-10.164	8.663	1.00	55.86	O
ATOM	2146	N	ASN	L	142	28.886	-9.877	10.758	1.00	55.10	N
ATOM	2147	CA	ASN	L	142	30.111	-10.118	11.538	1.00	54.03	C
ATOM	2149	CB	ASN	L	142	30.220	-11.612	11.876	1.00	52.77	C
ATOM	2152	CG	ASN	L	142	29.186	-12.063	12.904	1.00	52.49	C
ATOM	2153	OD1	ASN	L	142	28.338	-11.286	13.337	1.00	52.77	O
ATOM	2154	ND2	ASN	L	142	29.263	-13.326	13.305	1.00	53.29	N
ATOM	2157	C	ASN	L	142	31.413	-9.619	10.902	1.00	54.05	C
ATOM	2158	O	ASN	L	142	32.076	-10.367	10.187	1.00	55.04	O

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ATOM	2160	N	PHE	L	143	31.777	-8.363	11.171	1.00	54.33	N
ATOM	2161	CA	PHE	L	143	32.999	-7.774	10.601	1.00	54.32	C
ATOM	2163	CB	PHE	L	143	32.690	-7.096	9.265	1.00	55.46	C
ATOM	2166	CG	PHE	L	143	31.807	-5.882	9.378	1.00	55.14	C
ATOM	2167	CD1	PHE	L	143	32.360	-4.627	9.589	1.00	56.14	C
ATOM	2169	CE1	PHE	L	143	31.555	-3.499	9.684	1.00	56.42	C
ATOM	2171	CZ	PHE	L	143	30.176	-3.616	9.554	1.00	56.54	C
ATOM	2173	CE2	PHE	L	143	29.610	-4.863	9.331	1.00	56.80	C
ATOM	2175	CD2	PHE	L	143	30.425	-5.990	9.243	1.00	56.14	C
ATOM	2177	C	PHE	L	143	33.692	-6.778	11.525	1.00	54.20	C
ATOM	2178	O	PHE	L	143	33.065	-6.204	12.418	1.00	55.01	O
ATOM	2180	N	TYR	L	144	34.989	-6.585	11.295	1.00	53.47	N
ATOM	2181	CA	TYR	L	144	35.779	-5.605	12.028	1.00	53.67	C
ATOM	2183	CB	TYR	L	144	36.611	-6.275	13.125	1.00	53.71	C
ATOM	2186	CG	TYR	L	144	37.268	-5.270	14.034	1.00	53.86	C
ATOM	2187	CD1	TYR	L	144	38.530	-4.755	13.749	1.00	54.17	C
ATOM	2189	CE1	TYR	L	144	39.121	-3.807	14.577	1.00	52.92	C
ATOM	2191	CZ	TYR	L	144	38.438	-3.360	15.694	1.00	53.53	C
ATOM	2192	OH	TYR	L	144	38.990	-2.425	16.533	1.00	54.86	O
ATOM	2194	CE2	TYR	L	144	37.181	-3.848	15.983	1.00	54.32	C
ATOM	2196	CD2	TYR	L	144	36.604	-4.793	15.154	1.00	54.65	C
ATOM	2198	C	TYR	L	144	36.708	-4.890	11.060	1.00	54.69	C
ATOM	2199	O	TYR	L	144	37.288	-5.540	10.188	1.00	54.08	O
ATOM	2201	N	PRO	L	145	36.865	-3.555	11.203	1.00	56.43	N
ATOM	2202	CA	PRO	L	145	36.252	-2.625	12.167	1.00	57.34	C
ATOM	2204	CB	PRO	L	145	37.319	-1.532	12.325	1.00	57.48	C
ATOM	2207	CG	PRO	L	145	38.198	-1.630	11.084	1.00	57.29	C
ATOM	2210	CD	PRO	L	145	37.772	-2.838	10.288	1.00	56.61	C
ATOM	2213	C	PRO	L	145	34.927	-2.047	11.657	1.00	57.75	C
ATOM	2214	O	PRO	L	145	34.408	-2.526	10.647	1.00	57.75	O
ATOM	2215	N	ARG	L	146	34.384	-1.038	12.342	1.00	57.84	N
ATOM	2216	CA	ARG	L	146	33.047	-0.538	12.004	1.00	58.28	C
ATOM	2218	CB	ARG	L	146	32.482	0.417	13.079	1.00	58.97	C
ATOM	2221	CG	ARG	L	146	30.938	0.508	13.054	1.00	59.22	C
ATOM	2224	CD	ARG	L	146	30.342	1.588	13.972	1.00	60.35	C
ATOM	2227	NE	ARG	L	146	30.340	1.200	15.392	1.00	65.96	N
ATOM	2229	CZ	ARG	L	146	29.422	1.566	16.303	1.00	66.50	C
ATOM	2230	NH1	ARG	L	146	28.378	2.333	15.975	1.00	66.24	N
ATOM	2233	NH2	ARG	L	146	29.540	1.151	17.566	1.00	62.60	N
ATOM	2236	C	ARG	L	146	33.001	0.115	10.622	1.00	57.81	C
ATOM	2237	O	ARG	L	146	32.230	-0.321	9.778	1.00	57.22	O
ATOM	2239	N	GLU	L	147	33.828	1.132	10.377	1.00	58.64	N
ATOM	2240	CA	GLU	L	147	33.737	1.912	9.124	1.00	58.71	C
ATOM	2242	CB	GLU	L	147	34.991	2.771	8.901	1.00	59.53	C
ATOM	2245	CG	GLU	L	147	34.971	4.126	9.628	1.00	62.23	C
ATOM	2248	CD	GLU	L	147	35.156	5.322	8.686	1.00	66.41	C
ATOM	2249	OE1	GLU	L	147	35.624	5.143	7.537	1.00	63.81	O
ATOM	2250	OE2	GLU	L	147	34.822	6.453	9.101	1.00	71.32	O
ATOM	2251	C	GLU	L	147	33.495	1.024	7.902	1.00	57.91	C
ATOM	2252	O	GLU	L	147	34.181	0.018	7.724	1.00	57.97	O
ATOM	2254	N	ALA	L	148	32.513	1.388	7.074	1.00	57.47	N
ATOM	2255	CA	ALA	L	148	32.159	0.575	5.895	1.00	57.40	C
ATOM	2257	CB	ALA	L	148	31.487	-0.723	6.326	1.00	57.19	C
ATOM	2261	C	ALA	L	148	31.259	1.308	4.910	1.00	56.76	C
ATOM	2262	O	ALA	L	148	30.408	2.104	5.304	1.00	56.64	O
ATOM	2264	N	LYS	L	149	31.443	1.003	3.628	1.00	56.80	N
ATOM	2265	CA	LYS	L	149	30.663	1.602	2.554	1.00	57.51	C
ATOM	2267	CB	LYS	L	149	31.605	2.128	1.460	1.00	57.49	C
ATOM	2270	CG	LYS	L	149	30.924	2.854	0.280	1.00	56.81	C
ATOM	2273	CD	LYS	L	149	31.212	4.358	0.274	1.00	56.29	C
ATOM	2276	CE	LYS	L	149	30.764	5.022	-1.034	1.00	57.19	C
ATOM	2279	NZ	LYS	L	149	31.501	6.292	-1.339	1.00	53.54	N
ATOM	2283	C	LYS	L	149	29.697	0.563	1.972	1.00	58.12	C

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ATOM	2284	O	LYS	L	149	30.122	-0.479	1.466	1.00	58.40	O
ATOM	2286	N	VAL	L	150	28.401	0.848	2.074	1.00	57.96	N
ATOM	2287	CA	VAL	L	150	27.376	0.114	1.337	1.00	58.18	C
ATOM	2289	CB	VAL	L	150	26.215	-0.328	2.264	1.00	58.19	C
ATOM	2291	CG1	VAL	L	150	24.997	-0.773	1.465	1.00	58.61	C
ATOM	2295	CG2	VAL	L	150	26.671	-1.450	3.162	1.00	57.44	C
ATOM	2299	C	VAL	L	150	26.872	1.031	0.221	1.00	58.47	C
ATOM	2300	O	VAL	L	150	26.562	2.197	0.462	1.00	59.48	O
ATOM	2302	N	GLN	L	151	26.813	0.507	-1.000	1.00	58.94	N
ATOM	2303	CA	GLN	L	151	26.348	1.278	-2.148	1.00	57.56	C
ATOM	2305	CB	GLN	L	151	27.503	1.532	-3.125	1.00	59.31	C
ATOM	2308	CG	GLN	L	151	27.396	2.851	-3.907	1.00	61.39	C
ATOM	2311	CD	GLN	L	151	27.697	4.095	-3.057	1.00	66.79	C
ATOM	2312	OE1	GLN	L	151	27.803	5.202	-3.585	1.00	66.18	O
ATOM	2313	NE2	GLN	L	151	27.835	3.913	-1.740	1.00	68.31	N
ATOM	2316	C	GLN	L	151	25.224	0.532	-2.849	1.00	56.33	C
ATOM	2317	O	GLN	L	151	25.377	-0.639	-3.201	1.00	55.81	O
ATOM	2319	N	TRP	L	152	24.098	1.213	-3.045	1.00	54.22	N
ATOM	2320	CA	TRP	L	152	22.950	0.625	-3.727	1.00	53.68	C
ATOM	2322	CB	TRP	L	152	21.648	1.180	-3.155	1.00	53.40	C
ATOM	2325	CG	TRP	L	152	21.233	0.523	-1.879	1.00	52.23	C
ATOM	2326	CD1	TRP	L	152	21.240	1.076	-0.634	1.00	51.07	C
ATOM	2328	NE1	TRP	L	152	20.794	0.165	0.288	1.00	52.84	N
ATOM	2330	CE2	TRP	L	152	20.489	-1.008	-0.355	1.00	54.44	C
ATOM	2331	CD2	TRP	L	152	20.753	-0.817	-1.725	1.00	50.08	C
ATOM	2332	CE3	TRP	L	152	20.525	-1.877	-2.612	1.00	50.38	C
ATOM	2334	CZ3	TRP	L	152	20.037	-3.079	-2.110	1.00	51.18	C
ATOM	2336	CH2	TRP	L	152	19.778	-3.240	-0.742	1.00	52.04	C
ATOM	2338	CZ2	TRP	L	152	19.995	-2.220	0.153	1.00	54.12	C
ATOM	2340	C	TRP	L	152	22.991	0.875	-5.228	1.00	53.15	C
ATOM	2341	O	TRP	L	152	23.531	1.882	-5.690	1.00	52.79	O
ATOM	2343	N	LYS	L	153	22.404	-0.053	-5.978	1.00	53.15	N
ATOM	2344	CA	LYS	L	153	22.346	0.031	-7.432	1.00	53.18	C
ATOM	2346	CB	LYS	L	153	23.557	-0.673	-8.051	1.00	53.70	C
ATOM	2349	CG	LYS	L	153	24.873	0.100	-7.936	1.00	55.50	C
ATOM	2352	CD	LYS	L	153	26.052	-0.682	-8.519	1.00	55.28	C
ATOM	2355	CE	LYS	L	153	27.224	0.234	-8.863	1.00	56.21	C
ATOM	2358	NZ	LYS	L	153	28.422	-0.504	-9.376	1.00	56.19	N
ATOM	2362	C	LYS	L	153	21.063	-0.615	-7.950	1.00	52.54	C
ATOM	2363	O	LYS	L	153	20.824	-1.806	-7.731	1.00	50.96	O
ATOM	2365	N	VAL	L	154	20.232	0.184	-8.614	1.00	52.66	N
ATOM	2366	CA	VAL	L	154	19.081	-0.328	-9.355	1.00	52.24	C
ATOM	2368	CB	VAL	L	154	17.738	0.298	-8.896	1.00	52.32	C
ATOM	2370	CG1	VAL	L	154	16.572	-0.510	-9.434	1.00	53.43	C
ATOM	2374	CG2	VAL	L	154	17.653	0.382	-7.384	1.00	53.10	C
ATOM	2378	C	VAL	L	154	19.328	0.032	-10.807	1.00	51.53	C
ATOM	2379	O	VAL	L	154	19.328	1.211	-11.154	1.00	51.98	O
ATOM	2381	N	ASP	L	155	19.555	-0.978	-11.646	1.00	51.01	N
ATOM	2382	CA	ASP	L	155	19.963	-0.759	-13.035	1.00	51.37	C
ATOM	2384	CB	ASP	L	155	18.781	-0.282	-13.892	1.00	50.97	C
ATOM	2387	CG	ASP	L	155	17.664	-1.309	-13.992	1.00	50.99	C
ATOM	2388	OD1	ASP	L	155	17.870	-2.481	-13.619	1.00	53.87	O
ATOM	2389	OD2	ASP	L	155	16.568	-0.937	-14.459	1.00	50.60	O
ATOM	2390	C	ASP	L	155	21.113	0.257	-13.111	1.00	51.64	C
ATOM	2391	O	ASP	L	155	20.938	1.362	-13.631	1.00	52.33	O
ATOM	2393	N	ASN	L	156	22.268	-0.114	-12.551	1.00	51.53	N
ATOM	2394	CA	ASN	L	156	23.492	0.712	-12.576	1.00	50.82	C
ATOM	2396	CB	ASN	L	156	24.104	0.732	-13.990	1.00	51.40	C
ATOM	2399	CG	ASN	L	156	24.537	-0.645	-14.472	1.00	52.43	C
ATOM	2400	OD1	ASN	L	156	24.242	-1.661	-13.844	1.00	55.43	O
ATOM	2401	ND2	ASN	L	156	25.240	-0.680	-15.602	1.00	51.24	N
ATOM	2404	C	ASN	L	156	23.320	2.160	-12.092	1.00	50.40	C
ATOM	2405	O	ASN	L	156	24.190	2.999	-12.340	1.00	51.06	O

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ATOM	2407	N	ALA	L	157	22.214	2.451	-11.408	1.00	49.53	N
ATOM	2408	CA	ALA	L	157	21.925	3.804	-10.944	1.00	48.75	C
ATOM	2410	CB	ALA	L	157	20.508	4.206	-11.317	1.00	48.22	C
ATOM	2414	C	ALA	L	157	22.139	3.888	-9.430	1.00	48.32	C
ATOM	2415	O	ALA	L	157	21.503	3.166	-8.657	1.00	47.52	O
ATOM	2417	N	LEU	L	158	23.058	4.759	-9.021	1.00	47.40	N
ATOM	2418	CA	LEU	L	158	23.330	4.994	-7.610	1.00	47.17	C
ATOM	2420	CB	LEU	L	158	24.492	5.986	-7.434	1.00	46.49	C
ATOM	2423	CG	LEU	L	158	24.748	6.565	-6.037	1.00	45.89	C
ATOM	2425	CD1	LEU	L	158	24.997	5.451	-5.035	1.00	46.28	C
ATOM	2429	CD2	LEU	L	158	25.913	7.549	-6.052	1.00	44.85	C
ATOM	2433	C	LEU	L	158	22.077	5.528	-6.935	1.00	47.55	C
ATOM	2434	O	LEU	L	158	21.603	6.618	-7.254	1.00	46.05	O
ATOM	2436	N	GLN	L	159	21.533	4.741	-6.013	1.00	49.28	N
ATOM	2437	CA	GLN	L	159	20.472	5.216	-5.133	1.00	48.82	C
ATOM	2439	CB	GLN	L	159	19.651	4.048	-4.581	1.00	49.37	C
ATOM	2442	CG	GLN	L	159	19.097	3.118	-5.657	1.00	52.12	C
ATOM	2445	CD	GLN	L	159	18.509	3.864	-6.848	1.00	54.32	C
ATOM	2446	OE1	GLN	L	159	18.903	3.636	-7.986	1.00	60.88	O
ATOM	2447	NE2	GLN	L	159	17.572	4.767	-6.585	1.00	57.08	N
ATOM	2450	C	GLN	L	159	21.130	5.993	-4.009	1.00	47.54	C
ATOM	2451	O	GLN	L	159	22.099	5.528	-3.418	1.00	46.19	O
ATOM	2453	N	SER	L	160	20.629	7.192	-3.741	1.00	47.41	N
ATOM	2454	CA	SER	L	160	21.212	8.031	-2.710	1.00	48.52	C
ATOM	2456	CB	SER	L	160	22.254	8.969	-3.322	1.00	48.45	C
ATOM	2459	OG	SER	L	160	23.003	9.634	-2.318	1.00	46.22	O
ATOM	2461	C	SER	L	160	20.130	8.823	-1.983	1.00	49.43	C
ATOM	2462	O	SER	L	160	19.366	9.578	-2.606	1.00	50.03	O
ATOM	2464	N	GLY	L	161	20.076	8.636	-0.663	1.00	49.49	N
ATOM	2465	CA	GLY	L	161	19.109	9.308	0.198	1.00	49.44	C
ATOM	2468	C	GLY	L	161	18.032	8.357	0.668	1.00	49.96	C
ATOM	2469	O	GLY	L	161	17.681	8.346	1.846	1.00	51.28	O
ATOM	2471	N	ASN	L	162	17.525	7.542	-0.255	1.00	50.03	N
ATOM	2472	CA	ASN	L	162	16.399	6.632	0.013	1.00	49.79	C
ATOM	2474	CB	ASN	L	162	15.590	6.382	-1.277	1.00	49.15	C
ATOM	2477	CG	ASN	L	162	16.409	5.740	-2.391	1.00	47.76	C
ATOM	2478	OD1	ASN	L	162	15.871	5.419	-3.452	1.00	48.43	O
ATOM	2479	ND2	ASN	L	162	17.706	5.559	-2.163	1.00	45.16	N
ATOM	2482	C	ASN	L	162	16.752	5.294	0.673	1.00	50.25	C
ATOM	2483	O	ASN	L	162	16.049	4.302	0.466	1.00	51.32	O
ATOM	2485	N	SER	L	163	17.823	5.260	1.465	1.00	49.85	N
ATOM	2486	CA	SER	L	163	18.153	4.063	2.234	1.00	50.83	C
ATOM	2488	CB	SER	L	163	19.187	3.198	1.504	1.00	51.81	C
ATOM	2491	OG	SER	L	163	20.504	3.455	1.971	1.00	52.20	O
ATOM	2493	C	SER	L	163	18.703	4.450	3.587	1.00	51.11	C
ATOM	2494	O	SER	L	163	19.406	5.450	3.697	1.00	52.65	O
ATOM	2496	N	GLN	L	164	18.400	3.650	4.605	1.00	50.62	N
ATOM	2497	CA	GLN	L	164	18.932	3.884	5.944	1.00	51.13	C
ATOM	2499	CB	GLN	L	164	17.890	4.551	6.852	1.00	50.47	C
ATOM	2502	CG	GLN	L	164	16.469	4.025	6.735	1.00	50.21	C
ATOM	2505	CD	GLN	L	164	15.444	4.939	7.416	1.00	50.71	C
ATOM	2506	OE1	GLN	L	164	15.783	5.749	8.291	1.00	45.21	O
ATOM	2507	NE2	GLN	L	164	14.181	4.810	7.010	1.00	48.25	N
ATOM	2510	C	GLN	L	164	19.496	2.608	6.565	1.00	52.13	C
ATOM	2511	O	GLN	L	164	19.087	1.496	6.229	1.00	53.65	O
ATOM	2513	N	GLU	L	165	20.461	2.778	7.459	1.00	52.75	N
ATOM	2514	CA	GLU	L	165	21.192	1.650	7.995	1.00	53.30	C
ATOM	2516	CB	GLU	L	165	22.575	1.550	7.351	1.00	54.18	C
ATOM	2519	CG	GLU	L	165	23.491	2.736	7.593	1.00	55.28	C
ATOM	2522	CD	GLU	L	165	24.625	2.819	6.573	1.00	56.57	C
ATOM	2523	OE1	GLU	L	165	24.447	2.363	5.415	1.00	55.10	O
ATOM	2524	OE2	GLU	L	165	25.694	3.362	6.929	1.00	59.92	O
ATOM	2525	C	GLU	L	165	21.326	1.678	9.501	1.00	52.77	C

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ATOM	2526	O	GLU	L	165	21.321	2.730	10.133	1.00	51.98	O
ATOM	2528	N	SER	L	166	21.449	0.483	10.056	1.00	53.19	N
ATOM	2529	CA	SER	L	166	21.531	0.279	11.483	1.00	54.36	C
ATOM	2531	CB	SER	L	166	20.221	-0.321	12.005	1.00	54.68	C
ATOM	2534	OG	SER	L	166	20.280	-0.576	13.397	1.00	55.03	O
ATOM	2536	C	SER	L	166	22.696	-0.666	11.719	1.00	54.89	C
ATOM	2537	O	SER	L	166	23.051	-1.459	10.836	1.00	54.89	O
ATOM	2539	N	VAL	L	167	23.293	-0.573	12.903	1.00	54.47	N
ATOM	2540	CA	VAL	L	167	24.500	-1.330	13.203	1.00	54.81	C
ATOM	2542	CB	VAL	L	167	25.770	-0.492	12.891	1.00	55.11	C
ATOM	2544	CG1	VAL	L	167	25.720	0.876	13.583	1.00	56.53	C
ATOM	2548	CG2	VAL	L	167	27.037	-1.250	13.266	1.00	56.23	C
ATOM	2552	C	VAL	L	167	24.488	-1.790	14.650	1.00	54.84	C
ATOM	2553	O	VAL	L	167	24.076	-1.044	15.538	1.00	56.13	O
ATOM	2555	N	THR	L	168	24.916	-3.028	14.882	1.00	55.33	N
ATOM	2556	CA	THR	L	168	24.980	-3.565	16.241	1.00	55.31	C
ATOM	2558	CB	THR	L	168	24.971	-5.111	16.273	1.00	55.44	C
ATOM	2560	OG1	THR	L	168	26.006	-5.625	15.424	1.00	55.55	O
ATOM	2562	CG2	THR	L	168	23.618	-5.655	15.831	1.00	55.37	C
ATOM	2566	C	THR	L	168	26.236	-3.078	16.945	1.00	55.40	C
ATOM	2567	O	THR	L	168	27.163	-2.533	16.328	1.00	54.29	O
ATOM	2569	N	GLU	L	169	26.252	-3.266	18.255	1.00	55.10	N
ATOM	2570	CA	GLU	L	169	27.441	-2.977	19.021	1.00	55.62	C
ATOM	2572	CB	GLU	L	169	27.093	-2.753	20.496	1.00	56.82	C
ATOM	2575	CG	GLU	L	169	26.233	-1.508	20.728	1.00	59.20	C
ATOM	2578	CD	GLU	L	169	26.990	-0.208	20.486	1.00	61.22	C
ATOM	2579	OE1	GLU	L	169	27.626	-0.065	19.418	1.00	62.62	O
ATOM	2580	OE2	GLU	L	169	26.944	0.674	21.370	1.00	63.58	O
ATOM	2581	C	GLU	L	169	28.433	-4.112	18.853	1.00	54.99	C
ATOM	2582	O	GLU	L	169	28.114	-5.178	18.308	1.00	54.03	O
ATOM	2584	N	GLN	L	170	29.652	-3.865	19.303	1.00	54.11	N
ATOM	2585	CA	GLN	L	170	30.684	-4.874	19.224	1.00	53.03	C
ATOM	2587	CB	GLN	L	170	31.979	-4.392	19.883	1.00	51.58	C
ATOM	2590	CG	GLN	L	170	33.223	-4.813	19.137	1.00	51.46	C
ATOM	2593	CD	GLN	L	170	34.485	-4.253	19.745	1.00	52.07	C
ATOM	2594	OE1	GLN	L	170	34.439	-3.524	20.742	1.00	49.88	O
ATOM	2595	NE2	GLN	L	170	35.630	-4.590	19.152	1.00	46.95	N
ATOM	2598	C	GLN	L	170	30.144	-6.114	19.919	1.00	52.15	C
ATOM	2599	O	GLN	L	170	29.643	-6.026	21.042	1.00	50.29	O
ATOM	2601	N	ASP	L	171	30.211	-7.255	19.237	1.00	52.42	N
ATOM	2602	CA	ASP	L	171	29.774	-8.507	19.834	1.00	52.53	C
ATOM	2604	CB	ASP	L	171	29.965	-9.676	18.871	1.00	51.89	C
ATOM	2607	CG	ASP	L	171	29.331	-10.959	19.380	1.00	52.53	C
ATOM	2608	OD1	ASP	L	171	30.060	-11.948	19.596	1.00	50.33	O
ATOM	2609	OD2	ASP	L	171	28.102	-10.981	19.581	1.00	55.53	O
ATOM	2610	C	ASP	L	171	30.576	-8.737	21.109	1.00	53.44	C
ATOM	2611	O	ASP	L	171	31.779	-8.472	21.149	1.00	54.47	O
ATOM	2613	N	SER	L	172	29.899	-9.204	22.153	1.00	53.54	N
ATOM	2614	CA	SER	L	172	30.549	-9.528	23.417	1.00	52.97	C
ATOM	2616	CB	SER	L	172	29.492	-9.784	24.489	1.00	52.34	C
ATOM	2619	OG	SER	L	172	28.735	-10.939	24.176	1.00	50.12	O
ATOM	2621	C	SER	L	172	31.463	-10.752	23.307	1.00	53.20	C
ATOM	2622	O	SER	L	172	32.451	-10.846	24.029	1.00	53.94	O
ATOM	2624	N	LYS	L	173	31.130	-11.682	22.410	1.00	54.24	N
ATOM	2625	CA	LYS	L	173	31.874	-12.948	22.269	1.00	54.74	C
ATOM	2627	CB	LYS	L	173	30.917	-14.117	21.952	1.00	54.91	C
ATOM	2630	CG	LYS	L	173	30.235	-14.727	23.197	1.00	56.21	C
ATOM	2633	CD	LYS	L	173	29.281	-15.895	22.862	1.00	56.16	C
ATOM	2636	CE	LYS	L	173	27.807	-15.456	22.793	1.00	56.39	C
ATOM	2639	NZ	LYS	L	173	26.865	-16.573	22.464	1.00	55.49	N
ATOM	2643	C	LYS	L	173	33.019	-12.899	21.240	1.00	55.61	C
ATOM	2644	O	LYS	L	173	34.143	-13.294	21.562	1.00	56.17	O
ATOM	2646	N	ASP	L	174	32.742	-12.427	20.019	1.00	55.43	N

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ATOM	2647	CA	ASP	L	174	33.746	-12.427	18.937	1.00	54.22	C
ATOM	2649	CB	ASP	L	174	33.286	-13.348	17.794	1.00	54.45	C
ATOM	2652	CG	ASP	L	174	32.373	-12.651	16.793	1.00	57.15	C
ATOM	2653	OD1	ASP	L	174	31.531	-11.820	17.198	1.00	59.32	O
ATOM	2654	OD2	ASP	L	174	32.505	-12.944	15.583	1.00	60.82	O
ATOM	2655	C	ASP	L	174	34.146	-11.022	18.416	1.00	53.53	C
ATOM	2656	O	ASP	L	174	34.848	-10.903	17.405	1.00	53.00	O
ATOM	2658	N	SER	L	175	33.695	-9.973	19.108	1.00	53.42	N
ATOM	2659	CA	SER	L	175	34.211	-8.596	18.929	1.00	52.83	C
ATOM	2661	CB	SER	L	175	35.713	-8.567	19.235	1.00	52.50	C
ATOM	2664	OG	SER	L	175	36.013	-9.360	20.373	1.00	51.82	O
ATOM	2666	C	SER	L	175	33.949	-7.948	17.557	1.00	51.62	C
ATOM	2667	O	SER	L	175	34.665	-7.033	17.151	1.00	49.10	O
ATOM	2669	N	THR	L	176	32.901	-8.401	16.880	1.00	51.67	N
ATOM	2670	CA	THR	L	176	32.591	-7.963	15.529	1.00	52.24	C
ATOM	2672	CB	THR	L	176	32.355	-9.170	14.617	1.00	52.18	C
ATOM	2674	OG1	THR	L	176	31.345	-10.007	15.192	1.00	52.78	O
ATOM	2676	CG2	THR	L	176	33.639	-9.974	14.444	1.00	53.91	C
ATOM	2680	C	THR	L	176	31.330	-7.116	15.498	1.00	52.64	C
ATOM	2681	O	THR	L	176	30.546	-7.110	16.451	1.00	52.97	O
ATOM	2683	N	TYR	L	177	31.146	-6.404	14.390	1.00	52.05	N
ATOM	2684	CA	TYR	L	177	29.936	-5.636	14.155	1.00	52.18	C
ATOM	2686	CB	TYR	L	177	30.280	-4.207	13.731	1.00	52.28	C
ATOM	2689	CG	TYR	L	177	31.123	-3.476	14.741	1.00	50.99	C
ATOM	2690	CD1	TYR	L	177	30.535	-2.826	15.813	1.00	53.06	C
ATOM	2692	CE1	TYR	L	177	31.296	-2.161	16.762	1.00	52.96	C
ATOM	2694	CZ	TYR	L	177	32.666	-2.140	16.639	1.00	53.33	C
ATOM	2695	OH	TYR	L	177	33.414	-1.478	17.591	1.00	52.32	O
ATOM	2697	CE2	TYR	L	177	33.282	-2.787	15.575	1.00	52.90	C
ATOM	2699	CD2	TYR	L	177	32.507	-3.452	14.638	1.00	51.48	C
ATOM	2701	C	TYR	L	177	29.129	-6.316	13.069	1.00	52.44	C
ATOM	2702	O	TYR	L	177	29.671	-7.081	12.271	1.00	52.38	O
ATOM	2704	N	SER	L	178	27.832	-6.041	13.050	1.00	52.19	N
ATOM	2705	CA	SER	L	178	26.975	-6.447	11.947	1.00	52.95	C
ATOM	2707	CB	SER	L	178	26.069	-7.599	12.362	1.00	53.30	C
ATOM	2710	OG	SER	L	178	26.832	-8.717	12.776	1.00	52.50	O
ATOM	2712	C	SER	L	178	26.158	-5.242	11.523	1.00	53.54	C
ATOM	2713	O	SER	L	178	25.941	-4.335	12.323	1.00	54.29	O
ATOM	2715	N	LEU	L	179	25.706	-5.234	10.269	1.00	54.64	N
ATOM	2716	CA	LEU	L	179	25.068	-4.045	9.676	1.00	55.24	C
ATOM	2718	CB	LEU	L	179	26.134	-3.110	9.076	1.00	55.63	C
ATOM	2721	CG	LEU	L	179	25.724	-1.776	8.435	1.00	53.31	C
ATOM	2723	CD1	LEU	L	179	26.905	-0.836	8.428	1.00	52.32	C
ATOM	2727	CD2	LEU	L	179	25.209	-1.941	7.020	1.00	52.03	C
ATOM	2731	C	LEU	L	179	24.033	-4.401	8.609	1.00	55.66	C
ATOM	2732	O	LEU	L	179	24.249	-5.293	7.779	1.00	55.17	O
ATOM	2734	N	SER	L	180	22.915	-3.680	8.649	1.00	55.32	N
ATOM	2735	CA	SER	L	180	21.857	-3.796	7.663	1.00	53.86	C
ATOM	2737	CB	SER	L	180	20.564	-4.282	8.317	1.00	53.72	C
ATOM	2740	OG	SER	L	180	20.049	-3.313	9.219	1.00	52.78	O
ATOM	2742	C	SER	L	180	21.623	-2.430	7.038	1.00	53.33	C
ATOM	2743	O	SER	L	180	21.507	-1.435	7.742	1.00	52.83	O
ATOM	2745	N	SER	L	181	21.576	-2.402	5.711	1.00	53.68	N
ATOM	2746	CA	SER	L	181	21.180	-1.231	4.942	1.00	52.42	C
ATOM	2748	CB	SER	L	181	22.240	-0.925	3.877	1.00	52.92	C
ATOM	2751	OG	SER	L	181	21.837	0.122	3.010	1.00	53.65	O
ATOM	2753	C	SER	L	181	19.850	-1.582	4.290	1.00	51.14	C
ATOM	2754	O	SER	L	181	19.709	-2.670	3.726	1.00	49.09	O
ATOM	2756	N	THR	L	182	18.872	-0.680	4.380	1.00	50.15	N
ATOM	2757	CA	THR	L	182	17.566	-0.920	3.762	1.00	50.23	C
ATOM	2759	CB	THR	L	182	16.461	-1.088	4.807	1.00	49.71	C
ATOM	2761	OG1	THR	L	182	16.864	-2.069	5.767	1.00	48.24	O
ATOM	2763	CG2	THR	L	182	15.150	-1.527	4.142	1.00	49.34	C

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ATOM	2767	C	THR	L	182	17.160	0.193	2.811	1.00	48.67	C
ATOM	2768	O	THR	L	182	17.108	1.352	3.197	1.00	44.88	O
ATOM	2770	N	LEU	L	183	16.866	-0.201	1.571	1.00	50.93	N
ATOM	2771	CA	LEU	L	183	16.392	0.696	0.512	1.00	51.96	C
ATOM	2773	CB	LEU	L	183	17.008	0.278	-0.822	1.00	51.13	C
ATOM	2776	CG	LEU	L	183	16.652	1.052	-2.091	1.00	51.40	C
ATOM	2778	CD1	LEU	L	183	17.427	2.356	-2.178	1.00	51.77	C
ATOM	2782	CD2	LEU	L	183	16.941	0.193	-3.303	1.00	51.95	C
ATOM	2786	C	LEU	L	183	14.871	0.624	0.415	1.00	51.99	C
ATOM	2787	O	LEU	L	183	14.291	-0.452	0.518	1.00	50.98	O
ATOM	2789	N	THR	L	184	14.236	1.769	0.192	1.00	54.25	N
ATOM	2790	CA	THR	L	184	12.777	1.873	0.233	1.00	55.46	C
ATOM	2792	CB	THR	L	184	12.338	2.678	1.477	1.00	56.62	C
ATOM	2794	OG1	THR	L	184	13.184	2.343	2.586	1.00	57.44	O
ATOM	2796	CG2	THR	L	184	10.883	2.378	1.843	1.00	56.53	C
ATOM	2800	C	THR	L	184	12.243	2.549	-1.032	1.00	56.07	C
ATOM	2801	O	THR	L	184	12.634	3.675	-1.346	1.00	56.07	O
ATOM	2803	N	LEU	L	185	11.366	1.849	-1.757	1.00	56.92	N
ATOM	2804	CA	LEU	L	185	10.762	2.369	-2.997	1.00	57.75	C
ATOM	2806	CB	LEU	L	185	11.253	1.588	-4.215	1.00	58.07	C
ATOM	2809	CG	LEU	L	185	12.739	1.270	-4.323	1.00	61.99	C
ATOM	2811	CD1	LEU	L	185	12.994	0.556	-5.651	1.00	61.55	C
ATOM	2815	CD2	LEU	L	185	13.605	2.537	-4.182	1.00	65.29	C
ATOM	2819	C	LEU	L	185	9.251	2.245	-2.978	1.00	57.44	C
ATOM	2820	O	LEU	L	185	8.691	1.457	-2.215	1.00	57.24	O
ATOM	2822	N	SER	L	186	8.594	3.005	-3.845	1.00	57.30	N
ATOM	2823	CA	SER	L	186	7.167	2.816	-4.076	1.00	58.49	C
ATOM	2825	CB	SER	L	186	6.544	4.052	-4.740	1.00	58.90	C
ATOM	2828	OG	SER	L	186	7.098	4.296	-6.022	1.00	58.65	O
ATOM	2830	C	SER	L	186	6.958	1.579	-4.951	1.00	58.87	C
ATOM	2831	O	SER	L	186	7.773	1.289	-5.835	1.00	58.94	O
ATOM	2833	N	LYS	L	187	5.871	0.853	-4.690	1.00	58.84	N
ATOM	2834	CA	LYS	L	187	5.470	-0.293	-5.514	1.00	58.71	C
ATOM	2836	CB	LYS	L	187	3.960	-0.565	-5.364	1.00	59.52	C
ATOM	2839	CG	LYS	L	187	3.036	0.684	-5.440	1.00	58.94	C
ATOM	2842	CD	LYS	L	187	1.740	0.409	-6.220	1.00	58.51	C
ATOM	2845	CE	LYS	L	187	1.980	0.425	-7.730	1.00	56.51	C
ATOM	2848	NZ	LYS	L	187	0.818	-0.065	-8.500	1.00	55.30	N
ATOM	2852	C	LYS	L	187	5.813	-0.114	-7.001	1.00	58.68	C
ATOM	2853	O	LYS	L	187	6.413	-0.997	-7.614	1.00	58.00	O
ATOM	2855	N	ALA	L	188	5.445	1.042	-7.557	1.00	58.37	N
ATOM	2856	CA	ALA	L	188	5.601	1.322	-8.983	1.00	57.88	C
ATOM	2858	CB	ALA	L	188	4.815	2.576	-9.366	1.00	57.08	C
ATOM	2862	C	ALA	L	188	7.069	1.486	-9.357	1.00	57.89	C
ATOM	2863	O	ALA	L	188	7.530	0.906	-10.343	1.00	56.89	O
ATOM	2865	N	ASP	L	189	7.797	2.269	-8.560	1.00	58.23	N
ATOM	2866	CA	ASP	L	189	9.216	2.533	-8.816	1.00	57.62	C
ATOM	2868	CB	ASP	L	189	9.774	3.565	-7.822	1.00	57.08	C
ATOM	2871	CG	ASP	L	189	9.154	4.956	-8.001	1.00	59.38	C
ATOM	2872	OD1	ASP	L	189	7.976	5.040	-8.407	1.00	62.30	O
ATOM	2873	OD2	ASP	L	189	9.835	5.970	-7.728	1.00	60.32	O
ATOM	2874	C	ASP	L	189	10.028	1.235	-8.788	1.00	57.16	C
ATOM	2875	O	ASP	L	189	11.018	1.101	-9.516	1.00	56.54	O
ATOM	2877	N	TYR	L	190	9.587	0.278	-7.970	1.00	56.48	N
ATOM	2878	CA	TYR	L	190	10.200	-1.050	-7.921	1.00	56.08	C
ATOM	2880	CB	TYR	L	190	9.757	-1.801	-6.659	1.00	55.94	C
ATOM	2883	CG	TYR	L	190	10.393	-3.170	-6.508	1.00	56.42	C
ATOM	2884	CD1	TYR	L	190	11.645	-3.318	-5.916	1.00	54.49	C
ATOM	2886	CE1	TYR	L	190	12.234	-4.576	-5.780	1.00	54.37	C
ATOM	2888	CZ	TYR	L	190	11.569	-5.703	-6.241	1.00	54.25	C
ATOM	2889	OH	TYR	L	190	12.148	-6.947	-6.113	1.00	53.12	O
ATOM	2891	CE2	TYR	L	190	10.325	-5.581	-6.833	1.00	54.89	C
ATOM	2893	CD2	TYR	L	190	9.743	-4.319	-6.965	1.00	56.09	C

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ATOM	2895	C	TYR	L	190	9.869	-1.879	-9.168	1.00	55.03	C
ATOM	2896	O	TYR	L	190	10.770	-2.327	-9.879	1.00	54.57	O
ATOM	2898	N	GLU	L	191	8.577	-2.074	-9.425	1.00	54.94	N
ATOM	2899	CA	GLU	L	191	8.106	-2.881	-10.562	1.00	54.92	C
ATOM	2901	CB	GLU	L	191	6.616	-2.629	-10.815	1.00	54.51	C
ATOM	2904	CG	GLU	L	191	5.679	-3.328	-9.839	1.00	54.43	C
ATOM	2907	CD	GLU	L	191	4.256	-2.776	-9.894	1.00	55.51	C
ATOM	2908	OE1	GLU	L	191	3.731	-2.563	-11.008	1.00	52.00	O
ATOM	2909	OE2	GLU	L	191	3.659	-2.553	-8.819	1.00	59.15	O
ATOM	2910	C	GLU	L	191	8.882	-2.617	-11.855	1.00	55.01	C
ATOM	2911	O	GLU	L	191	9.134	-3.545	-12.626	1.00	54.87	O
ATOM	2913	N	LYS	L	192	9.250	-1.353	-12.076	1.00	54.95	N
ATOM	2914	CA	LYS	L	192	9.967	-0.920	-13.283	1.00	54.67	C
ATOM	2916	CB	LYS	L	192	10.267	0.584	-13.214	1.00	54.20	C
ATOM	2919	CG	LYS	L	192	9.045	1.485	-13.303	1.00	54.04	C
ATOM	2922	CD	LYS	L	192	9.440	2.936	-13.570	1.00	54.63	C
ATOM	2925	CE	LYS	L	192	8.286	3.894	-13.307	1.00	55.33	C
ATOM	2928	NZ	LYS	L	192	7.975	3.990	-11.849	1.00	57.07	N
ATOM	2932	C	LYS	L	192	11.284	-1.658	-13.550	1.00	54.85	C
ATOM	2933	O	LYS	L	192	11.530	-2.125	-14.669	1.00	54.13	O
ATOM	2935	N	HIS	L	193	12.122	-1.761	-12.524	1.00	54.78	N
ATOM	2936	CA	HIS	L	193	13.516	-2.156	-12.715	1.00	55.43	C
ATOM	2938	CB	HIS	L	193	14.414	-1.237	-11.897	1.00	55.85	C
ATOM	2941	CG	HIS	L	193	14.109	0.216	-12.099	1.00	56.95	C
ATOM	2942	ND1	HIS	L	193	14.181	0.824	-13.335	1.00	55.07	N
ATOM	2944	CE1	HIS	L	193	13.847	2.097	-13.216	1.00	56.78	C
ATOM	2946	NE2	HIS	L	193	13.555	2.335	-11.949	1.00	56.59	N
ATOM	2948	CD2	HIS	L	193	13.705	1.174	-11.230	1.00	55.90	C
ATOM	2950	C	HIS	L	193	13.773	-3.621	-12.386	1.00	55.24	C
ATOM	2951	O	HIS	L	193	12.971	-4.261	-11.711	1.00	55.40	O
ATOM	2953	N	LYS	L	194	14.893	-4.142	-12.883	1.00	55.20	N
ATOM	2954	CA	LYS	L	194	15.186	-5.571	-12.815	1.00	55.83	C
ATOM	2956	CB	LYS	L	194	15.388	-6.135	-14.222	1.00	55.21	C
ATOM	2959	CG	LYS	L	194	15.712	-7.623	-14.244	1.00	54.79	C
ATOM	2962	CD	LYS	L	194	15.212	-8.306	-15.509	1.00	55.94	C
ATOM	2965	CE	LYS	L	194	13.725	-8.643	-15.422	1.00	55.81	C
ATOM	2968	NZ	LYS	L	194	13.258	-9.413	-16.613	1.00	52.91	N
ATOM	2972	C	LYS	L	194	16.403	-5.882	-11.950	1.00	56.71	C
ATOM	2973	O	LYS	L	194	16.323	-6.726	-11.052	1.00	56.77	O
ATOM	2975	N	VAL	L	195	17.527	-5.221	-12.232	1.00	57.29	N
ATOM	2976	CA	VAL	L	195	18.760	-5.426	-11.462	1.00	57.20	C
ATOM	2978	CB	VAL	L	195	20.017	-4.910	-12.214	1.00	56.95	C
ATOM	2980	CG1	VAL	L	195	21.264	-4.968	-11.317	1.00	55.76	C
ATOM	2984	CG2	VAL	L	195	20.242	-5.710	-13.487	1.00	57.16	C
ATOM	2988	C	VAL	L	195	18.666	-4.720	-10.112	1.00	57.79	C
ATOM	2989	O	VAL	L	195	18.367	-3.527	-10.047	1.00	58.39	O
ATOM	2991	N	TYR	L	196	18.912	-5.474	-9.043	1.00	57.72	N
ATOM	2992	CA	TYR	L	196	19.020	-4.922	-7.699	1.00	57.74	C
ATOM	2994	CB	TYR	L	196	17.791	-5.289	-6.865	1.00	57.31	C
ATOM	2997	CG	TYR	L	196	16.614	-4.418	-7.220	1.00	57.57	C
ATOM	2998	CD1	TYR	L	196	15.773	-4.750	-8.277	1.00	58.23	C
ATOM	3000	CE1	TYR	L	196	14.703	-3.934	-8.628	1.00	57.87	C
ATOM	3002	CZ	TYR	L	196	14.478	-2.764	-7.927	1.00	57.41	C
ATOM	3003	OH	TYR	L	196	13.425	-1.951	-8.269	1.00	57.51	O
ATOM	3005	CE2	TYR	L	196	15.310	-2.408	-6.880	1.00	57.56	C
ATOM	3007	CD2	TYR	L	196	16.374	-3.232	-6.537	1.00	56.51	C
ATOM	3009	C	TYR	L	196	20.297	-5.449	-7.075	1.00	58.27	C
ATOM	3010	O	TYR	L	196	20.447	-6.657	-6.909	1.00	58.76	O
ATOM	3012	N	ALA	L	197	21.211	-4.531	-6.748	1.00	58.60	N
ATOM	3013	CA	ALA	L	197	22.565	-4.872	-6.305	1.00	58.40	C
ATOM	3015	CB	ALA	L	197	23.549	-4.628	-7.437	1.00	59.04	C
ATOM	3019	C	ALA	L	197	23.000	-4.082	-5.069	1.00	58.97	C
ATOM	3020	O	ALA	L	197	22.730	-2.881	-4.951	1.00	58.74	O

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ATOM	3022	N	CYS	L	198	23.686	-4.770	-4.159	1.00	58.92	N
ATOM	3023	CA	CYS	L	198	24.255	-4.149	-2.970	1.00	58.33	C
ATOM	3025	CB	CYS	L	198	23.729	-4.828	-1.699	1.00	58.04	C
ATOM	3028	SG	CYS	L	198	24.536	-4.228	-0.198	1.00	60.24	S
ATOM	3030	C	CYS	L	198	25.777	-4.258	-3.035	1.00	58.31	C
ATOM	3031	O	CYS	L	198	26.338	-5.317	-2.755	1.00	59.22	O
ATOM	3033	N	GLU	L	199	26.438	-3.161	-3.401	1.00	57.62	N
ATOM	3034	CA	GLU	L	199	27.897	-3.131	-3.520	1.00	56.85	C
ATOM	3036	CB	GLU	L	199	28.321	-2.162	-4.627	1.00	58.52	C
ATOM	3039	CG	GLU	L	199	29.835	-1.997	-4.819	1.00	58.08	C
ATOM	3042	CD	GLU	L	199	30.172	-1.011	-5.924	1.00	58.08	C
ATOM	3043	OE1	GLU	L	199	29.237	-0.417	-6.507	1.00	57.49	O
ATOM	3044	OE2	GLU	L	199	31.372	-0.830	-6.214	1.00	62.44	O
ATOM	3045	C	GLU	L	199	28.533	-2.731	-2.192	1.00	54.23	C
ATOM	3046	O	GLU	L	199	28.288	-1.643	-1.679	1.00	51.14	O
ATOM	3048	N	VAL	L	200	29.365	-3.619	-1.660	1.00	53.99	N
ATOM	3049	CA	VAL	L	200	29.944	-3.454	-0.334	1.00	54.70	C
ATOM	3051	CB	VAL	L	200	29.566	-4.623	0.588	1.00	54.98	C
ATOM	3053	CG1	VAL	L	200	30.293	-4.515	1.931	1.00	53.68	C
ATOM	3057	CG2	VAL	L	200	28.056	-4.668	0.780	1.00	55.59	C
ATOM	3061	C	VAL	L	200	31.451	-3.394	-0.424	1.00	54.23	C
ATOM	3062	O	VAL	L	200	32.065	-4.194	-1.120	1.00	54.92	O
ATOM	3064	N	THR	L	201	32.035	-2.462	0.320	1.00	53.64	N
ATOM	3065	CA	THR	L	201	33.462	-2.191	0.263	1.00	53.08	C
ATOM	3067	CB	THR	L	201	33.784	-0.993	-0.669	1.00	52.20	C
ATOM	3069	OG1	THR	L	201	34.574	-0.028	0.034	1.00	49.12	O
ATOM	3071	CG2	THR	L	201	32.506	-0.314	-1.187	1.00	51.65	C
ATOM	3075	C	THR	L	201	33.993	-1.946	1.673	1.00	53.49	C
ATOM	3076	O	THR	L	201	33.421	-1.162	2.433	1.00	51.44	O
ATOM	3078	N	HIS	L	202	35.097	-2.620	1.998	1.00	55.44	N
ATOM	3079	CA	HIS	L	202	35.626	-2.679	3.358	1.00	55.07	C
ATOM	3081	CB	HIS	L	202	34.893	-3.782	4.121	1.00	56.07	C
ATOM	3084	CG	HIS	L	202	35.118	-3.758	5.599	1.00	56.86	C
ATOM	3085	ND1	HIS	L	202	35.185	-4.906	6.358	1.00	58.23	N
ATOM	3087	CE1	HIS	L	202	35.384	-4.585	7.623	1.00	63.59	C
ATOM	3089	NE2	HIS	L	202	35.454	-3.269	7.711	1.00	66.38	N
ATOM	3091	CD2	HIS	L	202	35.290	-2.727	6.459	1.00	59.85	C
ATOM	3093	C	HIS	L	202	37.131	-2.958	3.375	1.00	54.78	C
ATOM	3094	O	HIS	L	202	37.687	-3.510	2.427	1.00	54.71	O
ATOM	3096	N	GLN	L	203	37.776	-2.566	4.470	1.00	55.38	N
ATOM	3097	CA	GLN	L	203	39.191	-2.850	4.721	1.00	54.85	C
ATOM	3099	CB	GLN	L	203	39.525	-2.454	6.163	1.00	55.05	C
ATOM	3102	CG	GLN	L	203	41.007	-2.434	6.502	1.00	54.46	C
ATOM	3105	CD	GLN	L	203	41.269	-1.875	7.885	1.00	53.29	C
ATOM	3106	OE1	GLN	L	203	40.338	-1.593	8.637	1.00	57.10	O
ATOM	3107	NE2	GLN	L	203	42.538	-1.711	8.229	1.00	49.23	N
ATOM	3110	C	GLN	L	203	39.564	-4.320	4.493	1.00	54.95	C
ATOM	3111	O	GLN	L	203	40.635	-4.615	3.962	1.00	54.35	O
ATOM	3113	N	GLY	L	204	38.675	-5.230	4.894	1.00	55.44	N
ATOM	3114	CA	GLY	L	204	38.931	-6.673	4.828	1.00	54.77	C
ATOM	3117	C	GLY	L	204	38.742	-7.345	3.477	1.00	54.51	C
ATOM	3118	O	GLY	L	204	39.022	-8.536	3.341	1.00	54.11	O
ATOM	3120	N	LEU	L	205	38.258	-6.595	2.486	1.00	54.73	N
ATOM	3121	CA	LEU	L	205	38.124	-7.087	1.109	1.00	54.23	C
ATOM	3123	CB	LEU	L	205	36.699	-6.850	0.582	1.00	54.64	C
ATOM	3126	CG	LEU	L	205	35.499	-7.332	1.416	1.00	56.74	C
ATOM	3128	CD1	LEU	L	205	34.249	-6.519	1.087	1.00	58.06	C
ATOM	3132	CD2	LEU	L	205	35.234	-8.821	1.220	1.00	55.58	C
ATOM	3136	C	LEU	L	205	39.127	-6.356	0.214	1.00	53.26	C
ATOM	3137	O	LEU	L	205	39.269	-5.137	0.304	1.00	53.34	O
ATOM	3139	N	SER	L	206	39.821	-7.100	-0.641	1.00	52.19	N
ATOM	3140	CA	SER	L	206	40.758	-6.501	-1.598	1.00	51.87	C
ATOM	3142	CB	SER	L	206	41.622	-7.582	-2.254	1.00	51.36	C

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ATOM	3145	OG	SER	L	206	40.855	-8.730	-2.575	1.00	49.90	O
ATOM	3147	C	SER	L	206	40.027	-5.684	-2.666	1.00	51.02	C
ATOM	3148	O	SER	L	206	40.561	-4.696	-3.167	1.00	49.33	O
ATOM	3150	N	SER	L	207	38.811	-6.113	-3.005	1.00	51.49	N
ATOM	3151	CA	SER	L	207	37.929	-5.394	-3.930	1.00	52.61	C
ATOM	3153	CB	SER	L	207	37.900	-6.089	-5.288	1.00	51.42	C
ATOM	3156	OG	SER	L	207	38.982	-6.983	-5.412	1.00	50.93	O
ATOM	3158	C	SER	L	207	36.516	-5.380	-3.354	1.00	54.16	C
ATOM	3159	O	SER	L	207	36.223	-6.133	-2.427	1.00	56.06	O
ATOM	3161	N	PRO	L	208	35.626	-4.538	-3.906	1.00	54.93	N
ATOM	3162	CA	PRO	L	208	34.249	-4.559	-3.416	1.00	54.53	C
ATOM	3164	CB	PRO	L	208	33.649	-3.278	-3.997	1.00	54.14	C
ATOM	3167	CG	PRO	L	208	34.428	-3.025	-5.226	1.00	55.93	C
ATOM	3170	CD	PRO	L	208	35.819	-3.541	-4.973	1.00	55.59	C
ATOM	3173	C	PRO	L	208	33.461	-5.792	-3.876	1.00	55.09	C
ATOM	3174	O	PRO	L	208	33.719	-6.342	-4.951	1.00	54.84	O
ATOM	3175	N	VAL	L	209	32.518	-6.213	-3.037	1.00	56.28	N
ATOM	3176	CA	VAL	L	209	31.626	-7.329	-3.320	1.00	56.34	C
ATOM	3178	CB	VAL	L	209	31.488	-8.255	-2.089	1.00	56.85	C
ATOM	3180	CG1	VAL	L	209	30.517	-9.395	-2.371	1.00	57.34	C
ATOM	3184	CG2	VAL	L	209	32.852	-8.799	-1.670	1.00	57.07	C
ATOM	3188	C	VAL	L	209	30.262	-6.747	-3.662	1.00	56.83	C
ATOM	3189	O	VAL	L	209	29.897	-5.688	-3.151	1.00	56.98	O
ATOM	3191	N	THR	L	210	29.516	-7.438	-4.523	1.00	57.27	N
ATOM	3192	CA	THR	L	210	28.193	-6.979	-4.959	1.00	57.11	C
ATOM	3194	CB	THR	L	210	28.281	-6.236	-6.327	1.00	57.73	C
ATOM	3196	OG1	THR	L	210	29.064	-5.046	-6.175	1.00	59.95	O
ATOM	3198	CG2	THR	L	210	26.896	-5.848	-6.855	1.00	57.29	C
ATOM	3202	C	THR	L	210	27.198	-8.143	-5.051	1.00	56.72	C
ATOM	3203	O	THR	L	210	27.092	-8.797	-6.090	1.00	56.88	O
ATOM	3205	N	LYS	L	211	26.479	-8.398	-3.958	1.00	55.82	N
ATOM	3206	CA	LYS	L	211	25.370	-9.358	-3.978	1.00	55.38	C
ATOM	3208	CB	LYS	L	211	25.107	-9.956	-2.587	1.00	55.13	C
ATOM	3211	CG	LYS	L	211	25.494	-11.445	-2.441	1.00	56.34	C
ATOM	3214	CD	LYS	L	211	27.009	-11.694	-2.368	1.00	57.34	C
ATOM	3217	CE	LYS	L	211	27.667	-11.925	-3.737	1.00	58.85	C
ATOM	3220	NZ	LYS	L	211	27.153	-13.124	-4.467	1.00	59.52	N
ATOM	3224	C	LYS	L	211	24.113	-8.702	-4.563	1.00	54.52	C
ATOM	3225	O	LYS	L	211	23.800	-7.549	-4.264	1.00	52.98	O
ATOM	3227	N	SER	L	212	23.406	-9.451	-5.406	1.00	54.59	N
ATOM	3228	CA	SER	L	212	22.364	-8.887	-6.257	1.00	54.55	C
ATOM	3230	CB	SER	L	212	23.016	-8.276	-7.490	1.00	54.31	C
ATOM	3233	OG	SER	L	212	23.769	-9.253	-8.179	1.00	53.91	O
ATOM	3235	C	SER	L	212	21.351	-9.928	-6.715	1.00	54.64	C
ATOM	3236	O	SER	L	212	21.641	-11.127	-6.717	1.00	54.46	O
ATOM	3238	N	PHE	L	213	20.170	-9.466	-7.122	1.00	54.88	N
ATOM	3239	CA	PHE	L	213	19.120	-10.369	-7.606	1.00	54.74	C
ATOM	3241	CB	PHE	L	213	18.186	-10.776	-6.461	1.00	55.51	C
ATOM	3244	CG	PHE	L	213	17.297	-9.663	-5.958	1.00	56.79	C
ATOM	3245	CD1	PHE	L	213	16.051	-9.438	-6.528	1.00	56.38	C
ATOM	3247	CE1	PHE	L	213	15.221	-8.421	-6.063	1.00	55.82	C
ATOM	3249	CZ	PHE	L	213	15.628	-7.628	-5.008	1.00	55.42	C
ATOM	3251	CE2	PHE	L	213	16.867	-7.849	-4.422	1.00	57.19	C
ATOM	3253	CD2	PHE	L	213	17.693	-8.863	-4.897	1.00	57.95	C
ATOM	3255	C	PHE	L	213	18.303	-9.786	-8.753	1.00	54.51	C
ATOM	3256	O	PHE	L	213	18.350	-8.582	-9.013	1.00	55.25	O
ATOM	3258	N	ASN	L	214	17.562	-10.669	-9.426	1.00	53.54	N
ATOM	3259	CA	ASN	L	214	16.636	-10.307	-10.499	1.00	52.36	C
ATOM	3261	CB	ASN	L	214	17.158	-10.830	-11.848	1.00	53.00	C
ATOM	3264	CG	ASN	L	214	18.501	-10.238	-12.242	1.00	51.37	C
ATOM	3265	OD1	ASN	L	214	18.974	-9.257	-11.659	1.00	45.19	O
ATOM	3266	ND2	ASN	L	214	19.118	-10.833	-13.261	1.00	48.36	N
ATOM	3269	C	ASN	L	214	15.221	-10.853	-10.196	1.00	51.48	C

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ATOM	3270	O	ASN	L	214	14.630	-10.487	-9.184	1.00	51.07	O
ATOM	3272	N	ARG	L	215	14.683	-11.721	-11.058	1.00	51.10	N
ATOM	3273	CA	ARG	L	215	13.342	-12.286	-10.879	1.00	50.13	C
ATOM	3275	CB	ARG	L	215	12.269	-11.313	-11.388	1.00	50.15	C
ATOM	3278	CG	ARG	L	215	11.837	-10.215	-10.400	1.00	48.63	C
ATOM	3281	CD	ARG	L	215	12.491	-8.850	-10.667	1.00	50.31	C
ATOM	3284	NE	ARG	L	215	11.646	-7.745	-10.197	1.00	51.54	N
ATOM	3286	CZ	ARG	L	215	10.960	-6.898	-10.974	1.00	52.47	C
ATOM	3287	NH1	ARG	L	215	11.003	-6.976	-12.306	1.00	48.09	N
ATOM	3290	NH2	ARG	L	215	10.224	-5.946	-10.407	1.00	51.46	N
ATOM	3293	C	ARG	L	215	13.221	-13.618	-11.623	1.00	47.98	C
ATOM	3294	O	ARG	L	215	13.342	-14.686	-11.027	1.00	45.06	O
ATOM	3296	N	GLU	H	2	18.755	-9.742	45.341	1.00	56.61	N
ATOM	3297	CA	GLU	H	2	18.462	-8.275	45.177	1.00	58.49	C
ATOM	3299	CB	GLU	H	2	19.732	-7.423	45.229	1.00	58.68	C
ATOM	3302	CG	GLU	H	2	20.202	-7.083	46.631	1.00	62.61	C
ATOM	3305	CD	GLU	H	2	21.482	-7.799	47.043	1.00	67.23	C
ATOM	3306	OE1	GLU	H	2	21.816	-8.863	46.460	1.00	64.18	O
ATOM	3307	OE2	GLU	H	2	22.153	-7.282	47.967	1.00	70.83	O
ATOM	3308	C	GLU	H	2	17.780	-7.990	43.863	1.00	58.26	C
ATOM	3309	O	GLU	H	2	18.380	-8.172	42.806	1.00	60.92	O
ATOM	3313	N	GLN	H	3	16.547	-7.507	43.933	1.00	56.73	N
ATOM	3314	CA	GLN	H	3	15.727	-7.340	42.747	1.00	56.52	C
ATOM	3316	CB	GLN	H	3	14.787	-8.532	42.573	1.00	57.42	C
ATOM	3319	CG	GLN	H	3	15.473	-9.832	42.190	1.00	61.67	C
ATOM	3322	CD	GLN	H	3	14.760	-10.546	41.052	1.00	67.16	C
ATOM	3323	OE1	GLN	H	3	14.535	-9.964	39.985	1.00	66.35	O
ATOM	3324	NE2	GLN	H	3	14.407	-11.814	41.270	1.00	68.91	N
ATOM	3327	C	GLN	H	3	14.899	-6.081	42.836	1.00	56.35	C
ATOM	3328	O	GLN	H	3	14.308	-5.789	43.881	1.00	58.04	O
ATOM	3330	N	LEU	H	4	14.879	-5.332	41.739	1.00	54.56	N
ATOM	3331	CA	LEU	H	4	13.946	-4.246	41.558	1.00	53.97	C
ATOM	3333	CB	LEU	H	4	14.676	-2.909	41.550	1.00	53.64	C
ATOM	3336	CG	LEU	H	4	15.263	-2.479	42.897	1.00	54.63	C
ATOM	3338	CD1	LEU	H	4	16.194	-1.298	42.717	1.00	56.96	C
ATOM	3342	CD2	LEU	H	4	14.182	-2.121	43.876	1.00	55.34	C
ATOM	3346	C	LEU	H	4	13.241	-4.493	40.237	1.00	53.83	C
ATOM	3347	O	LEU	H	4	13.875	-4.524	39.190	1.00	52.85	O
ATOM	3349	N	VAL	H	5	11.933	-4.713	40.294	1.00	54.49	N
ATOM	3350	CA	VAL	H	5	11.143	-4.951	39.101	1.00	54.69	C
ATOM	3352	CB	VAL	H	5	10.267	-6.208	39.252	1.00	54.27	C
ATOM	3354	CG1	VAL	H	5	9.321	-6.347	38.059	1.00	51.60	C
ATOM	3358	CG2	VAL	H	5	11.137	-7.447	39.403	1.00	52.80	C
ATOM	3362	C	VAL	H	5	10.252	-3.752	38.861	1.00	55.02	C
ATOM	3363	O	VAL	H	5	9.437	-3.422	39.717	1.00	57.50	O
ATOM	3365	N	GLU	H	6	10.398	-3.127	37.695	1.00	54.85	N
ATOM	3366	CA	GLU	H	6	9.617	-1.945	37.318	1.00	55.62	C
ATOM	3368	CB	GLU	H	6	10.446	-1.017	36.429	1.00	56.41	C
ATOM	3371	CG	GLU	H	6	11.417	-0.136	37.185	1.00	58.95	C
ATOM	3374	CD	GLU	H	6	12.278	0.686	36.253	1.00	61.09	C
ATOM	3375	OE1	GLU	H	6	11.732	1.630	35.639	1.00	66.14	O
ATOM	3376	OE2	GLU	H	6	13.488	0.385	36.135	1.00	64.83	O
ATOM	3377	C	GLU	H	6	8.326	-2.289	36.580	1.00	55.06	C
ATOM	3378	O	GLU	H	6	8.244	-3.302	35.875	1.00	53.72	O
ATOM	3380	N	SER	H	7	7.329	-1.420	36.752	1.00	55.54	N
ATOM	3381	CA	SER	H	7	6.017	-1.562	36.125	1.00	55.81	C
ATOM	3383	CB	SER	H	7	5.046	-2.276	37.068	1.00	54.71	C
ATOM	3386	OG	SER	H	7	5.521	-3.561	37.436	1.00	51.44	O
ATOM	3388	C	SER	H	7	5.462	-0.179	35.774	1.00	57.33	C
ATOM	3389	O	SER	H	7	5.658	0.783	36.521	1.00	57.12	O
ATOM	3391	N	GLY	H	8	4.750	-0.105	34.649	1.00	58.14	N
ATOM	3392	CA	GLY	H	8	4.306	1.159	34.062	1.00	57.37	C
ATOM	3395	C	GLY	H	8	5.145	1.481	32.836	1.00	58.01	C

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ATOM	3396	O	GLY	H	8	6.054	0.731	32.475	1.00	58.79	O
ATOM	3398	N	GLY	H	9	4.844	2.604	32.192	1.00	57.77	N
ATOM	3399	CA	GLY	H	9	5.608	3.053	31.028	1.00	56.11	C
ATOM	3402	C	GLY	H	9	4.769	2.983	29.773	1.00	55.34	C
ATOM	3403	O	GLY	H	9	3.687	2.407	29.787	1.00	56.26	O
ATOM	3405	N	GLY	H	10	5.267	3.574	28.690	1.00	54.03	N
ATOM	3406	CA	GLY	H	10	4.579	3.548	27.405	1.00	52.92	C
ATOM	3409	C	GLY	H	10	4.240	4.935	26.908	1.00	52.43	C
ATOM	3410	O	GLY	H	10	4.818	5.928	27.360	1.00	52.36	O
ATOM	3412	N	LEU	H	11	3.289	4.994	25.977	1.00	51.79	N
ATOM	3413	CA	LEU	H	11	2.924	6.236	25.295	1.00	50.93	C
ATOM	3415	CB	LEU	H	11	2.307	5.910	23.925	1.00	51.75	C
ATOM	3418	CG	LEU	H	11	1.987	7.022	22.911	1.00	51.71	C
ATOM	3420	CD1	LEU	H	11	3.132	8.017	22.730	1.00	50.18	C
ATOM	3424	CD2	LEU	H	11	1.605	6.397	21.575	1.00	49.22	C
ATOM	3428	C	LEU	H	11	1.958	7.076	26.126	1.00	49.59	C
ATOM	3429	O	LEU	H	11	1.003	6.558	26.708	1.00	47.51	O
ATOM	3431	N	VAL	H	12	2.231	8.376	26.181	1.00	50.70	N
ATOM	3432	CA	VAL	H	12	1.328	9.354	26.796	1.00	51.32	C
ATOM	3434	CB	VAL	H	12	1.680	9.660	28.253	1.00	51.22	C
ATOM	3436	CG1	VAL	H	12	1.292	8.503	29.149	1.00	56.15	C
ATOM	3440	CG2	VAL	H	12	3.164	9.983	28.401	1.00	54.78	C
ATOM	3444	C	VAL	H	12	1.381	10.660	26.033	1.00	50.66	C
ATOM	3445	O	VAL	H	12	2.434	11.057	25.530	1.00	51.00	O
ATOM	3447	N	LYS	H	13	0.232	11.317	25.945	1.00	50.88	N
ATOM	3448	CA	LYS	H	13	0.142	12.621	25.305	1.00	51.70	C
ATOM	3450	CB	LYS	H	13	-1.325	12.980	25.040	1.00	52.29	C
ATOM	3453	CG	LYS	H	13	-1.902	12.304	23.802	1.00	51.28	C
ATOM	3456	CD	LYS	H	13	-3.423	12.333	23.790	1.00	52.82	C
ATOM	3459	CE	LYS	H	13	-3.984	12.401	22.377	1.00	55.83	C
ATOM	3462	NZ	LYS	H	13	-3.195	11.584	21.423	1.00	57.61	N
ATOM	3466	C	LYS	H	13	0.834	13.687	26.175	1.00	51.36	C
ATOM	3467	O	LYS	H	13	0.913	13.537	27.393	1.00	49.24	O
ATOM	3469	N	PRO	H	14	1.390	14.740	25.545	1.00	51.89	N
ATOM	3470	CA	PRO	H	14	1.950	15.847	26.328	1.00	51.17	C
ATOM	3472	CB	PRO	H	14	2.458	16.817	25.251	1.00	50.70	C
ATOM	3475	CG	PRO	H	14	2.688	15.960	24.054	1.00	50.32	C
ATOM	3478	CD	PRO	H	14	1.586	14.949	24.098	1.00	51.84	C
ATOM	3481	C	PRO	H	14	0.908	16.519	27.219	1.00	49.57	C
ATOM	3482	O	PRO	H	14	-0.220	16.746	26.786	1.00	50.07	O
ATOM	3483	N	GLY	H	15	1.292	16.811	28.457	1.00	49.10	N
ATOM	3484	CA	GLY	H	15	0.380	17.376	29.457	1.00	50.81	C
ATOM	3487	C	GLY	H	15	-0.372	16.329	30.257	1.00	51.04	C
ATOM	3488	O	GLY	H	15	-1.115	16.659	31.190	1.00	50.77	O
ATOM	3490	N	GLY	H	16	-0.173	15.065	29.886	1.00	52.18	N
ATOM	3491	CA	GLY	H	16	-0.841	13.939	30.517	1.00	52.36	C
ATOM	3494	C	GLY	H	16	-0.041	13.363	31.665	1.00	53.40	C
ATOM	3495	O	GLY	H	16	0.891	13.996	32.177	1.00	52.35	O
ATOM	3497	N	SER	H	17	-0.413	12.143	32.049	1.00	55.01	N
ATOM	3498	CA	SER	H	17	0.021	11.542	33.305	1.00	54.42	C
ATOM	3500	CB	SER	H	17	-1.057	11.724	34.379	1.00	54.25	C
ATOM	3503	OG	SER	H	17	-0.966	13.005	34.960	1.00	56.38	O
ATOM	3505	C	SER	H	17	0.291	10.071	33.153	1.00	54.71	C
ATOM	3506	O	SER	H	17	-0.162	9.432	32.206	1.00	55.94	O
ATOM	3508	N	LEU	H	18	1.001	9.535	34.133	1.00	56.53	N
ATOM	3509	CA	LEU	H	18	1.470	8.163	34.108	1.00	55.73	C
ATOM	3511	CB	LEU	H	18	2.472	8.001	32.975	1.00	55.68	C
ATOM	3514	CG	LEU	H	18	3.170	6.673	32.760	1.00	59.03	C
ATOM	3516	CD1	LEU	H	18	2.195	5.476	32.790	1.00	64.04	C
ATOM	3520	CD2	LEU	H	18	3.907	6.751	31.424	1.00	59.16	C
ATOM	3524	C	LEU	H	18	2.148	7.911	35.438	1.00	56.06	C
ATOM	3525	O	LEU	H	18	2.808	8.807	35.988	1.00	55.85	O
ATOM	3527	N	ARG	H	19	1.965	6.715	35.979	1.00	56.64	N

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ATOM	3528	CA	ARG	H	19	2.626	6.344	37.221	1.00	56.43	C
ATOM	3530	CB	ARG	H	19	1.612	6.041	38.319	1.00	56.80	C
ATOM	3533	CG	ARG	H	19	2.217	6.081	39.716	1.00	58.31	C
ATOM	3536	CD	ARG	H	19	1.362	5.365	40.734	1.00	61.31	C
ATOM	3539	NE	ARG	H	19	1.337	3.920	40.503	1.00	67.58	N
ATOM	3541	CZ	ARG	H	19	0.699	3.041	41.276	1.00	70.39	C
ATOM	3542	NH1	ARG	H	19	0.033	3.450	42.356	1.00	69.73	N
ATOM	3545	NH2	ARG	H	19	0.730	1.743	40.971	1.00	69.82	N
ATOM	3548	C	ARG	H	19	3.505	5.130	37.006	1.00	55.52	C
ATOM	3549	O	ARG	H	19	3.079	4.128	36.416	1.00	56.01	O
ATOM	3551	N	LEU	H	20	4.739	5.236	37.481	1.00	54.58	N
ATOM	3552	CA	LEU	H	20	5.632	4.098	37.531	1.00	55.42	C
ATOM	3554	CB	LEU	H	20	7.043	4.463	37.043	1.00	55.00	C
ATOM	3557	CG	LEU	H	20	7.138	5.242	35.725	1.00	55.68	C
ATOM	3559	CD1	LEU	H	20	8.580	5.646	35.434	1.00	58.29	C
ATOM	3563	CD2	LEU	H	20	6.554	4.446	34.561	1.00	55.92	C
ATOM	3567	C	LEU	H	20	5.673	3.616	38.963	1.00	54.49	C
ATOM	3568	O	LEU	H	20	5.455	4.382	39.891	1.00	55.30	O
ATOM	3570	N	SER	H	21	5.936	2.332	39.126	1.00	56.12	N
ATOM	3571	CA	SER	H	21	6.166	1.746	40.428	1.00	56.93	C
ATOM	3573	CB	SER	H	21	4.907	1.045	40.921	1.00	57.53	C
ATOM	3576	OG	SER	H	21	4.584	-0.051	40.081	1.00	60.54	O
ATOM	3578	C	SER	H	21	7.309	0.750	40.288	1.00	58.71	C
ATOM	3579	O	SER	H	21	7.715	0.398	39.169	1.00	59.16	O
ATOM	3581	N	CYS	H	22	7.811	0.285	41.425	1.00	59.31	N
ATOM	3582	CA	CYS	H	22	8.981	-0.567	41.442	1.00	56.83	C
ATOM	3584	CB	CYS	H	22	10.227	0.308	41.431	1.00	59.46	C
ATOM	3587	SG	CYS	H	22	11.797	-0.553	41.533	1.00	65.61	S
ATOM	3589	C	CYS	H	22	8.927	-1.433	42.683	1.00	55.37	C
ATOM	3590	O	CYS	H	22	8.959	-0.926	43.802	1.00	53.14	O
ATOM	3592	N	ALA	H	23	8.798	-2.742	42.473	1.00	55.34	N
ATOM	3593	CA	ALA	H	23	8.735	-3.712	43.563	1.00	53.47	C
ATOM	3595	CB	ALA	H	23	7.811	-4.829	43.212	1.00	53.08	C
ATOM	3599	C	ALA	H	23	10.129	-4.258	43.833	1.00	52.42	C
ATOM	3600	O	ALA	H	23	10.822	-4.679	42.908	1.00	50.73	O
ATOM	3602	N	ALA	H	24	10.518	-4.246	45.108	1.00	52.07	N
ATOM	3603	CA	ALA	H	24	11.829	-4.693	45.552	1.00	51.43	C
ATOM	3605	CB	ALA	H	24	12.466	-3.626	46.466	1.00	51.29	C
ATOM	3609	C	ALA	H	24	11.704	-5.998	46.309	1.00	50.38	C
ATOM	3610	O	ALA	H	24	10.778	-6.162	47.107	1.00	49.98	O
ATOM	3612	N	SER	H	25	12.638	-6.915	46.069	1.00	50.32	N
ATOM	3613	CA	SER	H	25	12.796	-8.098	46.925	1.00	50.66	C
ATOM	3615	CB	SER	H	25	12.191	-9.335	46.269	1.00	50.25	C
ATOM	3618	OG	SER	H	25	13.117	-9.930	45.384	1.00	50.11	O
ATOM	3620	C	SER	H	25	14.274	-8.338	47.167	1.00	50.55	C
ATOM	3621	O	SER	H	25	15.113	-7.773	46.466	1.00	49.47	O
ATOM	3623	N	GLY	H	26	14.588	-9.170	48.160	1.00	50.83	N
ATOM	3624	CA	GLY	H	26	15.965	-9.604	48.400	1.00	50.46	C
ATOM	3627	C	GLY	H	26	16.773	-8.832	49.428	1.00	50.67	C
ATOM	3628	O	GLY	H	26	17.641	-9.409	50.055	1.00	51.46	O
ATOM	3630	N	PHE	H	27	16.509	-7.534	49.598	1.00	52.07	N
ATOM	3631	CA	PHE	H	27	17.244	-6.692	50.565	1.00	50.72	C
ATOM	3633	CB	PHE	H	27	18.154	-5.700	49.825	1.00	50.11	C
ATOM	3636	CG	PHE	H	27	17.418	-4.738	48.957	1.00	50.40	C
ATOM	3637	CD1	PHE	H	27	17.043	-5.092	47.668	1.00	51.35	C
ATOM	3639	CE1	PHE	H	27	16.363	-4.197	46.848	1.00	48.63	C
ATOM	3641	CZ	PHE	H	27	16.050	-2.941	47.321	1.00	50.70	C
ATOM	3643	CE2	PHE	H	27	16.426	-2.568	48.601	1.00	50.42	C
ATOM	3645	CD2	PHE	H	27	17.104	-3.469	49.416	1.00	52.69	C
ATOM	3647	C	PHE	H	27	16.301	-5.966	51.539	1.00	49.97	C
ATOM	3648	O	PHE	H	27	15.099	-6.212	51.537	1.00	48.25	O
ATOM	3650	N	SER	H	28	16.857	-5.095	52.385	1.00	51.01	N
ATOM	3651	CA	SER	H	28	16.082	-4.395	53.417	1.00	50.58	C

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ATOM	3653	CB	SER	H	28	16.892	-4.261	54.708	1.00	51.28	C
ATOM	3656	OG	SER	H	28	16.076	-3.756	55.757	1.00	52.89	O
ATOM	3658	C	SER	H	28	15.612	-3.024	52.943	1.00	49.79	C
ATOM	3659	O	SER	H	28	16.250	-1.986	53.193	1.00	48.90	O
ATOM	3661	N	PHE	H	29	14.472	-3.047	52.266	1.00	49.18	N
ATOM	3662	CA	PHE	H	29	13.891	-1.875	51.626	1.00	50.01	C
ATOM	3664	CB	PHE	H	29	12.496	-2.230	51.131	1.00	48.32	C
ATOM	3667	CG	PHE	H	29	11.828	-1.151	50.327	1.00	48.58	C
ATOM	3668	CD1	PHE	H	29	12.051	-1.046	48.972	1.00	47.02	C
ATOM	3670	CE1	PHE	H	29	11.428	-0.069	48.227	1.00	45.47	C
ATOM	3672	CZ	PHE	H	29	10.555	0.794	48.824	1.00	48.47	C
ATOM	3674	CE2	PHE	H	29	10.304	0.696	50.183	1.00	47.66	C
ATOM	3676	CD2	PHE	H	29	10.938	-0.269	50.924	1.00	47.81	C
ATOM	3678	C	PHE	H	29	13.836	-0.677	52.563	1.00	50.10	C
ATOM	3679	O	PHE	H	29	14.166	0.423	52.168	1.00	49.59	O
ATOM	3681	N	SER	H	30	13.451	-0.905	53.811	1.00	52.28	N
ATOM	3682	CA	SER	H	30	13.308	0.187	54.768	1.00	54.39	C
ATOM	3684	CB	SER	H	30	12.611	-0.285	56.038	1.00	54.51	C
ATOM	3687	OG	SER	H	30	11.244	0.062	55.986	1.00	60.29	O
ATOM	3689	C	SER	H	30	14.622	0.839	55.142	1.00	55.97	C
ATOM	3690	O	SER	H	30	14.633	1.979	55.575	1.00	58.83	O
ATOM	3692	N	ASP	H	31	15.725	0.120	54.986	1.00	57.11	N
ATOM	3693	CA	ASP	H	31	17.050	0.679	55.274	1.00	57.16	C
ATOM	3695	CB	ASP	H	31	17.986	-0.438	55.773	1.00	57.00	C
ATOM	3698	CG	ASP	H	31	17.502	-1.068	57.085	1.00	58.67	C
ATOM	3699	OD1	ASP	H	31	17.234	-0.317	58.043	1.00	63.08	O
ATOM	3700	OD2	ASP	H	31	17.384	-2.310	57.167	1.00	58.40	O
ATOM	3701	C	ASP	H	31	17.672	1.401	54.057	1.00	57.43	C
ATOM	3702	O	ASP	H	31	18.842	1.792	54.101	1.00	55.59	O
ATOM	3704	N	CYS	H	32	16.896	1.594	52.989	1.00	56.14	N
ATOM	3705	CA	CYS	H	32	17.442	2.115	51.750	1.00	57.19	C
ATOM	3707	CB	CYS	H	32	17.338	1.047	50.664	1.00	57.68	C
ATOM	3710	SG	CYS	H	32	18.330	-0.413	51.027	1.00	60.48	S
ATOM	3712	C	CYS	H	32	16.779	3.403	51.269	1.00	57.32	C
ATOM	3713	O	CYS	H	32	15.572	3.595	51.407	1.00	56.26	O
ATOM	3715	N	ARG	H	33	17.592	4.295	50.716	1.00	58.05	N
ATOM	3716	CA	ARG	H	33	17.075	5.390	49.915	1.00	59.05	C
ATOM	3718	CB	ARG	H	33	18.127	6.483	49.699	1.00	60.10	C
ATOM	3721	CG	ARG	H	33	18.419	7.317	50.911	1.00	61.65	C
ATOM	3724	CD	ARG	H	33	19.060	8.657	50.536	1.00	63.60	C
ATOM	3727	NE	ARG	H	33	19.339	9.429	51.748	1.00	66.43	N
ATOM	3729	CZ	ARG	H	33	20.535	9.583	52.312	1.00	66.37	C
ATOM	3730	NH1	ARG	H	33	21.632	9.065	51.772	1.00	71.77	N
ATOM	3733	NH2	ARG	H	33	20.639	10.291	53.426	1.00	68.04	N
ATOM	3736	C	ARG	H	33	16.685	4.807	48.567	1.00	58.44	C
ATOM	3737	O	ARG	H	33	17.428	4.004	48.000	1.00	58.55	O
ATOM	3739	N	MET	H	34	15.521	5.202	48.065	1.00	56.95	N
ATOM	3740	CA	MET	H	34	15.090	4.804	46.745	1.00	56.14	C
ATOM	3742	CB	MET	H	34	13.629	4.351	46.770	1.00	56.70	C
ATOM	3745	CG	MET	H	34	13.337	3.183	47.740	1.00	58.76	C
ATOM	3748	SD	MET	H	34	14.315	1.675	47.451	1.00	58.81	S
ATOM	3749	CE	MET	H	34	13.826	1.233	45.797	1.00	60.09	C
ATOM	3753	C	MET	H	34	15.291	6.000	45.834	1.00	54.94	C
ATOM	3754	O	MET	H	34	15.118	7.140	46.250	1.00	55.91	O
ATOM	3756	N	TYR	H	35	15.700	5.737	44.600	1.00	54.70	N
ATOM	3757	CA	TYR	H	35	15.919	6.792	43.624	1.00	55.83	C
ATOM	3759	CB	TYR	H	35	17.406	6.942	43.276	1.00	56.48	C
ATOM	3762	CG	TYR	H	35	18.380	6.794	44.427	1.00	57.63	C
ATOM	3763	CD1	TYR	H	35	18.827	7.899	45.132	1.00	54.66	C
ATOM	3765	CE1	TYR	H	35	19.727	7.767	46.157	1.00	54.12	C
ATOM	3767	CZ	TYR	H	35	20.198	6.522	46.491	1.00	55.23	C
ATOM	3768	OH	TYR	H	35	21.087	6.378	47.517	1.00	55.85	O
ATOM	3770	CE2	TYR	H	35	19.775	5.413	45.813	1.00	58.29	C

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ATOM	3772	CD2	TYR	H	35	18.881	5.550	44.779	1.00	57.08	C
ATOM	3774	C	TYR	H	35	15.182	6.475	42.338	1.00	55.62	C
ATOM	3775	O	TYR	H	35	14.958	5.304	42.015	1.00	53.71	O
ATOM	3777	N	TRP	H	36	14.811	7.533	41.613	1.00	55.28	N
ATOM	3778	CA	TRP	H	36	14.484	7.414	40.206	1.00	55.09	C
ATOM	3780	CB	TRP	H	36	13.076	7.920	39.909	1.00	55.00	C
ATOM	3783	CG	TRP	H	36	12.005	7.017	40.432	1.00	55.14	C
ATOM	3784	CD1	TRP	H	36	11.352	7.141	41.611	1.00	54.77	C
ATOM	3786	NE1	TRP	H	36	10.437	6.132	41.760	1.00	55.42	N
ATOM	3788	CE2	TRP	H	36	10.487	5.323	40.656	1.00	56.93	C
ATOM	3789	CD2	TRP	H	36	11.469	5.850	39.795	1.00	55.90	C
ATOM	3790	CE3	TRP	H	36	11.718	5.204	38.577	1.00	54.80	C
ATOM	3792	CZ3	TRP	H	36	10.987	4.076	38.263	1.00	53.18	C
ATOM	3794	CH2	TRP	H	36	10.014	3.573	39.141	1.00	55.17	C
ATOM	3796	CZ2	TRP	H	36	9.748	4.181	40.339	1.00	55.56	C
ATOM	3798	C	TRP	H	36	15.518	8.170	39.380	1.00	55.00	C
ATOM	3799	O	TRP	H	36	15.969	9.259	39.753	1.00	56.65	O
ATOM	3801	N	LEU	H	37	15.906	7.559	38.270	1.00	54.61	N
ATOM	3802	CA	LEU	H	37	16.780	8.178	37.280	1.00	54.88	C
ATOM	3804	CB	LEU	H	37	18.220	7.663	37.386	1.00	54.64	C
ATOM	3807	CG	LEU	H	37	18.783	7.212	38.736	1.00	54.68	C
ATOM	3809	CD1	LEU	H	37	20.234	7.604	38.853	1.00	53.68	C
ATOM	3813	CD2	LEU	H	37	18.635	5.705	38.917	1.00	55.23	C
ATOM	3817	C	LEU	H	37	16.219	7.864	35.886	1.00	54.80	C
ATOM	3818	O	LEU	H	37	15.391	6.948	35.728	1.00	53.49	O
ATOM	3820	N	ARG	H	38	16.667	8.631	34.889	1.00	53.19	N
ATOM	3821	CA	ARG	H	38	16.189	8.473	33.524	1.00	53.67	C
ATOM	3823	CB	ARG	H	38	15.041	9.436	33.227	1.00	54.81	C
ATOM	3826	CG	ARG	H	38	15.461	10.895	33.059	1.00	55.37	C
ATOM	3829	CD	ARG	H	38	14.294	11.769	32.632	1.00	52.74	C
ATOM	3832	NE	ARG	H	38	14.603	13.177	32.842	1.00	53.44	N
ATOM	3834	CZ	ARG	H	38	13.768	14.174	32.571	1.00	51.46	C
ATOM	3835	NH1	ARG	H	38	12.556	13.927	32.099	1.00	54.21	N
ATOM	3838	NH2	ARG	H	38	14.146	15.428	32.794	1.00	47.99	N
ATOM	3841	C	ARG	H	38	17.297	8.679	32.510	1.00	53.96	C
ATOM	3842	O	ARG	H	38	18.345	9.266	32.812	1.00	53.44	O
ATOM	3844	N	GLN	H	39	17.026	8.203	31.299	1.00	53.60	N
ATOM	3845	CA	GLN	H	39	17.998	8.180	30.212	1.00	53.28	C
ATOM	3847	CB	GLN	H	39	18.878	6.932	30.337	1.00	52.42	C
ATOM	3850	CG	GLN	H	39	19.753	6.609	29.129	1.00	51.84	C
ATOM	3853	CD	GLN	H	39	20.733	5.489	29.426	1.00	50.24	C
ATOM	3854	OE1	GLN	H	39	20.371	4.476	30.024	1.00	48.74	O
ATOM	3855	NE2	GLN	H	39	21.983	5.677	29.033	1.00	36.18	N
ATOM	3858	C	GLN	H	39	17.249	8.207	28.877	1.00	53.61	C
ATOM	3859	O	GLN	H	39	16.462	7.304	28.571	1.00	53.97	O
ATOM	3861	N	ALA	H	40	17.488	9.259	28.100	1.00	53.97	N
ATOM	3862	CA	ALA	H	40	16.848	9.433	26.796	1.00	54.45	C
ATOM	3864	CB	ALA	H	40	16.897	10.908	26.385	1.00	54.42	C
ATOM	3868	C	ALA	H	40	17.510	8.543	25.726	1.00	54.55	C
ATOM	3869	O	ALA	H	40	18.671	8.140	25.882	1.00	54.41	O
ATOM	3871	N	PRO	H	41	16.774	8.225	24.639	1.00	53.53	N
ATOM	3872	CA	PRO	H	41	17.395	7.361	23.643	1.00	53.62	C
ATOM	3874	CB	PRO	H	41	16.354	7.291	22.515	1.00	52.51	C
ATOM	3877	CG	PRO	H	41	15.076	7.676	23.139	1.00	54.06	C
ATOM	3880	CD	PRO	H	41	15.412	8.627	24.249	1.00	53.29	C
ATOM	3883	C	PRO	H	41	18.684	8.015	23.168	1.00	53.95	C
ATOM	3884	O	PRO	H	41	18.679	9.210	22.857	1.00	54.39	O
ATOM	3885	N	GLY	H	42	19.781	7.260	23.180	1.00	52.90	N
ATOM	3886	CA	GLY	H	42	21.064	7.759	22.713	1.00	52.60	C
ATOM	3889	C	GLY	H	42	21.788	8.724	23.638	1.00	53.38	C
ATOM	3890	O	GLY	H	42	22.838	9.236	23.270	1.00	56.12	O
ATOM	3892	N	LYS	H	43	21.267	8.960	24.839	1.00	53.22	N
ATOM	3893	CA	LYS	H	43	21.878	9.921	25.771	1.00	53.86	C

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ATOM	3895	CB	LYS	H	43	20.853	11.003	26.128	1.00	55.45	C
ATOM	3898	CG	LYS	H	43	21.004	12.300	25.356	1.00	57.82	C
ATOM	3901	CD	LYS	H	43	21.144	12.083	23.846	1.00	61.25	C
ATOM	3904	CE	LYS	H	43	21.021	13.402	23.092	1.00	62.25	C
ATOM	3907	NZ	LYS	H	43	19.853	14.216	23.574	1.00	64.79	N
ATOM	3911	C	LYS	H	43	22.460	9.274	27.047	1.00	53.34	C
ATOM	3912	O	LYS	H	43	22.428	8.052	27.201	1.00	54.25	O
ATOM	3914	N	GLY	H	44	23.008	10.102	27.938	1.00	50.96	N
ATOM	3915	CA	GLY	H	44	23.567	9.640	29.201	1.00	52.62	C
ATOM	3918	C	GLY	H	44	22.519	9.464	30.286	1.00	53.64	C
ATOM	3919	O	GLY	H	44	21.330	9.362	30.003	1.00	55.33	O
ATOM	3921	N	LEU	H	45	22.966	9.440	31.539	1.00	55.02	N
ATOM	3922	CA	LEU	H	45	22.087	9.189	32.691	1.00	55.09	C
ATOM	3924	CB	LEU	H	45	22.784	8.240	33.690	1.00	55.16	C
ATOM	3927	CG	LEU	H	45	22.784	6.710	33.461	1.00	54.66	C
ATOM	3929	CD1	LEU	H	45	22.710	6.332	32.014	1.00	58.85	C
ATOM	3933	CD2	LEU	H	45	24.002	6.033	34.107	1.00	55.72	C
ATOM	3937	C	LEU	H	45	21.720	10.511	33.381	1.00	55.25	C
ATOM	3938	O	LEU	H	45	22.527	11.438	33.428	1.00	54.95	O
ATOM	3940	N	GLU	H	46	20.504	10.592	33.914	1.00	55.05	N
ATOM	3941	CA	GLU	H	46	20.095	11.745	34.717	1.00	55.03	C
ATOM	3943	CB	GLU	H	46	19.177	12.655	33.903	1.00	54.16	C
ATOM	3946	CG	GLU	H	46	18.809	13.958	34.619	1.00	56.93	C
ATOM	3949	CD	GLU	H	46	17.682	14.733	33.958	1.00	57.58	C
ATOM	3950	OE1	GLU	H	46	17.159	14.286	32.914	1.00	60.12	O
ATOM	3951	OE2	GLU	H	46	17.322	15.798	34.499	1.00	58.36	O
ATOM	3952	C	GLU	H	46	19.382	11.317	36.008	1.00	55.43	C
ATOM	3953	O	GLU	H	46	18.308	10.716	35.958	1.00	57.18	O
ATOM	3955	N	TRP	H	47	19.963	11.630	37.161	1.00	53.89	N
ATOM	3956	CA	TRP	H	47	19.242	11.444	38.424	1.00	53.72	C
ATOM	3958	CB	TRP	H	47	20.182	11.565	39.635	1.00	52.58	C
ATOM	3961	CG	TRP	H	47	19.435	11.666	40.879	1.00	50.71	C
ATOM	3962	CD1	TRP	H	47	18.956	10.642	41.637	1.00	50.80	C
ATOM	3964	NE1	TRP	H	47	18.274	11.135	42.718	1.00	48.04	N
ATOM	3966	CE2	TRP	H	47	18.285	12.503	42.656	1.00	51.75	C
ATOM	3967	CD2	TRP	H	47	19.009	12.867	41.507	1.00	53.78	C
ATOM	3968	CE3	TRP	H	47	19.177	14.224	41.216	1.00	52.61	C
ATOM	3970	CZ3	TRP	H	47	18.617	15.154	42.062	1.00	51.30	C
ATOM	3972	CH2	TRP	H	47	17.886	14.762	43.184	1.00	50.32	C
ATOM	3974	CZ2	TRP	H	47	17.714	13.445	43.500	1.00	53.66	C
ATOM	3976	C	TRP	H	47	18.119	12.486	38.512	1.00	53.45	C
ATOM	3977	O	TRP	H	47	18.337	13.670	38.220	1.00	54.17	O
ATOM	3979	N	ILE	H	48	16.924	12.056	38.906	1.00	53.21	N
ATOM	3980	CA	ILE	H	48	15.785	12.981	38.988	1.00	53.31	C
ATOM	3982	CB	ILE	H	48	14.741	12.734	37.881	1.00	51.93	C
ATOM	3984	CG1	ILE	H	48	14.315	11.266	37.851	1.00	51.93	C
ATOM	3987	CD1	ILE	H	48	13.205	10.986	36.853	1.00	54.53	C
ATOM	3991	CG2	ILE	H	48	15.290	13.171	36.542	1.00	53.73	C
ATOM	3995	C	ILE	H	48	15.028	12.975	40.297	1.00	53.62	C
ATOM	3996	O	ILE	H	48	14.338	13.948	40.607	1.00	53.55	O
ATOM	3998	N	GLY	H	49	15.116	11.883	41.049	1.00	54.16	N
ATOM	3999	CA	GLY	H	49	14.315	11.749	42.262	1.00	53.84	C
ATOM	4002	C	GLY	H	49	14.977	10.899	43.324	1.00	54.20	C
ATOM	4003	O	GLY	H	49	15.670	9.919	43.022	1.00	55.43	O
ATOM	4005	N	VAL	H	50	14.750	11.289	44.572	1.00	53.42	N
ATOM	4006	CA	VAL	H	50	15.205	10.542	45.721	1.00	54.34	C
ATOM	4008	CB	VAL	H	50	16.579	11.083	46.218	1.00	54.61	C
ATOM	4010	CG1	VAL	H	50	16.465	12.522	46.717	1.00	53.17	C
ATOM	4014	CG2	VAL	H	50	17.151	10.175	47.300	1.00	54.06	C
ATOM	4018	C	VAL	H	50	14.150	10.628	46.840	1.00	55.50	C
ATOM	4019	O	VAL	H	50	13.432	11.635	46.945	1.00	54.71	O
ATOM	4021	N	ILE	H	51	14.067	9.567	47.653	1.00	54.88	N
ATOM	4022	CA	ILE	H	51	13.206	9.525	48.850	1.00	53.35	C

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ATOM	4024	CB	ILE	H	51	11.815	8.922	48.542	1.00	52.77	C
ATOM	4026	CG1	ILE	H	51	10.865	9.075	49.736	1.00	53.45	C
ATOM	4029	CD1	ILE	H	51	9.419	8.785	49.378	1.00	51.87	C
ATOM	4033	CG2	ILE	H	51	11.925	7.456	48.142	1.00	54.42	C
ATOM	4037	C	ILE	H	51	13.919	8.724	49.943	1.00	53.48	C
ATOM	4038	O	ILE	H	51	14.509	7.685	49.667	1.00	53.93	O
ATOM	4040	N	SER	H	52	13.868	9.222	51.177	1.00	53.39	N
ATOM	4041	CA	SER	H	52	14.720	8.725	52.261	1.00	52.60	C
ATOM	4043	CB	SER	H	52	15.337	9.910	53.029	1.00	52.57	C
ATOM	4046	OG	SER	H	52	16.207	9.490	54.078	1.00	50.59	O
ATOM	4048	C	SER	H	52	13.969	7.823	53.227	1.00	52.36	C
ATOM	4049	O	SER	H	52	12.773	7.610	53.102	1.00	54.55	O
ATOM	4051	N	VAL	H	53	14.695	7.310	54.207	1.00	52.51	N
ATOM	4052	CA	VAL	H	53	14.135	6.431	55.223	1.00	52.84	C
ATOM	4054	CB	VAL	H	53	15.272	5.667	55.964	1.00	53.27	C
ATOM	4056	CG1	VAL	H	53	16.249	6.620	56.672	1.00	54.13	C
ATOM	4060	CG2	VAL	H	53	16.036	4.814	54.990	1.00	52.80	C
ATOM	4064	C	VAL	H	53	13.217	7.158	56.230	1.00	53.50	C
ATOM	4065	O	VAL	H	53	13.110	8.397	56.241	1.00	52.19	O
ATOM	4067	N	LYS	H	54	12.545	6.361	57.060	1.00	54.84	N
ATOM	4068	CA	LYS	H	54	11.631	6.861	58.088	1.00	54.42	C
ATOM	4070	CB	LYS	H	54	11.018	5.685	58.846	1.00	54.08	C
ATOM	4073	CG	LYS	H	54	9.967	6.062	59.887	1.00	56.89	C
ATOM	4076	CD	LYS	H	54	10.081	5.197	61.154	1.00	57.07	C
ATOM	4079	CE	LYS	H	54	8.962	5.500	62.151	1.00	57.48	C
ATOM	4082	NZ	LYS	H	54	8.849	4.444	63.192	1.00	58.62	N
ATOM	4086	C	LYS	H	54	12.335	7.797	59.076	1.00	53.83	C
ATOM	4087	O	LYS	H	54	11.767	8.800	59.494	1.00	52.64	O
ATOM	4089	N	SER	H	55	13.573	7.485	59.444	1.00	55.82	N
ATOM	4090	CA	SER	H	55	14.296	8.314	60.414	1.00	56.55	C
ATOM	4092	CB	SER	H	55	15.515	7.574	61.001	1.00	56.38	C
ATOM	4095	OG	SER	H	55	16.585	7.446	60.077	1.00	60.01	O
ATOM	4097	C	SER	H	55	14.674	9.690	59.839	1.00	56.53	C
ATOM	4098	O	SER	H	55	15.064	10.577	60.584	1.00	58.47	O
ATOM	4100	N	GLU	H	56	14.546	9.870	58.527	1.00	57.07	N
ATOM	4101	CA	GLU	H	56	14.610	11.209	57.913	1.00	58.15	C
ATOM	4103	CB	GLU	H	56	15.557	11.211	56.708	1.00	57.35	C
ATOM	4106	CG	GLU	H	56	17.022	11.218	57.083	1.00	58.37	C
ATOM	4109	CD	GLU	H	56	17.899	11.848	56.006	1.00	62.26	C
ATOM	4110	OE1	GLU	H	56	17.802	11.443	54.820	1.00	58.50	O
ATOM	4111	OE2	GLU	H	56	18.690	12.754	56.358	1.00	71.61	O
ATOM	4112	C	GLU	H	56	13.210	11.716	57.502	1.00	57.12	C
ATOM	4113	O	GLU	H	56	13.074	12.711	56.781	1.00	53.66	O
ATOM	4115	N	ASN	H	57	12.188	11.026	58.001	1.00	57.56	N
ATOM	4116	CA	ASN	H	57	10.781	11.347	57.756	1.00	57.52	C
ATOM	4118	CB	ASN	H	57	10.403	12.689	58.390	1.00	56.72	C
ATOM	4121	CG	ASN	H	57	10.492	12.653	59.895	1.00	55.01	C
ATOM	4122	OD1	ASN	H	57	9.794	11.894	60.551	1.00	56.76	O
ATOM	4123	ND2	ASN	H	57	11.366	13.457	60.444	1.00	51.60	N
ATOM	4126	C	ASN	H	57	10.425	11.308	56.284	1.00	58.12	C
ATOM	4127	O	ASN	H	57	9.737	12.204	55.773	1.00	59.67	O
ATOM	4129	N	TYR	H	58	10.906	10.273	55.600	1.00	56.23	N
ATOM	4130	CA	TYR	H	58	10.567	10.075	54.199	1.00	55.76	C
ATOM	4132	CB	TYR	H	58	9.114	9.597	54.095	1.00	56.09	C
ATOM	4135	CG	TYR	H	58	8.885	8.332	54.868	1.00	55.13	C
ATOM	4136	CD1	TYR	H	58	9.609	7.189	54.566	1.00	57.73	C
ATOM	4138	CE1	TYR	H	58	9.433	6.020	55.271	1.00	61.32	C
ATOM	4140	CZ	TYR	H	58	8.519	5.977	56.302	1.00	60.40	C
ATOM	4141	OH	TYR	H	58	8.358	4.795	56.987	1.00	57.92	O
ATOM	4143	CE2	TYR	H	58	7.784	7.103	56.627	1.00	56.82	C
ATOM	4145	CD2	TYR	H	58	7.975	8.274	55.908	1.00	55.38	C
ATOM	4147	C	TYR	H	58	10.791	11.338	53.371	1.00	54.33	C
ATOM	4148	O	TYR	H	58	10.063	11.604	52.420	1.00	55.27	O

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ATOM	4150	N	GLY	H	59	11.814	12.103	53.739	1.00	53.44	N
ATOM	4151	CA	GLY	H	59	12.173	13.319	53.032	1.00	53.86	C
ATOM	4154	C	GLY	H	59	12.521	13.029	51.583	1.00	53.68	C
ATOM	4155	O	GLY	H	59	13.165	12.020	51.282	1.00	52.58	O
ATOM	4157	N	ALA	H	60	12.080	13.913	50.689	1.00	52.83	N
ATOM	4158	CA	ALA	H	60	12.232	13.701	49.262	1.00	52.99	C
ATOM	4160	CB	ALA	H	60	10.890	13.456	48.633	1.00	53.67	C
ATOM	4164	C	ALA	H	60	12.882	14.898	48.633	1.00	51.87	C
ATOM	4165	O	ALA	H	60	12.797	15.989	49.191	1.00	52.10	O
ATOM	4167	N	ASN	H	61	13.540	14.678	47.486	1.00	52.93	N
ATOM	4168	CA	ASN	H	61	14.198	15.752	46.711	1.00	53.25	C
ATOM	4170	CB	ASN	H	61	15.607	16.027	47.251	1.00	51.65	C
ATOM	4173	CG	ASN	H	61	15.936	17.513	47.317	1.00	55.58	C
ATOM	4174	OD1	ASN	H	61	16.572	17.976	48.270	1.00	58.39	O
ATOM	4175	ND2	ASN	H	61	15.503	18.268	46.311	1.00	50.08	N
ATOM	4178	C	ASN	H	61	14.250	15.418	45.208	1.00	54.37	C
ATOM	4179	O	ASN	H	61	14.214	14.254	44.822	1.00	56.21	O
ATOM	4181	N	TYR	H	62	14.321	16.448	44.366	1.00	54.90	N
ATOM	4182	CA	TYR	H	62	14.248	16.282	42.912	1.00	53.39	C
ATOM	4184	CB	TYR	H	62	12.856	16.731	42.457	1.00	51.38	C
ATOM	4187	CG	TYR	H	62	11.762	15.994	43.186	1.00	51.30	C
ATOM	4188	CD1	TYR	H	62	11.241	16.483	44.385	1.00	45.49	C
ATOM	4190	CE1	TYR	H	62	10.251	15.788	45.064	1.00	47.65	C
ATOM	4192	CZ	TYR	H	62	9.781	14.581	44.548	1.00	49.19	C
ATOM	4193	OH	TYR	H	62	8.807	13.882	45.202	1.00	48.16	O
ATOM	4195	CE2	TYR	H	62	10.285	14.078	43.371	1.00	49.98	C
ATOM	4197	CD2	TYR	H	62	11.278	14.777	42.701	1.00	51.03	C
ATOM	4199	C	TYR	H	62	15.316	17.054	42.118	1.00	53.24	C
ATOM	4200	O	TYR	H	62	15.916	18.008	42.612	1.00	52.50	O
ATOM	4202	N	ALA	H	63	15.541	16.627	40.879	1.00	53.98	N
ATOM	4203	CA	ALA	H	63	16.221	17.462	39.884	1.00	55.25	C
ATOM	4205	CB	ALA	H	63	16.659	16.617	38.708	1.00	54.70	C
ATOM	4209	C	ALA	H	63	15.286	18.602	39.407	1.00	56.77	C
ATOM	4210	O	ALA	H	63	14.079	18.406	39.239	1.00	56.91	O
ATOM	4212	N	GLU	H	64	15.836	19.789	39.168	1.00	56.51	N
ATOM	4213	CA	GLU	H	64	14.994	20.932	38.802	1.00	56.86	C
ATOM	4215	CB	GLU	H	64	15.802	22.237	38.752	1.00	57.10	C
ATOM	4218	CG	GLU	H	64	16.589	22.572	40.018	1.00	56.07	C
ATOM	4221	CD	GLU	H	64	15.771	22.446	41.281	1.00	54.00	C
ATOM	4222	OE1	GLU	H	64	16.361	22.118	42.329	1.00	53.38	O
ATOM	4223	OE2	GLU	H	64	14.546	22.667	41.223	1.00	52.25	O
ATOM	4224	C	GLU	H	64	14.249	20.764	37.477	1.00	56.81	C
ATOM	4225	O	GLU	H	64	13.353	21.540	37.183	1.00	59.92	O
ATOM	4227	N	SER	H	65	14.623	19.780	36.672	1.00	55.43	N
ATOM	4228	CA	SER	H	65	13.892	19.501	35.445	1.00	55.11	C
ATOM	4230	CB	SER	H	65	14.669	18.527	34.574	1.00	54.51	C
ATOM	4233	OG	SER	H	65	14.942	17.329	35.277	1.00	56.31	O
ATOM	4235	C	SER	H	65	12.517	18.913	35.713	1.00	56.54	C
ATOM	4236	O	SER	H	65	11.627	19.048	34.878	1.00	60.25	O
ATOM	4238	N	VAL	H	66	12.352	18.268	36.870	1.00	55.56	N
ATOM	4239	CA	VAL	H	66	11.148	17.498	37.186	1.00	53.62	C
ATOM	4241	CB	VAL	H	66	11.497	16.020	37.346	1.00	53.48	C
ATOM	4243	CG1	VAL	H	66	12.080	15.482	36.067	1.00	56.93	C
ATOM	4247	CG2	VAL	H	66	12.467	15.813	38.485	1.00	54.82	C
ATOM	4251	C	VAL	H	66	10.353	17.949	38.433	1.00	53.53	C
ATOM	4252	O	VAL	H	66	9.247	17.447	38.676	1.00	52.87	O
ATOM	4254	N	ARG	H	67	10.888	18.893	39.207	1.00	52.02	N
ATOM	4255	CA	ARG	H	67	10.225	19.323	40.428	1.00	51.19	C
ATOM	4257	CB	ARG	H	67	11.082	20.301	41.212	1.00	49.41	C
ATOM	4260	CG	ARG	H	67	10.703	20.369	42.673	1.00	49.96	C
ATOM	4263	CD	ARG	H	67	11.358	21.550	43.380	1.00	54.84	C
ATOM	4266	NE	ARG	H	67	12.801	21.393	43.493	1.00	56.17	N
ATOM	4268	CZ	ARG	H	67	13.408	20.610	44.377	1.00	59.32	C

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ATOM	4269	NH1	ARG	H	67	14.730	20.534	44.359	1.00	64.31	N
ATOM	4272	NH2	ARG	H	67	12.716	19.912	45.274	1.00	55.70	N
ATOM	4275	C	ARG	H	67	8.891	19.969	40.122	1.00	51.27	C
ATOM	4276	O	ARG	H	67	8.801	20.857	39.268	1.00	52.23	O
ATOM	4278	N	GLY	H	68	7.862	19.510	40.832	1.00	52.42	N
ATOM	4279	CA	GLY	H	68	6.503	20.039	40.711	1.00	52.66	C
ATOM	4282	C	GLY	H	68	5.699	19.349	39.622	1.00	53.68	C
ATOM	4283	O	GLY	H	68	4.521	19.673	39.409	1.00	55.43	O
ATOM	4285	N	ARG	H	69	6.346	18.419	38.919	1.00	52.71	N
ATOM	4286	CA	ARG	H	69	5.698	17.625	37.881	1.00	53.37	C
ATOM	4288	CB	ARG	H	69	6.392	17.866	36.547	1.00	53.70	C
ATOM	4291	CG	ARG	H	69	6.292	19.303	36.063	1.00	51.13	C
ATOM	4294	CD	ARG	H	69	7.483	19.685	35.184	1.00	53.14	C
ATOM	4297	NE	ARG	H	69	7.428	19.013	33.886	1.00	56.05	N
ATOM	4299	CZ	ARG	H	69	8.304	18.120	33.425	1.00	53.79	C
ATOM	4300	NH1	ARG	H	69	9.377	17.763	34.117	1.00	50.39	N
ATOM	4303	NH2	ARG	H	69	8.110	17.588	32.232	1.00	51.24	N
ATOM	4306	C	ARG	H	69	5.752	16.146	38.221	1.00	53.87	C
ATOM	4307	O	ARG	H	69	4.798	15.407	37.991	1.00	55.13	O
ATOM	4309	N	PHE	H	70	6.893	15.720	38.748	1.00	54.83	N
ATOM	4310	CA	PHE	H	70	7.119	14.337	39.137	1.00	54.86	C
ATOM	4312	CB	PHE	H	70	8.495	13.875	38.625	1.00	53.83	C
ATOM	4315	CG	PHE	H	70	8.574	13.666	37.117	1.00	53.73	C
ATOM	4316	CD1	PHE	H	70	7.621	14.190	36.245	1.00	55.06	C
ATOM	4318	CE1	PHE	H	70	7.708	13.992	34.883	1.00	52.84	C
ATOM	4320	CZ	PHE	H	70	8.751	13.282	34.358	1.00	49.93	C
ATOM	4322	CE2	PHE	H	70	9.711	12.761	35.199	1.00	55.26	C
ATOM	4324	CD2	PHE	H	70	9.624	12.957	36.573	1.00	54.83	C
ATOM	4326	C	PHE	H	70	7.085	14.284	40.657	1.00	56.58	C
ATOM	4327	O	PHE	H	70	7.650	15.152	41.325	1.00	60.03	O
ATOM	4329	N	THR	H	71	6.424	13.281	41.215	1.00	56.18	N
ATOM	4330	CA	THR	H	71	6.453	13.076	42.657	1.00	56.15	C
ATOM	4332	CB	THR	H	71	5.082	13.333	43.264	1.00	57.19	C
ATOM	4334	OG1	THR	H	71	4.725	14.704	43.054	1.00	59.72	O
ATOM	4336	CG2	THR	H	71	5.068	13.010	44.759	1.00	55.03	C
ATOM	4340	C	THR	H	71	6.865	11.649	42.972	1.00	57.89	C
ATOM	4341	O	THR	H	71	6.399	10.705	42.330	1.00	58.11	O
ATOM	4343	N	ILE	H	72	7.727	11.504	43.977	1.00	58.52	N
ATOM	4344	CA	ILE	H	72	8.215	10.198	44.434	1.00	56.69	C
ATOM	4346	CB	ILE	H	72	9.763	10.185	44.490	1.00	57.00	C
ATOM	4348	CG1	ILE	H	72	10.293	8.757	44.597	1.00	60.26	C
ATOM	4351	CD1	ILE	H	72	11.817	8.686	44.564	1.00	60.94	C
ATOM	4355	CG2	ILE	H	72	10.289	11.024	45.643	1.00	58.10	C
ATOM	4359	C	ILE	H	72	7.612	9.864	45.799	1.00	53.96	C
ATOM	4360	O	ILE	H	72	7.488	10.734	46.647	1.00	55.60	O
ATOM	4362	N	SER	H	73	7.207	8.613	45.994	1.00	53.36	N
ATOM	4363	CA	SER	H	73	6.670	8.160	47.284	1.00	53.31	C
ATOM	4365	CB	SER	H	73	5.154	8.279	47.301	1.00	51.35	C
ATOM	4368	OG	SER	H	73	4.614	7.733	46.124	1.00	55.02	O
ATOM	4370	C	SER	H	73	7.094	6.725	47.552	1.00	52.52	C
ATOM	4371	O	SER	H	73	7.775	6.106	46.728	1.00	53.63	O
ATOM	4373	N	ARG	H	74	6.725	6.195	48.710	1.00	51.43	N
ATOM	4374	CA	ARG	H	74	7.070	4.812	49.010	1.00	52.90	C
ATOM	4376	CB	ARG	H	74	8.498	4.728	49.566	1.00	53.14	C
ATOM	4379	CG	ARG	H	74	8.693	5.350	50.950	1.00	52.48	C
ATOM	4382	CD	ARG	H	74	10.188	5.505	51.302	1.00	53.69	C
ATOM	4385	NE	ARG	H	74	10.863	4.218	51.487	1.00	54.77	N
ATOM	4387	CZ	ARG	H	74	12.183	4.060	51.565	1.00	57.39	C
ATOM	4388	NH1	ARG	H	74	13.000	5.105	51.483	1.00	60.70	N
ATOM	4391	NH2	ARG	H	74	12.692	2.848	51.714	1.00	59.30	N
ATOM	4394	C	ARG	H	74	6.111	4.152	49.977	1.00	52.64	C
ATOM	4395	O	ARG	H	74	5.481	4.820	50.791	1.00	53.87	O
ATOM	4397	N	ASP	H	75	6.020	2.830	49.883	1.00	52.49	N

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ATOM	4398	CA	ASP	H	75	5.254	2.028	50.829	1.00	52.32	C
ATOM	4400	CB	ASP	H	75	4.044	1.429	50.125	1.00	51.92	C
ATOM	4403	CG	ASP	H	75	3.049	0.833	51.089	1.00	53.70	C
ATOM	4404	OD1	ASP	H	75	3.464	0.322	52.152	1.00	51.27	O
ATOM	4405	OD2	ASP	H	75	1.844	0.873	50.774	1.00	56.20	O
ATOM	4406	C	ASP	H	75	6.139	0.924	51.418	1.00	52.67	C
ATOM	4407	O	ASP	H	75	6.259	-0.160	50.838	1.00	52.67	O
ATOM	4409	N	ASP	H	76	6.758	1.202	52.568	1.00	52.46	N
ATOM	4410	CA	ASP	H	76	7.703	0.264	53.184	1.00	52.19	C
ATOM	4412	CB	ASP	H	76	8.272	0.836	54.489	1.00	52.72	C
ATOM	4415	CG	ASP	H	76	9.379	1.863	54.264	1.00	53.94	C
ATOM	4416	OD1	ASP	H	76	9.929	1.939	53.146	1.00	53.65	O
ATOM	4417	OD2	ASP	H	76	9.723	2.582	55.224	1.00	54.29	O
ATOM	4418	C	ASP	H	76	7.052	-1.100	53.442	1.00	53.19	C
ATOM	4419	O	ASP	H	76	7.680	-2.142	53.256	1.00	53.58	O
ATOM	4421	N	SER	H	77	5.782	-1.091	53.842	1.00	54.06	N
ATOM	4422	CA	SER	H	77	5.055	-2.330	54.139	1.00	52.40	C
ATOM	4424	CB	SER	H	77	3.737	-2.015	54.843	1.00	49.84	C
ATOM	4427	OG	SER	H	77	2.786	-1.555	53.906	1.00	49.87	O
ATOM	4429	C	SER	H	77	4.795	-3.203	52.896	1.00	51.23	C
ATOM	4430	O	SER	H	77	4.546	-4.406	53.028	1.00	50.69	O
ATOM	4432	N	LYS	H	78	4.837	-2.598	51.710	1.00	50.63	N
ATOM	4433	CA	LYS	H	78	4.704	-3.336	50.444	1.00	52.65	C
ATOM	4435	CB	LYS	H	78	3.556	-2.753	49.598	1.00	52.68	C
ATOM	4438	CG	LYS	H	78	2.167	-3.315	49.926	1.00	58.32	C
ATOM	4441	CD	LYS	H	78	1.083	-2.835	48.937	1.00	58.24	C
ATOM	4444	CE	LYS	H	78	0.847	-1.321	49.052	1.00	65.58	C
ATOM	4447	NZ	LYS	H	78	-0.474	-0.849	48.507	1.00	65.69	N
ATOM	4451	C	LYS	H	78	6.006	-3.293	49.641	1.00	51.77	C
ATOM	4452	O	LYS	H	78	5.987	-3.500	48.436	1.00	49.77	O
ATOM	4454	N	ASN	H	79	7.126	-3.020	50.317	1.00	52.69	N
ATOM	4455	CA	ASN	H	79	8.454	-2.872	49.687	1.00	52.41	C
ATOM	4457	CB	ASN	H	79	9.226	-4.205	49.718	1.00	51.45	C
ATOM	4460	CG	ASN	H	79	9.598	-4.638	51.134	1.00	52.85	C
ATOM	4461	OD1	ASN	H	79	10.001	-3.824	51.958	1.00	55.11	O
ATOM	4462	ND2	ASN	H	79	9.456	-5.926	51.419	1.00	55.23	N
ATOM	4465	C	ASN	H	79	8.438	-2.292	48.261	1.00	53.98	C
ATOM	4466	O	ASN	H	79	9.052	-2.860	47.349	1.00	55.36	O
ATOM	4468	N	THR	H	80	7.767	-1.146	48.090	1.00	53.60	N
ATOM	4469	CA	THR	H	80	7.587	-0.522	46.771	1.00	52.30	C
ATOM	4471	CB	THR	H	80	6.134	-0.719	46.280	1.00	53.91	C
ATOM	4473	OG1	THR	H	80	5.827	-2.120	46.225	1.00	52.33	O
ATOM	4475	CG2	THR	H	80	5.914	-0.074	44.893	1.00	54.14	C
ATOM	4479	C	THR	H	80	7.868	0.980	46.765	1.00	51.52	C
ATOM	4480	O	THR	H	80	7.515	1.690	47.700	1.00	52.39	O
ATOM	4482	N	VAL	H	81	8.475	1.465	45.687	1.00	52.20	N
ATOM	4483	CA	VAL	H	81	8.656	2.903	45.475	1.00	51.81	C
ATOM	4485	CB	VAL	H	81	10.150	3.283	45.354	1.00	52.16	C
ATOM	4487	CG1	VAL	H	81	10.811	2.602	44.172	1.00	51.14	C
ATOM	4491	CG2	VAL	H	81	10.323	4.805	45.275	1.00	53.07	C
ATOM	4495	C	VAL	H	81	7.903	3.308	44.218	1.00	51.61	C
ATOM	4496	O	VAL	H	81	7.889	2.561	43.248	1.00	53.26	O
ATOM	4498	N	TYR	H	82	7.279	4.487	44.245	1.00	52.19	N
ATOM	4499	CA	TYR	H	82	6.498	4.991	43.114	1.00	52.06	C
ATOM	4501	CB	TYR	H	82	5.083	5.299	43.552	1.00	50.72	C
ATOM	4504	CG	TYR	H	82	4.404	4.144	44.218	1.00	50.09	C
ATOM	4505	CD1	TYR	H	82	3.833	3.127	43.469	1.00	48.59	C
ATOM	4507	CE1	TYR	H	82	3.203	2.069	44.084	1.00	49.96	C
ATOM	4509	CZ	TYR	H	82	3.145	2.025	45.465	1.00	48.45	C
ATOM	4510	OH	TYR	H	82	2.524	0.983	46.107	1.00	51.38	O
ATOM	4512	CE2	TYR	H	82	3.706	3.024	46.217	1.00	47.82	C
ATOM	4514	CD2	TYR	H	82	4.323	4.074	45.598	1.00	46.84	C
ATOM	4516	C	TYR	H	82	7.082	6.259	42.529	1.00	52.74	C

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ATOM	4517	O	TYR	H	82	7.774	6.997	43.226	1.00	53.39	O
ATOM	4519	N	LEU	H	83	6.806	6.493	41.245	1.00	52.93	N
ATOM	4520	CA	LEU	H	83	7.028	7.793	40.627	1.00	54.16	C
ATOM	4522	CB	LEU	H	83	8.197	7.775	39.650	1.00	54.70	C
ATOM	4525	CG	LEU	H	83	8.521	9.122	38.990	1.00	54.80	C
ATOM	4527	CD1	LEU	H	83	9.090	10.097	40.007	1.00	57.34	C
ATOM	4531	CD2	LEU	H	83	9.497	8.937	37.821	1.00	58.27	C
ATOM	4535	C	LEU	H	83	5.775	8.205	39.891	1.00	54.10	C
ATOM	4536	O	LEU	H	83	5.322	7.509	38.991	1.00	53.76	O
ATOM	4538	N	GLN	H	84	5.233	9.351	40.285	1.00	55.40	N
ATOM	4539	CA	GLN	H	84	4.024	9.905	39.705	1.00	55.25	C
ATOM	4541	CB	GLN	H	84	3.123	10.470	40.808	1.00	54.66	C
ATOM	4544	CG	GLN	H	84	1.861	11.151	40.325	1.00	55.13	C
ATOM	4547	CD	GLN	H	84	0.886	10.190	39.690	1.00	57.62	C
ATOM	4548	OE1	GLN	H	84	0.420	9.238	40.325	1.00	60.12	O
ATOM	4549	NE2	GLN	H	84	0.572	10.428	38.423	1.00	58.65	N
ATOM	4552	C	GLN	H	84	4.458	11.001	38.748	1.00	55.58	C
ATOM	4553	O	GLN	H	84	5.028	12.007	39.160	1.00	56.38	O
ATOM	4555	N	MET	H	85	4.196	10.793	37.467	1.00	56.10	N
ATOM	4556	CA	MET	H	85	4.655	11.708	36.446	1.00	56.22	C
ATOM	4558	CB	MET	H	85	5.404	10.931	35.374	1.00	56.39	C
ATOM	4561	CG	MET	H	85	6.554	10.126	35.912	1.00	55.02	C
ATOM	4564	SD	MET	H	85	7.564	9.425	34.599	1.00	55.69	S
ATOM	4565	CE	MET	H	85	6.437	8.181	34.006	1.00	65.06	C
ATOM	4569	C	MET	H	85	3.476	12.461	35.840	1.00	57.09	C
ATOM	4570	O	MET	H	85	2.667	11.877	35.100	1.00	56.63	O
ATOM	4572	N	ASN	H	86	3.392	13.752	36.172	1.00	55.80	N
ATOM	4573	CA	ASN	H	86	2.342	14.645	35.688	1.00	54.96	C
ATOM	4575	CB	ASN	H	86	1.591	15.252	36.872	1.00	54.56	C
ATOM	4578	CG	ASN	H	86	0.807	14.223	37.657	1.00	54.97	C
ATOM	4579	OD1	ASN	H	86	0.563	13.118	37.180	1.00	58.89	O
ATOM	4580	ND2	ASN	H	86	0.403	14.584	38.867	1.00	48.38	N
ATOM	4583	C	ASN	H	86	2.912	15.769	34.824	1.00	55.55	C
ATOM	4584	O	ASN	H	86	4.109	16.065	34.885	1.00	57.17	O
ATOM	4586	N	SER	H	87	2.048	16.390	34.023	1.00	54.90	N
ATOM	4587	CA	SER	H	87	2.438	17.509	33.169	1.00	54.23	C
ATOM	4589	CB	SER	H	87	2.870	18.711	34.011	1.00	53.82	C
ATOM	4592	OG	SER	H	87	1.885	19.061	34.958	1.00	52.89	O
ATOM	4594	C	SER	H	87	3.569	17.106	32.246	1.00	53.30	C
ATOM	4595	O	SER	H	87	4.558	17.818	32.098	1.00	53.56	O
ATOM	4597	N	LEU	H	88	3.419	15.954	31.620	1.00	53.53	N
ATOM	4598	CA	LEU	H	88	4.496	15.411	30.811	1.00	55.13	C
ATOM	4600	CB	LEU	H	88	4.195	13.969	30.411	1.00	55.58	C
ATOM	4603	CG	LEU	H	88	4.303	13.013	31.602	1.00	56.69	C
ATOM	4605	CD1	LEU	H	88	3.719	11.652	31.255	1.00	59.85	C
ATOM	4609	CD2	LEU	H	88	5.742	12.880	32.063	1.00	53.31	C
ATOM	4613	C	LEU	H	88	4.797	16.264	29.582	1.00	55.36	C
ATOM	4614	O	LEU	H	88	3.910	16.647	28.826	1.00	55.54	O
ATOM	4616	N	LYS	H	89	6.075	16.571	29.430	1.00	56.89	N
ATOM	4617	CA	LYS	H	89	6.593	17.291	28.289	1.00	56.73	C
ATOM	4619	CB	LYS	H	89	7.677	18.282	28.745	1.00	56.42	C
ATOM	4622	CG	LYS	H	89	7.183	19.408	29.666	1.00	56.90	C
ATOM	4625	CD	LYS	H	89	8.360	20.143	30.348	1.00	59.61	C
ATOM	4628	CE	LYS	H	89	8.042	21.628	30.672	1.00	62.83	C
ATOM	4631	NZ	LYS	H	89	7.226	21.848	31.909	1.00	64.95	N
ATOM	4635	C	LYS	H	89	7.181	16.257	27.333	1.00	56.57	C
ATOM	4636	O	LYS	H	89	7.568	15.159	27.751	1.00	55.89	O
ATOM	4638	N	THR	H	90	7.243	16.609	26.052	1.00	56.34	N
ATOM	4639	CA	THR	H	90	7.896	15.761	25.050	1.00	55.88	C
ATOM	4641	CB	THR	H	90	7.869	16.378	23.610	1.00	55.65	C
ATOM	4643	OG1	THR	H	90	9.055	15.993	22.913	1.00	59.72	O
ATOM	4645	CG2	THR	H	90	7.788	17.903	23.608	1.00	56.91	C
ATOM	4649	C	THR	H	90	9.332	15.374	25.438	1.00	54.81	C

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ATOM	4650	O	THR	H	90	9.747	14.239	25.218	1.00	53.84	O
ATOM	4652	N	GLU	H	91	10.068	16.300	26.047	1.00	55.64	N
ATOM	4653	CA	GLU	H	91	11.484	16.056	26.429	1.00	56.87	C
ATOM	4655	CB	GLU	H	91	12.257	17.364	26.706	1.00	57.54	C
ATOM	4658	CG	GLU	H	91	11.434	18.554	27.241	1.00	64.21	C
ATOM	4661	CD	GLU	H	91	10.746	19.361	26.125	1.00	69.95	C
ATOM	4662	OE1	GLU	H	91	11.348	19.508	25.042	1.00	70.88	O
ATOM	4663	OE2	GLU	H	91	9.608	19.850	26.327	1.00	71.83	O
ATOM	4664	C	GLU	H	91	11.683	15.078	27.594	1.00	57.19	C
ATOM	4665	O	GLU	H	91	12.819	14.729	27.924	1.00	58.19	O
ATOM	4667	N	ASP	H	92	10.592	14.629	28.209	1.00	57.31	N
ATOM	4668	CA	ASP	H	92	10.663	13.575	29.213	1.00	55.45	C
ATOM	4670	CB	ASP	H	92	9.405	13.567	30.070	1.00	56.63	C
ATOM	4673	CG	ASP	H	92	9.185	14.859	30.815	1.00	56.78	C
ATOM	4674	OD1	ASP	H	92	10.104	15.341	31.507	1.00	53.91	O
ATOM	4675	OD2	ASP	H	92	8.053	15.371	30.736	1.00	57.74	O
ATOM	4676	C	ASP	H	92	10.796	12.188	28.584	1.00	54.42	C
ATOM	4677	O	ASP	H	92	10.985	11.207	29.306	1.00	53.82	O
ATOM	4679	N	THR	H	93	10.660	12.077	27.263	1.00	52.40	N
ATOM	4680	CA	THR	H	93	10.750	10.762	26.650	1.00	53.62	C
ATOM	4682	CB	THR	H	93	10.605	10.793	25.129	1.00	51.83	C
ATOM	4684	OG1	THR	H	93	9.224	10.943	24.787	1.00	55.50	O
ATOM	4686	CG2	THR	H	93	11.088	9.509	24.524	1.00	51.40	C
ATOM	4690	C	THR	H	93	12.086	10.158	27.040	1.00	54.49	C
ATOM	4691	O	THR	H	93	13.130	10.748	26.788	1.00	56.62	O
ATOM	4693	N	ALA	H	94	12.041	8.995	27.681	1.00	55.02	N
ATOM	4694	CA	ALA	H	94	13.245	8.322	28.147	1.00	54.50	C
ATOM	4696	CB	ALA	H	94	13.992	9.207	29.138	1.00	55.34	C
ATOM	4700	C	ALA	H	94	12.905	6.993	28.799	1.00	54.91	C
ATOM	4701	O	ALA	H	94	11.755	6.733	29.151	1.00	56.76	O
ATOM	4703	N	VAL	H	95	13.923	6.154	28.954	1.00	54.19	N
ATOM	4704	CA	VAL	H	95	13.817	4.972	29.787	1.00	53.16	C
ATOM	4706	CB	VAL	H	95	14.904	3.945	29.443	1.00	51.92	C
ATOM	4708	CG1	VAL	H	95	14.937	2.804	30.472	1.00	52.53	C
ATOM	4712	CG2	VAL	H	95	14.657	3.397	28.063	1.00	50.97	C
ATOM	4716	C	VAL	H	95	13.958	5.430	31.227	1.00	53.10	C
ATOM	4717	O	VAL	H	95	14.866	6.198	31.536	1.00	53.44	O
ATOM	4719	N	TYR	H	96	13.059	4.963	32.094	1.00	52.44	N
ATOM	4720	CA	TYR	H	96	13.074	5.335	33.510	1.00	52.33	C
ATOM	4722	CB	TYR	H	96	11.703	5.872	33.940	1.00	51.22	C
ATOM	4725	CG	TYR	H	96	11.478	7.299	33.484	1.00	49.91	C
ATOM	4726	CD1	TYR	H	96	11.312	7.602	32.137	1.00	50.04	C
ATOM	4728	CE1	TYR	H	96	11.124	8.904	31.715	1.00	50.07	C
ATOM	4730	CZ	TYR	H	96	11.104	9.924	32.648	1.00	49.82	C
ATOM	4731	OH	TYR	H	96	10.933	11.231	32.255	1.00	48.27	O
ATOM	4733	CE2	TYR	H	96	11.264	9.642	33.988	1.00	49.93	C
ATOM	4735	CD2	TYR	H	96	11.450	8.343	34.395	1.00	50.15	C
ATOM	4737	C	TYR	H	96	13.492	4.151	34.369	1.00	52.95	C
ATOM	4738	O	TYR	H	96	13.086	3.024	34.111	1.00	51.55	O
ATOM	4740	N	TYR	H	97	14.302	4.440	35.391	1.00	54.42	N
ATOM	4741	CA	TYR	H	97	14.959	3.445	36.240	1.00	53.98	C
ATOM	4743	CB	TYR	H	97	16.467	3.553	36.036	1.00	53.03	C
ATOM	4746	CG	TYR	H	97	16.998	2.998	34.744	1.00	50.86	C
ATOM	4747	CD1	TYR	H	97	17.041	1.639	34.527	1.00	50.22	C
ATOM	4749	CE1	TYR	H	97	17.529	1.126	33.352	1.00	53.55	C
ATOM	4751	CZ	TYR	H	97	18.017	1.977	32.380	1.00	54.65	C
ATOM	4752	OH	TYR	H	97	18.512	1.448	31.218	1.00	54.65	O
ATOM	4754	CE2	TYR	H	97	18.010	3.335	32.576	1.00	52.02	C
ATOM	4756	CD2	TYR	H	97	17.505	3.837	33.760	1.00	53.12	C
ATOM	4758	C	TYR	H	97	14.683	3.725	37.733	1.00	55.90	C
ATOM	4759	O	TYR	H	97	14.844	4.855	38.177	1.00	57.82	O
ATOM	4761	N	CYS	H	98	14.278	2.717	38.508	1.00	55.79	N
ATOM	4762	CA	CYS	H	98	14.275	2.856	39.968	1.00	55.82	C

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ATOM	4764	CB	CYS	H	98	13.126	2.101	40.654	1.00	54.75	C
ATOM	4767	SG	CYS	H	98	12.996	0.403	40.142	1.00	68.78	S
ATOM	4769	C	CYS	H	98	15.603	2.306	40.412	1.00	55.31	C
ATOM	4770	O	CYS	H	98	16.133	1.390	39.783	1.00	56.26	O
ATOM	4772	N	SER	H	99	16.165	2.884	41.464	1.00	54.18	N
ATOM	4773	CA	SER	H	99	17.404	2.367	42.023	1.00	53.10	C
ATOM	4775	CB	SER	H	99	18.616	3.118	41.509	1.00	53.02	C
ATOM	4778	OG	SER	H	99	19.783	2.461	41.947	1.00	49.61	O
ATOM	4780	C	SER	H	99	17.358	2.490	43.505	1.00	52.12	C
ATOM	4781	O	SER	H	99	16.516	3.193	44.031	1.00	53.03	O
ATOM	4783	N	ALA	H	100	18.282	1.816	44.174	1.00	52.50	N
ATOM	4784	CA	ALA	H	100	18.261	1.732	45.628	1.00	52.90	C
ATOM	4786	CB	ALA	H	100	17.339	0.585	46.067	1.00	52.69	C
ATOM	4790	C	ALA	H	100	19.660	1.526	46.205	1.00	54.07	C
ATOM	4791	O	ALA	H	100	20.464	0.762	45.642	1.00	55.42	O
ATOM	4793	N	SER	H	101	19.939	2.212	47.319	1.00	54.31	N
ATOM	4794	CA	SER	H	101	21.122	1.943	48.152	1.00	52.63	C
ATOM	4796	CB	SER	H	101	22.304	2.818	47.736	1.00	53.45	C
ATOM	4799	OG	SER	H	101	22.061	4.188	48.003	1.00	47.14	O
ATOM	4801	C	SER	H	101	20.820	2.153	49.638	1.00	53.12	C
ATOM	4802	O	SER	H	101	19.904	2.895	50.007	1.00	51.79	O
ATOM	4804	N	TYR	H	102	21.611	1.493	50.482	1.00	54.90	N
ATOM	4805	CA	TYR	H	102	21.468	1.578	51.947	1.00	52.96	C
ATOM	4807	CB	TYR	H	102	22.464	0.633	52.627	1.00	52.10	C
ATOM	4810	CG	TYR	H	102	22.006	-0.797	52.615	1.00	55.07	C
ATOM	4811	CD1	TYR	H	102	20.940	-1.193	53.410	1.00	54.91	C
ATOM	4813	CE1	TYR	H	102	20.491	-2.507	53.419	1.00	54.68	C
ATOM	4815	CZ	TYR	H	102	21.102	-3.454	52.627	1.00	54.77	C
ATOM	4816	OH	TYR	H	102	20.611	-4.741	52.691	1.00	56.57	O
ATOM	4818	CE2	TYR	H	102	22.172	-3.102	51.811	1.00	52.66	C
ATOM	4820	CD2	TYR	H	102	22.625	-1.765	51.815	1.00	57.72	C
ATOM	4822	C	TYR	H	102	21.662	3.007	52.469	1.00	51.08	C
ATOM	4823	O	TYR	H	102	22.641	3.653	52.147	1.00	48.10	O
ATOM	4825	N	TYR	H	103	20.714	3.488	53.267	1.00	52.21	N
ATOM	4826	CA	TYR	H	103	20.837	4.781	53.924	1.00	52.09	C
ATOM	4828	CB	TYR	H	103	19.742	4.958	54.983	1.00	50.42	C
ATOM	4831	CG	TYR	H	103	19.961	6.180	55.868	1.00	51.64	C
ATOM	4832	CD1	TYR	H	103	19.505	7.442	55.471	1.00	55.51	C
ATOM	4834	CE1	TYR	H	103	19.708	8.564	56.249	1.00	47.49	C
ATOM	4836	CZ	TYR	H	103	20.389	8.450	57.422	1.00	47.70	C
ATOM	4837	OH	TYR	H	103	20.590	9.574	58.175	1.00	52.37	O
ATOM	4839	CE2	TYR	H	103	20.869	7.216	57.846	1.00	50.51	C
ATOM	4841	CD2	TYR	H	103	20.650	6.087	57.068	1.00	45.38	C
ATOM	4843	C	TYR	H	103	22.207	4.933	54.594	1.00	54.36	C
ATOM	4844	O	TYR	H	103	22.695	4.023	55.260	1.00	56.44	O
ATOM	4846	N	ARG	H	104	22.810	6.103	54.413	1.00	55.01	N
ATOM	4847	CA	ARG	H	104	24.032	6.471	55.113	1.00	52.47	C
ATOM	4849	CB	ARG	H	104	25.154	6.712	54.105	1.00	51.34	C
ATOM	4852	CG	ARG	H	104	25.431	5.571	53.177	1.00	48.98	C
ATOM	4855	CD	ARG	H	104	26.500	5.962	52.181	1.00	53.59	C
ATOM	4858	NE	ARG	H	104	27.759	6.218	52.870	1.00	59.16	N
ATOM	4860	CZ	ARG	H	104	28.588	5.266	53.288	1.00	56.60	C
ATOM	4861	NH1	ARG	H	104	28.310	3.989	53.064	1.00	60.42	N
ATOM	4864	NH2	ARG	H	104	29.699	5.592	53.932	1.00	58.88	N
ATOM	4867	C	ARG	H	104	23.805	7.761	55.896	1.00	51.92	C
ATOM	4868	O	ARG	H	104	22.878	8.523	55.604	1.00	49.09	O
ATOM	4870	N	TYR	H	105	24.672	8.006	56.876	1.00	53.28	N
ATOM	4871	CA	TYR	H	105	24.710	9.292	57.579	1.00	53.37	C
ATOM	4873	CB	TYR	H	105	25.341	9.130	58.969	1.00	54.72	C
ATOM	4876	CG	TYR	H	105	24.659	8.197	59.964	1.00	51.95	C
ATOM	4877	CD1	TYR	H	105	23.344	8.398	60.366	1.00	55.79	C
ATOM	4879	CE1	TYR	H	105	22.734	7.557	61.330	1.00	54.92	C
ATOM	4881	CZ	TYR	H	105	23.454	6.527	61.888	1.00	53.31	C

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ATOM	4882	OH	TYR	H	105	22.870	5.700	62.804	1.00	56.11	O
ATOM	4884	CE2	TYR	H	105	24.764	6.310	61.512	1.00	54.94	C
ATOM	4886	CD2	TYR	H	105	25.365	7.151	60.562	1.00	55.89	C
ATOM	4888	C	TYR	H	105	25.517	10.346	56.787	1.00	53.19	C
ATOM	4889	O	TYR	H	105	25.500	11.519	57.126	1.00	55.29	O
ATOM	4891	N	ASP	H	106	26.245	9.891	55.765	1.00	54.09	N
ATOM	4892	CA	ASP	H	106	27.063	10.709	54.846	1.00	53.00	C
ATOM	4894	CB	ASP	H	106	27.798	9.766	53.872	1.00	53.09	C
ATOM	4897	CG	ASP	H	106	29.014	9.177	54.422	1.00	54.22	C
ATOM	4898	OD1	ASP	H	106	29.776	8.637	53.613	1.00	54.29	O
ATOM	4899	OD2	ASP	H	106	29.233	9.265	55.639	1.00	64.11	O
ATOM	4900	C	ASP	H	106	26.277	11.592	53.899	1.00	54.00	C
ATOM	4901	O	ASP	H	106	25.058	11.556	53.861	1.00	59.96	O
ATOM	4903	N	VAL	H	107	27.020	12.328	53.075	1.00	53.17	N
ATOM	4904	CA	VAL	H	107	26.528	12.882	51.822	1.00	51.23	C
ATOM	4906	CB	VAL	H	107	27.299	14.164	51.419	1.00	51.31	C
ATOM	4908	CG1	VAL	H	107	27.340	15.164	52.583	1.00	50.27	C
ATOM	4912	CG2	VAL	H	107	28.710	13.843	50.917	1.00	53.04	C
ATOM	4916	C	VAL	H	107	26.647	11.829	50.709	1.00	51.93	C
ATOM	4917	O	VAL	H	107	26.268	12.070	49.557	1.00	50.89	O
ATOM	4919	N	GLY	H	108	27.211	10.677	51.060	1.00	52.61	N
ATOM	4920	CA	GLY	H	108	27.216	9.480	50.226	1.00	52.18	C
ATOM	4923	C	GLY	H	108	25.843	8.997	49.798	1.00	52.13	C
ATOM	4924	O	GLY	H	108	25.001	8.680	50.639	1.00	54.07	O
ATOM	4926	N	ALA	H	109	25.631	8.972	48.482	1.00	50.43	N
ATOM	4927	CA	ALA	H	109	24.467	8.357	47.862	1.00	49.42	C
ATOM	4929	CB	ALA	H	109	23.346	9.340	47.756	1.00	48.70	C
ATOM	4933	C	ALA	H	109	24.852	7.856	46.474	1.00	49.64	C
ATOM	4934	O	ALA	H	109	25.498	8.573	45.708	1.00	49.95	O
ATOM	4936	N	TRP	H	110	24.460	6.621	46.158	1.00	51.19	N
ATOM	4937	CA	TRP	H	110	24.741	6.028	44.850	1.00	51.18	C
ATOM	4939	CB	TRP	H	110	26.165	5.497	44.814	1.00	51.84	C
ATOM	4942	CG	TRP	H	110	26.467	4.314	45.676	1.00	52.98	C
ATOM	4943	CD1	TRP	H	110	26.327	2.998	45.340	1.00	54.46	C
ATOM	4945	NE1	TRP	H	110	26.759	2.202	46.371	1.00	54.88	N
ATOM	4947	CE2	TRP	H	110	27.207	2.998	47.389	1.00	48.87	C
ATOM	4948	CD2	TRP	H	110	27.041	4.334	46.985	1.00	52.18	C
ATOM	4949	CE3	TRP	H	110	27.415	5.351	47.859	1.00	52.85	C
ATOM	4951	CZ3	TRP	H	110	27.942	5.010	49.078	1.00	53.94	C
ATOM	4953	CH2	TRP	H	110	28.104	3.672	49.447	1.00	51.64	C
ATOM	4955	CZ2	TRP	H	110	27.739	2.655	48.616	1.00	48.54	C
ATOM	4957	C	TRP	H	110	23.737	4.950	44.457	1.00	52.28	C
ATOM	4958	O	TRP	H	110	22.784	4.695	45.197	1.00	53.53	O
ATOM	4960	N	PHE	H	111	23.944	4.331	43.291	1.00	51.09	N
ATOM	4961	CA	PHE	H	111	22.916	3.485	42.675	1.00	50.65	C
ATOM	4963	CB	PHE	H	111	22.488	4.117	41.340	1.00	50.25	C
ATOM	4966	CG	PHE	H	111	22.282	5.612	41.448	1.00	49.04	C
ATOM	4967	CD1	PHE	H	111	21.319	6.129	42.291	1.00	51.73	C
ATOM	4969	CE1	PHE	H	111	21.149	7.495	42.429	1.00	51.55	C
ATOM	4971	CZ	PHE	H	111	21.944	8.357	41.737	1.00	50.40	C
ATOM	4973	CE2	PHE	H	111	22.919	7.861	40.912	1.00	51.14	C
ATOM	4975	CD2	PHE	H	111	23.092	6.493	40.777	1.00	49.18	C
ATOM	4977	C	PHE	H	111	23.408	2.041	42.566	1.00	50.05	C
ATOM	4978	O	PHE	H	111	24.051	1.647	41.607	1.00	47.70	O
ATOM	4980	N	ALA	H	112	23.101	1.264	43.597	1.00	50.93	N
ATOM	4981	CA	ALA	H	112	23.694	-0.047	43.781	1.00	52.55	C
ATOM	4983	CB	ALA	H	112	23.730	-0.390	45.248	1.00	52.52	C
ATOM	4987	C	ALA	H	112	22.926	-1.109	43.022	1.00	54.37	C
ATOM	4988	O	ALA	H	112	23.525	-1.917	42.311	1.00	55.53	O
ATOM	4990	N	TYR	H	113	21.605	-1.109	43.205	1.00	55.46	N
ATOM	4991	CA	TYR	H	113	20.693	-2.020	42.515	1.00	54.22	C
ATOM	4993	CB	TYR	H	113	19.841	-2.817	43.511	1.00	57.01	C
ATOM	4996	CG	TYR	H	113	20.528	-3.137	44.809	1.00	59.26	C

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ATOM	4997	CD1	TYR	H	113	21.598	-4.025	44.852	1.00	61.30	C
ATOM	4999	CE1	TYR	H	113	22.234	-4.333	46.053	1.00	60.62	C
ATOM	5001	CZ	TYR	H	113	21.798	-3.738	47.223	1.00	63.36	C
ATOM	5002	OH	TYR	H	113	22.433	-4.021	48.409	1.00	67.49	O
ATOM	5004	CE2	TYR	H	113	20.734	-2.854	47.205	1.00	60.66	C
ATOM	5006	CD2	TYR	H	113	20.106	-2.558	46.001	1.00	61.94	C
ATOM	5008	C	TYR	H	113	19.768	-1.207	41.624	1.00	52.67	C
ATOM	5009	O	TYR	H	113	19.360	-0.097	41.973	1.00	51.12	O
ATOM	5011	N	TRP	H	114	19.413	-1.789	40.491	1.00	51.26	N
ATOM	5012	CA	TRP	H	114	18.654	-1.098	39.470	1.00	52.96	C
ATOM	5014	CB	TRP	H	114	19.516	-0.908	38.228	1.00	53.95	C
ATOM	5017	CG	TRP	H	114	20.589	0.070	38.419	1.00	53.77	C
ATOM	5018	CD1	TRP	H	114	21.685	-0.081	39.182	1.00	52.61	C
ATOM	5020	NE1	TRP	H	114	22.457	1.048	39.123	1.00	57.47	N
ATOM	5022	CE2	TRP	H	114	21.855	1.960	38.301	1.00	57.60	C
ATOM	5023	CD2	TRP	H	114	20.667	1.378	37.841	1.00	57.75	C
ATOM	5024	CE3	TRP	H	114	19.852	2.106	36.967	1.00	55.44	C
ATOM	5026	CZ3	TRP	H	114	20.251	3.369	36.591	1.00	55.64	C
ATOM	5028	CH2	TRP	H	114	21.445	3.924	37.067	1.00	55.42	C
ATOM	5030	CZ2	TRP	H	114	22.259	3.236	37.920	1.00	56.16	C
ATOM	5032	C	TRP	H	114	17.443	-1.888	39.051	1.00	53.33	C
ATOM	5033	O	TRP	H	114	17.467	-3.114	39.040	1.00	54.38	O
ATOM	5035	N	GLY	H	115	16.390	-1.165	38.679	1.00	53.62	N
ATOM	5036	CA	GLY	H	115	15.269	-1.742	37.967	1.00	50.08	C
ATOM	5039	C	GLY	H	115	15.730	-2.006	36.552	1.00	50.47	C
ATOM	5040	O	GLY	H	115	16.763	-1.481	36.115	1.00	49.63	O
ATOM	5042	N	GLN	H	116	14.958	-2.818	35.834	1.00	50.79	N
ATOM	5043	CA	GLN	H	116	15.284	-3.206	34.462	1.00	48.84	C
ATOM	5045	CB	GLN	H	116	14.426	-4.401	34.035	1.00	48.23	C
ATOM	5048	CG	GLN	H	116	12.972	-4.094	33.619	1.00	50.59	C
ATOM	5051	CD	GLN	H	116	11.966	-4.161	34.765	1.00	55.01	C
ATOM	5052	OE1	GLN	H	116	12.343	-4.196	35.942	1.00	56.76	O
ATOM	5053	NE2	GLN	H	116	10.674	-4.176	34.424	1.00	46.00	N
ATOM	5056	C	GLN	H	116	15.106	-2.069	33.454	1.00	48.66	C
ATOM	5057	O	GLN	H	116	15.481	-2.215	32.284	1.00	48.67	O
ATOM	5059	N	GLY	H	117	14.512	-0.960	33.901	1.00	47.82	N
ATOM	5060	CA	GLY	H	117	14.163	0.149	33.025	1.00	47.97	C
ATOM	5063	C	GLY	H	117	12.816	-0.040	32.340	1.00	47.94	C
ATOM	5064	O	GLY	H	117	12.427	-1.177	32.024	1.00	47.46	O
ATOM	5066	N	THR	H	118	12.111	1.075	32.111	1.00	47.47	N
ATOM	5067	CA	THR	H	118	10.911	1.093	31.261	1.00	48.10	C
ATOM	5069	CB	THR	H	118	9.619	0.852	32.078	1.00	49.92	C
ATOM	5071	OG1	THR	H	118	8.500	0.736	31.188	1.00	53.21	O
ATOM	5073	CG2	THR	H	118	9.366	1.980	33.097	1.00	48.82	C
ATOM	5077	C	THR	H	118	10.785	2.397	30.472	1.00	48.24	C
ATOM	5078	O	THR	H	118	10.965	3.489	31.020	1.00	51.02	O
ATOM	5080	N	LEU	H	119	10.461	2.276	29.187	1.00	49.10	N
ATOM	5081	CA	LEU	H	119	10.445	3.423	28.261	1.00	48.79	C
ATOM	5083	CB	LEU	H	119	10.652	2.953	26.815	1.00	47.98	C
ATOM	5086	CG	LEU	H	119	10.711	4.035	25.728	1.00	48.73	C
ATOM	5088	CD1	LEU	H	119	11.952	4.892	25.873	1.00	50.29	C
ATOM	5092	CD2	LEU	H	119	10.674	3.408	24.360	1.00	47.50	C
ATOM	5096	C	LEU	H	119	9.157	4.241	28.352	1.00	49.28	C
ATOM	5097	O	LEU	H	119	8.055	3.704	28.236	1.00	48.59	O
ATOM	5099	N	VAL	H	120	9.318	5.548	28.553	1.00	49.87	N
ATOM	5100	CA	VAL	H	120	8.206	6.488	28.527	1.00	49.43	C
ATOM	5102	CB	VAL	H	120	8.222	7.432	29.740	1.00	48.77	C
ATOM	5104	CG1	VAL	H	120	6.952	8.280	29.774	1.00	47.34	C
ATOM	5108	CG2	VAL	H	120	8.344	6.634	31.017	1.00	51.75	C
ATOM	5112	C	VAL	H	120	8.327	7.305	27.257	1.00	48.47	C
ATOM	5113	O	VAL	H	120	9.391	7.837	26.960	1.00	46.71	O
ATOM	5115	N	THR	H	121	7.235	7.391	26.508	1.00	49.08	N
ATOM	5116	CA	THR	H	121	7.230	8.126	25.253	1.00	50.28	C

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ATOM	5118	CB	THR	H	121	7.036	7.190	24.057	1.00	49.88	C
ATOM	5120	OG1	THR	H	121	8.009	6.141	24.111	1.00	52.48	O
ATOM	5122	CG2	THR	H	121	7.202	7.949	22.772	1.00	50.04	C
ATOM	5126	C	THR	H	121	6.138	9.183	25.274	1.00	50.24	C
ATOM	5127	O	THR	H	121	4.951	8.868	25.238	1.00	49.85	O
ATOM	5129	N	VAL	H	122	6.557	10.442	25.356	1.00	51.36	N
ATOM	5130	CA	VAL	H	122	5.629	11.563	25.361	1.00	50.98	C
ATOM	5132	CB	VAL	H	122	6.113	12.694	26.276	1.00	50.97	C
ATOM	5134	CG1	VAL	H	122	5.019	13.776	26.393	1.00	54.22	C
ATOM	5138	CG2	VAL	H	122	6.500	12.140	27.637	1.00	48.86	C
ATOM	5142	C	VAL	H	122	5.495	12.073	23.926	1.00	50.50	C
ATOM	5143	O	VAL	H	122	6.457	12.578	23.348	1.00	50.93	O
ATOM	5145	N	SER	H	123	4.311	11.919	23.351	1.00	49.36	N
ATOM	5146	CA	SER	H	123	4.106	12.238	21.948	1.00	50.02	C
ATOM	5148	CB	SER	H	123	4.747	11.172	21.074	1.00	50.11	C
ATOM	5151	OG	SER	H	123	4.358	11.332	19.727	1.00	50.26	O
ATOM	5153	C	SER	H	123	2.630	12.332	21.615	1.00	50.86	C
ATOM	5154	O	SER	H	123	1.784	11.868	22.380	1.00	51.80	O
ATOM	5156	N	SER	H	124	2.327	12.953	20.479	1.00	51.04	N
ATOM	5157	CA	SER	H	124	0.946	13.049	20.001	1.00	51.63	C
ATOM	5159	CB	SER	H	124	0.691	14.405	19.340	1.00	51.59	C
ATOM	5162	OG	SER	H	124	0.880	15.454	20.278	1.00	53.09	O
ATOM	5164	C	SER	H	124	0.620	11.935	19.027	1.00	51.16	C
ATOM	5165	O	SER	H	124	-0.554	11.669	18.770	1.00	52.25	O
ATOM	5167	N	ALA	H	125	1.661	11.290	18.497	1.00	51.66	N
ATOM	5168	CA	ALA	H	125	1.514	10.276	17.454	1.00	52.03	C
ATOM	5170	CB	ALA	H	125	2.876	9.893	16.879	1.00	50.83	C
ATOM	5174	C	ALA	H	125	0.797	9.049	18.002	1.00	52.57	C
ATOM	5175	O	ALA	H	125	0.989	8.672	19.157	1.00	53.54	O
ATOM	5177	N	SER	H	126	-0.040	8.443	17.166	1.00	53.66	N
ATOM	5178	CA	SER	H	126	-0.878	7.333	17.590	1.00	53.99	C
ATOM	5180	CB	SER	H	126	-2.092	7.182	16.662	1.00	54.29	C
ATOM	5183	OG	SER	H	126	-2.543	8.446	16.187	1.00	56.55	O
ATOM	5185	C	SER	H	126	-0.063	6.048	17.610	1.00	54.14	C
ATOM	5186	O	SER	H	126	0.919	5.908	16.872	1.00	53.05	O
ATOM	5188	N	THR	H	127	-0.475	5.122	18.471	1.00	54.72	N
ATOM	5189	CA	THR	H	127	0.147	3.807	18.552	1.00	54.76	C
ATOM	5191	CB	THR	H	127	-0.336	3.026	19.821	1.00	54.51	C
ATOM	5193	OG1	THR	H	127	0.498	3.377	20.933	1.00	57.82	O
ATOM	5195	CG2	THR	H	127	-0.275	1.504	19.638	1.00	55.20	C
ATOM	5199	C	THR	H	127	-0.130	3.043	17.247	1.00	54.70	C
ATOM	5200	O	THR	H	127	-1.238	3.093	16.713	1.00	54.82	O
ATOM	5202	N	LYS	H	128	0.894	2.358	16.743	1.00	54.60	N
ATOM	5203	CA	LYS	H	128	0.817	1.628	15.482	1.00	54.47	C
ATOM	5205	CB	LYS	H	128	1.498	2.452	14.385	1.00	54.89	C
ATOM	5208	CG	LYS	H	128	0.750	2.547	13.060	1.00	56.98	C
ATOM	5211	CD	LYS	H	128	1.116	1.443	12.065	1.00	59.81	C
ATOM	5214	CE	LYS	H	128	0.059	0.341	12.025	1.00	62.15	C
ATOM	5217	NZ	LYS	H	128	0.349	-0.698	10.986	1.00	61.29	N
ATOM	5221	C	LYS	H	128	1.513	0.274	15.667	1.00	54.39	C
ATOM	5222	O	LYS	H	128	2.680	0.220	16.073	1.00	55.32	O
ATOM	5224	N	GLY	H	129	0.788	-0.813	15.405	1.00	53.07	N
ATOM	5225	CA	GLY	H	129	1.356	-2.153	15.482	1.00	52.52	C
ATOM	5228	C	GLY	H	129	2.272	-2.381	14.295	1.00	53.52	C
ATOM	5229	O	GLY	H	129	2.113	-1.738	13.259	1.00	54.78	O
ATOM	5231	N	PRO	H	130	3.249	-3.288	14.432	1.00	53.18	N
ATOM	5232	CA	PRO	H	130	4.123	-3.569	13.303	1.00	51.86	C
ATOM	5234	CB	PRO	H	130	5.320	-4.254	13.955	1.00	52.61	C
ATOM	5237	CG	PRO	H	130	4.738	-4.961	15.128	1.00	53.44	C
ATOM	5240	CD	PRO	H	130	3.602	-4.094	15.615	1.00	53.56	C
ATOM	5243	C	PRO	H	130	3.464	-4.506	12.310	1.00	51.39	C
ATOM	5244	O	PRO	H	130	2.349	-4.970	12.540	1.00	50.84	O
ATOM	5245	N	SER	H	131	4.166	-4.764	11.212	1.00	51.24	N

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ATOM	5246	CA	SER	H	131	3.730	-5.690	10.184	1.00	51.19	C
ATOM	5248	CB	SER	H	131	3.213	-4.915	8.975	1.00	51.90	C
ATOM	5251	OG	SER	H	131	2.876	-3.586	9.343	1.00	54.06	O
ATOM	5253	C	SER	H	131	4.963	-6.486	9.810	1.00	51.56	C
ATOM	5254	O	SER	H	131	5.942	-5.916	9.327	1.00	53.23	O
ATOM	5256	N	VAL	H	132	4.930	-7.793	10.041	1.00	50.73	N
ATOM	5257	CA	VAL	H	132	6.133	-8.604	9.925	1.00	51.25	C
ATOM	5259	CB	VAL	H	132	6.152	-9.686	11.011	1.00	51.00	C
ATOM	5261	CG1	VAL	H	132	7.345	-10.632	10.830	1.00	52.31	C
ATOM	5265	CG2	VAL	H	132	6.188	-9.028	12.390	1.00	50.95	C
ATOM	5269	C	VAL	H	132	6.250	-9.230	8.536	1.00	52.46	C
ATOM	5270	O	VAL	H	132	5.284	-9.813	8.041	1.00	53.84	O
ATOM	5272	N	PHE	H	133	7.428	-9.096	7.914	1.00	52.65	N
ATOM	5273	CA	PHE	H	133	7.707	-9.687	6.594	1.00	52.17	C
ATOM	5275	CB	PHE	H	133	7.969	-8.609	5.538	1.00	52.59	C
ATOM	5278	CG	PHE	H	133	6.910	-7.544	5.473	1.00	53.24	C
ATOM	5279	CD1	PHE	H	133	5.643	-7.835	4.994	1.00	54.08	C
ATOM	5281	CE1	PHE	H	133	4.662	-6.844	4.931	1.00	55.48	C
ATOM	5283	CZ	PHE	H	133	4.949	-5.543	5.355	1.00	54.52	C
ATOM	5285	CE2	PHE	H	133	6.209	-5.241	5.825	1.00	54.83	C
ATOM	5287	CD2	PHE	H	133	7.186	-6.239	5.882	1.00	56.63	C
ATOM	5289	C	PHE	H	133	8.918	-10.617	6.661	1.00	51.93	C
ATOM	5290	O	PHE	H	133	9.834	-10.390	7.455	1.00	51.06	O
ATOM	5292	N	PRO	H	134	8.919	-11.681	5.835	1.00	52.34	N
ATOM	5293	CA	PRO	H	134	10.043	-12.604	5.795	1.00	52.10	C
ATOM	5295	CB	PRO	H	134	9.427	-13.869	5.206	1.00	51.71	C
ATOM	5298	CG	PRO	H	134	8.381	-13.369	4.299	1.00	51.88	C
ATOM	5301	CD	PRO	H	134	7.846	-12.102	4.915	1.00	52.55	C
ATOM	5304	C	PRO	H	134	11.174	-12.121	4.902	1.00	52.32	C
ATOM	5305	O	PRO	H	134	10.939	-11.720	3.759	1.00	51.87	O
ATOM	5306	N	LEU	H	135	12.388	-12.158	5.443	1.00	52.14	N
ATOM	5307	CA	LEU	H	135	13.596	-12.021	4.654	1.00	52.42	C
ATOM	5309	CB	LEU	H	135	14.631	-11.190	5.416	1.00	52.10	C
ATOM	5312	CG	LEU	H	135	14.162	-9.791	5.852	1.00	52.50	C
ATOM	5314	CD1	LEU	H	135	15.200	-9.132	6.751	1.00	50.35	C
ATOM	5318	CD2	LEU	H	135	13.847	-8.891	4.653	1.00	51.15	C
ATOM	5322	C	LEU	H	135	14.113	-13.436	4.354	1.00	53.24	C
ATOM	5323	O	LEU	H	135	15.104	-13.885	4.928	1.00	53.43	O
ATOM	5325	N	ALA	H	136	13.420	-14.141	3.460	1.00	53.42	N
ATOM	5326	CA	ALA	H	136	13.774	-15.519	3.110	1.00	53.65	C
ATOM	5328	CB	ALA	H	136	12.647	-16.165	2.289	1.00	53.57	C
ATOM	5332	C	ALA	H	136	15.103	-15.584	2.344	1.00	54.09	C
ATOM	5333	O	ALA	H	136	15.536	-14.579	1.778	1.00	53.45	O
ATOM	5335	N	PRO	H	137	15.758	-16.768	2.329	1.00	54.99	N
ATOM	5336	CA	PRO	H	137	16.987	-16.954	1.540	1.00	54.30	C
ATOM	5338	CB	PRO	H	137	17.382	-18.412	1.832	1.00	54.19	C
ATOM	5341	CG	PRO	H	137	16.133	-19.065	2.312	1.00	55.25	C
ATOM	5344	CD	PRO	H	137	15.397	-17.999	3.062	1.00	54.79	C
ATOM	5347	C	PRO	H	137	16.768	-16.751	0.044	1.00	53.70	C
ATOM	5348	O	PRO	H	137	17.609	-17.150	-0.759	1.00	54.54	O
ATOM	5349	N	LEU	H	149	19.007	-15.644	6.377	1.00	46.99	N
ATOM	5350	CA	LEU	H	149	17.577	-15.368	6.508	1.00	48.77	C
ATOM	5352	CB	LEU	H	149	16.769	-16.672	6.471	1.00	49.04	C
ATOM	5355	CG	LEU	H	149	16.823	-17.619	7.684	1.00	47.39	C
ATOM	5357	CD1	LEU	H	149	15.953	-17.140	8.854	1.00	47.18	C
ATOM	5361	CD2	LEU	H	149	16.415	-19.030	7.269	1.00	47.12	C
ATOM	5365	C	LEU	H	149	17.233	-14.576	7.779	1.00	50.43	C
ATOM	5366	O	LEU	H	149	18.015	-14.548	8.740	1.00	50.30	O
ATOM	5368	N	GLY	H	150	16.045	-13.959	7.777	1.00	51.43	N
ATOM	5369	CA	GLY	H	150	15.605	-13.104	8.880	1.00	51.42	C
ATOM	5372	C	GLY	H	150	14.151	-12.655	8.827	1.00	51.75	C
ATOM	5373	O	GLY	H	150	13.316	-13.295	8.197	1.00	50.93	O
ATOM	5375	N	CYS	H	151	13.878	-11.532	9.496	1.00	53.64	N

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ATOM	5376	CA	CYS	H	151	12.529	-10.982	9.702	1.00	54.19	C
ATOM	5378	CB	CYS	H	151	12.042	-11.333	11.110	1.00	54.88	C
ATOM	5381	SG	CYS	H	151	10.798	-12.603	11.183	1.00	60.09	S
ATOM	5383	C	CYS	H	151	12.527	-9.454	9.593	1.00	54.57	C
ATOM	5384	O	CYS	H	151	13.247	-8.784	10.333	1.00	54.96	O
ATOM	5386	N	LEU	H	152	11.698	-8.898	8.716	1.00	54.14	N
ATOM	5387	CA	LEU	H	152	11.592	-7.444	8.593	1.00	53.95	C
ATOM	5389	CB	LEU	H	152	11.585	-7.039	7.118	1.00	54.15	C
ATOM	5392	CG	LEU	H	152	11.440	-5.543	6.833	1.00	53.66	C
ATOM	5394	CD1	LEU	H	152	12.388	-4.729	7.709	1.00	51.76	C
ATOM	5398	CD2	LEU	H	152	11.674	-5.254	5.360	1.00	52.94	C
ATOM	5402	C	LEU	H	152	10.348	-6.895	9.292	1.00	53.79	C
ATOM	5403	O	LEU	H	152	9.239	-7.018	8.779	1.00	53.53	O
ATOM	5405	N	VAL	H	153	10.547	-6.270	10.450	1.00	54.57	N
ATOM	5406	CA	VAL	H	153	9.450	-5.703	11.249	1.00	54.88	C
ATOM	5408	CB	VAL	H	153	9.752	-5.781	12.777	1.00	55.19	C
ATOM	5410	CG1	VAL	H	153	8.507	-5.449	13.583	1.00	57.25	C
ATOM	5414	CG2	VAL	H	153	10.276	-7.157	13.167	1.00	55.23	C
ATOM	5418	C	VAL	H	153	9.266	-4.237	10.871	1.00	54.80	C
ATOM	5419	O	VAL	H	153	10.080	-3.403	11.257	1.00	55.94	O
ATOM	5421	N	LYS	H	154	8.204	-3.909	10.138	1.00	54.35	N
ATOM	5422	CA	LYS	H	154	8.077	-2.561	9.574	1.00	54.32	C
ATOM	5424	CB	LYS	H	154	7.939	-2.639	8.046	1.00	53.57	C
ATOM	5427	CG	LYS	H	154	8.284	-1.329	7.332	1.00	54.14	C
ATOM	5430	CD	LYS	H	154	8.017	-1.395	5.832	1.00	54.01	C
ATOM	5433	CE	LYS	H	154	7.848	-0.003	5.215	1.00	52.46	C
ATOM	5436	NZ	LYS	H	154	9.110	0.785	5.227	1.00	53.22	N
ATOM	5440	C	LYS	H	154	6.929	-1.729	10.169	1.00	54.37	C
ATOM	5441	O	LYS	H	154	5.906	-2.271	10.591	1.00	53.67	O
ATOM	5443	N	ASP	H	155	7.141	-0.407	10.201	1.00	54.97	N
ATOM	5444	CA	ASP	H	155	6.102	0.610	10.466	1.00	54.72	C
ATOM	5446	CB	ASP	H	155	5.071	0.640	9.319	1.00	55.06	C
ATOM	5449	CG	ASP	H	155	5.623	1.239	8.026	1.00	57.44	C
ATOM	5450	OD1	ASP	H	155	6.609	2.012	8.083	1.00	59.72	O
ATOM	5451	OD2	ASP	H	155	5.054	0.939	6.945	1.00	57.21	O
ATOM	5452	C	ASP	H	155	5.372	0.480	11.812	1.00	54.47	C
ATOM	5453	O	ASP	H	155	4.239	0.007	11.862	1.00	55.92	O
ATOM	5455	N	TYR	H	156	5.999	0.932	12.891	1.00	53.14	N
ATOM	5456	CA	TYR	H	156	5.372	0.832	14.202	1.00	53.82	C
ATOM	5458	CB	TYR	H	156	5.726	-0.512	14.833	1.00	53.59	C
ATOM	5461	CG	TYR	H	156	7.155	-0.623	15.313	1.00	54.20	C
ATOM	5462	CD1	TYR	H	156	8.131	-1.255	14.545	1.00	53.44	C
ATOM	5464	CE1	TYR	H	156	9.444	-1.365	15.002	1.00	53.05	C
ATOM	5466	CZ	TYR	H	156	9.780	-0.833	16.243	1.00	55.08	C
ATOM	5467	OH	TYR	H	156	11.062	-0.918	16.741	1.00	57.00	O
ATOM	5469	CE2	TYR	H	156	8.825	-0.205	17.012	1.00	53.99	C
ATOM	5471	CD2	TYR	H	156	7.527	-0.107	16.549	1.00	55.19	C
ATOM	5473	C	TYR	H	156	5.716	1.986	15.157	1.00	54.11	C
ATOM	5474	O	TYR	H	156	6.721	2.691	14.984	1.00	53.40	O
ATOM	5476	N	PHE	H	157	4.861	2.164	16.165	1.00	54.32	N
ATOM	5477	CA	PHE	H	157	5.008	3.237	17.154	1.00	54.59	C
ATOM	5479	CB	PHE	H	157	4.508	4.556	16.573	1.00	54.71	C
ATOM	5482	CG	PHE	H	157	4.879	5.745	17.387	1.00	52.98	C
ATOM	5483	CD1	PHE	H	157	6.082	6.397	17.169	1.00	53.25	C
ATOM	5485	CE1	PHE	H	157	6.437	7.503	17.922	1.00	55.80	C
ATOM	5487	CZ	PHE	H	157	5.582	7.970	18.925	1.00	55.72	C
ATOM	5489	CE2	PHE	H	157	4.376	7.325	19.147	1.00	56.54	C
ATOM	5491	CD2	PHE	H	157	4.032	6.213	18.374	1.00	55.21	C
ATOM	5493	C	PHE	H	157	4.225	2.926	18.432	1.00	54.76	C
ATOM	5494	O	PHE	H	157	3.140	2.351	18.375	1.00	55.93	O
ATOM	5496	N	PRO	H	158	4.784	3.266	19.598	1.00	55.16	N
ATOM	5497	CA	PRO	H	158	6.124	3.745	19.872	1.00	55.88	C
ATOM	5499	CB	PRO	H	158	5.985	4.360	21.268	1.00	55.39	C

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ATOM	5502	CG	PRO	H	158	4.988	3.528	21.915	1.00	54.26	C
ATOM	5505	CD	PRO	H	158	4.000	3.155	20.841	1.00	56.33	C
ATOM	5508	C	PRO	H	158	7.076	2.564	19.916	1.00	56.55	C
ATOM	5509	O	PRO	H	158	6.733	1.480	19.454	1.00	56.07	O
ATOM	5510	N	GLU	H	159	8.268	2.782	20.457	1.00	56.52	N
ATOM	5511	CA	GLU	H	159	9.156	1.689	20.798	1.00	55.94	C
ATOM	5513	CB	GLU	H	159	10.574	2.224	21.030	1.00	56.82	C
ATOM	5516	CG	GLU	H	159	11.320	2.633	19.770	1.00	56.39	C
ATOM	5519	CD	GLU	H	159	12.266	1.559	19.284	1.00	60.65	C
ATOM	5520	OE1	GLU	H	159	13.453	1.884	19.064	1.00	62.67	O
ATOM	5521	OE2	GLU	H	159	11.832	0.391	19.139	1.00	63.04	O
ATOM	5522	C	GLU	H	159	8.593	1.061	22.073	1.00	55.33	C
ATOM	5523	O	GLU	H	159	7.690	1.635	22.686	1.00	55.74	O
ATOM	5525	N	PRO	H	160	9.098	-0.125	22.467	1.00	53.85	N
ATOM	5526	CA	PRO	H	160	10.004	-1.007	21.746	1.00	52.78	C
ATOM	5528	CB	PRO	H	160	10.924	-1.496	22.858	1.00	52.15	C
ATOM	5531	CG	PRO	H	160	10.013	-1.591	24.054	1.00	52.29	C
ATOM	5534	CD	PRO	H	160	8.825	-0.668	23.810	1.00	53.50	C
ATOM	5537	C	PRO	H	160	9.298	-2.204	21.123	1.00	52.45	C
ATOM	5538	O	PRO	H	160	8.115	-2.454	21.391	1.00	51.11	O
ATOM	5539	N	VAL	H	161	10.041	-2.930	20.294	1.00	52.65	N
ATOM	5540	CA	VAL	H	161	9.637	-4.244	19.803	1.00	52.85	C
ATOM	5542	CB	VAL	H	161	9.481	-4.254	18.265	1.00	53.15	C
ATOM	5544	CG1	VAL	H	161	9.358	-5.673	17.732	1.00	54.39	C
ATOM	5548	CG2	VAL	H	161	8.278	-3.433	17.846	1.00	54.62	C
ATOM	5552	C	VAL	H	161	10.744	-5.208	20.191	1.00	53.06	C
ATOM	5553	O	VAL	H	161	11.919	-4.851	20.132	1.00	54.73	O
ATOM	5555	N	THR	H	162	10.378	-6.421	20.589	1.00	52.31	N
ATOM	5556	CA	THR	H	162	11.365	-7.453	20.858	1.00	52.49	C
ATOM	5558	CB	THR	H	162	11.239	-7.974	22.277	1.00	52.92	C
ATOM	5560	OG1	THR	H	162	9.893	-8.409	22.503	1.00	56.03	O
ATOM	5562	CG2	THR	H	162	11.589	-6.881	23.266	1.00	52.72	C
ATOM	5566	C	THR	H	162	11.172	-8.598	19.884	1.00	52.24	C
ATOM	5567	O	THR	H	162	10.049	-8.861	19.448	1.00	51.87	O
ATOM	5569	N	VAL	H	163	12.276	-9.262	19.544	1.00	52.59	N
ATOM	5570	CA	VAL	H	163	12.278	-10.397	18.611	1.00	52.64	C
ATOM	5572	CB	VAL	H	163	12.914	-10.023	17.259	1.00	51.61	C
ATOM	5574	CG1	VAL	H	163	12.349	-10.910	16.156	1.00	52.12	C
ATOM	5578	CG2	VAL	H	163	12.684	-8.561	16.934	1.00	51.50	C
ATOM	5582	C	VAL	H	163	13.077	-11.570	19.180	1.00	52.73	C
ATOM	5583	O	VAL	H	163	14.023	-11.370	19.935	1.00	52.59	O
ATOM	5585	N	SER	H	164	12.706	-12.789	18.809	1.00	53.15	N
ATOM	5586	CA	SER	H	164	13.407	-13.981	19.292	1.00	53.63	C
ATOM	5588	CB	SER	H	164	12.991	-14.308	20.726	1.00	54.08	C
ATOM	5591	OG	SER	H	164	11.600	-14.575	20.804	1.00	54.40	O
ATOM	5593	C	SER	H	164	13.068	-15.151	18.399	1.00	53.97	C
ATOM	5594	O	SER	H	164	11.940	-15.246	17.925	1.00	55.13	O
ATOM	5596	N	TRP	H	165	14.028	-16.048	18.187	1.00	54.13	N
ATOM	5597	CA	TRP	H	165	13.863	-17.128	17.209	1.00	54.37	C
ATOM	5599	CB	TRP	H	165	15.104	-17.243	16.319	1.00	53.74	C
ATOM	5602	CG	TRP	H	165	15.227	-16.085	15.383	1.00	52.17	C
ATOM	5603	CD1	TRP	H	165	15.778	-14.864	15.653	1.00	50.28	C
ATOM	5605	NE1	TRP	H	165	15.692	-14.053	14.549	1.00	51.40	N
ATOM	5607	CE2	TRP	H	165	15.070	-14.740	13.538	1.00	52.68	C
ATOM	5608	CD2	TRP	H	165	14.758	-16.025	14.031	1.00	53.23	C
ATOM	5609	CE3	TRP	H	165	14.113	-16.937	13.183	1.00	52.56	C
ATOM	5611	CZ3	TRP	H	165	13.805	-16.537	11.880	1.00	51.23	C
ATOM	5613	CH2	TRP	H	165	14.124	-15.251	11.424	1.00	51.34	C
ATOM	5615	CZ2	TRP	H	165	14.756	-14.342	12.232	1.00	51.54	C
ATOM	5617	C	TRP	H	165	13.559	-18.450	17.886	1.00	54.67	C
ATOM	5618	O	TRP	H	165	14.261	-18.855	18.814	1.00	55.34	O
ATOM	5620	N	ASN	H	166	12.503	-19.108	17.414	1.00	54.61	N
ATOM	5621	CA	ASN	H	166	12.048	-20.369	17.985	1.00	55.19	C

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ATOM	5623	CB	ASN	H	166	13.069	-21.484	17.723	1.00	55.05	C
ATOM	5626	CG	ASN	H	166	13.551	-21.508	16.286	1.00	55.74	C
ATOM	5627	OD1	ASN	H	166	13.259	-20.600	15.503	1.00	57.20	O
ATOM	5628	ND2	ASN	H	166	14.304	-22.545	15.933	1.00	54.79	N
ATOM	5631	C	ASN	H	166	11.774	-20.231	19.479	1.00	55.45	C
ATOM	5632	O	ASN	H	166	12.207	-21.058	20.276	1.00	56.31	O
ATOM	5634	N	SER	H	167	11.070	-19.162	19.843	1.00	56.10	N
ATOM	5635	CA	SER	H	167	10.640	-18.914	21.225	1.00	56.38	C
ATOM	5637	CB	SER	H	167	9.587	-19.947	21.633	1.00	56.14	C
ATOM	5640	OG	SER	H	167	8.594	-20.058	20.628	1.00	58.09	O
ATOM	5642	C	SER	H	167	11.787	-18.884	22.242	1.00	56.39	C
ATOM	5643	O	SER	H	167	11.624	-19.324	23.379	1.00	56.24	O
ATOM	5645	N	GLY	H	168	12.935	-18.349	21.827	1.00	56.67	N
ATOM	5646	CA	GLY	H	168	14.110	-18.236	22.696	1.00	56.47	C
ATOM	5649	C	GLY	H	168	15.189	-19.290	22.472	1.00	56.51	C
ATOM	5650	O	GLY	H	168	16.337	-19.085	22.879	1.00	56.55	O
ATOM	5652	N	ALA	H	169	14.836	-20.399	21.811	1.00	56.03	N
ATOM	5653	CA	ALA	H	169	15.723	-21.579	21.688	1.00	55.57	C
ATOM	5655	CB	ALA	H	169	14.903	-22.822	21.329	1.00	54.96	C
ATOM	5659	C	ALA	H	169	16.880	-21.424	20.697	1.00	55.09	C
ATOM	5660	O	ALA	H	169	17.771	-22.269	20.654	1.00	54.27	O
ATOM	5662	N	LEU	H	170	16.850	-20.359	19.900	1.00	54.95	N
ATOM	5663	CA	LEU	H	170	17.897	-20.063	18.927	1.00	54.71	C
ATOM	5665	CB	LEU	H	170	17.330	-20.216	17.510	1.00	54.56	C
ATOM	5668	CG	LEU	H	170	18.010	-19.512	16.328	1.00	55.49	C
ATOM	5670	CD1	LEU	H	170	19.522	-19.754	16.291	1.00	56.23	C
ATOM	5674	CD2	LEU	H	170	17.354	-19.965	15.031	1.00	55.06	C
ATOM	5678	C	LEU	H	170	18.408	-18.640	19.166	1.00	54.84	C
ATOM	5679	O	LEU	H	170	17.719	-17.669	18.836	1.00	55.29	O
ATOM	5681	N	THR	H	171	19.606	-18.519	19.740	1.00	54.01	N
ATOM	5682	CA	THR	H	171	20.159	-17.211	20.120	1.00	53.50	C
ATOM	5684	CB	THR	H	171	20.488	-17.149	21.617	1.00	53.39	C
ATOM	5686	OG1	THR	H	171	21.473	-18.142	21.930	1.00	53.51	O
ATOM	5688	CG2	THR	H	171	19.228	-17.355	22.465	1.00	52.71	C
ATOM	5692	C	THR	H	171	21.433	-16.842	19.377	1.00	52.81	C
ATOM	5693	O	THR	H	171	21.532	-15.747	18.843	1.00	51.22	O
ATOM	5695	N	SER	H	172	22.410	-17.745	19.367	1.00	53.12	N
ATOM	5696	CA	SER	H	172	23.724	-17.446	18.787	1.00	53.23	C
ATOM	5698	CB	SER	H	172	24.791	-18.436	19.288	1.00	53.49	C
ATOM	5701	OG	SER	H	172	24.888	-19.583	18.459	1.00	53.14	O
ATOM	5703	C	SER	H	172	23.662	-17.425	17.251	1.00	53.04	C
ATOM	5704	O	SER	H	172	23.128	-18.347	16.622	1.00	52.57	O
ATOM	5706	N	GLY	H	173	24.219	-16.369	16.662	1.00	52.83	N
ATOM	5707	CA	GLY	H	173	24.089	-16.111	15.231	1.00	53.02	C
ATOM	5710	C	GLY	H	173	23.077	-15.012	14.956	1.00	53.10	C
ATOM	5711	O	GLY	H	173	23.185	-14.303	13.961	1.00	52.33	O
ATOM	5713	N	VAL	H	174	22.090	-14.872	15.839	1.00	53.83	N
ATOM	5714	CA	VAL	H	174	21.074	-13.829	15.703	1.00	54.56	C
ATOM	5716	CB	VAL	H	174	19.909	-14.004	16.720	1.00	54.65	C
ATOM	5718	CG1	VAL	H	174	18.953	-12.816	16.674	1.00	53.10	C
ATOM	5722	CG2	VAL	H	174	19.154	-15.302	16.457	1.00	56.10	C
ATOM	5726	C	VAL	H	174	21.691	-12.454	15.922	1.00	55.19	C
ATOM	5727	O	VAL	H	174	22.483	-12.263	16.848	1.00	54.90	O
ATOM	5729	N	HIS	H	175	21.318	-11.517	15.049	1.00	55.07	N
ATOM	5730	CA	HIS	H	175	21.626	-10.101	15.204	1.00	53.78	C
ATOM	5732	CB	HIS	H	175	22.630	-9.647	14.146	1.00	55.18	C
ATOM	5735	CG	HIS	H	175	24.013	-10.175	14.355	1.00	56.38	C
ATOM	5736	ND1	HIS	H	175	24.871	-9.660	15.303	1.00	56.74	N
ATOM	5738	CE1	HIS	H	175	26.018	-10.312	15.253	1.00	58.40	C
ATOM	5740	NE2	HIS	H	175	25.936	-11.228	14.304	1.00	58.07	N
ATOM	5742	CD2	HIS	H	175	24.693	-11.162	13.725	1.00	55.44	C
ATOM	5744	C	HIS	H	175	20.344	-9.310	15.025	1.00	52.26	C
ATOM	5745	O	HIS	H	175	19.908	-9.074	13.896	1.00	52.01	O

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ATOM	5747	N	THR	H	176	19.726	-8.919	16.131	1.00	50.96	N
ATOM	5748	CA	THR	H	176	18.593	-8.005	16.071	1.00	50.96	C
ATOM	5750	CB	THR	H	176	17.641	-8.207	17.247	1.00	50.09	C
ATOM	5752	OG1	THR	H	176	17.200	-9.569	17.260	1.00	49.15	O
ATOM	5754	CG2	THR	H	176	16.435	-7.272	17.144	1.00	48.81	C
ATOM	5758	C	THR	H	176	19.140	-6.584	16.058	1.00	50.24	C
ATOM	5759	O	THR	H	176	19.942	-6.218	16.923	1.00	49.54	O
ATOM	5761	N	PHE	H	177	18.721	-5.798	15.066	1.00	50.40	N
ATOM	5762	CA	PHE	H	177	19.301	-4.472	14.839	1.00	50.56	C
ATOM	5764	CB	PHE	H	177	19.302	-4.126	13.352	1.00	49.81	C
ATOM	5767	CG	PHE	H	177	20.236	-4.974	12.534	1.00	48.87	C
ATOM	5768	CD1	PHE	H	177	19.775	-6.109	11.876	1.00	47.29	C
ATOM	5770	CE1	PHE	H	177	20.640	-6.896	11.125	1.00	49.15	C
ATOM	5772	CZ	PHE	H	177	21.986	-6.545	11.015	1.00	48.85	C
ATOM	5774	CE2	PHE	H	177	22.456	-5.409	11.661	1.00	49.17	C
ATOM	5776	CD2	PHE	H	177	21.583	-4.632	12.418	1.00	49.41	C
ATOM	5778	C	PHE	H	177	18.556	-3.395	15.602	1.00	50.98	C
ATOM	5779	O	PHE	H	177	17.347	-3.500	15.792	1.00	51.24	O
ATOM	5781	N	PRO	H	178	19.281	-2.353	16.050	1.00	52.21	N
ATOM	5782	CA	PRO	H	178	18.612	-1.172	16.589	1.00	51.10	C
ATOM	5784	CB	PRO	H	178	19.745	-0.146	16.741	1.00	50.08	C
ATOM	5787	CG	PRO	H	178	20.984	-0.911	16.801	1.00	50.78	C
ATOM	5790	CD	PRO	H	178	20.752	-2.225	16.087	1.00	52.81	C
ATOM	5793	C	PRO	H	178	17.586	-0.657	15.596	1.00	51.37	C
ATOM	5794	O	PRO	H	178	17.849	-0.631	14.392	1.00	53.28	O
ATOM	5795	N	ALA	H	179	16.425	-0.260	16.092	1.00	51.75	N
ATOM	5796	CA	ALA	H	179	15.386	0.271	15.230	1.00	52.20	C
ATOM	5798	CB	ALA	H	179	14.126	0.544	16.021	1.00	53.05	C
ATOM	5802	C	ALA	H	179	15.853	1.541	14.541	1.00	52.48	C
ATOM	5803	O	ALA	H	179	16.837	2.172	14.949	1.00	50.37	O
ATOM	5805	N	VAL	H	180	15.137	1.893	13.481	1.00	52.84	N
ATOM	5806	CA	VAL	H	180	15.411	3.103	12.739	1.00	53.15	C
ATOM	5808	CB	VAL	H	180	16.018	2.787	11.373	1.00	52.57	C
ATOM	5810	CG1	VAL	H	180	16.049	4.022	10.507	1.00	53.76	C
ATOM	5814	CG2	VAL	H	180	17.418	2.223	11.543	1.00	54.03	C
ATOM	5818	C	VAL	H	180	14.125	3.893	12.578	1.00	52.96	C
ATOM	5819	O	VAL	H	180	13.071	3.338	12.301	1.00	53.63	O
ATOM	5821	N	LEU	H	181	14.234	5.200	12.752	1.00	53.47	N
ATOM	5822	CA	LEU	H	181	13.091	6.078	12.664	1.00	54.62	C
ATOM	5824	CB	LEU	H	181	13.286	7.260	13.606	1.00	53.92	C
ATOM	5827	CG	LEU	H	181	12.173	8.295	13.667	1.00	53.57	C
ATOM	5829	CD1	LEU	H	181	10.804	7.646	13.619	1.00	56.77	C
ATOM	5833	CD2	LEU	H	181	12.330	9.105	14.930	1.00	54.91	C
ATOM	5837	C	LEU	H	181	12.908	6.546	11.228	1.00	55.19	C
ATOM	5838	O	LEU	H	181	13.681	7.361	10.721	1.00	55.15	O
ATOM	5840	N	GLN	H	182	11.892	6.006	10.567	1.00	56.48	N
ATOM	5841	CA	GLN	H	182	11.571	6.408	9.198	1.00	57.31	C
ATOM	5843	CB	GLN	H	182	10.562	5.436	8.568	1.00	56.69	C
ATOM	5846	CG	GLN	H	182	11.143	4.041	8.305	1.00	56.48	C
ATOM	5849	CD	GLN	H	182	10.089	2.935	8.250	1.00	59.11	C
ATOM	5850	OE1	GLN	H	182	9.146	2.918	9.044	1.00	64.81	O
ATOM	5851	NE2	GLN	H	182	10.265	1.990	7.329	1.00	55.62	N
ATOM	5854	C	GLN	H	182	11.032	7.842	9.200	1.00	58.24	C
ATOM	5855	O	GLN	H	182	10.706	8.391	10.263	1.00	57.97	O
ATOM	5857	N	SER	H	183	10.957	8.454	8.020	1.00	57.77	N
ATOM	5858	CA	SER	H	183	10.542	9.852	7.924	1.00	57.23	C
ATOM	5860	CB	SER	H	183	10.719	10.378	6.511	1.00	55.75	C
ATOM	5863	OG	SER	H	183	9.603	10.023	5.738	1.00	57.78	O
ATOM	5865	C	SER	H	183	9.090	9.993	8.347	1.00	57.27	C
ATOM	5866	O	SER	H	183	8.704	10.997	8.938	1.00	59.06	O
ATOM	5868	N	SER	H	184	8.303	8.962	8.059	1.00	57.26	N
ATOM	5869	CA	SER	H	184	6.907	8.872	8.487	1.00	57.21	C
ATOM	5871	CB	SER	H	184	6.339	7.542	8.015	1.00	57.40	C

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ATOM	5874	OG	SER	H	184	7.181	6.483	8.434	1.00	57.06	O
ATOM	5876	C	SER	H	184	6.684	8.964	10.001	1.00	57.94	C
ATOM	5877	O	SER	H	184	5.545	9.107	10.446	1.00	58.79	O
ATOM	5879	N	GLY	H	185	7.750	8.854	10.793	1.00	57.97	N
ATOM	5880	CA	GLY	H	185	7.628	8.854	12.252	1.00	57.40	C
ATOM	5883	C	GLY	H	185	7.417	7.461	12.829	1.00	57.11	C
ATOM	5884	O	GLY	H	185	7.483	7.265	14.039	1.00	58.00	O
ATOM	5886	N	LEU	H	186	7.154	6.490	11.964	1.00	57.04	N
ATOM	5887	CA	LEU	H	186	7.085	5.105	12.372	1.00	56.45	C
ATOM	5889	CB	LEU	H	186	6.257	4.300	11.376	1.00	55.19	C
ATOM	5892	CG	LEU	H	186	4.829	4.795	11.146	1.00	53.58	C
ATOM	5894	CD1	LEU	H	186	4.129	3.972	10.075	1.00	53.03	C
ATOM	5898	CD2	LEU	H	186	4.039	4.755	12.446	1.00	54.82	C
ATOM	5902	C	LEU	H	186	8.499	4.554	12.438	1.00	56.74	C
ATOM	5903	O	LEU	H	186	9.391	5.013	11.723	1.00	55.76	O
ATOM	5905	N	TYR	H	187	8.697	3.580	13.318	1.00	57.41	N
ATOM	5906	CA	TYR	H	187	9.970	2.886	13.424	1.00	57.88	C
ATOM	5908	CB	TYR	H	187	10.238	2.471	14.868	1.00	59.35	C
ATOM	5911	CG	TYR	H	187	10.617	3.620	15.767	1.00	62.62	C
ATOM	5912	CD1	TYR	H	187	11.901	4.153	15.731	1.00	63.67	C
ATOM	5914	CE1	TYR	H	187	12.260	5.210	16.559	1.00	62.88	C
ATOM	5916	CZ	TYR	H	187	11.333	5.743	17.431	1.00	60.29	C
ATOM	5917	OH	TYR	H	187	11.712	6.786	18.234	1.00	62.21	O
ATOM	5919	CE2	TYR	H	187	10.048	5.236	17.490	1.00	60.31	C
ATOM	5921	CD2	TYR	H	187	9.695	4.178	16.662	1.00	63.69	C
ATOM	5923	C	TYR	H	187	9.958	1.648	12.548	1.00	58.14	C
ATOM	5924	O	TYR	H	187	8.899	1.185	12.130	1.00	59.34	O
ATOM	5926	N	SER	H	188	11.145	1.115	12.285	1.00	57.39	N
ATOM	5927	CA	SER	H	188	11.293	-0.161	11.611	1.00	56.96	C
ATOM	5929	CB	SER	H	188	11.241	0.037	10.108	1.00	57.73	C
ATOM	5932	OG	SER	H	188	11.937	-1.002	9.451	1.00	60.59	O
ATOM	5934	C	SER	H	188	12.618	-0.788	12.003	1.00	56.89	C
ATOM	5935	O	SER	H	188	13.582	-0.075	12.283	1.00	58.30	O
ATOM	5937	N	LEU	H	189	12.659	-2.118	12.033	1.00	55.93	N
ATOM	5938	CA	LEU	H	189	13.890	-2.850	12.336	1.00	56.36	C
ATOM	5940	CB	LEU	H	189	14.096	-2.967	13.855	1.00	56.13	C
ATOM	5943	CG	LEU	H	189	13.239	-3.899	14.722	1.00	55.37	C
ATOM	5945	CD1	LEU	H	189	13.532	-5.378	14.521	1.00	55.17	C
ATOM	5949	CD2	LEU	H	189	13.455	-3.554	16.182	1.00	56.81	C
ATOM	5953	C	LEU	H	189	13.931	-4.236	11.680	1.00	57.58	C
ATOM	5954	O	LEU	H	189	12.971	-4.670	11.035	1.00	59.39	O
ATOM	5956	N	SER	H	190	15.060	-4.920	11.843	1.00	57.17	N
ATOM	5957	CA	SER	H	190	15.222	-6.278	11.341	1.00	55.83	C
ATOM	5959	CB	SER	H	190	16.051	-6.275	10.057	1.00	55.58	C
ATOM	5962	OG	SER	H	190	15.542	-5.322	9.144	1.00	55.88	O
ATOM	5964	C	SER	H	190	15.904	-7.144	12.381	1.00	55.29	C
ATOM	5965	O	SER	H	190	16.632	-6.650	13.245	1.00	55.43	O
ATOM	5967	N	SER	H	191	15.647	-8.440	12.299	1.00	55.26	N
ATOM	5968	CA	SER	H	191	16.392	-9.420	13.062	1.00	55.03	C
ATOM	5970	CB	SER	H	191	15.520	-10.066	14.127	1.00	54.46	C
ATOM	5973	OG	SER	H	191	16.321	-10.813	15.017	1.00	51.63	O
ATOM	5975	C	SER	H	191	16.914	-10.470	12.098	1.00	55.74	C
ATOM	5976	O	SER	H	191	16.236	-10.831	11.132	1.00	55.17	O
ATOM	5978	N	VAL	H	192	18.112	-10.969	12.380	1.00	56.08	N
ATOM	5979	CA	VAL	H	192	18.844	-11.790	11.430	1.00	54.96	C
ATOM	5981	CB	VAL	H	192	19.663	-10.854	10.508	1.00	53.98	C
ATOM	5983	CG1	VAL	H	192	21.127	-11.276	10.402	1.00	53.64	C
ATOM	5987	CG2	VAL	H	192	18.999	-10.750	9.140	1.00	53.30	C
ATOM	5991	C	VAL	H	192	19.711	-12.838	12.138	1.00	55.11	C
ATOM	5992	O	VAL	H	192	19.478	-14.047	12.017	1.00	55.73	O
ATOM	5994	N	CYS	H	207	10.632	-17.018	14.378	1.00	55.43	N
ATOM	5995	CA	CYS	H	207	10.729	-15.566	14.521	1.00	56.24	C
ATOM	5997	CB	CYS	H	207	10.796	-14.899	13.152	1.00	56.42	C

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ATOM	6000	SG	CYS	H	207	10.656	-13.085	13.167	1.00	57.75	S
ATOM	6002	C	CYS	H	207	9.539	-15.008	15.285	1.00	56.52	C
ATOM	6003	O	CYS	H	207	8.453	-14.868	14.723	1.00	56.56	O
ATOM	6005	N	ASN	H	208	9.761	-14.676	16.557	1.00	57.08	N
ATOM	6006	CA	ASN	H	208	8.695	-14.254	17.472	1.00	56.60	C
ATOM	6008	CB	ASN	H	208	8.783	-15.025	18.791	1.00	55.66	C
ATOM	6011	CG	ASN	H	208	8.787	-16.517	18.592	1.00	53.76	C
ATOM	6012	OD1	ASN	H	208	9.796	-17.178	18.823	1.00	51.70	O
ATOM	6013	ND2	ASN	H	208	7.663	-17.058	18.149	1.00	49.89	N
ATOM	6016	C	ASN	H	208	8.767	-12.765	17.762	1.00	56.85	C
ATOM	6017	O	ASN	H	208	9.413	-12.339	18.721	1.00	57.67	O
ATOM	6019	N	VAL	H	209	8.105	-11.976	16.924	1.00	56.05	N
ATOM	6020	CA	VAL	H	209	8.006	-10.541	17.149	1.00	56.06	C
ATOM	6022	CB	VAL	H	209	7.655	-9.797	15.837	1.00	55.08	C
ATOM	6024	CG1	VAL	H	209	7.410	-8.313	16.086	1.00	54.24	C
ATOM	6028	CG2	VAL	H	209	8.772	-9.984	14.815	1.00	54.17	C
ATOM	6032	C	VAL	H	209	6.969	-10.285	18.251	1.00	56.23	C
ATOM	6033	O	VAL	H	209	6.042	-11.074	18.438	1.00	56.87	O
ATOM	6035	N	ASN	H	210	7.151	-9.198	18.994	1.00	56.35	N
ATOM	6036	CA	ASN	H	210	6.243	-8.837	20.071	1.00	56.02	C
ATOM	6038	CB	ASN	H	210	6.656	-9.595	21.332	1.00	56.52	C
ATOM	6041	CG	ASN	H	210	5.617	-9.532	22.429	1.00	57.82	C
ATOM	6042	OD1	ASN	H	210	4.434	-9.302	22.179	1.00	62.49	O
ATOM	6043	ND2	ASN	H	210	6.058	-9.751	23.661	1.00	60.77	N
ATOM	6046	C	ASN	H	210	6.277	-7.322	20.302	1.00	55.82	C
ATOM	6047	O	ASN	H	210	7.320	-6.780	20.665	1.00	56.48	O
ATOM	6049	N	HIS	H	211	5.155	-6.644	20.049	1.00	55.43	N
ATOM	6050	CA	HIS	H	211	5.041	-5.189	20.237	1.00	55.23	C
ATOM	6052	CB	HIS	H	211	4.803	-4.472	18.910	1.00	55.50	C
ATOM	6055	CG	HIS	H	211	4.696	-2.978	19.031	1.00	56.91	C
ATOM	6056	ND1	HIS	H	211	5.665	-2.209	19.639	1.00	58.04	N
ATOM	6058	CE1	HIS	H	211	5.311	-0.937	19.588	1.00	55.70	C
ATOM	6060	NE2	HIS	H	211	4.151	-0.848	18.962	1.00	55.60	N
ATOM	6062	CD2	HIS	H	211	3.747	-2.110	18.601	1.00	57.37	C
ATOM	6064	C	HIS	H	211	3.892	-4.899	21.180	1.00	55.66	C
ATOM	6065	O	HIS	H	211	2.745	-4.762	20.760	1.00	56.02	O
ATOM	6067	N	LYS	H	212	4.214	-4.792	22.462	1.00	56.17	N
ATOM	6068	CA	LYS	H	212	3.198	-4.730	23.507	1.00	55.44	C
ATOM	6070	CB	LYS	H	212	3.837	-4.961	24.880	1.00	55.30	C
ATOM	6073	CG	LYS	H	212	4.241	-6.417	25.068	1.00	56.91	C
ATOM	6076	CD	LYS	H	212	5.050	-6.679	26.329	1.00	57.02	C
ATOM	6079	CE	LYS	H	212	5.528	-8.128	26.343	1.00	57.36	C
ATOM	6082	NZ	LYS	H	212	5.745	-8.644	27.711	1.00	58.76	N
ATOM	6086	C	LYS	H	212	2.332	-3.470	23.496	1.00	54.93	C
ATOM	6087	O	LYS	H	212	1.142	-3.559	23.786	1.00	56.04	O
ATOM	6089	N	PRO	H	213	2.902	-2.300	23.148	1.00	54.30	N
ATOM	6090	CA	PRO	H	213	2.045	-1.103	23.109	1.00	53.96	C
ATOM	6092	CB	PRO	H	213	2.941	-0.045	22.453	1.00	52.86	C
ATOM	6095	CG	PRO	H	213	4.322	-0.486	22.782	1.00	53.71	C
ATOM	6098	CD	PRO	H	213	4.298	-1.985	22.793	1.00	53.61	C
ATOM	6101	C	PRO	H	213	0.756	-1.308	22.305	1.00	53.55	C
ATOM	6102	O	PRO	H	213	-0.318	-0.951	22.784	1.00	53.75	O
ATOM	6103	N	SER	H	214	0.877	-1.894	21.111	1.00	52.97	N
ATOM	6104	CA	SER	H	214	-0.274	-2.218	20.260	1.00	52.11	C
ATOM	6106	CB	SER	H	214	0.141	-2.171	18.787	1.00	51.61	C
ATOM	6109	OG	SER	H	214	0.941	-3.290	18.451	1.00	48.22	O
ATOM	6111	C	SER	H	214	-0.871	-3.602	20.576	1.00	51.53	C
ATOM	6112	O	SER	H	214	-1.894	-3.988	20.003	1.00	49.67	O
ATOM	6114	N	ASN	H	215	-0.219	-4.333	21.482	1.00	50.52	N
ATOM	6115	CA	ASN	H	215	-0.587	-5.697	21.824	1.00	50.79	C
ATOM	6117	CB	ASN	H	215	-1.947	-5.724	22.530	1.00	50.96	C
ATOM	6120	CG	ASN	H	215	-2.207	-7.030	23.260	1.00	49.61	C
ATOM	6121	OD1	ASN	H	215	-1.329	-7.563	23.943	1.00	43.81	O

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ATOM	6122	ND2	ASN	H	215	-3.418	-7.549	23.118	1.00	44.87	N
ATOM	6125	C	ASN	H	215	-0.566	-6.596	20.584	1.00	50.66	C
ATOM	6126	O	ASN	H	215	-1.523	-7.311	20.291	1.00	49.48	O
ATOM	6128	N	THR	H	216	0.546	-6.534	19.858	1.00	51.75	N
ATOM	6129	CA	THR	H	216	0.783	-7.383	18.695	1.00	52.28	C
ATOM	6131	CB	THR	H	216	1.427	-6.596	17.533	1.00	52.32	C
ATOM	6133	OG1	THR	H	216	0.564	-5.525	17.130	1.00	54.18	O
ATOM	6135	CG2	THR	H	216	1.688	-7.504	16.338	1.00	50.91	C
ATOM	6139	C	THR	H	216	1.734	-8.503	19.088	1.00	53.09	C
ATOM	6140	O	THR	H	216	2.838	-8.253	19.579	1.00	54.22	O
ATOM	6142	N	LYS	H	217	1.291	-9.736	18.882	1.00	53.84	N
ATOM	6143	CA	LYS	H	217	2.140	-10.900	19.049	1.00	53.18	C
ATOM	6145	CB	LYS	H	217	1.735	-11.689	20.301	1.00	54.58	C
ATOM	6148	CG	LYS	H	217	2.588	-12.925	20.601	1.00	56.14	C
ATOM	6151	CD	LYS	H	217	4.077	-12.657	20.389	1.00	59.75	C
ATOM	6154	CE	LYS	H	217	4.965	-13.729	21.000	1.00	59.59	C
ATOM	6157	NZ	LYS	H	217	6.397	-13.496	20.640	1.00	57.35	N
ATOM	6161	C	LYS	H	217	1.989	-11.748	17.798	1.00	52.45	C
ATOM	6162	O	LYS	H	217	0.918	-12.300	17.550	1.00	52.10	O
ATOM	6164	N	VAL	H	218	3.059	-11.833	17.012	1.00	50.92	N
ATOM	6165	CA	VAL	H	218	3.043	-12.569	15.753	1.00	51.32	C
ATOM	6167	CB	VAL	H	218	2.928	-11.605	14.542	1.00	51.04	C
ATOM	6169	CG1	VAL	H	218	3.798	-10.388	14.743	1.00	53.14	C
ATOM	6173	CG2	VAL	H	218	3.278	-12.301	13.223	1.00	50.80	C
ATOM	6177	C	VAL	H	218	4.287	-13.452	15.637	1.00	51.09	C
ATOM	6178	O	VAL	H	218	5.373	-13.061	16.067	1.00	50.45	O
ATOM	6180	N	ASP	H	219	4.101	-14.645	15.062	1.00	51.30	N
ATOM	6181	CA	ASP	H	219	5.170	-15.634	14.887	1.00	51.12	C
ATOM	6183	CB	ASP	H	219	4.891	-16.894	15.734	1.00	51.20	C
ATOM	6186	CG	ASP	H	219	4.837	-16.610	17.252	1.00	51.57	C
ATOM	6187	OD1	ASP	H	219	5.390	-15.582	17.706	1.00	51.74	O
ATOM	6188	OD2	ASP	H	219	4.251	-17.434	17.998	1.00	47.82	O
ATOM	6189	C	ASP	H	219	5.293	-16.020	13.409	1.00	50.40	C
ATOM	6190	O	ASP	H	219	6.351	-15.865	12.791	1.00	48.83	O
ATOM	6192	N	ASP	A	1	-34.411	-5.350	50.267	1.00	62.89	N
ATOM	6193	CA	ASP	A	1	-33.058	-5.496	49.658	1.00	62.67	C
ATOM	6195	CB	ASP	A	1	-33.165	-5.591	48.131	1.00	63.84	C
ATOM	6198	CG	ASP	A	1	-34.000	-6.776	47.659	1.00	67.09	C
ATOM	6199	OD1	ASP	A	1	-34.688	-7.402	48.504	1.00	66.69	O
ATOM	6200	OD2	ASP	A	1	-33.971	-7.068	46.432	1.00	65.56	O
ATOM	6201	C	ASP	A	1	-32.150	-4.313	49.999	1.00	61.98	C
ATOM	6202	O	ASP	A	1	-32.607	-3.283	50.484	1.00	61.81	O
ATOM	6206	N	ILE	A	2	-30.855	-4.493	49.766	1.00	60.61	N
ATOM	6207	CA	ILE	A	2	-29.931	-3.385	49.582	1.00	59.42	C
ATOM	6209	CB	ILE	A	2	-28.597	-3.603	50.327	1.00	58.74	C
ATOM	6211	CG1	ILE	A	2	-28.849	-3.911	51.803	1.00	60.40	C
ATOM	6214	CD1	ILE	A	2	-27.599	-3.849	52.685	1.00	61.03	C
ATOM	6218	CG2	ILE	A	2	-27.723	-2.376	50.230	1.00	59.49	C
ATOM	6222	C	ILE	A	2	-29.693	-3.318	48.077	1.00	58.25	C
ATOM	6223	O	ILE	A	2	-29.661	-4.351	47.403	1.00	57.52	O
ATOM	6225	N	VAL	A	3	-29.548	-2.107	47.549	1.00	57.16	N
ATOM	6226	CA	VAL	A	3	-29.382	-1.901	46.112	1.00	56.68	C
ATOM	6228	CB	VAL	A	3	-30.429	-0.887	45.575	1.00	55.38	C
ATOM	6230	CG1	VAL	A	3	-29.871	0.533	45.508	1.00	58.42	C
ATOM	6234	CG2	VAL	A	3	-30.923	-1.313	44.218	1.00	54.30	C
ATOM	6238	C	VAL	A	3	-27.939	-1.469	45.805	1.00	56.42	C
ATOM	6239	O	VAL	A	3	-27.361	-0.677	46.544	1.00	56.80	O
ATOM	6241	N	MET	A	4	-27.366	-2.015	44.730	1.00	55.69	N
ATOM	6242	CA	MET	A	4	-25.977	-1.755	44.352	1.00	54.40	C
ATOM	6244	CB	MET	A	4	-25.188	-3.062	44.257	1.00	55.52	C
ATOM	6247	CG	MET	A	4	-25.150	-3.850	45.542	1.00	57.44	C
ATOM	6250	SD	MET	A	4	-24.211	-3.014	46.833	1.00	59.92	S
ATOM	6251	CE	MET	A	4	-25.341	-3.183	48.192	1.00	63.07	C

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ATOM	6255	C	MET	A	4	-25.930	-1.058	43.008	1.00	53.29	C
ATOM	6256	O	MET	A	4	-26.354	-1.611	41.996	1.00	52.73	O
ATOM	6258	N	THR	A	5	-25.396	0.155	42.999	1.00	52.96	N
ATOM	6259	CA	THR	A	5	-25.404	0.983	41.805	1.00	54.17	C
ATOM	6261	CB	THR	A	5	-26.084	2.344	42.084	1.00	53.75	C
ATOM	6263	OG1	THR	A	5	-27.384	2.129	42.650	1.00	54.50	O
ATOM	6265	CG2	THR	A	5	-26.206	3.151	40.808	1.00	51.76	C
ATOM	6269	C	THR	A	5	-23.984	1.230	41.327	1.00	54.59	C
ATOM	6270	O	THR	A	5	-23.268	2.047	41.900	1.00	56.57	O
ATOM	6272	N	GLN	A	6	-23.567	0.515	40.288	1.00	54.82	N
ATOM	6273	CA	GLN	A	6	-22.250	0.747	39.716	1.00	53.99	C
ATOM	6275	CB	GLN	A	6	-21.759	-0.456	38.916	1.00	54.48	C
ATOM	6278	CG	GLN	A	6	-21.411	-1.646	39.772	1.00	54.04	C
ATOM	6281	CD	GLN	A	6	-20.882	-2.784	38.949	1.00	53.42	C
ATOM	6282	OE1	GLN	A	6	-21.480	-3.855	38.903	1.00	53.23	O
ATOM	6283	NE2	GLN	A	6	-19.763	-2.556	38.273	1.00	53.75	N
ATOM	6286	C	GLN	A	6	-22.328	1.968	38.833	1.00	54.63	C
ATOM	6287	O	GLN	A	6	-23.404	2.320	38.338	1.00	55.98	O
ATOM	6289	N	SER	A	7	-21.176	2.605	38.640	1.00	54.86	N
ATOM	6290	CA	SER	A	7	-21.079	3.872	37.925	1.00	52.70	C
ATOM	6292	CB	SER	A	7	-21.507	5.002	38.864	1.00	51.79	C
ATOM	6295	OG	SER	A	7	-20.677	6.136	38.726	1.00	55.10	O
ATOM	6297	C	SER	A	7	-19.634	4.073	37.471	1.00	51.64	C
ATOM	6298	O	SER	A	7	-18.734	3.985	38.292	1.00	51.21	O
ATOM	6300	N	PRO	A	8	-19.396	4.318	36.169	1.00	51.31	N
ATOM	6301	CA	PRO	A	8	-20.311	4.405	35.038	1.00	51.31	C
ATOM	6303	CB	PRO	A	8	-19.504	5.193	34.013	1.00	51.28	C
ATOM	6306	CG	PRO	A	8	-18.107	4.767	34.259	1.00	51.39	C
ATOM	6309	CD	PRO	A	8	-18.002	4.546	35.745	1.00	51.55	C
ATOM	6312	C	PRO	A	8	-20.652	3.029	34.480	1.00	51.44	C
ATOM	6313	O	PRO	A	8	-20.041	2.038	34.881	1.00	52.24	O
ATOM	6314	N	ASP	A	9	-21.616	2.982	33.561	1.00	51.77	N
ATOM	6315	CA	ASP	A	9	-22.070	1.726	32.961	1.00	52.74	C
ATOM	6317	CB	ASP	A	9	-23.361	1.935	32.150	1.00	52.67	C
ATOM	6320	CG	ASP	A	9	-24.619	1.938	33.022	1.00	55.81	C
ATOM	6321	OD1	ASP	A	9	-24.841	0.965	33.793	1.00	56.53	O
ATOM	6322	OD2	ASP	A	9	-25.396	2.913	32.914	1.00	57.39	O
ATOM	6323	C	ASP	A	9	-20.998	1.124	32.065	1.00	53.19	C
ATOM	6324	O	ASP	A	9	-20.723	-0.073	32.140	1.00	54.60	O
ATOM	6326	N	SER	A	10	-20.411	1.964	31.219	1.00	53.70	N
ATOM	6327	CA	SER	A	10	-19.372	1.558	30.281	1.00	55.01	C
ATOM	6329	CB	SER	A	10	-19.858	1.711	28.842	1.00	55.57	C
ATOM	6332	OG	SER	A	10	-21.249	1.977	28.793	1.00	60.63	O
ATOM	6334	C	SER	A	10	-18.159	2.455	30.473	1.00	56.39	C
ATOM	6335	O	SER	A	10	-18.296	3.657	30.737	1.00	56.62	O
ATOM	6337	N	LEU	A	11	-16.974	1.876	30.321	1.00	56.64	N
ATOM	6338	CA	LEU	A	11	-15.742	2.626	30.481	1.00	56.45	C
ATOM	6340	CB	LEU	A	11	-15.107	2.333	31.846	1.00	57.19	C
ATOM	6343	CG	LEU	A	11	-13.760	3.026	32.092	1.00	57.84	C
ATOM	6345	CD1	LEU	A	11	-13.862	4.552	31.927	1.00	59.14	C
ATOM	6349	CD2	LEU	A	11	-13.227	2.665	33.459	1.00	57.21	C
ATOM	6353	C	LEU	A	11	-14.782	2.266	29.365	1.00	56.22	C
ATOM	6354	O	LEU	A	11	-14.583	1.095	29.062	1.00	56.51	O
ATOM	6356	N	ALA	A	12	-14.197	3.285	28.751	1.00	56.13	N
ATOM	6357	CA	ALA	A	12	-13.225	3.081	27.703	1.00	56.48	C
ATOM	6359	CB	ALA	A	12	-13.791	3.520	26.383	1.00	56.72	C
ATOM	6363	C	ALA	A	12	-11.979	3.876	28.059	1.00	57.47	C
ATOM	6364	O	ALA	A	12	-12.067	5.022	28.510	1.00	58.00	O
ATOM	6366	N	VAL	A	13	-10.820	3.250	27.882	1.00	57.30	N
ATOM	6367	CA	VAL	A	13	-9.556	3.864	28.247	1.00	56.51	C
ATOM	6369	CB	VAL	A	13	-9.416	3.927	29.802	1.00	56.78	C
ATOM	6371	CG1	VAL	A	13	-8.584	2.759	30.351	1.00	57.74	C
ATOM	6375	CG2	VAL	A	13	-8.838	5.263	30.259	1.00	58.51	C

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ATOM	6379	C	VAL	A	13	-8.407	3.087	27.594	1.00	56.26	C
ATOM	6380	O	VAL	A	13	-8.499	1.869	27.413	1.00	56.31	O
ATOM	6382	N	SER	A	14	-7.337	3.796	27.239	1.00	54.96	N
ATOM	6383	CA	SER	A	14	-6.213	3.202	26.504	1.00	54.21	C
ATOM	6385	CB	SER	A	14	-5.243	4.293	26.033	1.00	54.54	C
ATOM	6388	OG	SER	A	14	-5.831	5.115	25.042	1.00	55.88	O
ATOM	6390	C	SER	A	14	-5.433	2.177	27.323	1.00	52.87	C
ATOM	6391	O	SER	A	14	-5.550	2.126	28.543	1.00	51.72	O
ATOM	6393	N	LEU	A	15	-4.629	1.371	26.630	1.00	52.43	N
ATOM	6394	CA	LEU	A	15	-3.735	0.405	27.280	1.00	52.14	C
ATOM	6396	CB	LEU	A	15	-2.943	-0.414	26.242	1.00	51.79	C
ATOM	6399	CG	LEU	A	15	-3.565	-1.665	25.605	1.00	49.60	C
ATOM	6401	CD1	LEU	A	15	-2.507	-2.445	24.837	1.00	45.32	C
ATOM	6405	CD2	LEU	A	15	-4.215	-2.565	26.644	1.00	52.34	C
ATOM	6409	C	LEU	A	15	-2.756	1.101	28.222	1.00	51.43	C
ATOM	6410	O	LEU	A	15	-2.328	2.226	27.975	1.00	51.94	O
ATOM	6412	N	GLY	A	16	-2.414	0.423	29.310	1.00	51.71	N
ATOM	6413	CA	GLY	A	16	-1.516	0.978	30.315	1.00	52.44	C
ATOM	6416	C	GLY	A	16	-2.109	2.106	31.147	1.00	52.76	C
ATOM	6417	O	GLY	A	16	-1.501	2.534	32.136	1.00	53.41	O
ATOM	6419	N	GLU	A	17	-3.298	2.574	30.766	1.00	52.43	N
ATOM	6420	CA	GLU	A	17	-3.942	3.714	31.413	1.00	52.43	C
ATOM	6422	CB	GLU	A	17	-4.888	4.401	30.419	1.00	52.30	C
ATOM	6425	CG	GLU	A	17	-5.165	5.874	30.679	1.00	53.08	C
ATOM	6428	CD	GLU	A	17	-5.608	6.614	29.418	1.00	54.16	C
ATOM	6429	OE1	GLU	A	17	-6.464	6.083	28.671	1.00	52.55	O
ATOM	6430	OE2	GLU	A	17	-5.087	7.726	29.173	1.00	55.19	O
ATOM	6431	C	GLU	A	17	-4.699	3.256	32.661	1.00	52.05	C
ATOM	6432	O	GLU	A	17	-5.048	2.081	32.803	1.00	51.50	O
ATOM	6434	N	ARG	A	18	-4.944	4.192	33.568	1.00	52.76	N
ATOM	6435	CA	ARG	A	18	-5.617	3.885	34.824	1.00	52.69	C
ATOM	6437	CB	ARG	A	18	-5.244	4.921	35.890	1.00	52.82	C
ATOM	6440	CG	ARG	A	18	-6.057	4.835	37.167	1.00	54.81	C
ATOM	6443	CD	ARG	A	18	-5.311	5.391	38.364	1.00	57.22	C
ATOM	6446	NE	ARG	A	18	-6.232	5.823	39.418	1.00	61.94	N
ATOM	6448	CZ	ARG	A	18	-6.736	7.054	39.534	1.00	64.92	C
ATOM	6449	NH1	ARG	A	18	-7.568	7.332	40.535	1.00	63.87	N
ATOM	6452	NH2	ARG	A	18	-6.418	8.016	38.663	1.00	63.06	N
ATOM	6455	C	ARG	A	18	-7.126	3.846	34.607	1.00	51.84	C
ATOM	6456	O	ARG	A	18	-7.671	4.634	33.825	1.00	50.14	O
ATOM	6458	N	ALA	A	19	-7.794	2.930	35.303	1.00	50.97	N
ATOM	6459	CA	ALA	A	19	-9.232	2.775	35.168	1.00	52.04	C
ATOM	6461	CB	ALA	A	19	-9.542	1.633	34.229	1.00	52.55	C
ATOM	6465	C	ALA	A	19	-9.895	2.545	36.518	1.00	52.46	C
ATOM	6466	O	ALA	A	19	-9.438	1.725	37.314	1.00	54.85	O
ATOM	6468	N	THR	A	20	-10.988	3.262	36.755	1.00	52.38	N
ATOM	6469	CA	THR	A	20	-11.682	3.234	38.030	1.00	52.68	C
ATOM	6471	CB	THR	A	20	-11.642	4.618	38.677	1.00	52.17	C
ATOM	6473	OG1	THR	A	20	-10.299	4.882	39.094	1.00	53.12	O
ATOM	6475	CG2	THR	A	20	-12.587	4.709	39.886	1.00	51.87	C
ATOM	6479	C	THR	A	20	-13.121	2.807	37.819	1.00	53.77	C
ATOM	6480	O	THR	A	20	-13.714	3.140	36.796	1.00	54.57	O
ATOM	6482	N	ILE	A	21	-13.666	2.055	38.776	1.00	53.63	N
ATOM	6483	CA	ILE	A	21	-15.078	1.694	38.771	1.00	54.12	C
ATOM	6485	CB	ILE	A	21	-15.312	0.215	38.397	1.00	54.52	C
ATOM	6487	CG1	ILE	A	21	-14.723	-0.085	37.011	1.00	53.22	C
ATOM	6490	CD1	ILE	A	21	-14.581	-1.556	36.724	1.00	53.52	C
ATOM	6494	CG2	ILE	A	21	-16.825	-0.123	38.428	1.00	52.99	C
ATOM	6498	C	ILE	A	21	-15.642	1.952	40.150	1.00	54.97	C
ATOM	6499	O	ILE	A	21	-15.121	1.447	41.143	1.00	57.00	O
ATOM	6501	N	ASN	A	22	-16.722	2.725	40.189	1.00	55.69	N
ATOM	6502	CA	ASN	A	22	-17.374	3.130	41.425	1.00	56.19	C
ATOM	6504	CB	ASN	A	22	-17.885	4.574	41.297	1.00	56.94	C

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ATOM	6507	CG	ASN	A	22	-17.326	5.483	42.355	1.00	58.56	C
ATOM	6508	OD1	ASN	A	22	-17.781	5.482	43.502	1.00	60.89	O
ATOM	6509	ND2	ASN	A	22	-16.327	6.273	41.977	1.00	59.32	N
ATOM	6512	C	ASN	A	22	-18.544	2.199	41.699	1.00	56.65	C
ATOM	6513	O	ASN	A	22	-19.209	1.750	40.768	1.00	58.28	O
ATOM	6515	N	CYS	A	23	-18.803	1.925	42.972	1.00	57.08	N
ATOM	6516	CA	CYS	A	23	-19.936	1.101	43.362	1.00	56.36	C
ATOM	6518	CB	CYS	A	23	-19.491	-0.362	43.491	1.00	56.50	C
ATOM	6521	SG	CYS	A	23	-20.630	-1.402	44.393	1.00	62.63	S
ATOM	6523	C	CYS	A	23	-20.547	1.643	44.658	1.00	55.22	C
ATOM	6524	O	CYS	A	23	-19.828	1.883	45.626	1.00	54.61	O
ATOM	6526	N	ARG	A	24	-21.865	1.860	44.660	1.00	55.40	N
ATOM	6527	CA	ARG	A	24	-22.569	2.419	45.822	1.00	55.68	C
ATOM	6529	CB	ARG	A	24	-23.126	3.801	45.499	1.00	56.07	C
ATOM	6532	CG	ARG	A	24	-23.595	4.537	46.745	1.00	57.94	C
ATOM	6535	CD	ARG	A	24	-24.590	5.617	46.447	1.00	61.37	C
ATOM	6538	NE	ARG	A	24	-24.492	6.684	47.437	1.00	68.16	N
ATOM	6540	CZ	ARG	A	24	-23.520	7.595	47.469	1.00	71.66	C
ATOM	6541	NH1	ARG	A	24	-22.534	7.580	46.574	1.00	73.60	N
ATOM	6544	NH2	ARG	A	24	-23.523	8.528	48.409	1.00	73.88	N
ATOM	6547	C	ARG	A	24	-23.727	1.542	46.314	1.00	54.23	C
ATOM	6548	O	ARG	A	24	-24.450	0.970	45.508	1.00	55.74	O
ATOM	6550	N	ALA	A	25	-23.912	1.494	47.638	1.00	52.44	N
ATOM	6551	CA	ALA	A	25	-24.962	0.703	48.297	1.00	51.11	C
ATOM	6553	CB	ALA	A	25	-24.324	-0.161	49.370	1.00	50.89	C
ATOM	6557	C	ALA	A	25	-26.056	1.600	48.918	1.00	49.83	C
ATOM	6558	O	ALA	A	25	-25.788	2.755	49.242	1.00	49.35	O
ATOM	6560	N	SER	A	26	-27.274	1.071	49.087	1.00	49.01	N
ATOM	6561	CA	SER	A	26	-28.400	1.832	49.681	1.00	48.88	C
ATOM	6563	CB	SER	A	26	-29.728	1.065	49.615	1.00	46.84	C
ATOM	6566	OG	SER	A	26	-29.680	-0.006	48.714	1.00	49.73	O
ATOM	6568	C	SER	A	26	-28.161	2.111	51.143	1.00	48.80	C
ATOM	6569	O	SER	A	26	-28.505	3.176	51.651	1.00	48.99	O
ATOM	6571	N	LYS	A	27	-27.626	1.099	51.816	1.00	49.72	N
ATOM	6572	CA	LYS	A	27	-27.365	1.113	53.243	1.00	50.92	C
ATOM	6574	CB	LYS	A	27	-28.191	0.021	53.952	1.00	52.36	C
ATOM	6577	CG	LYS	A	27	-29.471	0.520	54.631	1.00	54.84	C
ATOM	6580	CD	LYS	A	27	-30.459	-0.614	54.982	1.00	55.28	C
ATOM	6583	CE	LYS	A	27	-29.811	-1.810	55.703	1.00	58.27	C
ATOM	6586	NZ	LYS	A	27	-30.839	-2.772	56.233	1.00	58.20	N
ATOM	6590	C	LYS	A	27	-25.896	0.818	53.416	1.00	49.94	C
ATOM	6591	O	LYS	A	27	-25.240	0.347	52.485	1.00	48.23	O
ATOM	6593	N	SER	A	28	-25.388	1.080	54.616	1.00	52.04	N
ATOM	6594	CA	SER	A	28	-24.003	0.771	54.941	1.00	52.27	C
ATOM	6596	CB	SER	A	28	-23.594	1.359	56.287	1.00	52.57	C
ATOM	6599	OG	SER	A	28	-22.310	0.879	56.662	1.00	55.08	O
ATOM	6601	C	SER	A	28	-23.849	-0.724	54.997	1.00	52.92	C
ATOM	6602	O	SER	A	28	-24.727	-1.409	55.523	1.00	54.03	O
ATOM	6604	N	VAL	A	29	-22.733	-1.206	54.448	1.00	53.35	N
ATOM	6605	CA	VAL	A	29	-22.382	-2.627	54.442	1.00	53.35	C
ATOM	6607	CB	VAL	A	29	-22.083	-3.120	52.992	1.00	53.96	C
ATOM	6609	CG1	VAL	A	29	-20.827	-2.481	52.424	1.00	55.20	C
ATOM	6613	CG2	VAL	A	29	-23.248	-2.838	52.078	1.00	55.72	C
ATOM	6617	C	VAL	A	29	-21.179	-2.888	55.369	1.00	53.13	C
ATOM	6618	O	VAL	A	29	-20.337	-3.725	55.097	1.00	53.14	O
ATOM	6620	N	SER	A	30	-21.110	-2.173	56.485	1.00	55.25	N
ATOM	6621	CA	SER	A	30	-19.919	-2.210	57.329	1.00	54.74	C
ATOM	6623	CB	SER	A	30	-19.150	-0.888	57.190	1.00	54.89	C
ATOM	6626	OG	SER	A	30	-18.834	-0.622	55.828	1.00	55.23	O
ATOM	6628	C	SER	A	30	-20.249	-2.486	58.801	1.00	54.12	C
ATOM	6629	O	SER	A	30	-20.890	-1.670	59.445	1.00	54.38	O
ATOM	6631	N	THR	A	31	-19.838	-3.657	59.295	1.00	53.64	N
ATOM	6632	CA	THR	A	31	-19.766	-3.965	60.733	1.00	53.55	C

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ATOM	6634	CB	THR	A	31	-21.041	-4.675	61.274	1.00	53.52	C
ATOM	6636	OG1	THR	A	31	-21.744	-5.300	60.193	1.00	53.91	O
ATOM	6638	CG2	THR	A	31	-21.977	-3.690	61.993	1.00	53.02	C
ATOM	6642	C	THR	A	31	-18.555	-4.869	61.010	1.00	53.72	C
ATOM	6643	O	THR	A	31	-18.047	-5.548	60.112	1.00	53.44	O
ATOM	6645	N	SER	A	32	-18.106	-4.868	62.259	1.00	53.57	N
ATOM	6646	CA	SER	A	32	-16.932	-5.638	62.692	1.00	53.74	C
ATOM	6648	CB	SER	A	32	-17.252	-7.130	62.755	1.00	52.83	C
ATOM	6651	OG	SER	A	32	-18.435	-7.346	63.496	1.00	56.13	O
ATOM	6653	C	SER	A	32	-15.694	-5.373	61.823	1.00	53.92	C
ATOM	6654	O	SER	A	32	-15.058	-6.295	61.308	1.00	54.25	O
ATOM	6656	N	GLY	A	33	-15.362	-4.092	61.673	1.00	54.78	N
ATOM	6657	CA	GLY	A	33	-14.157	-3.675	60.958	1.00	54.44	C
ATOM	6660	C	GLY	A	33	-14.032	-4.386	59.635	1.00	54.01	C
ATOM	6661	O	GLY	A	33	-12.944	-4.815	59.253	1.00	55.52	O
ATOM	6663	N	TYR	A	34	-15.170	-4.530	58.961	1.00	53.14	N
ATOM	6664	CA	TYR	A	34	-15.244	-5.167	57.661	1.00	52.80	C
ATOM	6666	CB	TYR	A	34	-15.715	-6.611	57.793	1.00	53.20	C
ATOM	6669	CG	TYR	A	34	-14.664	-7.634	58.102	1.00	52.44	C
ATOM	6670	CD1	TYR	A	34	-13.507	-7.724	57.346	1.00	51.21	C
ATOM	6672	CE1	TYR	A	34	-12.557	-8.700	57.616	1.00	54.76	C
ATOM	6674	CZ	TYR	A	34	-12.774	-9.610	58.637	1.00	53.21	C
ATOM	6675	OH	TYR	A	34	-11.839	-10.571	58.906	1.00	53.19	O
ATOM	6677	CE2	TYR	A	34	-13.919	-9.549	59.393	1.00	54.25	C
ATOM	6679	CD2	TYR	A	34	-14.862	-8.570	59.118	1.00	57.68	C
ATOM	6681	C	TYR	A	34	-16.261	-4.432	56.813	1.00	51.48	C
ATOM	6682	O	TYR	A	34	-17.321	-4.049	57.304	1.00	49.85	O
ATOM	6684	N	SER	A	35	-15.938	-4.235	55.544	1.00	50.36	N
ATOM	6685	CA	SER	A	35	-16.916	-3.762	54.606	1.00	51.65	C
ATOM	6687	CB	SER	A	35	-16.390	-2.575	53.821	1.00	50.96	C
ATOM	6690	OG	SER	A	35	-16.136	-1.489	54.702	1.00	50.03	O
ATOM	6692	C	SER	A	35	-17.232	-4.944	53.723	1.00	52.86	C
ATOM	6693	O	SER	A	35	-16.390	-5.399	52.959	1.00	53.24	O
ATOM	6695	N	TYR	A	36	-18.450	-5.457	53.869	1.00	54.35	N
ATOM	6696	CA	TYR	A	36	-18.875	-6.664	53.189	1.00	55.09	C
ATOM	6698	CB	TYR	A	36	-20.046	-7.277	53.946	1.00	55.65	C
ATOM	6701	CG	TYR	A	36	-19.615	-7.768	55.323	1.00	58.22	C
ATOM	6702	CD1	TYR	A	36	-18.954	-8.995	55.480	1.00	56.18	C
ATOM	6704	CE1	TYR	A	36	-18.555	-9.446	56.736	1.00	56.58	C
ATOM	6706	CZ	TYR	A	36	-18.795	-8.665	57.854	1.00	56.60	C
ATOM	6707	OH	TYR	A	36	-18.397	-9.096	59.101	1.00	54.95	O
ATOM	6709	CE2	TYR	A	36	-19.437	-7.441	57.723	1.00	56.91	C
ATOM	6711	CD2	TYR	A	36	-19.838	-6.998	56.462	1.00	56.88	C
ATOM	6713	C	TYR	A	36	-19.189	-6.399	51.717	1.00	56.74	C
ATOM	6714	O	TYR	A	36	-20.360	-6.314	51.315	1.00	58.41	O
ATOM	6716	N	ILE	A	37	-18.110	-6.270	50.933	1.00	56.11	N
ATOM	6717	CA	ILE	A	37	-18.155	-5.894	49.511	1.00	55.20	C
ATOM	6719	CB	ILE	A	37	-17.755	-4.408	49.294	1.00	54.78	C
ATOM	6721	CG1	ILE	A	37	-18.826	-3.479	49.851	1.00	58.08	C
ATOM	6724	CD1	ILE	A	37	-20.089	-3.396	48.995	1.00	61.32	C
ATOM	6728	CG2	ILE	A	37	-17.547	-4.081	47.806	1.00	54.99	C
ATOM	6732	C	ILE	A	37	-17.181	-6.759	48.733	1.00	54.28	C
ATOM	6733	O	ILE	A	37	-16.086	-7.045	49.197	1.00	51.48	O
ATOM	6735	N	TYR	A	38	-17.577	-7.160	47.534	1.00	54.21	N
ATOM	6736	CA	TYR	A	38	-16.772	-8.069	46.737	1.00	55.52	C
ATOM	6738	CB	TYR	A	38	-17.335	-9.484	46.899	1.00	56.13	C
ATOM	6741	CG	TYR	A	38	-17.734	-9.751	48.331	1.00	53.82	C
ATOM	6742	CD1	TYR	A	38	-16.800	-10.179	49.249	1.00	56.52	C
ATOM	6744	CE1	TYR	A	38	-17.136	-10.402	50.559	1.00	54.97	C
ATOM	6746	CZ	TYR	A	38	-18.421	-10.179	50.968	1.00	55.92	C
ATOM	6747	OH	TYR	A	38	-18.746	-10.407	52.278	1.00	57.07	O
ATOM	6749	CE2	TYR	A	38	-19.372	-9.739	50.077	1.00	53.57	C
ATOM	6751	CD2	TYR	A	38	-19.021	-9.517	48.772	1.00	51.57	C

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ATOM	6753	C	TYR	A	38	-16.798	-7.601	45.290	1.00	55.89	C
ATOM	6754	O	TYR	A	38	-17.738	-6.915	44.896	1.00	57.00	O
ATOM	6756	N	TRP	A	39	-15.764	-7.943	44.515	1.00	55.58	N
ATOM	6757	CA	TRP	A	39	-15.670	-7.535	43.101	1.00	55.14	C
ATOM	6759	CB	TRP	A	39	-14.585	-6.481	42.881	1.00	53.93	C
ATOM	6762	CG	TRP	A	39	-14.865	-5.137	43.472	1.00	54.45	C
ATOM	6763	CD1	TRP	A	39	-14.481	-4.691	44.699	1.00	55.89	C
ATOM	6765	NE1	TRP	A	39	-14.903	-3.397	44.887	1.00	54.96	N
ATOM	6767	CE2	TRP	A	39	-15.561	-2.977	43.765	1.00	49.30	C
ATOM	6768	CD2	TRP	A	39	-15.559	-4.049	42.850	1.00	51.41	C
ATOM	6769	CE3	TRP	A	39	-16.177	-3.876	41.610	1.00	53.35	C
ATOM	6771	CZ3	TRP	A	39	-16.766	-2.659	41.327	1.00	54.21	C
ATOM	6773	CH2	TRP	A	39	-16.752	-1.613	42.261	1.00	54.27	C
ATOM	6775	CZ2	TRP	A	39	-16.154	-1.755	43.482	1.00	52.84	C
ATOM	6777	C	TRP	A	39	-15.372	-8.720	42.192	1.00	55.86	C
ATOM	6778	O	TRP	A	39	-14.481	-9.524	42.466	1.00	56.12	O
ATOM	6780	N	TYR	A	40	-16.099	-8.794	41.083	1.00	55.71	N
ATOM	6781	CA	TYR	A	40	-15.950	-9.885	40.151	1.00	54.20	C
ATOM	6783	CB	TYR	A	40	-17.236	-10.677	40.105	1.00	53.85	C
ATOM	6786	CG	TYR	A	40	-17.621	-11.220	41.452	1.00	53.84	C
ATOM	6787	CD1	TYR	A	40	-17.003	-12.350	41.960	1.00	52.48	C
ATOM	6789	CE1	TYR	A	40	-17.341	-12.857	43.177	1.00	51.31	C
ATOM	6791	CZ	TYR	A	40	-18.309	-12.240	43.922	1.00	52.90	C
ATOM	6792	OH	TYR	A	40	-18.644	-12.744	45.154	1.00	53.71	O
ATOM	6794	CE2	TYR	A	40	-18.938	-11.109	43.448	1.00	54.72	C
ATOM	6796	CD2	TYR	A	40	-18.591	-10.606	42.218	1.00	53.75	C
ATOM	6798	C	TYR	A	40	-15.604	-9.392	38.765	1.00	54.49	C
ATOM	6799	O	TYR	A	40	-15.945	-8.274	38.387	1.00	54.57	O
ATOM	6801	N	GLN	A	41	-14.908	-10.245	38.021	1.00	55.19	N
ATOM	6802	CA	GLN	A	41	-14.630	-10.023	36.610	1.00	54.66	C
ATOM	6804	CB	GLN	A	41	-13.134	-10.155	36.356	1.00	54.91	C
ATOM	6807	CG	GLN	A	41	-12.718	-10.065	34.891	1.00	54.62	C
ATOM	6810	CD	GLN	A	41	-11.217	-10.069	34.731	1.00	53.29	C
ATOM	6811	OE1	GLN	A	41	-10.549	-11.071	34.995	1.00	50.58	O
ATOM	6812	NE2	GLN	A	41	-10.674	-8.942	34.310	1.00	52.61	N
ATOM	6815	C	GLN	A	41	-15.368	-11.101	35.832	1.00	54.45	C
ATOM	6816	O	GLN	A	41	-15.259	-12.277	36.181	1.00	53.70	O
ATOM	6818	N	GLN	A	42	-16.123	-10.704	34.803	1.00	53.94	N
ATOM	6819	CA	GLN	A	42	-16.718	-11.669	33.868	1.00	54.62	C
ATOM	6821	CB	GLN	A	42	-18.245	-11.740	34.003	1.00	54.68	C
ATOM	6824	CG	GLN	A	42	-18.860	-12.891	33.170	1.00	53.39	C
ATOM	6827	CD	GLN	A	42	-20.365	-13.000	33.293	1.00	51.05	C
ATOM	6828	OE1	GLN	A	42	-21.074	-12.000	33.336	1.00	48.41	O
ATOM	6829	NE2	GLN	A	42	-20.859	-14.225	33.336	1.00	49.52	N
ATOM	6832	C	GLN	A	42	-16.346	-11.360	32.416	1.00	55.58	C
ATOM	6833	O	GLN	A	42	-16.720	-10.306	31.882	1.00	55.08	O
ATOM	6835	N	LYS	A	43	-15.626	-12.294	31.789	1.00	55.46	N
ATOM	6836	CA	LYS	A	43	-15.292	-12.209	30.366	1.00	55.65	C
ATOM	6838	CB	LYS	A	43	-13.932	-12.839	30.086	1.00	54.68	C
ATOM	6841	CG	LYS	A	43	-12.775	-12.062	30.668	1.00	54.75	C
ATOM	6844	CD	LYS	A	43	-11.503	-12.885	30.686	1.00	55.94	C
ATOM	6847	CE	LYS	A	43	-10.375	-12.126	31.358	1.00	58.33	C
ATOM	6850	NZ	LYS	A	43	-9.035	-12.660	31.001	1.00	57.56	N
ATOM	6854	C	LYS	A	43	-16.347	-12.935	29.549	1.00	56.58	C
ATOM	6855	O	LYS	A	43	-16.790	-14.023	29.929	1.00	57.00	O
ATOM	6857	N	PRO	A	44	-16.740	-12.357	28.406	1.00	57.55	N
ATOM	6858	CA	PRO	A	44	-17.830	-12.946	27.623	1.00	57.67	C
ATOM	6860	CB	PRO	A	44	-17.746	-12.218	26.277	1.00	58.27	C
ATOM	6863	CG	PRO	A	44	-16.494	-11.352	26.338	1.00	59.33	C
ATOM	6866	CD	PRO	A	44	-16.175	-11.155	27.771	1.00	57.79	C
ATOM	6869	C	PRO	A	44	-17.649	-14.450	27.435	1.00	58.24	C
ATOM	6870	O	PRO	A	44	-16.535	-14.906	27.170	1.00	59.17	O
ATOM	6871	N	GLY	A	45	-18.730	-15.206	27.607	1.00	58.29	N

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ATOM	6872	CA	GLY	A	45	-18.689	-16.661	27.482	1.00	58.14	C
ATOM	6875	C	GLY	A	45	-18.251	-17.423	28.727	1.00	58.93	C
ATOM	6876	O	GLY	A	45	-18.321	-18.655	28.745	1.00	58.45	O
ATOM	6878	N	GLN	A	46	-17.829	-16.715	29.780	1.00	58.95	N
ATOM	6879	CA	GLN	A	46	-17.197	-17.370	30.944	1.00	58.13	C
ATOM	6881	CB	GLN	A	46	-15.761	-16.887	31.082	1.00	57.66	C
ATOM	6884	CG	GLN	A	46	-14.876	-17.334	29.967	1.00	57.84	C
ATOM	6887	CD	GLN	A	46	-13.556	-16.649	30.013	1.00	58.02	C
ATOM	6888	OE1	GLN	A	46	-13.096	-16.241	31.074	1.00	59.99	O
ATOM	6889	NE2	GLN	A	46	-12.933	-16.500	28.858	1.00	62.54	N
ATOM	6892	C	GLN	A	46	-17.893	-17.159	32.288	1.00	57.25	C
ATOM	6893	O	GLN	A	46	-18.670	-16.216	32.456	1.00	56.93	O
ATOM	6895	N	PRO	A	47	-17.597	-18.035	33.263	1.00	56.40	N
ATOM	6896	CA	PRO	A	47	-18.057	-17.725	34.613	1.00	56.63	C
ATOM	6898	CB	PRO	A	47	-17.583	-18.928	35.452	1.00	56.08	C
ATOM	6901	CG	PRO	A	47	-16.489	-19.565	34.647	1.00	56.71	C
ATOM	6904	CD	PRO	A	47	-16.862	-19.312	33.208	1.00	56.14	C
ATOM	6907	C	PRO	A	47	-17.395	-16.451	35.108	1.00	55.38	C
ATOM	6908	O	PRO	A	47	-16.299	-16.119	34.660	1.00	55.28	O
ATOM	6909	N	PRO	A	48	-18.068	-15.720	35.999	1.00	54.95	N
ATOM	6910	CA	PRO	A	48	-17.354	-14.666	36.712	1.00	54.76	C
ATOM	6912	CB	PRO	A	48	-18.432	-14.047	37.617	1.00	55.39	C
ATOM	6915	CG	PRO	A	48	-19.744	-14.474	37.009	1.00	55.42	C
ATOM	6918	CD	PRO	A	48	-19.495	-15.784	36.356	1.00	53.86	C
ATOM	6921	C	PRO	A	48	-16.195	-15.218	37.547	1.00	54.08	C
ATOM	6922	O	PRO	A	48	-16.126	-16.416	37.839	1.00	53.70	O
ATOM	6923	N	LYS	A	49	-15.308	-14.319	37.940	1.00	54.11	N
ATOM	6924	CA	LYS	A	49	-14.078	-14.662	38.626	1.00	53.40	C
ATOM	6926	CB	LYS	A	49	-12.924	-14.574	37.616	1.00	53.57	C
ATOM	6929	CG	LYS	A	49	-11.519	-14.593	38.178	1.00	54.85	C
ATOM	6932	CD	LYS	A	49	-10.495	-14.468	37.056	1.00	54.92	C
ATOM	6935	CE	LYS	A	49	-9.116	-14.072	37.583	1.00	58.10	C
ATOM	6938	NZ	LYS	A	49	-8.308	-13.354	36.545	1.00	59.59	N
ATOM	6942	C	LYS	A	49	-13.917	-13.654	39.743	1.00	51.86	C
ATOM	6943	O	LYS	A	49	-14.029	-12.458	39.508	1.00	51.35	O
ATOM	6945	N	LEU	A	50	-13.682	-14.133	40.959	1.00	53.13	N
ATOM	6946	CA	LEU	A	50	-13.545	-13.245	42.122	1.00	53.31	C
ATOM	6948	CB	LEU	A	50	-13.620	-14.020	43.441	1.00	51.20	C
ATOM	6951	CG	LEU	A	50	-13.397	-13.212	44.724	1.00	51.81	C
ATOM	6953	CD1	LEU	A	50	-14.486	-12.193	44.949	1.00	53.08	C
ATOM	6957	CD2	LEU	A	50	-13.322	-14.132	45.921	1.00	53.48	C
ATOM	6961	C	LEU	A	50	-12.225	-12.528	42.057	1.00	54.02	C
ATOM	6962	O	LEU	A	50	-11.183	-13.162	41.943	1.00	56.64	O
ATOM	6964	N	LEU	A	51	-12.276	-11.207	42.155	1.00	54.52	N
ATOM	6965	CA	LEU	A	51	-11.071	-10.397	42.184	1.00	55.06	C
ATOM	6967	CB	LEU	A	51	-11.276	-9.123	41.358	1.00	56.57	C
ATOM	6970	CG	LEU	A	51	-11.540	-9.333	39.867	1.00	55.21	C
ATOM	6972	CD1	LEU	A	51	-11.735	-7.987	39.175	1.00	54.74	C
ATOM	6976	CD2	LEU	A	51	-10.409	-10.130	39.247	1.00	54.47	C
ATOM	6980	C	LEU	A	51	-10.712	-10.014	43.603	1.00	53.83	C
ATOM	6981	O	LEU	A	51	-9.638	-10.356	44.104	1.00	52.66	O
ATOM	6983	N	ILE	A	52	-11.628	-9.292	44.234	1.00	53.69	N
ATOM	6984	CA	ILE	A	52	-11.381	-8.680	45.521	1.00	54.72	C
ATOM	6986	CB	ILE	A	52	-11.218	-7.150	45.370	1.00	55.20	C
ATOM	6988	CG1	ILE	A	52	-10.026	-6.877	44.444	1.00	57.47	C
ATOM	6991	CD1	ILE	A	52	-9.359	-5.528	44.627	1.00	58.35	C
ATOM	6995	CG2	ILE	A	52	-11.043	-6.456	46.750	1.00	55.97	C
ATOM	6999	C	ILE	A	52	-12.518	-9.029	46.459	1.00	53.90	C
ATOM	7000	O	ILE	A	52	-13.674	-9.081	46.048	1.00	55.25	O
ATOM	7002	N	TYR	A	53	-12.183	-9.283	47.719	1.00	52.27	N
ATOM	7003	CA	TYR	A	53	-13.179	-9.683	48.691	1.00	51.84	C
ATOM	7005	CB	TYR	A	53	-13.201	-11.209	48.844	1.00	50.98	C
ATOM	7008	CG	TYR	A	53	-11.973	-11.804	49.485	1.00	50.18	C

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ATOM	7009	CD1	TYR	A	53	-10.886	-12.204	48.721	1.00	52.88	C
ATOM	7011	CE1	TYR	A	53	-9.771	-12.740	49.311	1.00	50.55	C
ATOM	7013	CZ	TYR	A	53	-9.738	-12.895	50.678	1.00	51.51	C
ATOM	7014	OH	TYR	A	53	-8.636	-13.418	51.302	1.00	53.71	O
ATOM	7016	CE2	TYR	A	53	-10.797	-12.498	51.452	1.00	53.37	C
ATOM	7018	CD2	TYR	A	53	-11.899	-11.958	50.857	1.00	53.24	C
ATOM	7020	C	TYR	A	53	-12.952	-8.978	50.023	1.00	52.24	C
ATOM	7021	O	TYR	A	53	-11.810	-8.709	50.417	1.00	50.39	O
ATOM	7023	N	LEU	A	54	-14.070	-8.693	50.693	1.00	51.91	N
ATOM	7024	CA	LEU	A	54	-14.142	-7.791	51.839	1.00	51.34	C
ATOM	7026	CB	LEU	A	54	-13.530	-8.446	53.072	1.00	53.03	C
ATOM	7029	CG	LEU	A	54	-14.257	-9.740	53.462	1.00	55.48	C
ATOM	7031	CD1	LEU	A	54	-13.459	-10.524	54.486	1.00	56.22	C
ATOM	7035	CD2	LEU	A	54	-15.664	-9.444	53.983	1.00	58.34	C
ATOM	7039	C	LEU	A	54	-13.532	-6.425	51.529	1.00	51.04	C
ATOM	7040	O	LEU	A	54	-12.740	-5.887	52.296	1.00	53.31	O
ATOM	7042	N	ALA	A	55	-13.920	-5.888	50.373	1.00	51.41	N
ATOM	7043	CA	ALA	A	55	-13.646	-4.503	49.947	1.00	51.08	C
ATOM	7045	CB	ALA	A	55	-13.919	-3.508	51.088	1.00	49.76	C
ATOM	7049	C	ALA	A	55	-12.258	-4.270	49.347	1.00	51.09	C
ATOM	7050	O	ALA	A	55	-12.118	-3.509	48.369	1.00	49.89	O
ATOM	7052	N	SER	A	56	-11.246	-4.915	49.932	1.00	49.94	N
ATOM	7053	CA	SER	A	56	-9.855	-4.603	49.608	1.00	48.78	C
ATOM	7055	CB	SER	A	56	-9.346	-3.566	50.594	1.00	46.21	C
ATOM	7058	OG	SER	A	56	-9.611	-4.007	51.902	1.00	52.26	O
ATOM	7060	C	SER	A	56	-8.874	-5.777	49.567	1.00	46.29	C
ATOM	7061	O	SER	A	56	-7.741	-5.593	49.124	1.00	44.20	O
ATOM	7063	N	ILE	A	57	-9.277	-6.972	49.986	1.00	46.78	N
ATOM	7064	CA	ILE	A	57	-8.342	-8.101	49.975	1.00	48.96	C
ATOM	7066	CB	ILE	A	57	-8.703	-9.197	50.987	1.00	48.05	C
ATOM	7068	CG1	ILE	A	57	-8.893	-8.610	52.390	1.00	48.51	C
ATOM	7071	CD1	ILE	A	57	-9.619	-9.541	53.371	1.00	49.13	C
ATOM	7075	CG2	ILE	A	57	-7.615	-10.239	51.019	1.00	46.24	C
ATOM	7079	C	ILE	A	57	-8.281	-8.733	48.588	1.00	50.59	C
ATOM	7080	O	ILE	A	57	-9.301	-9.163	48.049	1.00	52.03	O
ATOM	7082	N	LEU	A	58	-7.074	-8.800	48.034	1.00	50.85	N
ATOM	7083	CA	LEU	A	58	-6.845	-9.365	46.707	1.00	51.56	C
ATOM	7085	CB	LEU	A	58	-5.473	-8.913	46.196	1.00	50.88	C
ATOM	7088	CG	LEU	A	58	-5.054	-9.229	44.764	1.00	50.99	C
ATOM	7090	CD1	LEU	A	58	-6.046	-8.664	43.744	1.00	52.86	C
ATOM	7094	CD2	LEU	A	58	-3.665	-8.674	44.530	1.00	51.73	C
ATOM	7098	C	LEU	A	58	-6.904	-10.897	46.745	1.00	53.01	C
ATOM	7099	O	LEU	A	58	-6.243	-11.534	47.571	1.00	52.97	O
ATOM	7101	N	GLU	A	59	-7.699	-11.490	45.861	1.00	53.69	N
ATOM	7102	CA	GLU	A	59	-7.753	-12.941	45.770	1.00	54.08	C
ATOM	7104	CB	GLU	A	59	-8.912	-13.381	44.868	1.00	54.86	C
ATOM	7107	CG	GLU	A	59	-9.010	-14.896	44.584	1.00	57.29	C
ATOM	7110	CD	GLU	A	59	-9.437	-15.736	45.791	1.00	60.28	C
ATOM	7111	OE1	GLU	A	59	-9.639	-15.172	46.882	1.00	62.11	O
ATOM	7112	OE2	GLU	A	59	-9.585	-16.973	45.635	1.00	59.47	O
ATOM	7113	C	GLU	A	59	-6.410	-13.436	45.237	1.00	54.90	C
ATOM	7114	O	GLU	A	59	-5.736	-12.742	44.469	1.00	53.94	O
ATOM	7116	N	SER	A	60	-6.013	-14.632	45.658	1.00	56.06	N
ATOM	7117	CA	SER	A	60	-4.727	-15.176	45.237	1.00	56.26	C
ATOM	7119	CB	SER	A	60	-4.332	-16.402	46.075	1.00	55.50	C
ATOM	7122	OG	SER	A	60	-4.715	-17.609	45.446	1.00	58.42	O
ATOM	7124	C	SER	A	60	-4.814	-15.511	43.749	1.00	56.72	C
ATOM	7125	O	SER	A	60	-5.868	-15.936	43.271	1.00	57.74	O
ATOM	7127	N	GLY	A	61	-3.722	-15.287	43.022	1.00	56.44	N
ATOM	7128	CA	GLY	A	61	-3.703	-15.481	41.571	1.00	56.26	C
ATOM	7131	C	GLY	A	61	-4.197	-14.284	40.767	1.00	56.56	C
ATOM	7132	O	GLY	A	61	-4.145	-14.292	39.544	1.00	57.60	O
ATOM	7134	N	VAL	A	62	-4.679	-13.247	41.441	1.00	56.92	N

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ATOM	7135	CA	VAL	A	62	-5.113	-12.039	40.753	1.00	55.52	C
ATOM	7137	CB	VAL	A	62	-6.345	-11.413	41.432	1.00	56.32	C
ATOM	7139	CG1	VAL	A	62	-6.833	-10.187	40.647	1.00	56.97	C
ATOM	7143	CG2	VAL	A	62	-7.456	-12.453	41.555	1.00	54.97	C
ATOM	7147	C	VAL	A	62	-3.959	-11.047	40.758	1.00	53.94	C
ATOM	7148	O	VAL	A	62	-3.345	-10.829	41.797	1.00	51.87	O
ATOM	7150	N	PRO	A	63	-3.637	-10.477	39.587	1.00	54.41	N
ATOM	7151	CA	PRO	A	63	-2.656	-9.408	39.462	1.00	54.10	C
ATOM	7153	CB	PRO	A	63	-2.759	-9.015	37.986	1.00	54.17	C
ATOM	7156	CG	PRO	A	63	-3.230	-10.228	37.301	1.00	53.64	C
ATOM	7159	CD	PRO	A	63	-4.166	-10.881	38.269	1.00	56.16	C
ATOM	7162	C	PRO	A	63	-2.944	-8.195	40.352	1.00	54.03	C
ATOM	7163	O	PRO	A	63	-4.086	-7.750	40.449	1.00	50.84	O
ATOM	7164	N	ASP	A	64	-1.883	-7.657	40.955	1.00	55.52	N
ATOM	7165	CA	ASP	A	64	-1.972	-6.565	41.941	1.00	56.14	C
ATOM	7167	CB	ASP	A	64	-0.768	-6.594	42.906	1.00	57.41	C
ATOM	7170	CG	ASP	A	64	0.494	-7.131	42.257	1.00	59.16	C
ATOM	7171	OD1	ASP	A	64	0.572	-8.359	42.044	1.00	63.24	O
ATOM	7172	OD2	ASP	A	64	1.403	-6.336	41.964	1.00	61.08	O
ATOM	7173	C	ASP	A	64	-2.134	-5.164	41.330	1.00	56.14	C
ATOM	7174	O	ASP	A	64	-2.122	-4.159	42.046	1.00	55.96	O
ATOM	7176	N	ARG	A	65	-2.293	-5.084	40.013	1.00	55.75	N
ATOM	7177	CA	ARG	A	65	-2.857	-3.871	39.422	1.00	54.91	C
ATOM	7179	CB	ARG	A	65	-2.768	-3.869	37.890	1.00	52.92	C
ATOM	7182	CG	ARG	A	65	-3.238	-5.140	37.206	1.00	53.78	C
ATOM	7185	CD	ARG	A	65	-3.464	-4.930	35.707	1.00	54.01	C
ATOM	7188	NE	ARG	A	65	-2.866	-6.013	34.918	1.00	55.33	N
ATOM	7190	CZ	ARG	A	65	-3.466	-7.149	34.569	1.00	53.08	C
ATOM	7191	NH1	ARG	A	65	-4.712	-7.385	34.918	1.00	58.22	N
ATOM	7194	NH2	ARG	A	65	-2.817	-8.057	33.859	1.00	50.59	N
ATOM	7197	C	ARG	A	65	-4.310	-3.707	39.900	1.00	55.59	C
ATOM	7198	O	ARG	A	65	-4.839	-2.593	39.895	1.00	57.22	O
ATOM	7200	N	PHE	A	66	-4.937	-4.809	40.329	1.00	54.50	N
ATOM	7201	CA	PHE	A	66	-6.304	-4.775	40.860	1.00	53.47	C
ATOM	7203	CB	PHE	A	66	-7.025	-6.106	40.638	1.00	53.02	C
ATOM	7206	CG	PHE	A	66	-7.353	-6.388	39.207	1.00	52.34	C
ATOM	7207	CD1	PHE	A	66	-8.426	-5.763	38.597	1.00	54.62	C
ATOM	7209	CE1	PHE	A	66	-8.736	-6.027	37.261	1.00	55.04	C
ATOM	7211	CZ	PHE	A	66	-7.971	-6.926	36.541	1.00	53.88	C
ATOM	7213	CE2	PHE	A	66	-6.898	-7.555	37.148	1.00	52.38	C
ATOM	7215	CD2	PHE	A	66	-6.594	-7.286	38.467	1.00	55.32	C
ATOM	7217	C	PHE	A	66	-6.330	-4.457	42.345	1.00	52.53	C
ATOM	7218	O	PHE	A	66	-5.888	-5.262	43.167	1.00	53.67	O
ATOM	7220	N	SER	A	67	-6.879	-3.292	42.673	1.00	51.14	N
ATOM	7221	CA	SER	A	67	-7.042	-2.869	44.050	1.00	51.37	C
ATOM	7223	CB	SER	A	67	-6.077	-1.735	44.363	1.00	50.33	C
ATOM	7226	OG	SER	A	67	-6.054	-0.799	43.298	1.00	55.07	O
ATOM	7228	C	SER	A	67	-8.470	-2.406	44.281	1.00	51.76	C
ATOM	7229	O	SER	A	67	-9.132	-1.929	43.360	1.00	52.61	O
ATOM	7231	N	GLY	A	68	-8.931	-2.561	45.519	1.00	51.87	N
ATOM	7232	CA	GLY	A	68	-10.273	-2.167	45.929	1.00	51.41	C
ATOM	7235	C	GLY	A	68	-10.196	-1.332	47.192	1.00	51.27	C
ATOM	7236	O	GLY	A	68	-9.432	-1.650	48.092	1.00	50.99	O
ATOM	7238	N	SER	A	69	-10.981	-0.260	47.256	1.00	51.77	N
ATOM	7239	CA	SER	A	69	-10.959	0.650	48.391	1.00	52.17	C
ATOM	7241	CB	SER	A	69	-10.138	1.864	48.024	1.00	50.86	C
ATOM	7244	OG	SER	A	69	-10.575	2.340	46.777	1.00	59.28	O
ATOM	7246	C	SER	A	69	-12.382	1.049	48.788	1.00	53.47	C
ATOM	7247	O	SER	A	69	-13.348	0.465	48.298	1.00	55.90	O
ATOM	7249	N	GLY	A	70	-12.509	2.006	49.709	1.00	54.20	N
ATOM	7250	CA	GLY	A	70	-13.807	2.514	50.139	1.00	53.73	C
ATOM	7253	C	GLY	A	70	-14.384	1.787	51.341	1.00	54.85	C
ATOM	7254	O	GLY	A	70	-13.969	0.677	51.669	1.00	56.68	O

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ATOM	7256	N	SER	A	71	-15.356	2.427	51.989	1.00	54.91	N
ATOM	7257	CA	SER	A	71	-16.000	1.913	53.191	1.00	54.12	C
ATOM	7259	CB	SER	A	71	-15.161	2.242	54.422	1.00	53.07	C
ATOM	7262	OG	SER	A	71	-15.441	3.559	54.890	1.00	57.24	O
ATOM	7264	C	SER	A	71	-17.379	2.545	53.367	1.00	55.67	C
ATOM	7265	O	SER	A	71	-17.686	3.581	52.771	1.00	55.30	O
ATOM	7267	N	GLY	A	72	-18.189	1.941	54.232	1.00	57.09	N
ATOM	7268	CA	GLY	A	72	-19.520	2.452	54.532	1.00	55.83	C
ATOM	7271	C	GLY	A	72	-20.460	2.161	53.381	1.00	57.35	C
ATOM	7272	O	GLY	A	72	-21.050	1.073	53.303	1.00	59.43	O
ATOM	7274	N	THR	A	73	-20.574	3.120	52.469	1.00	55.93	N
ATOM	7275	CA	THR	A	73	-21.540	3.030	51.390	1.00	54.91	C
ATOM	7277	CB	THR	A	73	-22.703	4.005	51.659	1.00	53.72	C
ATOM	7279	OG1	THR	A	73	-23.872	3.536	50.984	1.00	58.09	O
ATOM	7281	CG2	THR	A	73	-22.369	5.433	51.220	1.00	52.98	C
ATOM	7285	C	THR	A	73	-20.958	3.236	49.985	1.00	55.23	C
ATOM	7286	O	THR	A	73	-21.652	3.020	48.991	1.00	56.02	O
ATOM	7288	N	ASP	A	74	-19.692	3.642	49.908	1.00	56.51	N
ATOM	7289	CA	ASP	A	74	-19.025	3.942	48.639	1.00	56.04	C
ATOM	7291	CB	ASP	A	74	-18.639	5.423	48.556	1.00	55.46	C
ATOM	7294	CG	ASP	A	74	-19.844	6.352	48.540	1.00	61.93	C
ATOM	7295	OD1	ASP	A	74	-19.639	7.577	48.680	1.00	68.46	O
ATOM	7296	OD2	ASP	A	74	-20.993	5.880	48.381	1.00	67.34	O
ATOM	7297	C	ASP	A	74	-17.767	3.107	48.533	1.00	54.94	C
ATOM	7298	O	ASP	A	74	-16.970	3.067	49.468	1.00	52.69	O
ATOM	7300	N	PHE	A	75	-17.595	2.443	47.390	1.00	54.87	N
ATOM	7301	CA	PHE	A	75	-16.428	1.604	47.141	1.00	55.21	C
ATOM	7303	CB	PHE	A	75	-16.782	0.146	47.387	1.00	55.21	C
ATOM	7306	CG	PHE	A	75	-17.312	-0.082	48.744	1.00	52.92	C
ATOM	7307	CD1	PHE	A	75	-16.460	-0.417	49.765	1.00	52.09	C
ATOM	7309	CE1	PHE	A	75	-16.937	-0.591	51.044	1.00	56.53	C
ATOM	7311	CZ	PHE	A	75	-18.289	-0.390	51.321	1.00	58.39	C
ATOM	7313	CE2	PHE	A	75	-19.154	-0.030	50.298	1.00	56.60	C
ATOM	7315	CD2	PHE	A	75	-18.657	0.131	49.019	1.00	54.00	C
ATOM	7317	C	PHE	A	75	-15.904	1.784	45.745	1.00	55.28	C
ATOM	7318	O	PHE	A	75	-16.603	2.291	44.872	1.00	56.32	O
ATOM	7320	N	THR	A	76	-14.661	1.367	45.546	1.00	56.75	N
ATOM	7321	CA	THR	A	76	-13.986	1.540	44.266	1.00	56.78	C
ATOM	7323	CB	THR	A	76	-13.141	2.821	44.276	1.00	55.69	C
ATOM	7325	OG1	THR	A	76	-13.948	3.914	44.720	1.00	57.58	O
ATOM	7327	CG2	THR	A	76	-12.597	3.122	42.892	1.00	55.81	C
ATOM	7331	C	THR	A	76	-13.072	0.363	43.931	1.00	56.89	C
ATOM	7332	O	THR	A	76	-12.251	-0.053	44.756	1.00	55.38	O
ATOM	7334	N	LEU	A	77	-13.235	-0.169	42.722	1.00	56.38	N
ATOM	7335	CA	LEU	A	77	-12.234	-1.043	42.127	1.00	56.83	C
ATOM	7337	CB	LEU	A	77	-12.893	-2.085	41.230	1.00	57.48	C
ATOM	7340	CG	LEU	A	77	-11.940	-3.084	40.571	1.00	56.79	C
ATOM	7342	CD1	LEU	A	77	-11.533	-4.145	41.568	1.00	56.56	C
ATOM	7346	CD2	LEU	A	77	-12.587	-3.712	39.346	1.00	57.61	C
ATOM	7350	C	LEU	A	77	-11.308	-0.175	41.288	1.00	56.72	C
ATOM	7351	O	LEU	A	77	-11.775	0.701	40.565	1.00	57.99	O
ATOM	7353	N	THR	A	78	-10.004	-0.414	41.374	1.00	56.10	N
ATOM	7354	CA	THR	A	78	-9.041	0.313	40.552	1.00	55.74	C
ATOM	7356	CB	THR	A	78	-8.213	1.289	41.404	1.00	54.03	C
ATOM	7358	OG1	THR	A	78	-9.085	2.273	41.958	1.00	53.94	O
ATOM	7360	CG2	THR	A	78	-7.172	1.996	40.570	1.00	54.92	C
ATOM	7364	C	THR	A	78	-8.121	-0.657	39.806	1.00	55.53	C
ATOM	7365	O	THR	A	78	-7.576	-1.595	40.404	1.00	52.71	O
ATOM	7367	N	ILE	A	79	-7.977	-0.423	38.497	1.00	55.87	N
ATOM	7368	CA	ILE	A	79	-6.981	-1.110	37.668	1.00	57.16	C
ATOM	7370	CB	ILE	A	79	-7.603	-1.777	36.408	1.00	57.32	C
ATOM	7372	CG1	ILE	A	79	-8.932	-2.461	36.740	1.00	57.61	C
ATOM	7375	CD1	ILE	A	79	-9.640	-3.041	35.524	1.00	58.33	C

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ATOM	7379	CG2	ILE	A	79	-6.610	-2.779	35.789	1.00	56.93	C
ATOM	7383	C	ILE	A	79	-5.921	-0.106	37.213	1.00	56.44	C
ATOM	7384	O	ILE	A	79	-6.125	0.637	36.249	1.00	57.25	O
ATOM	7386	N	SER	A	80	-4.793	-0.083	37.911	1.00	57.15	N
ATOM	7387	CA	SER	A	80	-3.686	0.812	37.559	1.00	58.14	C
ATOM	7389	CB	SER	A	80	-2.757	1.013	38.755	1.00	59.15	C
ATOM	7392	OG	SER	A	80	-2.139	-0.213	39.116	1.00	59.69	O
ATOM	7394	C	SER	A	80	-2.901	0.190	36.426	1.00	57.23	C
ATOM	7395	O	SER	A	80	-2.210	-0.800	36.631	1.00	59.05	O
ATOM	7397	N	SER	A	81	-2.999	0.761	35.238	1.00	55.34	N
ATOM	7398	CA	SER	A	81	-2.395	0.150	34.060	1.00	56.22	C
ATOM	7400	CB	SER	A	81	-0.949	-0.300	34.348	1.00	55.71	C
ATOM	7403	OG	SER	A	81	-0.171	-0.335	33.169	1.00	56.15	O
ATOM	7405	C	SER	A	81	-3.274	-1.012	33.557	1.00	55.92	C
ATOM	7406	O	SER	A	81	-3.194	-2.132	34.052	1.00	55.71	O
ATOM	7408	N	LEU	A	82	-4.116	-0.720	32.569	1.00	54.92	N
ATOM	7409	CA	LEU	A	82	-5.085	-1.677	32.040	1.00	54.27	C
ATOM	7411	CB	LEU	A	82	-6.288	-0.921	31.487	1.00	53.66	C
ATOM	7414	CG	LEU	A	82	-7.345	-1.788	30.812	1.00	54.67	C
ATOM	7416	CD1	LEU	A	82	-8.290	-2.386	31.864	1.00	56.13	C
ATOM	7420	CD2	LEU	A	82	-8.110	-0.980	29.774	1.00	54.60	C
ATOM	7424	C	LEU	A	82	-4.495	-2.506	30.912	1.00	53.85	C
ATOM	7425	O	LEU	A	82	-4.050	-1.950	29.914	1.00	53.85	O
ATOM	7427	N	GLN	A	83	-4.530	-3.829	31.044	1.00	53.85	N
ATOM	7428	CA	GLN	A	83	-4.055	-4.716	29.975	1.00	54.02	C
ATOM	7430	CB	GLN	A	83	-3.403	-5.979	30.540	1.00	53.64	C
ATOM	7433	CG	GLN	A	83	-2.419	-5.723	31.659	1.00	53.69	C
ATOM	7436	CD	GLN	A	83	-1.535	-4.528	31.408	1.00	52.02	C
ATOM	7437	OE1	GLN	A	83	-0.933	-4.395	30.339	1.00	50.05	O
ATOM	7438	NE2	GLN	A	83	-1.462	-3.636	32.392	1.00	49.57	N
ATOM	7441	C	GLN	A	83	-5.186	-5.113	29.043	1.00	54.44	C
ATOM	7442	O	GLN	A	83	-6.362	-4.903	29.350	1.00	55.00	O
ATOM	7444	N	ALA	A	84	-4.808	-5.699	27.908	1.00	53.86	N
ATOM	7445	CA	ALA	A	84	-5.759	-6.107	26.885	1.00	54.10	C
ATOM	7447	CB	ALA	A	84	-5.022	-6.624	25.656	1.00	53.64	C
ATOM	7451	C	ALA	A	84	-6.728	-7.164	27.408	1.00	54.54	C
ATOM	7452	O	ALA	A	84	-7.925	-7.109	27.108	1.00	53.93	O
ATOM	7454	N	GLU	A	85	-6.215	-8.102	28.208	1.00	55.06	N
ATOM	7455	CA	GLU	A	85	-7.039	-9.191	28.750	1.00	55.56	C
ATOM	7457	CB	GLU	A	85	-6.190	-10.452	28.996	1.00	56.05	C
ATOM	7460	CG	GLU	A	85	-5.453	-10.532	30.340	1.00	57.21	C
ATOM	7463	CD	GLU	A	85	-4.196	-9.679	30.405	1.00	63.04	C
ATOM	7464	OE1	GLU	A	85	-3.691	-9.227	29.344	1.00	68.17	O
ATOM	7465	OE2	GLU	A	85	-3.708	-9.473	31.537	1.00	59.53	O
ATOM	7466	C	GLU	A	85	-7.843	-8.804	30.008	1.00	55.93	C
ATOM	7467	O	GLU	A	85	-8.433	-9.674	30.669	1.00	55.78	O
ATOM	7469	N	ASP	A	86	-7.866	-7.508	30.331	1.00	55.50	N
ATOM	7470	CA	ASP	A	86	-8.756	-6.975	31.373	1.00	55.34	C
ATOM	7472	CB	ASP	A	86	-8.094	-5.793	32.097	1.00	55.33	C
ATOM	7475	CG	ASP	A	86	-6.767	-6.168	32.737	1.00	56.50	C
ATOM	7476	OD1	ASP	A	86	-6.478	-7.378	32.813	1.00	62.79	O
ATOM	7477	OD2	ASP	A	86	-6.010	-5.263	33.163	1.00	57.49	O
ATOM	7478	C	ASP	A	86	-10.104	-6.547	30.779	1.00	54.55	C
ATOM	7479	O	ASP	A	86	-11.024	-6.167	31.507	1.00	54.08	O
ATOM	7481	N	VAL	A	87	-10.220	-6.611	29.458	1.00	53.82	N
ATOM	7482	CA	VAL	A	87	-11.446	-6.211	28.789	1.00	53.67	C
ATOM	7484	CB	VAL	A	87	-11.226	-6.076	27.246	1.00	53.52	C
ATOM	7486	CG1	VAL	A	87	-11.322	-7.423	26.532	1.00	54.55	C
ATOM	7490	CG2	VAL	A	87	-12.189	-5.081	26.652	1.00	53.97	C
ATOM	7494	C	VAL	A	87	-12.524	-7.221	29.194	1.00	52.94	C
ATOM	7495	O	VAL	A	87	-12.381	-8.421	28.960	1.00	51.45	O
ATOM	7497	N	ALA	A	88	-13.567	-6.722	29.861	1.00	53.57	N
ATOM	7498	CA	ALA	A	88	-14.594	-7.563	30.505	1.00	52.41	C

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ATOM	7500	CB	ALA	A	88	-13.940	-8.539	31.490	1.00	51.52	C
ATOM	7504	C	ALA	A	88	-15.632	-6.696	31.234	1.00	52.14	C
ATOM	7505	O	ALA	A	88	-15.485	-5.475	31.329	1.00	51.35	O
ATOM	7507	N	VAL	A	89	-16.685	-7.334	31.741	1.00	53.01	N
ATOM	7508	CA	VAL	A	89	-17.688	-6.654	32.573	1.00	52.63	C
ATOM	7510	CB	VAL	A	89	-19.114	-7.097	32.208	1.00	51.69	C
ATOM	7512	CG1	VAL	A	89	-20.134	-6.425	33.113	1.00	52.60	C
ATOM	7516	CG2	VAL	A	89	-19.407	-6.766	30.742	1.00	49.94	C
ATOM	7520	C	VAL	A	89	-17.411	-6.918	34.059	1.00	52.90	C
ATOM	7521	O	VAL	A	89	-17.124	-8.049	34.444	1.00	55.74	O
ATOM	7523	N	TYR	A	90	-17.498	-5.870	34.881	1.00	52.72	N
ATOM	7524	CA	TYR	A	90	-17.139	-5.941	36.303	1.00	52.61	C
ATOM	7526	CB	TYR	A	90	-16.036	-4.927	36.603	1.00	51.58	C
ATOM	7529	CG	TYR	A	90	-14.706	-5.298	35.992	1.00	52.00	C
ATOM	7530	CD1	TYR	A	90	-14.322	-4.801	34.746	1.00	50.13	C
ATOM	7532	CE1	TYR	A	90	-13.102	-5.150	34.182	1.00	48.99	C
ATOM	7534	CZ	TYR	A	90	-12.256	-6.008	34.865	1.00	50.14	C
ATOM	7535	OH	TYR	A	90	-11.043	-6.366	34.335	1.00	51.47	O
ATOM	7537	CE2	TYR	A	90	-12.615	-6.512	36.092	1.00	51.56	C
ATOM	7539	CD2	TYR	A	90	-13.834	-6.159	36.652	1.00	51.85	C
ATOM	7541	C	TYR	A	90	-18.328	-5.684	37.230	1.00	52.79	C
ATOM	7542	O	TYR	A	90	-19.021	-4.675	37.101	1.00	53.04	O
ATOM	7544	N	TYR	A	91	-18.537	-6.593	38.178	1.00	54.01	N
ATOM	7545	CA	TYR	A	91	-19.675	-6.534	39.103	1.00	54.80	C
ATOM	7547	CB	TYR	A	91	-20.503	-7.823	38.999	1.00	53.92	C
ATOM	7550	CG	TYR	A	91	-21.130	-8.084	37.645	1.00	54.43	C
ATOM	7551	CD1	TYR	A	91	-22.388	-7.586	37.333	1.00	50.63	C
ATOM	7553	CE1	TYR	A	91	-22.978	-7.832	36.096	1.00	50.12	C
ATOM	7555	CZ	TYR	A	91	-22.309	-8.588	35.155	1.00	52.43	C
ATOM	7556	OH	TYR	A	91	-22.892	-8.831	33.934	1.00	53.15	O
ATOM	7558	CE2	TYR	A	91	-21.054	-9.100	35.435	1.00	54.13	C
ATOM	7560	CD2	TYR	A	91	-20.471	-8.848	36.681	1.00	54.93	C
ATOM	7562	C	TYR	A	91	-19.210	-6.376	40.554	1.00	55.26	C
ATOM	7563	O	TYR	A	91	-18.219	-6.979	40.950	1.00	55.07	O
ATOM	7565	N	CYS	A	92	-19.925	-5.568	41.340	1.00	56.72	N
ATOM	7566	CA	CYS	A	92	-19.740	-5.557	42.799	1.00	56.96	C
ATOM	7568	CB	CYS	A	92	-19.608	-4.140	43.392	1.00	55.92	C
ATOM	7571	SG	CYS	A	92	-21.050	-3.071	43.241	1.00	63.17	S
ATOM	7573	C	CYS	A	92	-20.898	-6.307	43.433	1.00	57.25	C
ATOM	7574	O	CYS	A	92	-21.929	-6.541	42.797	1.00	56.74	O
ATOM	7576	N	GLN	A	93	-20.715	-6.679	44.693	1.00	56.62	N
ATOM	7577	CA	GLN	A	93	-21.663	-7.523	45.393	1.00	56.15	C
ATOM	7579	CB	GLN	A	93	-21.379	-8.986	45.037	1.00	57.98	C
ATOM	7582	CG	GLN	A	93	-22.295	-10.036	45.683	1.00	58.17	C
ATOM	7585	CD	GLN	A	93	-21.580	-10.882	46.714	1.00	56.58	C
ATOM	7586	OE1	GLN	A	93	-20.509	-11.433	46.447	1.00	55.72	O
ATOM	7587	NE2	GLN	A	93	-22.174	-11.003	47.894	1.00	53.83	N
ATOM	7590	C	GLN	A	93	-21.493	-7.275	46.879	1.00	56.63	C
ATOM	7591	O	GLN	A	93	-20.373	-7.026	47.336	1.00	59.58	O
ATOM	7593	N	HIS	A	94	-22.598	-7.313	47.621	1.00	55.54	N
ATOM	7594	CA	HIS	A	94	-22.579	-7.114	49.072	1.00	54.51	C
ATOM	7596	CB	HIS	A	94	-23.499	-5.950	49.449	1.00	54.63	C
ATOM	7599	CG	HIS	A	94	-24.944	-6.329	49.558	1.00	53.37	C
ATOM	7600	ND1	HIS	A	94	-25.520	-6.729	50.743	1.00	54.18	N
ATOM	7602	CE1	HIS	A	94	-26.795	-7.008	50.542	1.00	57.87	C
ATOM	7604	NE2	HIS	A	94	-27.068	-6.801	49.267	1.00	56.34	N
ATOM	7606	CD2	HIS	A	94	-25.925	-6.381	48.629	1.00	56.76	C
ATOM	7608	C	HIS	A	94	-23.044	-8.396	49.770	1.00	53.97	C
ATOM	7609	O	HIS	A	94	-23.712	-9.220	49.148	1.00	54.58	O
ATOM	7611	N	SER	A	95	-22.698	-8.567	51.048	1.00	53.62	N
ATOM	7612	CA	SER	A	95	-23.309	-9.635	51.857	1.00	53.91	C
ATOM	7614	CB	SER	A	95	-22.408	-10.880	51.916	1.00	52.95	C
ATOM	7617	OG	SER	A	95	-21.462	-10.790	52.959	1.00	52.57	O

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ATOM	7619	C	SER	A	95	-23.744	-9.218	53.275	1.00	53.46	C
ATOM	7620	O	SER	A	95	-23.901	-10.066	54.145	1.00	55.35	O
ATOM	7622	N	ARG	A	96	-24.000	-7.927	53.466	1.00	52.66	N
ATOM	7623	CA	ARG	A	96	-24.400	-7.369	54.752	1.00	52.63	C
ATOM	7625	CB	ARG	A	96	-24.627	-5.861	54.610	1.00	53.08	C
ATOM	7628	CG	ARG	A	96	-24.999	-5.168	55.909	1.00	52.58	C
ATOM	7631	CD	ARG	A	96	-23.848	-5.201	56.891	1.00	52.12	C
ATOM	7634	NE	ARG	A	96	-24.241	-4.734	58.219	1.00	53.82	N
ATOM	7636	CZ	ARG	A	96	-24.848	-5.478	59.142	1.00	51.83	C
ATOM	7637	NH1	ARG	A	96	-25.172	-6.742	58.896	1.00	57.15	N
ATOM	7640	NH2	ARG	A	96	-25.135	-4.952	60.321	1.00	49.85	N
ATOM	7643	C	ARG	A	96	-25.661	-7.996	55.326	1.00	52.29	C
ATOM	7644	O	ARG	A	96	-25.788	-8.152	56.536	1.00	51.71	O
ATOM	7646	N	GLU	A	97	-26.609	-8.315	54.454	1.00	52.96	N
ATOM	7647	CA	GLU	A	97	-27.821	-9.034	54.846	1.00	53.56	C
ATOM	7649	CB	GLU	A	97	-28.880	-8.047	55.339	1.00	53.02	C
ATOM	7652	CG	GLU	A	97	-29.345	-7.073	54.253	1.00	58.84	C
ATOM	7655	CD	GLU	A	97	-30.179	-5.913	54.775	1.00	59.30	C
ATOM	7656	OE1	GLU	A	97	-29.786	-5.305	55.796	1.00	65.24	O
ATOM	7657	OE2	GLU	A	97	-31.216	-5.600	54.139	1.00	64.70	O
ATOM	7658	C	GLU	A	97	-28.325	-9.822	53.632	1.00	52.14	C
ATOM	7659	O	GLU	A	97	-27.807	-9.672	52.530	1.00	53.56	O
ATOM	7661	N	LEU	A	98	-29.315	-10.672	53.832	1.00	50.29	N
ATOM	7662	CA	LEU	A	98	-30.009	-11.282	52.706	1.00	51.31	C
ATOM	7664	CB	LEU	A	98	-30.608	-12.631	53.113	1.00	50.51	C
ATOM	7667	CG	LEU	A	98	-29.833	-13.898	52.731	1.00	51.04	C
ATOM	7669	CD1	LEU	A	98	-28.413	-13.809	53.106	1.00	56.07	C
ATOM	7673	CD2	LEU	A	98	-30.444	-15.092	53.411	1.00	53.98	C
ATOM	7677	C	LEU	A	98	-31.101	-10.320	52.226	1.00	50.17	C
ATOM	7678	O	LEU	A	98	-31.675	-9.604	53.038	1.00	55.19	O
ATOM	7680	N	PRO	A	99	-31.386	-10.278	50.917	1.00	47.74	N
ATOM	7681	CA	PRO	A	99	-30.712	-10.973	49.831	1.00	49.71	C
ATOM	7683	CB	PRO	A	99	-31.673	-10.808	48.655	1.00	48.71	C
ATOM	7686	CG	PRO	A	99	-32.405	-9.597	48.940	1.00	46.65	C
ATOM	7689	CD	PRO	A	99	-32.524	-9.489	50.425	1.00	45.81	C
ATOM	7692	C	PRO	A	99	-29.355	-10.366	49.478	1.00	51.03	C
ATOM	7693	O	PRO	A	99	-29.139	-9.155	49.638	1.00	51.72	O
ATOM	7694	N	TRP	A	100	-28.459	-11.229	49.007	1.00	50.96	N
ATOM	7695	CA	TRP	A	100	-27.146	-10.831	48.527	1.00	50.00	C
ATOM	7697	CB	TRP	A	100	-26.174	-12.012	48.639	1.00	50.47	C
ATOM	7700	CG	TRP	A	100	-25.953	-12.494	50.040	1.00	50.98	C
ATOM	7701	CD1	TRP	A	100	-25.847	-11.729	51.151	1.00	54.01	C
ATOM	7703	NE1	TRP	A	100	-25.616	-12.512	52.253	1.00	54.49	N
ATOM	7705	CE2	TRP	A	100	-25.562	-13.822	51.861	1.00	49.41	C
ATOM	7706	CD2	TRP	A	100	-25.770	-13.850	50.469	1.00	52.99	C
ATOM	7707	CE3	TRP	A	100	-25.763	-15.087	49.809	1.00	55.37	C
ATOM	7709	CZ3	TRP	A	100	-25.561	-16.243	50.562	1.00	56.13	C
ATOM	7711	CH2	TRP	A	100	-25.364	-16.175	51.957	1.00	54.04	C
ATOM	7713	CZ2	TRP	A	100	-25.369	-14.977	52.616	1.00	48.69	C
ATOM	7715	C	TRP	A	100	-27.257	-10.352	47.071	1.00	48.92	C
ATOM	7716	O	TRP	A	100	-27.376	-11.155	46.147	1.00	48.02	O
ATOM	7718	N	THR	A	101	-27.224	-9.040	46.868	1.00	48.80	N
ATOM	7719	CA	THR	A	101	-27.430	-8.471	45.533	1.00	48.58	C
ATOM	7721	CB	THR	A	101	-28.487	-7.372	45.566	1.00	47.16	C
ATOM	7723	OG1	THR	A	101	-28.111	-6.378	46.531	1.00	49.81	O
ATOM	7725	CG2	THR	A	101	-29.840	-7.962	45.940	1.00	44.07	C
ATOM	7729	C	THR	A	101	-26.138	-7.948	44.869	1.00	48.42	C
ATOM	7730	O	THR	A	101	-25.174	-7.547	45.540	1.00	46.67	O
ATOM	7732	N	PHE	A	102	-26.141	-7.990	43.539	1.00	47.33	N
ATOM	7733	CA	PHE	A	102	-25.065	-7.461	42.728	1.00	48.71	C
ATOM	7735	CB	PHE	A	102	-24.836	-8.375	41.530	1.00	49.22	C
ATOM	7738	CG	PHE	A	102	-24.308	-9.735	41.871	1.00	48.06	C
ATOM	7739	CD1	PHE	A	102	-22.948	-9.990	41.839	1.00	47.28	C

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ATOM	7741	CE1	PHE	A	102	-22.459	-11.242	42.114	1.00	47.72	C
ATOM	7743	CZ	PHE	A	102	-23.320	-12.274	42.410	1.00	49.08	C
ATOM	7745	CE2	PHE	A	102	-24.672	-12.045	42.429	1.00	52.29	C
ATOM	7747	CD2	PHE	A	102	-25.165	-10.776	42.151	1.00	50.38	C
ATOM	7749	C	PHE	A	102	-25.392	-6.054	42.183	1.00	48.86	C
ATOM	7750	O	PHE	A	102	-26.530	-5.583	42.243	1.00	46.85	O
ATOM	7752	N	GLY	A	103	-24.373	-5.393	41.651	1.00	50.32	N
ATOM	7753	CA	GLY	A	103	-24.561	-4.175	40.865	1.00	51.64	C
ATOM	7756	C	GLY	A	103	-24.857	-4.527	39.417	1.00	52.58	C
ATOM	7757	O	GLY	A	103	-24.665	-5.672	39.009	1.00	53.77	O
ATOM	7759	N	GLN	A	104	-25.307	-3.547	38.634	1.00	51.82	N
ATOM	7760	CA	GLN	A	104	-25.784	-3.819	37.275	1.00	51.41	C
ATOM	7762	CB	GLN	A	104	-26.653	-2.660	36.755	1.00	51.48	C
ATOM	7765	CG	GLN	A	104	-25.918	-1.472	36.086	1.00	54.19	C
ATOM	7768	CD	GLN	A	104	-25.046	-0.637	37.035	1.00	54.97	C
ATOM	7769	OE1	GLN	A	104	-25.432	-0.328	38.165	1.00	52.40	O
ATOM	7770	NE2	GLN	A	104	-23.870	-0.249	36.552	1.00	53.59	N
ATOM	7773	C	GLN	A	104	-24.658	-4.168	36.288	1.00	51.25	C
ATOM	7774	O	GLN	A	104	-24.925	-4.495	35.128	1.00	51.06	O
ATOM	7776	N	GLY	A	105	-23.410	-4.097	36.746	1.00	52.04	N
ATOM	7777	CA	GLY	A	105	-22.253	-4.457	35.920	1.00	53.02	C
ATOM	7780	C	GLY	A	105	-21.667	-3.266	35.187	1.00	52.44	C
ATOM	7781	O	GLY	A	105	-22.410	-2.394	34.746	1.00	54.03	O
ATOM	7783	N	THR	A	106	-20.338	-3.222	35.069	1.00	52.03	N
ATOM	7784	CA	THR	A	106	-19.651	-2.143	34.341	1.00	52.72	C
ATOM	7786	CB	THR	A	106	-18.836	-1.204	35.291	1.00	52.36	C
ATOM	7788	OG1	THR	A	106	-19.726	-0.394	36.070	1.00	49.16	O
ATOM	7790	CG2	THR	A	106	-17.921	-0.278	34.499	1.00	51.63	C
ATOM	7794	C	THR	A	106	-18.729	-2.726	33.265	1.00	52.67	C
ATOM	7795	O	THR	A	106	-17.800	-3.476	33.563	1.00	52.64	O
ATOM	7797	N	LYS	A	107	-18.997	-2.356	32.019	1.00	53.56	N
ATOM	7798	CA	LYS	A	107	-18.216	-2.797	30.865	1.00	54.50	C
ATOM	7800	CB	LYS	A	107	-19.056	-2.633	29.584	1.00	55.33	C
ATOM	7803	CG	LYS	A	107	-18.694	-3.555	28.426	1.00	55.32	C
ATOM	7806	CD	LYS	A	107	-19.661	-3.351	27.255	1.00	57.23	C
ATOM	7809	CE	LYS	A	107	-19.892	-4.643	26.463	1.00	59.97	C
ATOM	7812	NZ	LYS	A	107	-20.999	-4.524	25.456	1.00	58.78	N
ATOM	7816	C	LYS	A	107	-16.937	-1.960	30.763	1.00	54.40	C
ATOM	7817	O	LYS	A	107	-16.979	-0.728	30.828	1.00	53.19	O
ATOM	7819	N	VAL	A	108	-15.804	-2.637	30.606	1.00	54.82	N
ATOM	7820	CA	VAL	A	108	-14.511	-1.969	30.472	1.00	55.05	C
ATOM	7822	CB	VAL	A	108	-13.567	-2.356	31.613	1.00	54.32	C
ATOM	7824	CG1	VAL	A	108	-12.180	-1.740	31.403	1.00	54.65	C
ATOM	7828	CG2	VAL	A	108	-14.159	-1.908	32.934	1.00	54.76	C
ATOM	7832	C	VAL	A	108	-13.879	-2.342	29.139	1.00	55.39	C
ATOM	7833	O	VAL	A	108	-13.765	-3.524	28.815	1.00	56.54	O
ATOM	7835	N	GLU	A	109	-13.461	-1.330	28.380	1.00	55.65	N
ATOM	7836	CA	GLU	A	109	-13.000	-1.520	27.010	1.00	55.70	C
ATOM	7838	CB	GLU	A	109	-14.096	-1.111	26.023	1.00	55.49	C
ATOM	7841	CG	GLU	A	109	-15.315	-2.019	26.060	1.00	57.22	C
ATOM	7844	CD	GLU	A	109	-16.368	-1.649	25.026	1.00	59.67	C
ATOM	7845	OE1	GLU	A	109	-17.384	-2.374	24.913	1.00	65.87	O
ATOM	7846	OE2	GLU	A	109	-16.187	-0.641	24.314	1.00	65.28	O
ATOM	7847	C	GLU	A	109	-11.735	-0.738	26.727	1.00	54.66	C
ATOM	7848	O	GLU	A	109	-11.360	0.158	27.483	1.00	54.68	O
ATOM	7850	N	ILE	A	110	-11.092	-1.095	25.619	1.00	54.72	N
ATOM	7851	CA	ILE	A	110	-9.846	-0.474	25.179	1.00	54.28	C
ATOM	7853	CB	ILE	A	110	-8.905	-1.525	24.520	1.00	53.48	C
ATOM	7855	CG1	ILE	A	110	-8.066	-2.224	25.588	1.00	53.77	C
ATOM	7858	CD1	ILE	A	110	-8.881	-3.021	26.591	1.00	58.37	C
ATOM	7862	CG2	ILE	A	110	-7.955	-0.889	23.512	1.00	55.60	C
ATOM	7866	C	ILE	A	110	-10.124	0.675	24.210	1.00	53.88	C
ATOM	7867	O	ILE	A	110	-10.812	0.493	23.211	1.00	53.96	O

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ATOM	7869	N	LYS	A	111	-9.601	1.859	24.529	1.00	53.81	N
ATOM	7870	CA	LYS	A	111	-9.520	2.957	23.566	1.00	53.70	C
ATOM	7872	CB	LYS	A	111	-9.334	4.321	24.247	1.00	54.81	C
ATOM	7875	CG	LYS	A	111	-10.597	5.186	24.332	1.00	55.76	C
ATOM	7878	CD	LYS	A	111	-10.225	6.673	24.356	1.00	54.86	C
ATOM	7881	CE	LYS	A	111	-11.443	7.572	24.436	1.00	56.09	C
ATOM	7884	NZ	LYS	A	111	-11.130	8.946	23.941	1.00	56.07	N
ATOM	7888	C	LYS	A	111	-8.353	2.674	22.622	1.00	52.73	C
ATOM	7889	O	LYS	A	111	-7.286	2.224	23.040	1.00	52.75	O
ATOM	7891	N	ARG	A	112	-8.564	2.970	21.349	1.00	52.16	N
ATOM	7892	CA	ARG	A	112	-7.737	2.438	20.279	1.00	51.34	C
ATOM	7894	CB	ARG	A	112	-8.366	1.124	19.796	1.00	51.68	C
ATOM	7897	CG	ARG	A	112	-7.402	0.056	19.307	1.00	50.70	C
ATOM	7900	CD	ARG	A	112	-8.101	-0.871	18.306	1.00	49.45	C
ATOM	7903	NE	ARG	A	112	-8.000	-0.347	16.947	1.00	43.37	N
ATOM	7905	CZ	ARG	A	112	-7.017	-0.634	16.096	1.00	42.48	C
ATOM	7906	NH1	ARG	A	112	-6.042	-1.475	16.420	1.00	43.80	N
ATOM	7909	NH2	ARG	A	112	-7.016	-0.084	14.896	1.00	45.43	N
ATOM	7912	C	ARG	A	112	-7.694	3.438	19.130	1.00	50.60	C
ATOM	7913	O	ARG	A	112	-8.498	4.370	19.071	1.00	49.78	O
ATOM	7915	N	THR	A	113	-6.761	3.245	18.210	1.00	50.40	N
ATOM	7916	CA	THR	A	113	-6.773	4.017	16.978	1.00	50.07	C
ATOM	7918	CB	THR	A	113	-5.461	3.877	16.187	1.00	49.90	C
ATOM	7920	OG1	THR	A	113	-5.318	2.529	15.726	1.00	51.67	O
ATOM	7922	CG2	THR	A	113	-4.261	4.250	17.053	1.00	50.19	C
ATOM	7926	C	THR	A	113	-7.939	3.511	16.138	1.00	49.54	C
ATOM	7927	O	THR	A	113	-8.385	2.377	16.300	1.00	48.69	O
ATOM	7929	N	VAL	A	114	-8.434	4.366	15.254	1.00	49.70	N
ATOM	7930	CA	VAL	A	114	-9.531	4.005	14.377	1.00	49.23	C
ATOM	7932	CB	VAL	A	114	-10.137	5.246	13.694	1.00	48.83	C
ATOM	7934	CG1	VAL	A	114	-11.138	4.839	12.602	1.00	48.71	C
ATOM	7938	CG2	VAL	A	114	-10.793	6.150	14.726	1.00	47.21	C
ATOM	7942	C	VAL	A	114	-9.026	3.029	13.318	1.00	49.85	C
ATOM	7943	O	VAL	A	114	-7.996	3.270	12.679	1.00	49.97	O
ATOM	7945	N	ALA	A	115	-9.758	1.927	13.161	1.00	50.08	N
ATOM	7946	CA	ALA	A	115	-9.490	0.922	12.138	1.00	49.55	C
ATOM	7948	CB	ALA	A	115	-9.220	-0.438	12.781	1.00	48.81	C
ATOM	7952	C	ALA	A	115	-10.706	0.833	11.230	1.00	49.65	C
ATOM	7953	O	ALA	A	115	-11.824	0.691	11.723	1.00	49.77	O
ATOM	7955	N	ALA	A	116	-10.488	0.920	9.917	1.00	49.56	N
ATOM	7956	CA	ALA	A	116	-11.565	0.786	8.935	1.00	49.41	C
ATOM	7958	CB	ALA	A	116	-11.090	1.241	7.563	1.00	48.58	C
ATOM	7962	C	ALA	A	116	-12.057	-0.663	8.864	1.00	50.01	C
ATOM	7963	O	ALA	A	116	-11.254	-1.595	8.956	1.00	49.43	O
ATOM	7965	N	PRO	A	117	-13.382	-0.860	8.710	1.00	50.75	N
ATOM	7966	CA	PRO	A	117	-13.883	-2.212	8.464	1.00	50.58	C
ATOM	7968	CB	PRO	A	117	-15.382	-2.104	8.759	1.00	50.21	C
ATOM	7971	CG	PRO	A	117	-15.719	-0.667	8.592	1.00	49.70	C
ATOM	7974	CD	PRO	A	117	-14.465	0.141	8.756	1.00	50.74	C
ATOM	7977	C	PRO	A	117	-13.672	-2.625	7.012	1.00	51.44	C
ATOM	7978	O	PRO	A	117	-14.023	-1.872	6.102	1.00	50.88	O
ATOM	7979	N	SER	A	118	-13.084	-3.797	6.799	1.00	51.74	N
ATOM	7980	CA	SER	A	118	-13.089	-4.407	5.479	1.00	50.75	C
ATOM	7982	CB	SER	A	118	-12.096	-5.571	5.408	1.00	50.93	C
ATOM	7985	OG	SER	A	118	-10.764	-5.122	5.578	1.00	50.05	O
ATOM	7987	C	SER	A	118	-14.511	-4.906	5.266	1.00	51.06	C
ATOM	7988	O	SER	A	118	-15.121	-5.420	6.204	1.00	51.50	O
ATOM	7990	N	VAL	A	119	-15.041	-4.730	4.053	1.00	50.99	N
ATOM	7991	CA	VAL	A	119	-16.410	-5.150	3.722	1.00	49.93	C
ATOM	7993	CB	VAL	A	119	-17.306	-3.929	3.399	1.00	49.47	C
ATOM	7995	CG1	VAL	A	119	-18.764	-4.355	3.228	1.00	47.94	C
ATOM	7999	CG2	VAL	A	119	-17.177	-2.859	4.497	1.00	48.88	C
ATOM	8003	C	VAL	A	119	-16.418	-6.133	2.548	1.00	49.26	C

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ATOM	8004	O	VAL	A	119	-16.619	-7.338	2.728	1.00	48.94	O
ATOM	8006	N	VAL	A	137	-26.350	-11.364	3.345	1.00	52.92	N
ATOM	8007	CA	VAL	A	137	-25.473	-11.254	4.508	1.00	53.45	C
ATOM	8009	CB	VAL	A	137	-24.879	-12.620	4.906	1.00	52.41	C
ATOM	8011	CG1	VAL	A	137	-23.918	-12.468	6.093	1.00	50.85	C
ATOM	8015	CG2	VAL	A	137	-25.990	-13.602	5.241	1.00	52.25	C
ATOM	8019	C	VAL	A	137	-24.315	-10.284	4.276	1.00	53.76	C
ATOM	8020	O	VAL	A	137	-23.485	-10.509	3.401	1.00	54.18	O
ATOM	8022	N	CYS	A	138	-24.252	-9.233	5.091	1.00	54.63	N
ATOM	8023	CA	CYS	A	138	-23.176	-8.246	5.022	1.00	54.74	C
ATOM	8025	CB	CYS	A	138	-23.751	-6.836	5.120	1.00	55.44	C
ATOM	8028	SG	CYS	A	138	-22.624	-5.571	4.524	1.00	56.29	S
ATOM	8030	C	CYS	A	138	-22.171	-8.457	6.147	1.00	55.03	C
ATOM	8031	O	CYS	A	138	-22.554	-8.786	7.268	1.00	56.14	O
ATOM	8033	N	LEU	A	139	-20.890	-8.256	5.848	1.00	54.31	N
ATOM	8034	CA	LEU	A	139	-19.826	-8.442	6.830	1.00	53.98	C
ATOM	8036	CB	LEU	A	139	-18.983	-9.663	6.469	1.00	53.28	C
ATOM	8039	CG	LEU	A	139	-17.700	-9.830	7.293	1.00	53.23	C
ATOM	8041	CD1	LEU	A	139	-18.030	-9.996	8.772	1.00	51.68	C
ATOM	8045	CD2	LEU	A	139	-16.892	-11.000	6.782	1.00	52.53	C
ATOM	8049	C	LEU	A	139	-18.914	-7.226	6.903	1.00	54.68	C
ATOM	8050	O	LEU	A	139	-18.308	-6.845	5.904	1.00	56.02	O
ATOM	8052	N	LEU	A	140	-18.804	-6.637	8.090	1.00	54.60	N
ATOM	8053	CA	LEU	A	140	-17.828	-5.576	8.349	1.00	54.27	C
ATOM	8055	CB	LEU	A	140	-18.487	-4.378	9.045	1.00	54.07	C
ATOM	8058	CG	LEU	A	140	-19.584	-3.624	8.280	1.00	52.55	C
ATOM	8060	CD1	LEU	A	140	-20.827	-4.478	8.019	1.00	51.87	C
ATOM	8064	CD2	LEU	A	140	-19.961	-2.385	9.053	1.00	52.40	C
ATOM	8068	C	LEU	A	140	-16.749	-6.175	9.237	1.00	54.38	C
ATOM	8069	O	LEU	A	140	-17.044	-6.627	10.343	1.00	55.50	O
ATOM	8071	N	ASN	A	141	-15.506	-6.189	8.762	1.00	54.13	N
ATOM	8072	CA	ASN	A	141	-14.439	-6.912	9.455	1.00	54.40	C
ATOM	8074	CB	ASN	A	141	-13.759	-7.887	8.484	1.00	54.36	C
ATOM	8077	CG	ASN	A	141	-13.104	-9.081	9.185	1.00	53.38	C
ATOM	8078	OD1	ASN	A	141	-12.731	-10.048	8.530	1.00	51.81	O
ATOM	8079	ND2	ASN	A	141	-12.964	-9.019	10.504	1.00	55.85	N
ATOM	8082	C	ASN	A	141	-13.395	-5.990	10.102	1.00	55.01	C
ATOM	8083	O	ASN	A	141	-12.799	-5.139	9.433	1.00	55.64	O
ATOM	8085	N	ASN	A	142	-13.206	-6.180	11.411	1.00	54.47	N
ATOM	8086	CA	ASN	A	142	-12.149	-5.547	12.213	1.00	53.54	C
ATOM	8088	CB	ASN	A	142	-10.787	-6.176	11.889	1.00	52.77	C
ATOM	8091	CG	ASN	A	142	-10.739	-7.670	12.205	1.00	52.05	C
ATOM	8092	OD1	ASN	A	142	-11.202	-8.112	13.256	1.00	51.93	O
ATOM	8093	ND2	ASN	A	142	-10.185	-8.451	11.288	1.00	51.89	N
ATOM	8096	C	ASN	A	142	-12.095	-4.024	12.130	1.00	53.21	C
ATOM	8097	O	ASN	A	142	-11.225	-3.457	11.475	1.00	54.01	O
ATOM	8099	N	PHE	A	143	-13.030	-3.374	12.823	1.00	54.16	N
ATOM	8100	CA	PHE	A	143	-13.115	-1.909	12.864	1.00	54.45	C
ATOM	8102	CB	PHE	A	143	-14.330	-1.421	12.072	1.00	55.13	C
ATOM	8105	CG	PHE	A	143	-15.656	-1.852	12.649	1.00	54.31	C
ATOM	8106	CD1	PHE	A	143	-16.322	-1.050	13.563	1.00	55.41	C
ATOM	8108	CE1	PHE	A	143	-17.550	-1.440	14.095	1.00	55.65	C
ATOM	8110	CZ	PHE	A	143	-18.123	-2.642	13.708	1.00	55.84	C
ATOM	8112	CE2	PHE	A	143	-17.469	-3.451	12.792	1.00	55.98	C
ATOM	8114	CD2	PHE	A	143	-16.243	-3.051	12.264	1.00	55.54	C
ATOM	8116	C	PHE	A	143	-13.192	-1.366	14.288	1.00	54.61	C
ATOM	8117	O	PHE	A	143	-13.381	-2.124	15.243	1.00	54.71	O
ATOM	8119	N	TYR	A	144	-13.047	-0.048	14.417	1.00	54.02	N
ATOM	8120	CA	TYR	A	144	-13.157	0.619	15.716	1.00	54.45	C
ATOM	8122	CB	TYR	A	144	-11.862	0.444	16.533	1.00	53.86	C
ATOM	8125	CG	TYR	A	144	-11.971	0.974	17.951	1.00	54.68	C
ATOM	8126	CD1	TYR	A	144	-11.704	2.313	18.237	1.00	55.07	C
ATOM	8128	CE1	TYR	A	144	-11.823	2.811	19.528	1.00	52.91	C

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ATOM	8130	CZ	TYR	A	144	-12.214	1.970	20.547	1.00	53.28	C
ATOM	8131	OH	TYR	A	144	-12.329	2.469	21.822	1.00	55.54	O
ATOM	8133	CE2	TYR	A	144	-12.489	0.637	20.293	1.00	53.44	C
ATOM	8135	CD2	TYR	A	144	-12.367	0.145	19.002	1.00	54.46	C
ATOM	8137	C	TYR	A	144	-13.458	2.108	15.518	1.00	55.01	C
ATOM	8138	O	TYR	A	144	-12.868	2.735	14.637	1.00	55.16	O
ATOM	8140	N	PRO	A	145	-14.368	2.685	16.332	1.00	55.73	N
ATOM	8141	CA	PRO	A	145	-15.161	2.107	17.412	1.00	56.70	C
ATOM	8143	CB	PRO	A	145	-15.390	3.309	18.333	1.00	56.28	C
ATOM	8146	CG	PRO	A	145	-15.447	4.472	17.417	1.00	55.85	C
ATOM	8149	CD	PRO	A	145	-14.665	4.121	16.174	1.00	55.75	C
ATOM	8152	C	PRO	A	145	-16.492	1.517	16.917	1.00	57.75	C
ATOM	8153	O	PRO	A	145	-16.688	1.363	15.709	1.00	58.63	O
ATOM	8154	N	ARG	A	146	-17.388	1.192	17.848	1.00	58.22	N
ATOM	8155	CA	ARG	A	146	-18.698	0.625	17.525	1.00	58.14	C
ATOM	8157	CB	ARG	A	146	-19.180	-0.236	18.699	1.00	58.94	C
ATOM	8160	CG	ARG	A	146	-20.125	-1.365	18.309	1.00	60.14	C
ATOM	8163	CD	ARG	A	146	-20.915	-1.924	19.508	1.00	61.01	C
ATOM	8166	NE	ARG	A	146	-20.064	-2.473	20.570	1.00	64.92	N
ATOM	8168	CZ	ARG	A	146	-20.469	-3.339	21.502	1.00	64.17	C
ATOM	8169	NH1	ARG	A	146	-21.721	-3.785	21.519	1.00	65.11	N
ATOM	8172	NH2	ARG	A	146	-19.611	-3.774	22.420	1.00	62.06	N
ATOM	8175	C	ARG	A	146	-19.726	1.722	17.227	1.00	56.33	C
ATOM	8176	O	ARG	A	146	-19.790	2.254	16.122	1.00	54.77	O
ATOM	8178	N	SER	A	160	-36.742	-0.105	5.921	1.00	47.65	N
ATOM	8179	CA	SER	A	160	-36.853	-1.554	5.872	1.00	48.11	C
ATOM	8181	CB	SER	A	160	-35.716	-2.138	5.035	1.00	47.68	C
ATOM	8184	OG	SER	A	160	-35.706	-1.600	3.728	1.00	46.12	O
ATOM	8186	C	SER	A	160	-36.801	-2.152	7.273	1.00	48.80	C
ATOM	8187	O	SER	A	160	-36.028	-1.701	8.114	1.00	49.61	O
ATOM	8189	N	GLY	A	161	-37.626	-3.166	7.516	1.00	49.18	N
ATOM	8190	CA	GLY	A	161	-37.570	-3.947	8.754	1.00	49.41	C
ATOM	8193	C	GLY	A	161	-37.327	-5.418	8.458	1.00	49.98	C
ATOM	8194	O	GLY	A	161	-37.954	-6.290	9.060	1.00	50.56	O
ATOM	8196	N	ASN	A	162	-36.405	-5.686	7.532	1.00	50.18	N
ATOM	8197	CA	ASN	A	162	-36.124	-7.045	7.036	1.00	49.88	C
ATOM	8199	CB	ASN	A	162	-36.604	-7.178	5.583	1.00	48.98	C
ATOM	8202	CG	ASN	A	162	-36.151	-6.017	4.705	1.00	47.85	C
ATOM	8203	OD1	ASN	A	162	-34.971	-5.662	4.674	1.00	48.45	O
ATOM	8204	ND2	ASN	A	162	-37.093	-5.414	3.997	1.00	46.18	N
ATOM	8207	C	ASN	A	162	-34.637	-7.415	7.150	1.00	50.21	C
ATOM	8208	O	ASN	A	162	-34.149	-8.318	6.461	1.00	50.61	O
ATOM	8210	N	SER	A	163	-33.930	-6.710	8.028	1.00	50.15	N
ATOM	8211	CA	SER	A	163	-32.514	-6.947	8.262	1.00	50.83	C
ATOM	8213	CB	SER	A	163	-31.660	-5.957	7.466	1.00	51.23	C
ATOM	8216	OG	SER	A	163	-31.782	-4.635	7.975	1.00	50.65	O
ATOM	8218	C	SER	A	163	-32.217	-6.788	9.743	1.00	51.26	C
ATOM	8219	O	SER	A	163	-32.763	-5.896	10.392	1.00	52.28	O
ATOM	8221	N	GLN	A	164	-31.349	-7.649	10.264	1.00	50.89	N
ATOM	8222	CA	GLN	A	164	-30.905	-7.576	11.659	1.00	51.71	C
ATOM	8224	CB	GLN	A	164	-31.667	-8.593	12.522	1.00	51.48	C
ATOM	8227	CG	GLN	A	164	-31.821	-9.978	11.880	1.00	51.08	C
ATOM	8230	CD	GLN	A	164	-32.641	-10.939	12.710	1.00	49.96	C
ATOM	8231	OE1	GLN	A	164	-33.117	-10.596	13.790	1.00	46.20	O
ATOM	8232	NE2	GLN	A	164	-32.812	-12.156	12.206	1.00	47.01	N
ATOM	8235	C	GLN	A	164	-29.392	-7.816	11.712	1.00	53.01	C
ATOM	8236	O	GLN	A	164	-28.825	-8.434	10.807	1.00	54.44	O
ATOM	8238	N	GLU	A	165	-28.730	-7.323	12.752	1.00	53.17	N
ATOM	8239	CA	GLU	A	165	-27.273	-7.427	12.807	1.00	53.68	C
ATOM	8241	CB	GLU	A	165	-26.621	-6.082	12.460	1.00	54.11	C
ATOM	8244	CG	GLU	A	165	-27.462	-4.861	12.792	1.00	55.35	C
ATOM	8247	CD	GLU	A	165	-26.721	-3.563	12.526	1.00	55.26	C
ATOM	8248	OE1	GLU	A	165	-25.626	-3.379	13.095	1.00	54.38	O

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ATOM	8249	OE2	GLU	A	165	-27.236	-2.724	11.759	1.00	57.24	O
ATOM	8250	C	GLU	A	165	-26.745	-7.959	14.134	1.00	52.96	C
ATOM	8251	O	GLU	A	165	-27.397	-7.832	15.165	1.00	52.13	O
ATOM	8253	N	SER	A	166	-25.564	-8.572	14.083	1.00	53.53	N
ATOM	8254	CA	SER	A	166	-24.878	-9.080	15.280	1.00	54.46	C
ATOM	8256	CB	SER	A	166	-24.863	-10.612	15.298	1.00	54.98	C
ATOM	8259	OG	SER	A	166	-24.240	-11.106	16.475	1.00	53.82	O
ATOM	8261	C	SER	A	166	-23.448	-8.552	15.333	1.00	54.86	C
ATOM	8262	O	SER	A	166	-22.759	-8.503	14.309	1.00	55.52	O
ATOM	8264	N	VAL	A	167	-23.010	-8.181	16.535	1.00	54.69	N
ATOM	8265	CA	VAL	A	167	-21.699	-7.567	16.753	1.00	54.47	C
ATOM	8267	CB	VAL	A	167	-21.848	-6.073	17.172	1.00	54.48	C
ATOM	8269	CG1	VAL	A	167	-22.861	-5.898	18.303	1.00	54.93	C
ATOM	8273	CG2	VAL	A	167	-20.500	-5.469	17.555	1.00	55.79	C
ATOM	8277	C	VAL	A	167	-20.898	-8.361	17.798	1.00	54.48	C
ATOM	8278	O	VAL	A	167	-21.455	-8.820	18.795	1.00	54.42	O
ATOM	8280	N	THR	A	168	-19.598	-8.534	17.556	1.00	55.27	N
ATOM	8281	CA	THR	A	168	-18.714	-9.250	18.492	1.00	55.17	C
ATOM	8283	CB	THR	A	168	-17.457	-9.839	17.785	1.00	55.15	C
ATOM	8285	OG1	THR	A	168	-16.790	-8.812	17.036	1.00	55.27	O
ATOM	8287	CG2	THR	A	168	-17.832	-10.990	16.860	1.00	54.96	C
ATOM	8291	C	THR	A	168	-18.221	-8.341	19.618	1.00	55.08	C
ATOM	8292	O	THR	A	168	-18.278	-7.111	19.517	1.00	54.83	O
ATOM	8294	N	GLU	A	169	-17.733	-8.967	20.686	1.00	55.14	N
ATOM	8295	CA	GLU	A	169	-16.988	-8.264	21.733	1.00	55.30	C
ATOM	8297	CB	GLU	A	169	-16.850	-9.140	22.981	1.00	55.53	C
ATOM	8300	CG	GLU	A	169	-18.177	-9.504	23.636	1.00	57.81	C
ATOM	8303	CD	GLU	A	169	-18.696	-8.433	24.581	1.00	60.48	C
ATOM	8304	OE1	GLU	A	169	-18.468	-7.232	24.330	1.00	62.19	O
ATOM	8305	OE2	GLU	A	169	-19.348	-8.798	25.582	1.00	63.26	O
ATOM	8306	C	GLU	A	169	-15.600	-7.886	21.207	1.00	55.10	C
ATOM	8307	O	GLU	A	169	-15.083	-8.525	20.290	1.00	56.12	O
ATOM	8309	N	GLN	A	170	-15.006	-6.847	21.787	1.00	53.52	N
ATOM	8310	CA	GLN	A	170	-13.671	-6.387	21.394	1.00	52.45	C
ATOM	8312	CB	GLN	A	170	-13.160	-5.354	22.405	1.00	52.40	C
ATOM	8315	CG	GLN	A	170	-12.549	-4.110	21.796	1.00	51.45	C
ATOM	8318	CD	GLN	A	170	-12.176	-3.075	22.841	1.00	51.48	C
ATOM	8319	OE1	GLN	A	170	-12.497	-3.218	24.024	1.00	49.48	O
ATOM	8320	NE2	GLN	A	170	-11.490	-2.024	22.409	1.00	48.24	N
ATOM	8323	C	GLN	A	170	-12.700	-7.572	21.308	1.00	51.71	C
ATOM	8324	O	GLN	A	170	-12.640	-8.401	22.220	1.00	50.99	O
ATOM	8326	N	ASP	A	171	-11.954	-7.651	20.209	1.00	51.94	N
ATOM	8327	CA	ASP	A	171	-11.039	-8.770	19.956	1.00	52.82	C
ATOM	8329	CB	ASP	A	171	-10.508	-8.685	18.517	1.00	52.66	C
ATOM	8332	CG	ASP	A	171	-9.890	-9.991	18.027	1.00	52.81	C
ATOM	8333	OD1	ASP	A	171	-9.208	-10.685	18.811	1.00	50.99	O
ATOM	8334	OD2	ASP	A	171	-10.073	-10.309	16.832	1.00	55.51	O
ATOM	8335	C	ASP	A	171	-9.866	-8.779	20.948	1.00	53.35	C
ATOM	8336	O	ASP	A	171	-9.300	-7.727	21.252	1.00	53.94	O
ATOM	8338	N	SER	A	172	-9.491	-9.969	21.424	1.00	53.69	N
ATOM	8339	CA	SER	A	172	-8.437	-10.121	22.450	1.00	53.40	C
ATOM	8341	CB	SER	A	172	-8.504	-11.513	23.092	1.00	52.64	C
ATOM	8344	OG	SER	A	172	-8.211	-12.525	22.143	1.00	50.98	O
ATOM	8346	C	SER	A	172	-7.010	-9.873	21.943	1.00	53.76	C
ATOM	8347	O	SER	A	172	-6.064	-9.888	22.735	1.00	53.69	O
ATOM	8349	N	LYS	A	173	-6.853	-9.666	20.635	1.00	54.72	N
ATOM	8350	CA	LYS	A	173	-5.566	-9.281	20.054	1.00	54.91	C
ATOM	8352	CB	LYS	A	173	-5.212	-10.179	18.861	1.00	55.00	C
ATOM	8355	CG	LYS	A	173	-4.851	-11.607	19.240	1.00	55.63	C
ATOM	8358	CD	LYS	A	173	-4.326	-12.380	18.041	1.00	54.81	C
ATOM	8361	CE	LYS	A	173	-4.517	-13.870	18.212	1.00	54.73	C
ATOM	8364	NZ	LYS	A	173	-4.018	-14.612	17.028	1.00	54.59	N
ATOM	8368	C	LYS	A	173	-5.584	-7.815	19.620	1.00	55.44	C

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ATOM	8369	O	LYS	A	173	-4.912	-6.975	20.224	1.00	56.78	O
ATOM	8371	N	ASP	A	174	-6.371	-7.508	18.592	1.00	54.48	N
ATOM	8372	CA	ASP	A	174	-6.323	-6.189	17.953	1.00	53.90	C
ATOM	8374	CB	ASP	A	174	-6.367	-6.333	16.419	1.00	54.32	C
ATOM	8377	CG	ASP	A	174	-7.598	-7.076	15.920	1.00	55.74	C
ATOM	8378	OD1	ASP	A	174	-8.095	-7.970	16.627	1.00	58.47	O
ATOM	8379	OD2	ASP	A	174	-8.060	-6.781	14.802	1.00	59.46	O
ATOM	8380	C	ASP	A	174	-7.392	-5.203	18.440	1.00	53.26	C
ATOM	8381	O	ASP	A	174	-7.563	-4.141	17.841	1.00	53.00	O
ATOM	8383	N	SER	A	175	-8.094	-5.544	19.522	1.00	52.51	N
ATOM	8384	CA	SER	A	175	-9.109	-4.664	20.123	1.00	52.19	C
ATOM	8386	CB	SER	A	175	-8.430	-3.523	20.881	1.00	51.48	C
ATOM	8389	OG	SER	A	175	-7.405	-4.015	21.710	1.00	50.96	O
ATOM	8391	C	SER	A	175	-10.098	-4.078	19.107	1.00	51.93	C
ATOM	8392	O	SER	A	175	-10.425	-2.886	19.168	1.00	50.08	O
ATOM	8394	N	THR	A	176	-10.568	-4.920	18.185	1.00	52.18	N
ATOM	8395	CA	THR	A	176	-11.485	-4.490	17.120	1.00	52.77	C
ATOM	8397	CB	THR	A	176	-10.864	-4.662	15.714	1.00	52.54	C
ATOM	8399	OG1	THR	A	176	-10.547	-6.042	15.491	1.00	54.57	O
ATOM	8401	CG2	THR	A	176	-9.608	-3.816	15.559	1.00	53.68	C
ATOM	8405	C	THR	A	176	-12.802	-5.258	17.144	1.00	52.28	C
ATOM	8406	O	THR	A	176	-12.895	-6.338	17.718	1.00	52.14	O
ATOM	8408	N	TYR	A	177	-13.809	-4.679	16.497	1.00	52.77	N
ATOM	8409	CA	TYR	A	177	-15.143	-5.267	16.413	1.00	53.30	C
ATOM	8411	CB	TYR	A	177	-16.212	-4.228	16.792	1.00	53.44	C
ATOM	8414	CG	TYR	A	177	-16.077	-3.644	18.190	1.00	52.52	C
ATOM	8415	CD1	TYR	A	177	-16.263	-4.434	19.317	1.00	51.79	C
ATOM	8417	CE1	TYR	A	177	-16.146	-3.901	20.592	1.00	52.84	C
ATOM	8419	CZ	TYR	A	177	-15.855	-2.561	20.751	1.00	52.74	C
ATOM	8420	OH	TYR	A	177	-15.740	-2.029	22.010	1.00	51.71	O
ATOM	8422	CE2	TYR	A	177	-15.680	-1.752	19.651	1.00	53.28	C
ATOM	8424	CD2	TYR	A	177	-15.795	-2.293	18.378	1.00	53.10	C
ATOM	8426	C	TYR	A	177	-15.425	-5.785	14.998	1.00	53.07	C
ATOM	8427	O	TYR	A	177	-14.957	-5.211	14.018	1.00	52.16	O
ATOM	8429	N	SER	A	178	-16.180	-6.880	14.912	1.00	53.72	N
ATOM	8430	CA	SER	A	178	-16.719	-7.389	13.648	1.00	53.81	C
ATOM	8432	CB	SER	A	178	-16.131	-8.761	13.302	1.00	53.62	C
ATOM	8435	OG	SER	A	178	-14.794	-8.646	12.846	1.00	52.54	O
ATOM	8437	C	SER	A	178	-18.234	-7.487	13.778	1.00	54.33	C
ATOM	8438	O	SER	A	178	-18.761	-7.673	14.876	1.00	54.29	O
ATOM	8440	N	LEU	A	179	-18.928	-7.372	12.652	1.00	54.92	N
ATOM	8441	CA	LEU	A	179	-20.377	-7.195	12.657	1.00	55.07	C
ATOM	8443	CB	LEU	A	179	-20.692	-5.692	12.767	1.00	55.89	C
ATOM	8446	CG	LEU	A	179	-22.136	-5.172	12.675	1.00	54.50	C
ATOM	8448	CD1	LEU	A	179	-22.265	-3.878	13.485	1.00	53.09	C
ATOM	8452	CD2	LEU	A	179	-22.590	-4.957	11.224	1.00	52.26	C
ATOM	8456	C	LEU	A	179	-21.017	-7.792	11.400	1.00	55.70	C
ATOM	8457	O	LEU	A	179	-20.570	-7.521	10.277	1.00	56.43	O
ATOM	8459	N	SER	A	180	-22.062	-8.596	11.596	1.00	55.16	N
ATOM	8460	CA	SER	A	180	-22.848	-9.144	10.485	1.00	54.15	C
ATOM	8462	CB	SER	A	180	-22.985	-10.668	10.614	1.00	54.76	C
ATOM	8465	OG	SER	A	180	-23.683	-11.046	11.797	1.00	53.36	O
ATOM	8467	C	SER	A	180	-24.234	-8.504	10.442	1.00	53.39	C
ATOM	8468	O	SER	A	180	-24.947	-8.505	11.439	1.00	53.06	O
ATOM	8470	N	SER	A	181	-24.592	-7.938	9.293	1.00	53.50	N
ATOM	8471	CA	SER	A	181	-25.956	-7.467	9.040	1.00	52.75	C
ATOM	8473	CB	SER	A	181	-25.960	-6.000	8.621	1.00	52.81	C
ATOM	8476	OG	SER	A	181	-27.293	-5.552	8.453	1.00	52.98	O
ATOM	8478	C	SER	A	181	-26.581	-8.325	7.943	1.00	51.46	C
ATOM	8479	O	SER	A	181	-26.160	-8.258	6.788	1.00	50.02	O
ATOM	8481	N	THR	A	182	-27.585	-9.118	8.317	1.00	50.26	N
ATOM	8482	CA	THR	A	182	-28.130	-10.183	7.471	1.00	49.62	C
ATOM	8484	CB	THR	A	182	-28.230	-11.499	8.285	1.00	49.53	C

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ATOM	8486	OG1	THR	A	182	-26.922	-11.879	8.732	1.00	48.74	O
ATOM	8488	CG2	THR	A	182	-28.835	-12.636	7.463	1.00	49.54	C
ATOM	8492	C	THR	A	182	-29.496	-9.818	6.895	1.00	47.65	C
ATOM	8493	O	THR	A	182	-30.334	-9.249	7.584	1.00	45.40	O
ATOM	8495	N	GLU	B	2	-10.619	-25.043	44.227	1.00	57.08	N
ATOM	8496	CA	GLU	B	2	-10.247	-25.315	42.812	1.00	58.19	C
ATOM	8498	CB	GLU	B	2	-9.263	-26.489	42.721	1.00	58.76	C
ATOM	8501	CG	GLU	B	2	-7.890	-26.169	43.263	1.00	61.44	C
ATOM	8504	CD	GLU	B	2	-6.782	-26.549	42.304	1.00	65.00	C
ATOM	8505	OE1	GLU	B	2	-6.864	-26.192	41.106	1.00	62.53	O
ATOM	8506	OE2	GLU	B	2	-5.816	-27.197	42.749	1.00	69.73	O
ATOM	8507	C	GLU	B	2	-11.445	-25.567	41.894	1.00	58.94	C
ATOM	8508	O	GLU	B	2	-11.996	-24.629	41.316	1.00	62.34	O
ATOM	8512	N	GLN	B	3	-11.857	-26.829	41.792	1.00	57.51	N
ATOM	8513	CA	GLN	B	3	-12.697	-27.301	40.695	1.00	56.95	C
ATOM	8515	CB	GLN	B	3	-12.164	-28.657	40.217	1.00	59.45	C
ATOM	8518	CG	GLN	B	3	-11.163	-28.600	39.065	1.00	62.13	C
ATOM	8521	CD	GLN	B	3	-11.856	-28.624	37.717	1.00	65.49	C
ATOM	8522	OE1	GLN	B	3	-11.426	-29.315	36.799	1.00	65.20	O
ATOM	8523	NE2	GLN	B	3	-12.956	-27.884	37.603	1.00	68.30	N
ATOM	8526	C	GLN	B	3	-14.169	-27.462	41.073	1.00	56.52	C
ATOM	8527	O	GLN	B	3	-14.493	-28.179	42.024	1.00	57.38	O
ATOM	8529	N	LEU	B	4	-15.049	-26.787	40.332	1.00	55.34	N
ATOM	8530	CA	LEU	B	4	-16.489	-27.070	40.366	1.00	54.52	C
ATOM	8532	CB	LEU	B	4	-17.298	-25.874	40.847	1.00	53.96	C
ATOM	8535	CG	LEU	B	4	-17.243	-25.570	42.343	1.00	55.82	C
ATOM	8537	CD1	LEU	B	4	-17.456	-24.082	42.582	1.00	57.87	C
ATOM	8541	CD2	LEU	B	4	-18.255	-26.389	43.121	1.00	55.41	C
ATOM	8545	C	LEU	B	4	-16.932	-27.430	38.965	1.00	54.14	C
ATOM	8546	O	LEU	B	4	-17.100	-26.561	38.109	1.00	51.87	O
ATOM	8548	N	VAL	B	5	-17.082	-28.725	38.721	1.00	54.92	N
ATOM	8549	CA	VAL	B	5	-17.660	-29.186	37.475	1.00	55.15	C
ATOM	8551	CB	VAL	B	5	-16.917	-30.432	36.881	1.00	54.37	C
ATOM	8553	CG1	VAL	B	5	-17.087	-31.674	37.735	1.00	54.00	C
ATOM	8557	CG2	VAL	B	5	-17.388	-30.706	35.461	1.00	54.09	C
ATOM	8561	C	VAL	B	5	-19.146	-29.400	37.756	1.00	55.56	C
ATOM	8562	O	VAL	B	5	-19.533	-29.729	38.877	1.00	56.25	O
ATOM	8564	N	GLU	B	6	-19.960	-29.210	36.725	1.00	56.11	N
ATOM	8565	CA	GLU	B	6	-21.390	-28.975	36.863	1.00	56.43	C
ATOM	8567	CB	GLU	B	6	-21.649	-27.482	36.654	1.00	57.11	C
ATOM	8570	CG	GLU	B	6	-22.951	-26.943	37.183	1.00	57.87	C
ATOM	8573	CD	GLU	B	6	-23.194	-25.525	36.691	1.00	61.03	C
ATOM	8574	OE1	GLU	B	6	-22.325	-24.652	36.915	1.00	64.83	O
ATOM	8575	OE2	GLU	B	6	-24.244	-25.291	36.059	1.00	67.42	O
ATOM	8576	C	GLU	B	6	-22.107	-29.799	35.798	1.00	55.21	C
ATOM	8577	O	GLU	B	6	-21.562	-30.010	34.716	1.00	54.09	O
ATOM	8579	N	SER	B	7	-23.318	-30.259	36.098	1.00	55.29	N
ATOM	8580	CA	SER	B	7	-24.021	-31.203	35.218	1.00	55.46	C
ATOM	8582	CB	SER	B	7	-23.842	-32.643	35.722	1.00	54.36	C
ATOM	8585	OG	SER	B	7	-22.474	-32.978	35.905	1.00	51.02	O
ATOM	8587	C	SER	B	7	-25.507	-30.891	35.125	1.00	56.51	C
ATOM	8588	O	SER	B	7	-26.108	-30.385	36.083	1.00	57.60	O
ATOM	8590	N	GLY	B	8	-26.092	-31.196	33.970	1.00	56.40	N
ATOM	8591	CA	GLY	B	8	-27.522	-30.986	33.728	1.00	56.69	C
ATOM	8594	C	GLY	B	8	-27.799	-29.744	32.903	1.00	57.21	C
ATOM	8595	O	GLY	B	8	-26.883	-28.991	32.568	1.00	58.60	O
ATOM	8597	N	GLY	B	9	-29.067	-29.539	32.560	1.00	57.00	N
ATOM	8598	CA	GLY	B	9	-29.489	-28.322	31.870	1.00	56.00	C
ATOM	8601	C	GLY	B	9	-30.020	-28.553	30.474	1.00	54.36	C
ATOM	8602	O	GLY	B	9	-29.999	-29.669	29.965	1.00	53.60	O
ATOM	8604	N	GLY	B	10	-30.494	-27.473	29.863	1.00	53.60	N
ATOM	8605	CA	GLY	B	10	-31.076	-27.513	28.532	1.00	52.66	C
ATOM	8608	C	GLY	B	10	-32.545	-27.157	28.551	1.00	52.35	C

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ATOM	8609	O	GLY	B	10	-33.019	-26.454	29.451	1.00	52.72	O
ATOM	8611	N	LEU	B	11	-33.268	-27.676	27.561	1.00	52.28	N
ATOM	8612	CA	LEU	B	11	-34.657	-27.285	27.281	1.00	51.37	C
ATOM	8614	CB	LEU	B	11	-34.945	-27.495	25.788	1.00	50.49	C
ATOM	8617	CG	LEU	B	11	-36.305	-27.092	25.221	1.00	50.40	C
ATOM	8619	CD1	LEU	B	11	-36.770	-25.732	25.714	1.00	50.55	C
ATOM	8623	CD2	LEU	B	11	-36.229	-27.104	23.713	1.00	49.33	C
ATOM	8627	C	LEU	B	11	-35.689	-28.041	28.129	1.00	50.09	C
ATOM	8628	O	LEU	B	11	-35.608	-29.258	28.279	1.00	48.56	O
ATOM	8630	N	VAL	B	12	-36.643	-27.304	28.696	1.00	51.19	N
ATOM	8631	CA	VAL	B	12	-37.828	-27.895	29.354	1.00	52.09	C
ATOM	8633	CB	VAL	B	12	-37.734	-27.909	30.890	1.00	51.33	C
ATOM	8635	CG1	VAL	B	12	-36.587	-28.792	31.361	1.00	55.61	C
ATOM	8639	CG2	VAL	B	12	-37.589	-26.499	31.417	1.00	54.73	C
ATOM	8643	C	VAL	B	12	-39.084	-27.106	29.028	1.00	51.94	C
ATOM	8644	O	VAL	B	12	-39.020	-25.921	28.711	1.00	54.02	O
ATOM	8646	N	LYS	B	13	-40.228	-27.764	29.135	1.00	51.40	N
ATOM	8647	CA	LYS	B	13	-41.496	-27.076	29.018	1.00	51.60	C
ATOM	8649	CB	LYS	B	13	-42.591	-28.079	28.666	1.00	52.55	C
ATOM	8652	CG	LYS	B	13	-42.497	-28.541	27.218	1.00	51.71	C
ATOM	8655	CD	LYS	B	13	-43.403	-29.713	26.932	1.00	53.42	C
ATOM	8658	CE	LYS	B	13	-44.022	-29.609	25.535	1.00	57.86	C
ATOM	8661	NZ	LYS	B	13	-43.026	-29.251	24.488	1.00	60.17	N
ATOM	8665	C	LYS	B	13	-41.819	-26.296	30.310	1.00	51.77	C
ATOM	8666	O	LYS	B	13	-41.368	-26.677	31.404	1.00	50.24	O
ATOM	8668	N	PRO	B	14	-42.560	-25.174	30.180	1.00	51.25	N
ATOM	8669	CA	PRO	B	14	-43.053	-24.450	31.345	1.00	50.84	C
ATOM	8671	CB	PRO	B	14	-43.947	-23.368	30.739	1.00	50.58	C
ATOM	8674	CG	PRO	B	14	-43.419	-23.163	29.392	1.00	51.33	C
ATOM	8677	CD	PRO	B	14	-42.959	-24.509	28.930	1.00	51.92	C
ATOM	8680	C	PRO	B	14	-43.876	-25.361	32.230	1.00	50.15	C
ATOM	8681	O	PRO	B	14	-44.657	-26.166	31.722	1.00	48.51	O
ATOM	8682	N	GLY	B	15	-43.680	-25.245	33.539	1.00	49.84	N
ATOM	8683	CA	GLY	B	15	-44.306	-26.149	34.496	1.00	50.35	C
ATOM	8686	C	GLY	B	15	-43.468	-27.389	34.719	1.00	50.13	C
ATOM	8687	O	GLY	B	15	-43.669	-28.109	35.693	1.00	49.66	O
ATOM	8689	N	GLY	B	16	-42.513	-27.628	33.824	1.00	51.34	N
ATOM	8690	CA	GLY	B	16	-41.660	-28.798	33.892	1.00	51.56	C
ATOM	8693	C	GLY	B	16	-40.668	-28.748	35.033	1.00	51.79	C
ATOM	8694	O	GLY	B	16	-40.675	-27.832	35.860	1.00	50.14	O
ATOM	8696	N	SER	B	17	-39.800	-29.749	35.056	1.00	53.70	N
ATOM	8697	CA	SER	B	17	-38.873	-29.950	36.152	1.00	54.04	C
ATOM	8699	CB	SER	B	17	-39.341	-31.118	37.016	1.00	53.95	C
ATOM	8702	OG	SER	B	17	-39.022	-30.879	38.371	1.00	57.07	O
ATOM	8704	C	SER	B	17	-37.479	-30.228	35.628	1.00	54.29	C
ATOM	8705	O	SER	B	17	-37.301	-30.568	34.457	1.00	54.05	O
ATOM	8707	N	LEU	B	18	-36.497	-30.088	36.514	1.00	56.13	N
ATOM	8708	CA	LEU	B	18	-35.094	-30.239	36.147	1.00	55.96	C
ATOM	8710	CB	LEU	B	18	-34.684	-29.083	35.248	1.00	55.43	C
ATOM	8713	CG	LEU	B	18	-33.469	-29.297	34.377	1.00	57.88	C
ATOM	8715	CD1	LEU	B	18	-33.559	-30.610	33.593	1.00	62.27	C
ATOM	8719	CD2	LEU	B	18	-33.357	-28.112	33.446	1.00	59.37	C
ATOM	8723	C	LEU	B	18	-34.186	-30.257	37.372	1.00	56.02	C
ATOM	8724	O	LEU	B	18	-34.433	-29.546	38.358	1.00	56.21	O
ATOM	8726	N	ARG	B	19	-33.131	-31.061	37.310	1.00	55.91	N
ATOM	8727	CA	ARG	B	19	-32.171	-31.131	38.404	1.00	56.28	C
ATOM	8729	CB	ARG	B	19	-32.180	-32.513	39.056	1.00	56.33	C
ATOM	8732	CG	ARG	B	19	-31.287	-32.611	40.286	1.00	57.91	C
ATOM	8735	CD	ARG	B	19	-31.716	-33.730	41.210	1.00	60.36	C
ATOM	8738	NE	ARG	B	19	-30.588	-34.523	41.690	1.00	66.71	N
ATOM	8740	CZ	ARG	B	19	-29.875	-35.367	40.938	1.00	68.93	C
ATOM	8741	NH1	ARG	B	19	-30.131	-35.517	39.646	1.00	71.03	N
ATOM	8744	NH2	ARG	B	19	-28.880	-36.060	41.474	1.00	67.69	N

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ATOM	8747	C	ARG	B	19	-30.772	-30.776	37.921	1.00	55.07	C
ATOM	8748	O	ARG	B	19	-30.311	-31.277	36.898	1.00	55.74	O
ATOM	8750	N	LEU	B	20	-30.124	-29.880	38.659	1.00	54.38	N
ATOM	8751	CA	LEU	B	20	-28.742	-29.520	38.430	1.00	55.17	C
ATOM	8753	CB	LEU	B	20	-28.600	-28.003	38.338	1.00	55.06	C
ATOM	8756	CG	LEU	B	20	-29.485	-27.251	37.349	1.00	53.99	C
ATOM	8758	CD1	LEU	B	20	-29.205	-25.762	37.431	1.00	59.86	C
ATOM	8762	CD2	LEU	B	20	-29.234	-27.724	35.955	1.00	57.03	C
ATOM	8766	C	LEU	B	20	-27.898	-30.045	39.589	1.00	55.45	C
ATOM	8767	O	LEU	B	20	-28.297	-29.971	40.750	1.00	56.96	O
ATOM	8769	N	SER	B	21	-26.736	-30.589	39.268	1.00	56.77	N
ATOM	8770	CA	SER	B	21	-25.786	-31.031	40.280	1.00	57.56	C
ATOM	8772	CB	SER	B	21	-25.630	-32.559	40.261	1.00	58.44	C
ATOM	8775	OG	SER	B	21	-25.331	-33.044	38.964	1.00	61.05	O
ATOM	8777	C	SER	B	21	-24.470	-30.330	40.000	1.00	58.45	C
ATOM	8778	O	SER	B	21	-24.350	-29.591	39.022	1.00	59.84	O
ATOM	8780	N	CYS	B	22	-23.486	-30.556	40.860	1.00	59.72	N
ATOM	8781	CA	CYS	B	22	-22.234	-29.823	40.790	1.00	57.37	C
ATOM	8783	CB	CYS	B	22	-22.471	-28.404	41.314	1.00	59.22	C
ATOM	8786	SG	CYS	B	22	-21.015	-27.363	41.431	1.00	66.17	S
ATOM	8788	C	CYS	B	22	-21.172	-30.549	41.606	1.00	55.34	C
ATOM	8789	O	CYS	B	22	-21.183	-30.503	42.826	1.00	54.96	O
ATOM	8791	N	ALA	B	23	-20.269	-31.245	40.927	1.00	54.59	N
ATOM	8792	CA	ALA	B	23	-19.203	-31.985	41.605	1.00	53.62	C
ATOM	8794	CB	ALA	B	23	-18.717	-33.133	40.725	1.00	53.08	C
ATOM	8798	C	ALA	B	23	-18.040	-31.062	41.979	1.00	51.29	C
ATOM	8799	O	ALA	B	23	-17.522	-30.341	41.127	1.00	49.95	O
ATOM	8801	N	ALA	B	24	-17.637	-31.099	43.249	1.00	50.12	N
ATOM	8802	CA	ALA	B	24	-16.557	-30.248	43.769	1.00	51.29	C
ATOM	8804	CB	ALA	B	24	-17.019	-29.529	45.015	1.00	50.63	C
ATOM	8808	C	ALA	B	24	-15.278	-31.031	44.076	1.00	51.65	C
ATOM	8809	O	ALA	B	24	-15.298	-32.250	44.275	1.00	52.72	O
ATOM	8811	N	SER	B	25	-14.161	-30.322	44.125	1.00	51.28	N
ATOM	8812	CA	SER	B	25	-12.893	-30.948	44.491	1.00	51.56	C
ATOM	8814	CB	SER	B	25	-12.464	-31.936	43.426	1.00	51.06	C
ATOM	8817	OG	SER	B	25	-12.485	-31.294	42.169	1.00	54.28	O
ATOM	8819	C	SER	B	25	-11.800	-29.910	44.650	1.00	51.41	C
ATOM	8820	O	SER	B	25	-11.938	-28.767	44.197	1.00	50.73	O
ATOM	8822	N	GLY	B	26	-10.710	-30.327	45.284	1.00	50.89	N
ATOM	8823	CA	GLY	B	26	-9.582	-29.446	45.538	1.00	51.21	C
ATOM	8826	C	GLY	B	26	-9.792	-28.487	46.696	1.00	51.63	C
ATOM	8827	O	GLY	B	26	-9.025	-27.543	46.850	1.00	54.29	O
ATOM	8829	N	PHE	B	27	-10.822	-28.712	47.510	1.00	51.25	N
ATOM	8830	CA	PHE	B	27	-11.032	-27.918	48.732	1.00	50.85	C
ATOM	8832	CB	PHE	B	27	-11.564	-26.505	48.420	1.00	50.94	C
ATOM	8835	CG	PHE	B	27	-12.918	-26.490	47.771	1.00	49.96	C
ATOM	8836	CD1	PHE	B	27	-13.042	-26.584	46.395	1.00	50.30	C
ATOM	8838	CE1	PHE	B	27	-14.275	-26.584	45.791	1.00	49.66	C
ATOM	8840	CZ	PHE	B	27	-15.421	-26.480	46.562	1.00	52.41	C
ATOM	8842	CE2	PHE	B	27	-15.313	-26.384	47.937	1.00	52.69	C
ATOM	8844	CD2	PHE	B	27	-14.062	-26.386	48.534	1.00	52.95	C
ATOM	8846	C	PHE	B	27	-11.964	-28.625	49.711	1.00	50.71	C
ATOM	8847	O	PHE	B	27	-12.604	-29.626	49.383	1.00	49.79	O
ATOM	8849	N	SER	B	28	-12.037	-28.093	50.921	1.00	51.23	N
ATOM	8850	CA	SER	B	28	-12.810	-28.732	51.963	1.00	51.26	C
ATOM	8852	CB	SER	B	28	-12.317	-28.294	53.343	1.00	51.82	C
ATOM	8855	OG	SER	B	28	-12.676	-29.267	54.315	1.00	56.76	O
ATOM	8857	C	SER	B	28	-14.295	-28.421	51.766	1.00	51.01	C
ATOM	8858	O	SER	B	28	-14.767	-27.321	52.085	1.00	50.89	O
ATOM	8860	N	PHE	B	29	-15.020	-29.401	51.232	1.00	49.80	N
ATOM	8861	CA	PHE	B	29	-16.424	-29.226	50.894	1.00	50.56	C
ATOM	8863	CB	PHE	B	29	-16.922	-30.445	50.129	1.00	48.59	C
ATOM	8866	CG	PHE	B	29	-18.296	-30.281	49.564	1.00	48.64	C

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ATOM	8867	CD1	PHE	B	29	-18.499	-29.536	48.408	1.00	48.66	C
ATOM	8869	CE1	PHE	B	29	-19.767	-29.381	47.881	1.00	45.83	C
ATOM	8871	CZ	PHE	B	29	-20.841	-29.976	48.510	1.00	48.48	C
ATOM	8873	CE2	PHE	B	29	-20.644	-30.732	49.657	1.00	46.72	C
ATOM	8875	CD2	PHE	B	29	-19.384	-30.876	50.178	1.00	45.58	C
ATOM	8877	C	PHE	B	29	-17.270	-29.001	52.145	1.00	50.93	C
ATOM	8878	O	PHE	B	29	-18.035	-28.036	52.227	1.00	51.03	O
ATOM	8880	N	SER	B	30	-17.111	-29.896	53.113	1.00	52.75	N
ATOM	8881	CA	SER	B	30	-17.761	-29.786	54.420	1.00	54.67	C
ATOM	8883	CB	SER	B	30	-17.106	-30.743	55.416	1.00	54.82	C
ATOM	8886	OG	SER	B	30	-16.120	-31.537	54.777	1.00	62.14	O
ATOM	8888	C	SER	B	30	-17.679	-28.375	55.009	1.00	56.32	C
ATOM	8889	O	SER	B	30	-18.636	-27.918	55.635	1.00	58.67	O
ATOM	8891	N	ASP	B	31	-16.537	-27.705	54.815	1.00	55.95	N
ATOM	8892	CA	ASP	B	31	-16.261	-26.399	55.437	1.00	56.09	C
ATOM	8894	CB	ASP	B	31	-14.766	-26.260	55.691	1.00	55.87	C
ATOM	8897	CG	ASP	B	31	-14.270	-27.238	56.715	1.00	56.33	C
ATOM	8898	OD1	ASP	B	31	-14.667	-27.110	57.883	1.00	60.60	O
ATOM	8899	OD2	ASP	B	31	-13.483	-28.136	56.368	1.00	57.54	O
ATOM	8900	C	ASP	B	31	-16.752	-25.194	54.629	1.00	56.83	C
ATOM	8901	O	ASP	B	31	-16.520	-24.037	55.019	1.00	54.50	O
ATOM	8903	N	CYS	B	32	-17.449	-25.471	53.527	1.00	56.79	N
ATOM	8904	CA	CYS	B	32	-17.879	-24.441	52.606	1.00	57.15	C
ATOM	8906	CB	CYS	B	32	-17.375	-24.770	51.212	1.00	56.78	C
ATOM	8909	SG	CYS	B	32	-15.670	-24.337	51.018	1.00	62.87	S
ATOM	8911	C	CYS	B	32	-19.379	-24.302	52.558	1.00	57.47	C
ATOM	8912	O	CYS	B	32	-20.100	-25.295	52.661	1.00	57.32	O
ATOM	8914	N	ARG	B	33	-19.837	-23.059	52.419	1.00	58.33	N
ATOM	8915	CA	ARG	B	33	-21.210	-22.776	52.020	1.00	59.05	C
ATOM	8917	CB	ARG	B	33	-21.611	-21.320	52.318	1.00	59.99	C
ATOM	8920	CG	ARG	B	33	-21.955	-21.018	53.781	1.00	61.46	C
ATOM	8923	CD	ARG	B	33	-22.959	-19.840	53.914	1.00	63.66	C
ATOM	8926	NE	ARG	B	33	-23.243	-19.502	55.316	1.00	65.64	N
ATOM	8928	CZ	ARG	B	33	-22.510	-18.677	56.073	1.00	66.84	C
ATOM	8929	NH1	ARG	B	33	-21.434	-18.058	55.592	1.00	70.69	N
ATOM	8932	NH2	ARG	B	33	-22.854	-18.466	57.332	1.00	66.86	N
ATOM	8935	C	ARG	B	33	-21.235	-23.015	50.529	1.00	58.50	C
ATOM	8936	O	ARG	B	33	-20.234	-22.734	49.853	1.00	59.17	O
ATOM	8938	N	MET	B	34	-22.349	-23.554	50.023	1.00	57.59	N
ATOM	8939	CA	MET	B	34	-22.551	-23.730	48.575	1.00	57.08	C
ATOM	8941	CB	MET	B	34	-22.892	-25.185	48.246	1.00	56.43	C
ATOM	8944	CG	MET	B	34	-21.795	-26.188	48.589	1.00	59.03	C
ATOM	8947	SD	MET	B	34	-20.187	-25.877	47.796	1.00	55.54	S
ATOM	8948	CE	MET	B	34	-20.597	-26.020	46.063	1.00	58.54	C
ATOM	8952	C	MET	B	34	-23.667	-22.804	48.108	1.00	56.49	C
ATOM	8953	O	MET	B	34	-24.628	-22.581	48.850	1.00	57.23	O
ATOM	8955	N	TYR	B	35	-23.535	-22.266	46.892	1.00	55.09	N
ATOM	8956	CA	TYR	B	35	-24.489	-21.283	46.355	1.00	55.50	C
ATOM	8958	CB	TYR	B	35	-23.839	-19.904	46.252	1.00	56.01	C
ATOM	8961	CG	TYR	B	35	-23.056	-19.483	47.468	1.00	56.77	C
ATOM	8962	CD1	TYR	B	35	-23.701	-18.927	48.564	1.00	55.10	C
ATOM	8964	CE1	TYR	B	35	-23.006	-18.536	49.686	1.00	52.25	C
ATOM	8966	CZ	TYR	B	35	-21.652	-18.685	49.719	1.00	54.90	C
ATOM	8967	OH	TYR	B	35	-20.987	-18.280	50.842	1.00	57.35	O
ATOM	8969	CE2	TYR	B	35	-20.972	-19.232	48.642	1.00	57.56	C
ATOM	8971	CD2	TYR	B	35	-21.678	-19.629	47.522	1.00	55.05	C
ATOM	8973	C	TYR	B	35	-24.941	-21.656	44.964	1.00	54.79	C
ATOM	8974	O	TYR	B	35	-24.202	-22.305	44.248	1.00	56.20	O
ATOM	8976	N	TRP	B	36	-26.141	-21.232	44.574	1.00	54.86	N
ATOM	8977	CA	TRP	B	36	-26.541	-21.236	43.160	1.00	54.98	C
ATOM	8979	CB	TRP	B	36	-27.751	-22.131	42.898	1.00	54.48	C
ATOM	8982	CG	TRP	B	36	-27.408	-23.582	42.976	1.00	55.86	C
ATOM	8983	CD1	TRP	B	36	-27.541	-24.395	44.064	1.00	54.37	C

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ATOM	8985	NE1	TRP	B	36	-27.105	-25.662	43.761	1.00	56.03	N
ATOM	8987	CE2	TRP	B	36	-26.673	-25.689	42.460	1.00	57.33	C
ATOM	8988	CD2	TRP	B	36	-26.846	-24.396	41.932	1.00	56.78	C
ATOM	8989	CE3	TRP	B	36	-26.486	-24.158	40.599	1.00	56.68	C
ATOM	8991	CZ3	TRP	B	36	-25.970	-25.208	39.843	1.00	54.32	C
ATOM	8993	CH2	TRP	B	36	-25.807	-26.481	40.398	1.00	55.83	C
ATOM	8995	CZ2	TRP	B	36	-26.155	-26.744	41.700	1.00	57.22	C
ATOM	8997	C	TRP	B	36	-26.827	-19.806	42.714	1.00	55.54	C
ATOM	8998	O	TRP	B	36	-27.441	-19.026	43.441	1.00	55.81	O
ATOM	9000	N	LEU	B	37	-26.344	-19.464	41.523	1.00	55.47	N
ATOM	9001	CA	LEU	B	37	-26.583	-18.159	40.935	1.00	54.90	C
ATOM	9003	CB	LEU	B	37	-25.330	-17.290	41.024	1.00	55.21	C
ATOM	9006	CG	LEU	B	37	-24.711	-17.145	42.408	1.00	54.85	C
ATOM	9008	CD1	LEU	B	37	-23.591	-18.143	42.567	1.00	54.81	C
ATOM	9012	CD2	LEU	B	37	-24.186	-15.745	42.607	1.00	55.66	C
ATOM	9016	C	LEU	B	37	-26.967	-18.341	39.484	1.00	53.45	C
ATOM	9017	O	LEU	B	37	-26.745	-19.405	38.912	1.00	53.70	O
ATOM	9019	N	ARG	B	38	-27.539	-17.308	38.884	1.00	51.89	N
ATOM	9020	CA	ARG	B	38	-27.839	-17.386	37.474	1.00	53.70	C
ATOM	9022	CB	ARG	B	38	-29.251	-17.929	37.253	1.00	54.93	C
ATOM	9025	CG	ARG	B	38	-30.344	-16.976	37.662	1.00	54.15	C
ATOM	9028	CD	ARG	B	38	-31.695	-17.639	37.583	1.00	52.86	C
ATOM	9031	NE	ARG	B	38	-32.709	-16.776	38.171	1.00	55.65	N
ATOM	9033	CZ	ARG	B	38	-34.008	-17.040	38.179	1.00	52.73	C
ATOM	9034	NH1	ARG	B	38	-34.467	-18.163	37.654	1.00	56.57	N
ATOM	9037	NH2	ARG	B	38	-34.845	-16.184	38.737	1.00	50.56	N
ATOM	9040	C	ARG	B	38	-27.664	-16.056	36.769	1.00	53.95	C
ATOM	9041	O	ARG	B	38	-27.407	-15.024	37.404	1.00	52.49	O
ATOM	9043	N	GLN	B	39	-27.805	-16.115	35.444	1.00	53.23	N
ATOM	9044	CA	GLN	B	39	-27.607	-14.973	34.570	1.00	53.43	C
ATOM	9046	CB	GLN	B	39	-26.111	-14.763	34.335	1.00	52.16	C
ATOM	9049	CG	GLN	B	39	-25.794	-13.536	33.524	1.00	51.85	C
ATOM	9052	CD	GLN	B	39	-24.324	-13.418	33.196	1.00	52.08	C
ATOM	9053	OE1	GLN	B	39	-23.727	-14.341	32.626	1.00	50.41	O
ATOM	9054	NE2	GLN	B	39	-23.729	-12.271	33.539	1.00	40.20	N
ATOM	9057	C	GLN	B	39	-28.349	-15.181	33.237	1.00	52.91	C
ATOM	9058	O	GLN	B	39	-27.919	-15.955	32.384	1.00	50.90	O
ATOM	9060	N	ALA	B	40	-29.467	-14.479	33.081	1.00	53.76	N
ATOM	9061	CA	ALA	B	40	-30.296	-14.578	31.886	1.00	53.31	C
ATOM	9063	CB	ALA	B	40	-31.648	-13.975	32.141	1.00	54.55	C
ATOM	9067	C	ALA	B	40	-29.624	-13.845	30.748	1.00	53.53	C
ATOM	9068	O	ALA	B	40	-28.959	-12.840	30.987	1.00	54.11	O
ATOM	9070	N	PRO	B	41	-29.840	-14.308	29.501	1.00	53.44	N
ATOM	9071	CA	PRO	B	41	-29.039	-13.847	28.366	1.00	53.05	C
ATOM	9073	CB	PRO	B	41	-29.725	-14.505	27.163	1.00	52.72	C
ATOM	9076	CG	PRO	B	41	-30.438	-15.665	27.719	1.00	52.85	C
ATOM	9079	CD	PRO	B	41	-30.885	-15.257	29.074	1.00	52.51	C
ATOM	9082	C	PRO	B	41	-29.014	-12.324	28.215	1.00	52.17	C
ATOM	9083	O	PRO	B	41	-30.066	-11.689	28.111	1.00	50.43	O
ATOM	9084	N	GLY	B	42	-27.810	-11.758	28.234	1.00	52.35	N
ATOM	9085	CA	GLY	B	42	-27.619	-10.316	28.112	1.00	53.15	C
ATOM	9088	C	GLY	B	42	-27.682	-9.540	29.420	1.00	54.04	C
ATOM	9089	O	GLY	B	42	-27.270	-8.384	29.467	1.00	55.99	O
ATOM	9091	N	LYS	B	43	-28.191	-10.159	30.482	1.00	53.44	N
ATOM	9092	CA	LYS	B	43	-28.391	-9.473	31.752	1.00	53.87	C
ATOM	9094	CB	LYS	B	43	-29.770	-9.812	32.310	1.00	55.93	C
ATOM	9097	CG	LYS	B	43	-30.905	-9.683	31.306	1.00	57.94	C
ATOM	9100	CD	LYS	B	43	-30.919	-8.333	30.608	1.00	60.93	C
ATOM	9103	CE	LYS	B	43	-32.143	-8.187	29.724	1.00	61.33	C
ATOM	9106	NZ	LYS	B	43	-32.168	-9.225	28.660	1.00	63.96	N
ATOM	9110	C	LYS	B	43	-27.309	-9.851	32.762	1.00	53.65	C
ATOM	9111	O	LYS	B	43	-26.430	-10.645	32.462	1.00	54.42	O
ATOM	9113	N	GLY	B	44	-27.380	-9.276	33.958	1.00	52.36	N

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ATOM	9114	CA	GLY	B	44	-26.357	-9.474	34.968	1.00	53.12	C
ATOM	9117	C	GLY	B	44	-26.629	-10.664	35.861	1.00	54.61	C
ATOM	9118	O	GLY	B	44	-27.464	-11.508	35.551	1.00	57.61	O
ATOM	9120	N	LEU	B	45	-25.932	-10.701	36.992	1.00	55.46	N
ATOM	9121	CA	LEU	B	45	-25.900	-11.853	37.885	1.00	54.85	C
ATOM	9123	CB	LEU	B	45	-24.515	-11.947	38.530	1.00	54.97	C
ATOM	9126	CG	LEU	B	45	-23.403	-12.727	37.833	1.00	54.76	C
ATOM	9128	CD1	LEU	B	45	-23.460	-12.538	36.350	1.00	60.04	C
ATOM	9132	CD2	LEU	B	45	-22.040	-12.316	38.390	1.00	55.62	C
ATOM	9136	C	LEU	B	45	-26.940	-11.742	39.002	1.00	56.15	C
ATOM	9137	O	LEU	B	45	-27.078	-10.691	39.634	1.00	56.57	O
ATOM	9139	N	GLU	B	46	-27.639	-12.843	39.265	1.00	55.98	N
ATOM	9140	CA	GLU	B	46	-28.593	-12.919	40.362	1.00	55.75	C
ATOM	9142	CB	GLU	B	46	-30.002	-13.171	39.810	1.00	55.04	C
ATOM	9145	CG	GLU	B	46	-31.140	-13.062	40.842	1.00	56.99	C
ATOM	9148	CD	GLU	B	46	-32.483	-13.590	40.324	1.00	59.02	C
ATOM	9149	OE1	GLU	B	46	-32.580	-13.917	39.121	1.00	62.34	O
ATOM	9150	OE2	GLU	B	46	-33.442	-13.671	41.119	1.00	60.17	O
ATOM	9151	C	GLU	B	46	-28.184	-14.059	41.300	1.00	56.63	C
ATOM	9152	O	GLU	B	46	-27.946	-15.190	40.848	1.00	58.14	O
ATOM	9154	N	TRP	B	47	-28.087	-13.759	42.597	1.00	54.97	N
ATOM	9155	CA	TRP	B	47	-27.993	-14.812	43.608	1.00	54.73	C
ATOM	9157	CB	TRP	B	47	-27.452	-14.298	44.947	1.00	53.01	C
ATOM	9160	CG	TRP	B	47	-27.611	-15.321	45.990	1.00	51.23	C
ATOM	9161	CD1	TRP	B	47	-26.851	-16.446	46.163	1.00	51.35	C
ATOM	9163	NE1	TRP	B	47	-27.335	-17.187	47.215	1.00	49.44	N
ATOM	9165	CE2	TRP	B	47	-28.437	-16.552	47.725	1.00	51.97	C
ATOM	9166	CD2	TRP	B	47	-28.643	-15.378	46.966	1.00	51.78	C
ATOM	9167	CE3	TRP	B	47	-29.723	-14.550	47.281	1.00	51.58	C
ATOM	9169	CZ3	TRP	B	47	-30.555	-14.915	48.320	1.00	51.38	C
ATOM	9171	CH2	TRP	B	47	-30.325	-16.083	49.059	1.00	49.92	C
ATOM	9173	CZ2	TRP	B	47	-29.276	-16.914	48.775	1.00	52.11	C
ATOM	9175	C	TRP	B	47	-29.385	-15.390	43.827	1.00	54.17	C
ATOM	9176	O	TRP	B	47	-30.326	-14.628	44.030	1.00	55.25	O
ATOM	9178	N	ILE	B	48	-29.504	-16.722	43.811	1.00	54.39	N
ATOM	9179	CA	ILE	B	48	-30.800	-17.393	43.988	1.00	53.47	C
ATOM	9181	CB	ILE	B	48	-31.279	-18.055	42.681	1.00	52.77	C
ATOM	9183	CG1	ILE	B	48	-30.381	-19.235	42.295	1.00	53.12	C
ATOM	9186	CD1	ILE	B	48	-30.981	-20.127	41.226	1.00	54.34	C
ATOM	9190	CG2	ILE	B	48	-31.332	-17.013	41.570	1.00	53.53	C
ATOM	9194	C	ILE	B	48	-30.891	-18.423	45.111	1.00	52.30	C
ATOM	9195	O	ILE	B	48	-31.997	-18.798	45.507	1.00	53.16	O
ATOM	9197	N	GLY	B	49	-29.768	-18.895	45.633	1.00	52.45	N
ATOM	9198	CA	GLY	B	49	-29.852	-19.812	46.763	1.00	53.11	C
ATOM	9201	C	GLY	B	49	-28.557	-20.165	47.446	1.00	52.97	C
ATOM	9202	O	GLY	B	49	-27.521	-20.253	46.802	1.00	54.06	O
ATOM	9204	N	VAL	B	50	-28.632	-20.403	48.754	1.00	53.18	N
ATOM	9205	CA	VAL	B	50	-27.471	-20.855	49.523	1.00	53.84	C
ATOM	9207	CB	VAL	B	50	-26.856	-19.717	50.363	1.00	53.71	C
ATOM	9209	CG1	VAL	B	50	-27.902	-19.066	51.260	1.00	55.07	C
ATOM	9213	CG2	VAL	B	50	-25.682	-20.236	51.203	1.00	52.34	C
ATOM	9217	C	VAL	B	50	-27.850	-21.991	50.459	1.00	55.14	C
ATOM	9218	O	VAL	B	50	-28.969	-22.016	50.971	1.00	56.13	O
ATOM	9220	N	ILE	B	51	-26.908	-22.919	50.666	1.00	55.41	N
ATOM	9221	CA	ILE	B	51	-27.008	-23.967	51.695	1.00	53.53	C
ATOM	9223	CB	ILE	B	51	-27.197	-25.352	51.072	1.00	52.94	C
ATOM	9225	CG1	ILE	B	51	-27.559	-26.383	52.146	1.00	53.13	C
ATOM	9228	CD1	ILE	B	51	-28.330	-27.584	51.604	1.00	52.90	C
ATOM	9232	CG2	ILE	B	51	-25.949	-25.784	50.309	1.00	54.26	C
ATOM	9236	C	ILE	B	51	-25.740	-23.971	52.552	1.00	54.39	C
ATOM	9237	O	ILE	B	51	-24.636	-23.956	52.015	1.00	57.35	O
ATOM	9239	N	SER	B	52	-25.899	-24.003	53.874	1.00	53.14	N
ATOM	9240	CA	SER	B	52	-24.781	-23.839	54.801	1.00	52.08	C

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ATOM	9242	CB	SER	B	52	-25.221	-22.962	55.975	1.00	51.15	C
ATOM	9245	OG	SER	B	52	-24.131	-22.645	56.820	1.00	50.26	O
ATOM	9247	C	SER	B	52	-24.247	-25.192	55.305	1.00	53.46	C
ATOM	9248	O	SER	B	52	-24.642	-26.256	54.819	1.00	54.16	O
ATOM	9250	N	VAL	B	53	-23.357	-25.135	56.293	1.00	52.86	N
ATOM	9251	CA	VAL	B	53	-22.594	-26.295	56.742	1.00	52.66	C
ATOM	9253	CB	VAL	B	53	-21.214	-25.846	57.268	1.00	53.38	C
ATOM	9255	CG1	VAL	B	53	-21.344	-24.855	58.444	1.00	54.96	C
ATOM	9259	CG2	VAL	B	53	-20.422	-25.216	56.139	1.00	51.78	C
ATOM	9263	C	VAL	B	53	-23.343	-27.137	57.783	1.00	54.05	C
ATOM	9264	O	VAL	B	53	-24.492	-26.853	58.105	1.00	54.07	O
ATOM	9266	N	LYS	B	54	-22.698	-28.186	58.288	1.00	54.87	N
ATOM	9267	CA	LYS	B	54	-23.329	-29.084	59.262	1.00	54.71	C
ATOM	9269	CB	LYS	B	54	-22.444	-30.307	59.510	1.00	54.04	C
ATOM	9272	CG	LYS	B	54	-23.055	-31.376	60.395	1.00	55.17	C
ATOM	9275	CD	LYS	B	54	-21.987	-32.332	60.885	1.00	56.41	C
ATOM	9278	CE	LYS	B	54	-22.578	-33.563	61.554	1.00	57.98	C
ATOM	9281	NZ	LYS	B	54	-21.517	-34.593	61.796	1.00	59.34	N
ATOM	9285	C	LYS	B	54	-23.595	-28.385	60.587	1.00	53.88	C
ATOM	9286	O	LYS	B	54	-24.588	-28.659	61.245	1.00	53.59	O
ATOM	9288	N	SER	B	55	-22.699	-27.490	60.978	1.00	55.35	N
ATOM	9289	CA	SER	B	55	-22.815	-26.779	62.255	1.00	56.38	C
ATOM	9291	CB	SER	B	55	-21.518	-26.019	62.561	1.00	57.30	C
ATOM	9294	OG	SER	B	55	-20.700	-25.901	61.402	1.00	61.19	O
ATOM	9296	C	SER	B	55	-24.022	-25.839	62.296	1.00	56.69	C
ATOM	9297	O	SER	B	55	-24.580	-25.602	63.358	1.00	56.87	O
ATOM	9299	N	GLU	B	56	-24.418	-25.313	61.138	1.00	57.23	N
ATOM	9300	CA	GLU	B	56	-25.676	-24.582	61.009	1.00	57.48	C
ATOM	9302	CB	GLU	B	56	-25.498	-23.388	60.055	1.00	57.50	C
ATOM	9305	CG	GLU	B	56	-24.838	-22.151	60.682	1.00	58.69	C
ATOM	9308	CD	GLU	B	56	-25.187	-20.859	59.924	1.00	61.99	C
ATOM	9309	OE1	GLU	B	56	-25.070	-20.837	58.682	1.00	60.54	O
ATOM	9310	OE2	GLU	B	56	-25.583	-19.863	60.566	1.00	70.96	O
ATOM	9311	C	GLU	B	56	-26.847	-25.484	60.539	1.00	56.68	C
ATOM	9312	O	GLU	B	56	-27.827	-24.984	59.991	1.00	56.23	O
ATOM	9314	N	ASN	B	57	-26.754	-26.797	60.769	1.00	56.37	N
ATOM	9315	CA	ASN	B	57	-27.807	-27.757	60.386	1.00	56.82	C
ATOM	9317	CB	ASN	B	57	-29.083	-27.556	61.237	1.00	57.35	C
ATOM	9320	CG	ASN	B	57	-28.819	-27.574	62.739	1.00	55.98	C
ATOM	9321	OD1	ASN	B	57	-28.299	-28.552	63.285	1.00	58.87	O
ATOM	9322	ND2	ASN	B	57	-29.217	-26.505	63.419	1.00	49.56	N
ATOM	9325	C	ASN	B	57	-28.190	-27.711	58.891	1.00	57.60	C
ATOM	9326	O	ASN	B	57	-29.367	-27.807	58.532	1.00	57.42	O
ATOM	9328	N	TYR	B	58	-27.198	-27.552	58.023	1.00	57.86	N
ATOM	9329	CA	TYR	B	58	-27.428	-27.504	56.570	1.00	56.14	C
ATOM	9331	CB	TYR	B	58	-27.682	-28.910	56.038	1.00	55.95	C
ATOM	9334	CG	TYR	B	58	-26.587	-29.893	56.375	1.00	55.36	C
ATOM	9335	CD1	TYR	B	58	-25.282	-29.670	55.960	1.00	55.28	C
ATOM	9337	CE1	TYR	B	58	-24.276	-30.570	56.257	1.00	59.89	C
ATOM	9339	CZ	TYR	B	58	-24.570	-31.719	56.982	1.00	60.17	C
ATOM	9340	OH	TYR	B	58	-23.574	-32.620	57.288	1.00	56.52	O
ATOM	9342	CE2	TYR	B	58	-25.863	-31.959	57.408	1.00	56.62	C
ATOM	9344	CD2	TYR	B	58	-26.862	-31.050	57.101	1.00	55.43	C
ATOM	9346	C	TYR	B	58	-28.573	-26.568	56.175	1.00	54.78	C
ATOM	9347	O	TYR	B	58	-29.306	-26.817	55.209	1.00	54.62	O
ATOM	9349	N	GLY	B	59	-28.710	-25.481	56.926	1.00	54.25	N
ATOM	9350	CA	GLY	B	59	-29.779	-24.509	56.700	1.00	54.82	C
ATOM	9353	C	GLY	B	59	-29.661	-23.869	55.334	1.00	53.54	C
ATOM	9354	O	GLY	B	59	-28.552	-23.694	54.836	1.00	53.40	O
ATOM	9356	N	ALA	B	60	-30.805	-23.529	54.738	1.00	53.00	N
ATOM	9357	CA	ALA	B	60	-30.864	-22.996	53.373	1.00	52.32	C
ATOM	9359	CB	ALA	B	60	-31.502	-24.016	52.448	1.00	51.71	C
ATOM	9363	C	ALA	B	60	-31.644	-21.693	53.320	1.00	51.58	C

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ATOM	9364	O	ALA	B	60	-32.417	-21.382	54.220	1.00	53.08	O
ATOM	9366	N	ASN	B	61	-31.441	-20.931	52.256	1.00	51.85	N
ATOM	9367	CA	ASN	B	61	-32.195	-19.704	52.030	1.00	52.22	C
ATOM	9369	CB	ASN	B	61	-31.624	-18.552	52.873	1.00	52.98	C
ATOM	9372	CG	ASN	B	61	-32.717	-17.666	53.500	1.00	55.92	C
ATOM	9373	OD1	ASN	B	61	-32.621	-17.260	54.658	1.00	59.75	O
ATOM	9374	ND2	ASN	B	61	-33.747	-17.378	52.742	1.00	49.51	N
ATOM	9377	C	ASN	B	61	-32.155	-19.372	50.541	1.00	53.18	C
ATOM	9378	O	ASN	B	61	-31.187	-19.708	49.846	1.00	55.85	O
ATOM	9380	N	TYR	B	62	-33.207	-18.716	50.061	1.00	52.93	N
ATOM	9381	CA	TYR	B	62	-33.451	-18.542	48.634	1.00	52.14	C
ATOM	9383	CB	TYR	B	62	-34.603	-19.448	48.199	1.00	50.84	C
ATOM	9386	CG	TYR	B	62	-34.363	-20.911	48.494	1.00	49.79	C
ATOM	9387	CD1	TYR	B	62	-34.676	-21.454	49.733	1.00	42.10	C
ATOM	9389	CE1	TYR	B	62	-34.444	-22.775	50.009	1.00	44.59	C
ATOM	9391	CZ	TYR	B	62	-33.892	-23.591	49.034	1.00	49.21	C
ATOM	9392	OH	TYR	B	62	-33.662	-24.923	49.286	1.00	49.24	O
ATOM	9394	CE2	TYR	B	62	-33.571	-23.078	47.798	1.00	49.63	C
ATOM	9396	CD2	TYR	B	62	-33.807	-21.746	47.532	1.00	50.35	C
ATOM	9398	C	TYR	B	62	-33.822	-17.109	48.322	1.00	52.40	C
ATOM	9399	O	TYR	B	62	-34.206	-16.347	49.199	1.00	49.96	O
ATOM	9401	N	ALA	B	63	-33.686	-16.748	47.057	1.00	54.42	N
ATOM	9402	CA	ALA	B	63	-34.194	-15.482	46.568	1.00	54.68	C
ATOM	9404	CB	ALA	B	63	-33.541	-15.119	45.257	1.00	54.68	C
ATOM	9408	C	ALA	B	63	-35.682	-15.669	46.382	1.00	55.78	C
ATOM	9409	O	ALA	B	63	-36.134	-16.765	46.070	1.00	55.96	O
ATOM	9411	N	GLU	B	64	-36.438	-14.592	46.558	1.00	57.66	N
ATOM	9412	CA	GLU	B	64	-37.899	-14.659	46.523	1.00	56.77	C
ATOM	9414	CB	GLU	B	64	-38.514	-13.367	47.084	1.00	56.49	C
ATOM	9417	CG	GLU	B	64	-38.081	-12.997	48.511	1.00	54.77	C
ATOM	9420	CD	GLU	B	64	-38.364	-14.086	49.544	1.00	55.72	C
ATOM	9421	OE1	GLU	B	64	-39.184	-15.000	49.284	1.00	55.18	O
ATOM	9422	OE2	GLU	B	64	-37.742	-14.046	50.627	1.00	55.25	O
ATOM	9423	C	GLU	B	64	-38.475	-14.949	45.134	1.00	56.79	C
ATOM	9424	O	GLU	B	64	-39.633	-15.339	45.016	1.00	59.39	O
ATOM	9426	N	SER	B	65	-37.683	-14.775	44.083	1.00	56.67	N
ATOM	9427	CA	SER	B	65	-38.166	-15.095	42.740	1.00	56.33	C
ATOM	9429	CB	SER	B	65	-37.318	-14.388	41.674	1.00	55.40	C
ATOM	9432	OG	SER	B	65	-36.086	-15.050	41.467	1.00	52.67	O
ATOM	9434	C	SER	B	65	-38.163	-16.609	42.495	1.00	56.91	C
ATOM	9435	O	SER	B	65	-38.684	-17.078	41.489	1.00	59.57	O
ATOM	9437	N	VAL	B	66	-37.589	-17.365	43.422	1.00	55.11	N
ATOM	9438	CA	VAL	B	66	-37.310	-18.779	43.207	1.00	53.81	C
ATOM	9440	CB	VAL	B	66	-35.810	-18.913	42.895	1.00	54.11	C
ATOM	9442	CG1	VAL	B	66	-35.076	-19.720	43.946	1.00	58.69	C
ATOM	9446	CG2	VAL	B	66	-35.591	-19.450	41.503	1.00	53.52	C
ATOM	9450	C	VAL	B	66	-37.748	-19.701	44.372	1.00	52.72	C
ATOM	9451	O	VAL	B	66	-37.892	-20.910	44.190	1.00	50.48	O
ATOM	9453	N	ARG	B	67	-37.973	-19.117	45.549	1.00	52.58	N
ATOM	9454	CA	ARG	B	67	-38.397	-19.840	46.755	1.00	51.78	C
ATOM	9456	CB	ARG	B	67	-38.478	-18.861	47.935	1.00	50.98	C
ATOM	9459	CG	ARG	B	67	-38.942	-19.441	49.267	1.00	52.10	C
ATOM	9462	CD	ARG	B	67	-39.295	-18.353	50.288	1.00	53.07	C
ATOM	9465	NE	ARG	B	67	-38.205	-18.050	51.211	1.00	56.20	N
ATOM	9467	CZ	ARG	B	67	-37.204	-17.209	50.958	1.00	60.91	C
ATOM	9468	NH1	ARG	B	67	-37.121	-16.579	49.798	1.00	69.43	N
ATOM	9471	NH2	ARG	B	67	-36.264	-16.989	51.858	1.00	54.63	N
ATOM	9474	C	ARG	B	67	-39.740	-20.514	46.548	1.00	51.61	C
ATOM	9475	O	ARG	B	67	-40.662	-19.918	45.994	1.00	52.70	O
ATOM	9477	N	GLY	B	68	-39.838	-21.760	46.999	1.00	52.22	N
ATOM	9478	CA	GLY	B	68	-41.040	-22.571	46.817	1.00	51.72	C
ATOM	9481	C	GLY	B	68	-41.021	-23.390	45.541	1.00	52.26	C
ATOM	9482	O	GLY	B	68	-41.893	-24.240	45.340	1.00	55.36	O

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ATOM	9484	N	ARG	B	69	-40.044	-23.142	44.671	1.00	51.46	N
ATOM	9485	CA	ARG	B	69	-39.971	-23.827	43.379	1.00	52.71	C
ATOM	9487	CB	ARG	B	69	-40.192	-22.832	42.241	1.00	53.50	C
ATOM	9490	CG	ARG	B	69	-41.606	-22.293	42.200	1.00	51.31	C
ATOM	9493	CD	ARG	B	69	-41.877	-21.449	40.975	1.00	52.31	C
ATOM	9496	NE	ARG	B	69	-40.846	-20.441	40.752	1.00	55.92	N
ATOM	9498	CZ	ARG	B	69	-40.002	-20.412	39.721	1.00	51.70	C
ATOM	9499	NH1	ARG	B	69	-40.047	-21.326	38.767	1.00	49.27	N
ATOM	9502	NH2	ARG	B	69	-39.119	-19.435	39.635	1.00	46.31	N
ATOM	9505	C	ARG	B	69	-38.648	-24.533	43.186	1.00	53.27	C
ATOM	9506	O	ARG	B	69	-38.609	-25.664	42.709	1.00	55.74	O
ATOM	9508	N	PHE	B	70	-37.565	-23.844	43.523	1.00	54.04	N
ATOM	9509	CA	PHE	B	70	-36.230	-24.410	43.467	1.00	54.35	C
ATOM	9511	CB	PHE	B	70	-35.240	-23.406	42.886	1.00	53.43	C
ATOM	9514	CG	PHE	B	70	-35.491	-23.036	41.441	1.00	55.01	C
ATOM	9515	CD1	PHE	B	70	-36.716	-23.262	40.817	1.00	52.51	C
ATOM	9517	CE1	PHE	B	70	-36.912	-22.898	39.497	1.00	52.41	C
ATOM	9519	CZ	PHE	B	70	-35.905	-22.289	38.788	1.00	49.52	C
ATOM	9521	CE2	PHE	B	70	-34.689	-22.046	39.391	1.00	53.29	C
ATOM	9523	CD2	PHE	B	70	-34.483	-22.417	40.706	1.00	55.29	C
ATOM	9525	C	PHE	B	70	-35.798	-24.759	44.883	1.00	55.98	C
ATOM	9526	O	PHE	B	70	-36.134	-24.040	45.843	1.00	57.10	O
ATOM	9528	N	THR	B	71	-35.046	-25.856	45.004	1.00	56.70	N
ATOM	9529	CA	THR	B	71	-34.500	-26.311	46.284	1.00	56.44	C
ATOM	9531	CB	THR	B	71	-35.271	-27.527	46.796	1.00	56.36	C
ATOM	9533	OG1	THR	B	71	-36.640	-27.166	47.016	1.00	57.34	O
ATOM	9535	CG2	THR	B	71	-34.660	-28.047	48.098	1.00	55.70	C
ATOM	9539	C	THR	B	71	-33.017	-26.688	46.165	1.00	57.57	C
ATOM	9540	O	THR	B	71	-32.606	-27.292	45.169	1.00	56.61	O
ATOM	9542	N	ILE	B	72	-32.229	-26.334	47.190	1.00	58.19	N
ATOM	9543	CA	ILE	B	72	-30.821	-26.747	47.287	1.00	57.13	C
ATOM	9545	CB	ILE	B	72	-29.888	-25.635	47.795	1.00	57.16	C
ATOM	9547	CG1	ILE	B	72	-30.201	-24.315	47.142	1.00	60.50	C
ATOM	9550	CD1	ILE	B	72	-29.264	-23.249	47.597	1.00	62.72	C
ATOM	9554	CG2	ILE	B	72	-28.412	-25.953	47.491	1.00	57.36	C
ATOM	9558	C	ILE	B	72	-30.679	-27.864	48.289	1.00	54.97	C
ATOM	9559	O	ILE	B	72	-31.323	-27.846	49.331	1.00	55.85	O
ATOM	9561	N	SER	B	73	-29.812	-28.820	47.973	1.00	53.85	N
ATOM	9562	CA	SER	B	73	-29.405	-29.849	48.920	1.00	53.27	C
ATOM	9564	CB	SER	B	73	-30.334	-31.055	48.839	1.00	51.63	C
ATOM	9567	OG	SER	B	73	-30.422	-31.532	47.506	1.00	55.19	O
ATOM	9569	C	SER	B	73	-27.976	-30.252	48.593	1.00	52.79	C
ATOM	9570	O	SER	B	73	-27.455	-29.921	47.519	1.00	52.93	O
ATOM	9572	N	ARG	B	74	-27.348	-30.969	49.518	1.00	51.93	N
ATOM	9573	CA	ARG	B	74	-25.943	-31.305	49.393	1.00	51.59	C
ATOM	9575	CB	ARG	B	74	-25.108	-30.273	50.136	1.00	50.64	C
ATOM	9578	CG	ARG	B	74	-25.368	-30.224	51.630	1.00	49.70	C
ATOM	9581	CD	ARG	B	74	-24.673	-29.044	52.284	1.00	53.08	C
ATOM	9584	NE	ARG	B	74	-23.217	-29.088	52.125	1.00	54.58	N
ATOM	9586	CZ	ARG	B	74	-22.418	-28.029	52.210	1.00	57.86	C
ATOM	9587	NH1	ARG	B	74	-22.916	-26.820	52.450	1.00	60.01	N
ATOM	9590	NH2	ARG	B	74	-21.109	-28.176	52.039	1.00	61.08	N
ATOM	9593	C	ARG	B	74	-25.631	-32.683	49.939	1.00	52.07	C
ATOM	9594	O	ARG	B	74	-26.329	-33.202	50.810	1.00	52.51	O
ATOM	9596	N	ASP	B	75	-24.569	-33.272	49.413	1.00	52.35	N
ATOM	9597	CA	ASP	B	75	-24.046	-34.514	49.934	1.00	51.94	C
ATOM	9599	CB	ASP	B	75	-24.294	-35.638	48.937	1.00	50.84	C
ATOM	9602	CG	ASP	B	75	-24.053	-37.002	49.533	1.00	52.31	C
ATOM	9603	OD1	ASP	B	75	-23.303	-37.086	50.530	1.00	50.83	O
ATOM	9604	OD2	ASP	B	75	-24.621	-37.987	49.008	1.00	53.27	O
ATOM	9605	C	ASP	B	75	-22.550	-34.329	50.217	1.00	52.87	C
ATOM	9606	O	ASP	B	75	-21.706	-34.446	49.317	1.00	52.64	O
ATOM	9608	N	ASP	B	76	-22.226	-34.028	51.472	1.00	52.56	N

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ATOM	9609	CA	ASP	B	76	-20.828	-33.858	51.871	1.00	52.98	C
ATOM	9611	CB	ASP	B	76	-20.722	-33.459	53.350	1.00	52.94	C
ATOM	9614	CG	ASP	B	76	-21.218	-32.046	53.622	1.00	54.99	C
ATOM	9615	OD1	ASP	B	76	-21.386	-31.259	52.662	1.00	52.49	O
ATOM	9616	OD2	ASP	B	76	-21.441	-31.724	54.813	1.00	56.04	O
ATOM	9617	C	ASP	B	76	-19.979	-35.114	51.600	1.00	53.20	C
ATOM	9618	O	ASP	B	76	-18.778	-35.011	51.300	1.00	52.44	O
ATOM	9620	N	SER	B	77	-20.599	-36.289	51.698	1.00	52.38	N
ATOM	9621	CA	SER	B	77	-19.895	-37.539	51.416	1.00	52.35	C
ATOM	9623	CB	SER	B	77	-20.690	-38.740	51.919	1.00	51.38	C
ATOM	9626	OG	SER	B	77	-21.713	-39.071	51.000	1.00	50.69	O
ATOM	9628	C	SER	B	77	-19.607	-37.726	49.925	1.00	51.61	C
ATOM	9629	O	SER	B	77	-18.793	-38.558	49.570	1.00	51.60	O
ATOM	9631	N	LYS	B	78	-20.289	-36.981	49.058	1.00	52.03	N
ATOM	9632	CA	LYS	B	78	-20.003	-37.013	47.619	1.00	53.43	C
ATOM	9634	CB	LYS	B	78	-21.240	-37.511	46.848	1.00	53.95	C
ATOM	9637	CG	LYS	B	78	-21.445	-39.026	46.955	1.00	57.91	C
ATOM	9640	CD	LYS	B	78	-22.436	-39.586	45.932	1.00	57.80	C
ATOM	9643	CE	LYS	B	78	-23.887	-39.403	46.376	1.00	65.44	C
ATOM	9646	NZ	LYS	B	78	-24.870	-40.098	45.483	1.00	64.81	N
ATOM	9650	C	LYS	B	78	-19.507	-35.658	47.073	1.00	52.27	C
ATOM	9651	O	LYS	B	78	-19.393	-35.480	45.866	1.00	49.95	O
ATOM	9653	N	ASN	B	79	-19.187	-34.724	47.971	1.00	52.77	N
ATOM	9654	CA	ASN	B	79	-18.720	-33.383	47.604	1.00	52.21	C
ATOM	9656	CB	ASN	B	79	-17.231	-33.416	47.241	1.00	49.93	C
ATOM	9659	CG	ASN	B	79	-16.335	-33.377	48.464	1.00	51.60	C
ATOM	9660	OD1	ASN	B	79	-16.767	-33.666	49.578	1.00	53.74	O
ATOM	9661	ND2	ASN	B	79	-15.080	-33.004	48.262	1.00	54.23	N
ATOM	9664	C	ASN	B	79	-19.550	-32.739	46.494	1.00	52.81	C
ATOM	9665	O	ASN	B	79	-19.016	-32.212	45.524	1.00	55.10	O
ATOM	9667	N	THR	B	80	-20.864	-32.775	46.653	1.00	52.23	N
ATOM	9668	CA	THR	B	80	-21.765	-32.401	45.577	1.00	51.61	C
ATOM	9670	CB	THR	B	80	-22.325	-33.657	44.898	1.00	52.29	C
ATOM	9672	OG1	THR	B	80	-21.240	-34.462	44.422	1.00	49.01	O
ATOM	9674	CG2	THR	B	80	-23.238	-33.292	43.736	1.00	52.69	C
ATOM	9678	C	THR	B	80	-22.926	-31.575	46.101	1.00	50.80	C
ATOM	9679	O	THR	B	80	-23.485	-31.884	47.151	1.00	50.17	O
ATOM	9681	N	VAL	B	81	-23.285	-30.526	45.367	1.00	50.84	N
ATOM	9682	CA	VAL	B	81	-24.454	-29.720	45.712	1.00	52.11	C
ATOM	9684	CB	VAL	B	81	-24.060	-28.280	46.065	1.00	51.35	C
ATOM	9686	CG1	VAL	B	81	-23.434	-27.559	44.864	1.00	53.00	C
ATOM	9690	CG2	VAL	B	81	-25.268	-27.525	46.603	1.00	51.31	C
ATOM	9694	C	VAL	B	81	-25.482	-29.762	44.575	1.00	52.11	C
ATOM	9695	O	VAL	B	81	-25.107	-29.781	43.406	1.00	53.31	O
ATOM	9697	N	TYR	B	82	-26.767	-29.798	44.925	1.00	51.73	N
ATOM	9698	CA	TYR	B	82	-27.840	-29.960	43.930	1.00	53.05	C
ATOM	9700	CB	TYR	B	82	-28.661	-31.238	44.187	1.00	51.60	C
ATOM	9703	CG	TYR	B	82	-27.877	-32.528	44.256	1.00	50.27	C
ATOM	9704	CD1	TYR	B	82	-27.556	-33.229	43.105	1.00	49.45	C
ATOM	9706	CE1	TYR	B	82	-26.841	-34.430	43.164	1.00	48.96	C
ATOM	9708	CZ	TYR	B	82	-26.456	-34.942	44.390	1.00	49.17	C
ATOM	9709	OH	TYR	B	82	-25.747	-36.122	44.449	1.00	51.97	O
ATOM	9711	CE2	TYR	B	82	-26.773	-34.266	45.552	1.00	48.85	C
ATOM	9713	CD2	TYR	B	82	-27.488	-33.067	45.480	1.00	48.53	C
ATOM	9715	C	TYR	B	82	-28.817	-28.790	43.957	1.00	53.68	C
ATOM	9716	O	TYR	B	82	-29.086	-28.230	45.025	1.00	53.44	O
ATOM	9718	N	LEU	B	83	-29.359	-28.447	42.786	1.00	53.66	N
ATOM	9719	CA	LEU	B	83	-30.510	-27.540	42.687	1.00	54.91	C
ATOM	9721	CB	LEU	B	83	-30.124	-26.220	42.031	1.00	55.04	C
ATOM	9724	CG	LEU	B	83	-31.220	-25.153	41.963	1.00	54.30	C
ATOM	9726	CD1	LEU	B	83	-31.369	-24.472	43.283	1.00	56.42	C
ATOM	9730	CD2	LEU	B	83	-30.880	-24.129	40.903	1.00	58.69	C
ATOM	9734	C	LEU	B	83	-31.645	-28.194	41.892	1.00	55.59	C

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ATOM	9735	O	LEU	B	83	-31.608	-28.229	40.660	1.00	54.62	O
ATOM	9737	N	GLN	B	84	-32.639	-28.713	42.617	1.00	56.31	N
ATOM	9738	CA	GLN	B	84	-33.860	-29.249	42.033	1.00	55.50	C
ATOM	9740	CB	GLN	B	84	-34.578	-30.146	43.050	1.00	55.99	C
ATOM	9743	CG	GLN	B	84	-35.857	-30.834	42.548	1.00	55.42	C
ATOM	9746	CD	GLN	B	84	-35.587	-31.896	41.500	1.00	56.92	C
ATOM	9747	OE1	GLN	B	84	-34.722	-32.760	41.667	1.00	55.45	O
ATOM	9748	NE2	GLN	B	84	-36.332	-31.834	40.409	1.00	59.02	N
ATOM	9751	C	GLN	B	84	-34.737	-28.063	41.667	1.00	56.02	C
ATOM	9752	O	GLN	B	84	-35.104	-27.273	42.527	1.00	55.65	O
ATOM	9754	N	MET	B	85	-35.048	-27.928	40.383	1.00	57.32	N
ATOM	9755	CA	MET	B	85	-35.857	-26.819	39.892	1.00	56.07	C
ATOM	9757	CB	MET	B	85	-35.164	-26.145	38.705	1.00	55.29	C
ATOM	9760	CG	MET	B	85	-33.773	-25.651	39.030	1.00	54.69	C
ATOM	9763	SD	MET	B	85	-32.923	-24.798	37.686	1.00	55.74	S
ATOM	9764	CE	MET	B	85	-32.627	-26.160	36.572	1.00	64.07	C
ATOM	9768	C	MET	B	85	-37.211	-27.371	39.473	1.00	56.77	C
ATOM	9769	O	MET	B	85	-37.298	-28.211	38.563	1.00	55.53	O
ATOM	9771	N	ASN	B	86	-38.259	-26.917	40.157	1.00	55.85	N
ATOM	9772	CA	ASN	B	86	-39.625	-27.314	39.832	1.00	54.92	C
ATOM	9774	CB	ASN	B	86	-40.265	-28.020	41.020	1.00	53.97	C
ATOM	9777	CG	ASN	B	86	-39.564	-29.313	41.376	1.00	55.14	C
ATOM	9778	OD1	ASN	B	86	-38.758	-29.837	40.602	1.00	62.05	O
ATOM	9779	ND2	ASN	B	86	-39.861	-29.836	42.555	1.00	48.25	N
ATOM	9782	C	ASN	B	86	-40.461	-26.113	39.441	1.00	55.08	C
ATOM	9783	O	ASN	B	86	-40.068	-24.977	39.703	1.00	56.57	O
ATOM	9785	N	SER	B	87	-41.603	-26.378	38.804	1.00	54.35	N
ATOM	9786	CA	SER	B	87	-42.563	-25.345	38.413	1.00	53.73	C
ATOM	9788	CB	SER	B	87	-43.197	-24.694	39.659	1.00	53.16	C
ATOM	9791	OG	SER	B	87	-43.769	-25.650	40.542	1.00	50.56	O
ATOM	9793	C	SER	B	87	-41.890	-24.287	37.537	1.00	54.03	C
ATOM	9794	O	SER	B	87	-42.020	-23.087	37.776	1.00	55.01	O
ATOM	9796	N	LEU	B	88	-41.168	-24.734	36.520	1.00	53.64	N
ATOM	9797	CA	LEU	B	88	-40.330	-23.823	35.749	1.00	54.98	C
ATOM	9799	CB	LEU	B	88	-39.379	-24.603	34.834	1.00	55.57	C
ATOM	9802	CG	LEU	B	88	-38.251	-25.274	35.613	1.00	56.38	C
ATOM	9804	CD1	LEU	B	88	-37.610	-26.381	34.813	1.00	57.26	C
ATOM	9808	CD2	LEU	B	88	-37.213	-24.236	36.068	1.00	54.65	C
ATOM	9812	C	LEU	B	88	-41.127	-22.817	34.931	1.00	55.40	C
ATOM	9813	O	LEU	B	88	-41.974	-23.192	34.126	1.00	57.09	O
ATOM	9815	N	LYS	B	89	-40.844	-21.538	35.161	1.00	57.08	N
ATOM	9816	CA	LYS	B	89	-41.357	-20.438	34.340	1.00	56.55	C
ATOM	9818	CB	LYS	B	89	-41.600	-19.193	35.203	1.00	55.69	C
ATOM	9821	CG	LYS	B	89	-42.761	-19.321	36.163	1.00	55.59	C
ATOM	9824	CD	LYS	B	89	-42.532	-18.509	37.434	1.00	58.84	C
ATOM	9827	CE	LYS	B	89	-43.827	-18.307	38.216	1.00	61.73	C
ATOM	9830	NZ	LYS	B	89	-44.545	-19.585	38.493	1.00	63.76	N
ATOM	9834	C	LYS	B	89	-40.371	-20.095	33.213	1.00	56.57	C
ATOM	9835	O	LYS	B	89	-39.182	-20.443	33.266	1.00	54.37	O
ATOM	9837	N	THR	B	90	-40.891	-19.402	32.203	1.00	56.99	N
ATOM	9838	CA	THR	B	90	-40.110	-18.979	31.036	1.00	56.12	C
ATOM	9840	CB	THR	B	90	-41.011	-18.347	29.916	1.00	55.05	C
ATOM	9842	OG1	THR	B	90	-40.211	-17.544	29.051	1.00	59.38	O
ATOM	9844	CG2	THR	B	90	-42.119	-17.466	30.484	1.00	56.71	C
ATOM	9848	C	THR	B	90	-38.943	-18.051	31.421	1.00	55.29	C
ATOM	9849	O	THR	B	90	-37.840	-18.188	30.892	1.00	54.64	O
ATOM	9851	N	GLU	B	91	-39.167	-17.140	32.364	1.00	56.38	N
ATOM	9852	CA	GLU	B	91	-38.101	-16.212	32.795	1.00	57.43	C
ATOM	9854	CB	GLU	B	91	-38.669	-14.971	33.512	1.00	58.33	C
ATOM	9857	CG	GLU	B	91	-39.371	-15.239	34.842	1.00	64.12	C
ATOM	9860	CD	GLU	B	91	-40.824	-15.645	34.683	1.00	70.42	C
ATOM	9861	OE1	GLU	B	91	-41.286	-15.821	33.523	1.00	70.14	O
ATOM	9862	OE2	GLU	B	91	-41.499	-15.784	35.731	1.00	70.97	O

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ATOM	9863	C	GLU	B	91	-36.978	-16.851	33.639	1.00	56.22	C
ATOM	9864	O	GLU	B	91	-35.985	-16.202	33.926	1.00	56.66	O
ATOM	9866	N	ASP	B	92	-37.126	-18.115	34.025	1.00	56.07	N
ATOM	9867	CA	ASP	B	92	-36.012	-18.861	34.611	1.00	55.37	C
ATOM	9869	CB	ASP	B	92	-36.458	-20.245	35.103	1.00	56.00	C
ATOM	9872	CG	ASP	B	92	-37.489	-20.180	36.228	1.00	56.68	C
ATOM	9873	OD1	ASP	B	92	-37.443	-19.252	37.057	1.00	54.69	O
ATOM	9874	OD2	ASP	B	92	-38.343	-21.080	36.291	1.00	55.56	O
ATOM	9875	C	ASP	B	92	-34.893	-19.045	33.592	1.00	55.02	C
ATOM	9876	O	ASP	B	92	-33.745	-19.273	33.975	1.00	56.48	O
ATOM	9878	N	THR	B	93	-35.229	-18.969	32.301	1.00	53.61	N
ATOM	9879	CA	THR	B	93	-34.240	-19.095	31.230	1.00	54.02	C
ATOM	9881	CB	THR	B	93	-34.794	-18.615	29.864	1.00	53.54	C
ATOM	9883	OG1	THR	B	93	-35.888	-19.450	29.460	1.00	54.04	O
ATOM	9885	CG2	THR	B	93	-33.721	-18.663	28.791	1.00	51.70	C
ATOM	9889	C	THR	B	93	-32.993	-18.298	31.588	1.00	54.58	C
ATOM	9890	O	THR	B	93	-33.043	-17.074	31.704	1.00	56.03	O
ATOM	9892	N	ALA	B	94	-31.890	-19.009	31.795	1.00	54.48	N
ATOM	9893	CA	ALA	B	94	-30.639	-18.398	32.213	1.00	53.89	C
ATOM	9895	CB	ALA	B	94	-30.812	-17.734	33.549	1.00	54.78	C
ATOM	9899	C	ALA	B	94	-29.551	-19.453	32.305	1.00	54.97	C
ATOM	9900	O	ALA	B	94	-29.835	-20.654	32.289	1.00	57.34	O
ATOM	9902	N	VAL	B	95	-28.303	-19.000	32.395	1.00	54.16	N
ATOM	9903	CA	VAL	B	95	-27.167	-19.888	32.656	1.00	52.86	C
ATOM	9905	CB	VAL	B	95	-25.848	-19.336	32.055	1.00	51.41	C
ATOM	9907	CG1	VAL	B	95	-24.635	-20.044	32.630	1.00	51.86	C
ATOM	9911	CG2	VAL	B	95	-25.858	-19.474	30.549	1.00	49.75	C
ATOM	9915	C	VAL	B	95	-27.054	-19.984	34.163	1.00	53.07	C
ATOM	9916	O	VAL	B	95	-26.937	-18.958	34.828	1.00	54.33	O
ATOM	9918	N	TYR	B	96	-27.105	-21.201	34.704	1.00	53.08	N
ATOM	9919	CA	TYR	B	96	-27.027	-21.399	36.160	1.00	53.07	C
ATOM	9921	CB	TYR	B	96	-28.024	-22.463	36.605	1.00	51.09	C
ATOM	9924	CG	TYR	B	96	-29.449	-21.980	36.555	1.00	49.90	C
ATOM	9925	CD1	TYR	B	96	-30.114	-21.836	35.344	1.00	48.90	C
ATOM	9927	CE1	TYR	B	96	-31.406	-21.386	35.298	1.00	48.16	C
ATOM	9929	CZ	TYR	B	96	-32.063	-21.082	36.478	1.00	49.56	C
ATOM	9930	OH	TYR	B	96	-33.364	-20.634	36.452	1.00	49.14	O
ATOM	9932	CE2	TYR	B	96	-31.422	-21.218	37.688	1.00	48.55	C
ATOM	9934	CD2	TYR	B	96	-30.129	-21.660	37.719	1.00	49.45	C
ATOM	9936	C	TYR	B	96	-25.605	-21.786	36.573	1.00	54.19	C
ATOM	9937	O	TYR	B	96	-24.992	-22.657	35.945	1.00	54.08	O
ATOM	9939	N	TYR	B	97	-25.089	-21.128	37.614	1.00	53.45	N
ATOM	9940	CA	TYR	B	97	-23.738	-21.374	38.126	1.00	53.72	C
ATOM	9942	CB	TYR	B	97	-22.932	-20.071	38.162	1.00	53.06	C
ATOM	9945	CG	TYR	B	97	-22.673	-19.409	36.815	1.00	52.93	C
ATOM	9946	CD1	TYR	B	97	-21.601	-19.805	36.006	1.00	50.63	C
ATOM	9948	CE1	TYR	B	97	-21.355	-19.193	34.790	1.00	50.03	C
ATOM	9950	CZ	TYR	B	97	-22.176	-18.172	34.374	1.00	52.12	C
ATOM	9951	OH	TYR	B	97	-21.957	-17.551	33.176	1.00	53.65	O
ATOM	9953	CE2	TYR	B	97	-23.232	-17.755	35.155	1.00	52.35	C
ATOM	9955	CD2	TYR	B	97	-23.472	-18.367	36.371	1.00	51.39	C
ATOM	9957	C	TYR	B	97	-23.824	-21.899	39.549	1.00	55.05	C
ATOM	9958	O	TYR	B	97	-24.636	-21.391	40.324	1.00	57.89	O
ATOM	9960	N	CYS	B	98	-23.019	-22.909	39.898	1.00	54.63	N
ATOM	9961	CA	CYS	B	98	-22.827	-23.276	41.309	1.00	55.19	C
ATOM	9963	CB	CYS	B	98	-22.713	-24.790	41.528	1.00	54.48	C
ATOM	9966	SG	CYS	B	98	-21.534	-25.613	40.472	1.00	68.35	S
ATOM	9968	C	CYS	B	98	-21.579	-22.571	41.798	1.00	54.49	C
ATOM	9969	O	CYS	B	98	-20.642	-22.367	41.026	1.00	55.68	O
ATOM	9971	N	SER	B	99	-21.564	-22.175	43.066	1.00	53.13	N
ATOM	9972	CA	SER	B	99	-20.394	-21.490	43.627	1.00	53.77	C
ATOM	9974	CB	SER	B	99	-20.594	-19.965	43.597	1.00	53.95	C
ATOM	9977	OG	SER	B	99	-19.434	-19.277	44.022	1.00	49.57	O

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ATOM	9979	C	SER	B	99	-20.113	-21.972	45.042	1.00	52.56	C
ATOM	9980	O	SER	B	99	-20.932	-22.659	45.637	1.00	53.56	O
ATOM	9982	N	ALA	B	100	-18.950	-21.617	45.576	1.00	52.16	N
ATOM	9983	CA	ALA	B	100	-18.620	-21.956	46.955	1.00	52.43	C
ATOM	9985	CB	ALA	B	100	-18.032	-23.345	47.004	1.00	52.84	C
ATOM	9989	C	ALA	B	100	-17.668	-20.949	47.619	1.00	53.04	C
ATOM	9990	O	ALA	B	100	-16.899	-20.255	46.945	1.00	52.36	O
ATOM	9992	N	SER	B	101	-17.756	-20.870	48.947	1.00	53.97	N
ATOM	9993	CA	SER	B	101	-16.791	-20.137	49.786	1.00	52.83	C
ATOM	9995	CB	SER	B	101	-17.125	-18.648	49.854	1.00	54.11	C
ATOM	9998	OG	SER	B	101	-18.316	-18.425	50.589	1.00	46.21	O
ATOM	10000	C	SER	B	101	-16.822	-20.701	51.193	1.00	52.47	C
ATOM	10001	O	SER	B	101	-17.836	-21.237	51.612	1.00	53.65	O
ATOM	10003	N	TYR	B	102	-15.730	-20.544	51.932	1.00	52.80	N
ATOM	10004	CA	TYR	B	102	-15.628	-21.122	53.265	1.00	51.97	C
ATOM	10006	CB	TYR	B	102	-14.222	-20.916	53.833	1.00	52.49	C
ATOM	10009	CG	TYR	B	102	-13.183	-21.826	53.220	1.00	54.73	C
ATOM	10010	CD1	TYR	B	102	-12.084	-21.318	52.538	1.00	50.64	C
ATOM	10012	CE1	TYR	B	102	-11.143	-22.161	51.985	1.00	52.41	C
ATOM	10014	CZ	TYR	B	102	-11.303	-23.533	52.102	1.00	53.41	C
ATOM	10015	OH	TYR	B	102	-10.394	-24.418	51.559	1.00	53.51	O
ATOM	10017	CE2	TYR	B	102	-12.387	-24.048	52.770	1.00	53.95	C
ATOM	10019	CD2	TYR	B	102	-13.313	-23.205	53.320	1.00	56.68	C
ATOM	10021	C	TYR	B	102	-16.666	-20.543	54.227	1.00	51.78	C
ATOM	10022	O	TYR	B	102	-16.870	-19.331	54.287	1.00	50.00	O
ATOM	10024	N	TYR	B	103	-17.332	-21.415	54.978	1.00	51.38	N
ATOM	10025	CA	TYR	B	103	-18.215	-20.959	56.037	1.00	52.05	C
ATOM	10027	CB	TYR	B	103	-18.696	-22.141	56.886	1.00	51.00	C
ATOM	10030	CG	TYR	B	103	-19.436	-21.711	58.120	1.00	49.10	C
ATOM	10031	CD1	TYR	B	103	-20.698	-21.163	58.034	1.00	53.66	C
ATOM	10033	CE1	TYR	B	103	-21.377	-20.747	59.166	1.00	49.68	C
ATOM	10035	CZ	TYR	B	103	-20.777	-20.859	60.388	1.00	46.64	C
ATOM	10036	OH	TYR	B	103	-21.439	-20.449	61.520	1.00	51.79	O
ATOM	10038	CE2	TYR	B	103	-19.526	-21.394	60.487	1.00	50.57	C
ATOM	10040	CD2	TYR	B	103	-18.863	-21.815	59.358	1.00	46.30	C
ATOM	10042	C	TYR	B	103	-17.476	-19.958	56.922	1.00	54.26	C
ATOM	10043	O	TYR	B	103	-16.319	-20.191	57.294	1.00	58.94	O
ATOM	10045	N	ARG	B	104	-18.133	-18.846	57.244	1.00	53.89	N
ATOM	10046	CA	ARG	B	104	-17.620	-17.890	58.233	1.00	52.36	C
ATOM	10048	CB	ARG	B	104	-17.416	-16.517	57.591	1.00	51.34	C
ATOM	10051	CG	ARG	B	104	-16.383	-16.520	56.488	1.00	51.26	C
ATOM	10054	CD	ARG	B	104	-16.401	-15.220	55.742	1.00	53.11	C
ATOM	10057	NE	ARG	B	104	-16.093	-14.115	56.633	1.00	55.60	N
ATOM	10059	CZ	ARG	B	104	-14.873	-13.650	56.861	1.00	54.62	C
ATOM	10060	NH1	ARG	B	104	-13.831	-14.178	56.247	1.00	57.54	N
ATOM	10063	NH2	ARG	B	104	-14.701	-12.636	57.699	1.00	57.92	N
ATOM	10066	C	ARG	B	104	-18.588	-17.770	59.402	1.00	51.58	C
ATOM	10067	O	ARG	B	104	-19.765	-18.069	59.270	1.00	49.33	O
ATOM	10069	N	TYR	B	105	-18.096	-17.319	60.548	1.00	53.11	N
ATOM	10070	CA	TYR	B	105	-18.973	-17.062	61.691	1.00	53.34	C
ATOM	10072	CB	TYR	B	105	-18.178	-16.993	62.986	1.00	54.09	C
ATOM	10075	CG	TYR	B	105	-17.639	-18.301	63.486	1.00	53.00	C
ATOM	10076	CD1	TYR	B	105	-18.422	-19.447	63.478	1.00	54.00	C
ATOM	10078	CE1	TYR	B	105	-17.937	-20.631	63.962	1.00	54.01	C
ATOM	10080	CZ	TYR	B	105	-16.662	-20.682	64.478	1.00	53.68	C
ATOM	10081	OH	TYR	B	105	-16.192	-21.872	64.948	1.00	57.62	O
ATOM	10083	CE2	TYR	B	105	-15.863	-19.560	64.514	1.00	53.46	C
ATOM	10085	CD2	TYR	B	105	-16.355	-18.378	64.025	1.00	55.08	C
ATOM	10087	C	TYR	B	105	-19.740	-15.754	61.565	1.00	54.37	C
ATOM	10088	O	TYR	B	105	-20.695	-15.543	62.306	1.00	58.57	O
ATOM	10090	N	ASP	B	106	-19.314	-14.870	60.667	1.00	52.73	N
ATOM	10091	CA	ASP	B	106	-19.924	-13.560	60.547	1.00	52.30	C
ATOM	10093	CB	ASP	B	106	-18.844	-12.463	60.565	1.00	53.61	C

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ATOM	10096	CG	ASP	B	106	-18.021	-12.388	59.269	1.00	54.59	C
ATOM	10097	OD1	ASP	B	106	-18.312	-13.140	58.311	1.00	53.22	O
ATOM	10098	OD2	ASP	B	106	-17.074	-11.568	59.222	1.00	54.25	O
ATOM	10099	C	ASP	B	106	-20.805	-13.445	59.309	1.00	54.57	C
ATOM	10100	O	ASP	B	106	-21.054	-14.415	58.583	1.00	58.76	O
ATOM	10102	N	VAL	B	107	-21.248	-12.225	59.061	1.00	54.02	N
ATOM	10103	CA	VAL	B	107	-22.125	-11.899	57.947	1.00	52.17	C
ATOM	10105	CB	VAL	B	107	-22.685	-10.488	58.246	1.00	51.49	C
ATOM	10107	CG1	VAL	B	107	-23.697	-10.585	59.361	1.00	52.19	C
ATOM	10111	CG2	VAL	B	107	-23.302	-9.837	57.068	1.00	56.32	C
ATOM	10115	C	VAL	B	107	-21.441	-12.024	56.547	1.00	52.08	C
ATOM	10116	O	VAL	B	107	-22.039	-11.719	55.520	1.00	50.75	O
ATOM	10118	N	GLY	B	108	-20.202	-12.506	56.497	1.00	52.12	N
ATOM	10119	CA	GLY	B	108	-19.478	-12.612	55.233	1.00	52.33	C
ATOM	10122	C	GLY	B	108	-19.911	-13.769	54.345	1.00	52.52	C
ATOM	10123	O	GLY	B	108	-19.943	-14.926	54.782	1.00	54.48	O
ATOM	10125	N	ALA	B	109	-20.251	-13.463	53.097	1.00	50.38	N
ATOM	10126	CA	ALA	B	109	-20.533	-14.504	52.105	1.00	50.55	C
ATOM	10128	CB	ALA	B	109	-21.955	-14.975	52.225	1.00	50.23	C
ATOM	10132	C	ALA	B	109	-20.251	-13.999	50.686	1.00	51.08	C
ATOM	10133	O	ALA	B	109	-20.675	-12.897	50.290	1.00	51.57	O
ATOM	10135	N	TRP	B	110	-19.510	-14.787	49.922	1.00	51.10	N
ATOM	10136	CA	TRP	B	110	-19.153	-14.376	48.568	1.00	51.34	C
ATOM	10138	CB	TRP	B	110	-17.991	-13.378	48.584	1.00	50.07	C
ATOM	10141	CG	TRP	B	110	-16.712	-13.934	49.046	1.00	52.07	C
ATOM	10142	CD1	TRP	B	110	-15.805	-14.622	48.297	1.00	54.76	C
ATOM	10144	NE1	TRP	B	110	-14.719	-14.971	49.065	1.00	54.63	N
ATOM	10146	CE2	TRP	B	110	-14.908	-14.502	50.339	1.00	50.63	C
ATOM	10147	CD2	TRP	B	110	-16.156	-13.839	50.364	1.00	54.61	C
ATOM	10148	CE3	TRP	B	110	-16.594	-13.267	51.568	1.00	55.01	C
ATOM	10150	CZ3	TRP	B	110	-15.776	-13.373	52.692	1.00	55.26	C
ATOM	10152	CH2	TRP	B	110	-14.540	-14.041	52.629	1.00	51.97	C
ATOM	10154	CZ2	TRP	B	110	-14.093	-14.611	51.467	1.00	48.32	C
ATOM	10156	C	TRP	B	110	-18.875	-15.608	47.720	1.00	51.67	C
ATOM	10157	O	TRP	B	110	-19.025	-16.739	48.191	1.00	54.15	O
ATOM	10159	N	PHE	B	111	-18.505	-15.392	46.468	1.00	49.72	N
ATOM	10160	CA	PHE	B	111	-18.537	-16.454	45.488	1.00	50.72	C
ATOM	10162	CB	PHE	B	111	-19.567	-16.075	44.418	1.00	51.31	C
ATOM	10165	CG	PHE	B	111	-20.890	-15.600	45.011	1.00	51.22	C
ATOM	10166	CD1	PHE	B	111	-21.367	-14.316	44.770	1.00	51.31	C
ATOM	10168	CE1	PHE	B	111	-22.568	-13.887	45.332	1.00	53.15	C
ATOM	10170	CZ	PHE	B	111	-23.300	-14.742	46.165	1.00	52.64	C
ATOM	10172	CE2	PHE	B	111	-22.827	-16.017	46.418	1.00	51.14	C
ATOM	10174	CD2	PHE	B	111	-21.628	-16.435	45.847	1.00	51.50	C
ATOM	10176	C	PHE	B	111	-17.127	-16.718	44.953	1.00	51.07	C
ATOM	10177	O	PHE	B	111	-16.697	-16.131	43.960	1.00	49.39	O
ATOM	10179	N	ALA	B	112	-16.423	-17.627	45.636	1.00	51.90	N
ATOM	10180	CA	ALA	B	112	-14.972	-17.785	45.494	1.00	52.28	C
ATOM	10182	CB	ALA	B	112	-14.369	-18.279	46.807	1.00	52.43	C
ATOM	10186	C	ALA	B	112	-14.562	-18.706	44.349	1.00	54.01	C
ATOM	10187	O	ALA	B	112	-13.589	-18.423	43.642	1.00	54.86	O
ATOM	10189	N	TYR	B	113	-15.277	-19.816	44.187	1.00	54.23	N
ATOM	10190	CA	TYR	B	113	-15.046	-20.741	43.071	1.00	54.55	C
ATOM	10192	CB	TYR	B	113	-14.529	-22.095	43.591	1.00	57.92	C
ATOM	10195	CG	TYR	B	113	-13.599	-21.915	44.769	1.00	59.49	C
ATOM	10196	CD1	TYR	B	113	-12.394	-21.228	44.629	1.00	59.51	C
ATOM	10198	CE1	TYR	B	113	-11.555	-21.029	45.712	1.00	59.73	C
ATOM	10200	CZ	TYR	B	113	-11.924	-21.508	46.961	1.00	62.35	C
ATOM	10201	OH	TYR	B	113	-11.107	-21.307	48.051	1.00	65.57	O
ATOM	10203	CE2	TYR	B	113	-13.112	-22.190	47.125	1.00	61.64	C
ATOM	10205	CD2	TYR	B	113	-13.947	-22.383	46.033	1.00	63.21	C
ATOM	10207	C	TYR	B	113	-16.357	-20.874	42.306	1.00	54.00	C
ATOM	10208	O	TYR	B	113	-17.426	-20.586	42.869	1.00	54.33	O

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ATOM	10210	N	TRP	B	114	-16.283	-21.260	41.029	1.00	50.42	N
ATOM	10211	CA	TRP	B	114	-17.471	-21.300	40.176	1.00	51.94	C
ATOM	10213	CB	TRP	B	114	-17.543	-20.046	39.296	1.00	53.17	C
ATOM	10216	CG	TRP	B	114	-17.786	-18.763	40.023	1.00	53.22	C
ATOM	10217	CD1	TRP	B	114	-16.930	-18.132	40.868	1.00	53.88	C
ATOM	10219	NE1	TRP	B	114	-17.499	-16.975	41.346	1.00	57.40	N
ATOM	10221	CE2	TRP	B	114	-18.742	-16.826	40.791	1.00	58.34	C
ATOM	10222	CD2	TRP	B	114	-18.959	-17.938	39.948	1.00	57.89	C
ATOM	10223	CE3	TRP	B	114	-20.178	-18.038	39.262	1.00	56.51	C
ATOM	10225	CZ3	TRP	B	114	-21.126	-17.026	39.429	1.00	55.40	C
ATOM	10227	CH2	TRP	B	114	-20.877	-15.929	40.278	1.00	54.29	C
ATOM	10229	CZ2	TRP	B	114	-19.697	-15.814	40.967	1.00	55.22	C
ATOM	10231	C	TRP	B	114	-17.482	-22.501	39.261	1.00	51.60	C
ATOM	10232	O	TRP	B	114	-16.434	-22.951	38.831	1.00	54.50	O
ATOM	10234	N	GLY	B	115	-18.671	-23.002	38.939	1.00	51.17	N
ATOM	10235	CA	GLY	B	115	-18.827	-23.991	37.874	1.00	50.06	C
ATOM	10238	C	GLY	B	115	-18.732	-23.314	36.522	1.00	49.72	C
ATOM	10239	O	GLY	B	115	-18.733	-22.088	36.451	1.00	50.08	O
ATOM	10241	N	GLN	B	116	-18.657	-24.103	35.450	1.00	48.81	N
ATOM	10242	CA	GLN	B	116	-18.618	-23.544	34.085	1.00	48.45	C
ATOM	10244	CB	GLN	B	116	-18.281	-24.582	32.986	1.00	49.52	C
ATOM	10247	CG	GLN	B	116	-17.847	-25.990	33.413	1.00	52.27	C
ATOM	10250	CD	GLN	B	116	-19.019	-26.866	33.840	1.00	53.91	C
ATOM	10251	OE1	GLN	B	116	-19.926	-27.143	33.054	1.00	53.87	O
ATOM	10252	NE2	GLN	B	116	-19.002	-27.301	35.093	1.00	48.40	N
ATOM	10255	C	GLN	B	116	-19.952	-22.909	33.723	1.00	46.90	C
ATOM	10256	O	GLN	B	116	-20.043	-22.171	32.740	1.00	44.48	O
ATOM	10258	N	GLY	B	117	-20.985	-23.233	34.504	1.00	47.53	N
ATOM	10259	CA	GLY	B	117	-22.349	-22.806	34.230	1.00	47.80	C
ATOM	10262	C	GLY	B	117	-22.985	-23.749	33.237	1.00	47.66	C
ATOM	10263	O	GLY	B	117	-22.282	-24.502	32.570	1.00	49.32	O
ATOM	10265	N	THR	B	118	-24.313	-23.727	33.138	1.00	48.93	N
ATOM	10266	CA	THR	B	118	-25.018	-24.482	32.085	1.00	48.76	C
ATOM	10268	CB	THR	B	118	-25.210	-25.981	32.464	1.00	48.89	C
ATOM	10270	OG1	THR	B	118	-25.548	-26.734	31.291	1.00	53.32	O
ATOM	10272	CG2	THR	B	118	-26.274	-26.165	33.519	1.00	46.00	C
ATOM	10276	C	THR	B	118	-26.351	-23.835	31.727	1.00	48.20	C
ATOM	10277	O	THR	B	118	-27.108	-23.424	32.604	1.00	51.12	O
ATOM	10279	N	LEU	B	119	-26.629	-23.742	30.433	1.00	48.41	N
ATOM	10280	CA	LEU	B	119	-27.837	-23.082	29.954	1.00	48.50	C
ATOM	10282	CB	LEU	B	119	-27.752	-22.797	28.450	1.00	47.16	C
ATOM	10285	CG	LEU	B	119	-28.871	-21.914	27.879	1.00	48.41	C
ATOM	10287	CD1	LEU	B	119	-28.763	-20.489	28.376	1.00	50.05	C
ATOM	10291	CD2	LEU	B	119	-28.854	-21.927	26.373	1.00	48.50	C
ATOM	10295	C	LEU	B	119	-29.071	-23.931	30.250	1.00	49.81	C
ATOM	10296	O	LEU	B	119	-29.124	-25.120	29.897	1.00	48.20	O
ATOM	10298	N	VAL	B	120	-30.044	-23.300	30.916	1.00	50.44	N
ATOM	10299	CA	VAL	B	120	-31.374	-23.871	31.149	1.00	49.07	C
ATOM	10301	CB	VAL	B	120	-31.696	-23.910	32.634	1.00	48.16	C
ATOM	10303	CG1	VAL	B	120	-33.125	-24.369	32.865	1.00	47.73	C
ATOM	10307	CG2	VAL	B	120	-30.711	-24.804	33.347	1.00	50.96	C
ATOM	10311	C	VAL	B	120	-32.394	-22.990	30.446	1.00	48.51	C
ATOM	10312	O	VAL	B	120	-32.524	-21.814	30.774	1.00	47.70	O
ATOM	10314	N	THR	B	121	-33.109	-23.568	29.485	1.00	49.00	N
ATOM	10315	CA	THR	B	121	-34.019	-22.825	28.627	1.00	49.43	C
ATOM	10317	CB	THR	B	121	-33.644	-22.974	27.128	1.00	50.87	C
ATOM	10319	OG1	THR	B	121	-32.226	-22.823	26.946	1.00	54.94	O
ATOM	10321	CG2	THR	B	121	-34.391	-21.944	26.283	1.00	50.14	C
ATOM	10325	C	THR	B	121	-35.409	-23.381	28.802	1.00	49.73	C
ATOM	10326	O	THR	B	121	-35.670	-24.532	28.455	1.00	49.51	O
ATOM	10328	N	VAL	B	122	-36.306	-22.560	29.335	1.00	50.80	N
ATOM	10329	CA	VAL	B	122	-37.697	-22.951	29.521	1.00	49.91	C
ATOM	10331	CB	VAL	B	122	-38.254	-22.403	30.852	1.00	51.14	C

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ATOM	10333	CG1	VAL	B	122	-39.628	-23.022	31.162	1.00	53.69	C
ATOM	10337	CG2	VAL	B	122	-37.264	-22.651	32.004	1.00	49.84	C
ATOM	10341	C	VAL	B	122	-38.514	-22.410	28.352	1.00	48.98	C
ATOM	10342	O	VAL	B	122	-38.596	-21.198	28.168	1.00	48.36	O
ATOM	10344	N	SER	B	123	-39.097	-23.311	27.562	1.00	49.19	N
ATOM	10345	CA	SER	B	123	-39.938	-22.948	26.404	1.00	49.47	C
ATOM	10347	CB	SER	B	123	-39.063	-22.518	25.225	1.00	50.02	C
ATOM	10350	OG	SER	B	123	-39.798	-22.400	24.021	1.00	47.49	O
ATOM	10352	C	SER	B	123	-40.804	-24.120	25.974	1.00	49.56	C
ATOM	10353	O	SER	B	123	-40.503	-25.268	26.290	1.00	49.63	O
ATOM	10355	N	SER	B	124	-41.881	-23.832	25.252	1.00	50.64	N
ATOM	10356	CA	SER	B	124	-42.711	-24.892	24.666	1.00	51.03	C
ATOM	10358	CB	SER	B	124	-44.201	-24.604	24.887	1.00	50.91	C
ATOM	10361	OG	SER	B	124	-44.578	-23.356	24.346	1.00	51.52	O
ATOM	10363	C	SER	B	124	-42.401	-25.118	23.174	1.00	51.23	C
ATOM	10364	O	SER	B	124	-42.993	-25.990	22.531	1.00	51.97	O
ATOM	10366	N	ALA	B	125	-41.465	-24.339	22.635	1.00	51.66	N
ATOM	10367	CA	ALA	B	125	-40.969	-24.535	21.272	1.00	51.70	C
ATOM	10369	CB	ALA	B	125	-40.193	-23.310	20.824	1.00	51.31	C
ATOM	10373	C	ALA	B	125	-40.072	-25.771	21.211	1.00	52.38	C
ATOM	10374	O	ALA	B	125	-39.141	-25.901	22.004	1.00	53.23	O
ATOM	10376	N	SER	B	126	-40.338	-26.674	20.269	1.00	53.10	N
ATOM	10377	CA	SER	B	126	-39.575	-27.926	20.184	1.00	53.58	C
ATOM	10379	CB	SER	B	126	-40.368	-29.007	19.440	1.00	53.05	C
ATOM	10382	OG	SER	B	126	-41.300	-28.435	18.542	1.00	56.47	O
ATOM	10384	C	SER	B	126	-38.166	-27.747	19.586	1.00	54.18	C
ATOM	10385	O	SER	B	126	-37.827	-26.702	19.016	1.00	52.27	O
ATOM	10387	N	THR	B	127	-37.359	-28.793	19.739	1.00	54.57	N
ATOM	10388	CA	THR	B	127	-35.938	-28.748	19.441	1.00	54.14	C
ATOM	10390	CB	THR	B	127	-35.205	-29.901	20.166	1.00	54.37	C
ATOM	10392	OG1	THR	B	127	-35.526	-29.864	21.563	1.00	58.43	O
ATOM	10394	CG2	THR	B	127	-33.697	-29.796	20.009	1.00	55.13	C
ATOM	10398	C	THR	B	127	-35.703	-28.831	17.941	1.00	53.64	C
ATOM	10399	O	THR	B	127	-36.071	-29.816	17.313	1.00	55.32	O
ATOM	10401	N	LYS	B	128	-35.087	-27.793	17.378	1.00	53.39	N
ATOM	10402	CA	LYS	B	128	-34.868	-27.684	15.938	1.00	54.12	C
ATOM	10404	CB	LYS	B	128	-35.488	-26.374	15.421	1.00	55.29	C
ATOM	10407	CG	LYS	B	128	-36.405	-26.501	14.176	1.00	57.14	C
ATOM	10410	CD	LYS	B	128	-35.818	-25.867	12.899	1.00	60.15	C
ATOM	10413	CE	LYS	B	128	-35.289	-26.900	11.908	1.00	60.15	C
ATOM	10416	NZ	LYS	B	128	-34.401	-26.272	10.887	1.00	58.48	N
ATOM	10420	C	LYS	B	128	-33.373	-27.708	15.644	1.00	53.97	C
ATOM	10421	O	LYS	B	128	-32.579	-27.153	16.402	1.00	56.83	O
ATOM	10423	N	GLY	B	129	-32.999	-28.365	14.550	1.00	52.74	N
ATOM	10424	CA	GLY	B	129	-31.609	-28.460	14.123	1.00	52.53	C
ATOM	10427	C	GLY	B	129	-31.348	-27.524	12.957	1.00	53.65	C
ATOM	10428	O	GLY	B	129	-32.216	-27.344	12.096	1.00	55.42	O
ATOM	10430	N	PRO	B	130	-30.134	-26.955	12.887	1.00	52.88	N
ATOM	10431	CA	PRO	B	130	-29.880	-25.847	11.978	1.00	51.85	C
ATOM	10433	CB	PRO	B	130	-28.570	-25.274	12.503	1.00	52.02	C
ATOM	10436	CG	PRO	B	130	-27.857	-26.454	13.040	1.00	52.63	C
ATOM	10439	CD	PRO	B	130	-28.915	-27.348	13.616	1.00	53.25	C
ATOM	10442	C	PRO	B	130	-29.694	-26.297	10.543	1.00	50.96	C
ATOM	10443	O	PRO	B	130	-29.504	-27.483	10.293	1.00	49.72	O
ATOM	10444	N	SER	B	131	-29.770	-25.341	9.620	1.00	50.80	N
ATOM	10445	CA	SER	B	131	-29.361	-25.546	8.238	1.00	51.40	C
ATOM	10447	CB	SER	B	131	-30.365	-24.945	7.254	1.00	51.80	C
ATOM	10450	OG	SER	B	131	-31.597	-25.637	7.266	1.00	53.81	O
ATOM	10452	C	SER	B	131	-28.041	-24.829	8.079	1.00	51.38	C
ATOM	10453	O	SER	B	131	-27.904	-23.685	8.514	1.00	52.12	O
ATOM	10455	N	VAL	B	132	-27.075	-25.498	7.459	1.00	50.81	N
ATOM	10456	CA	VAL	B	132	-25.760	-24.914	7.260	1.00	51.30	C
ATOM	10458	CB	VAL	B	132	-24.634	-25.875	7.699	1.00	50.80	C

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ATOM	10460	CG1	VAL	B	132	-23.266	-25.228	7.489	1.00	51.91	C
ATOM	10464	CG2	VAL	B	132	-24.818	-26.263	9.154	1.00	51.85	C
ATOM	10468	C	VAL	B	132	-25.581	-24.529	5.800	1.00	51.62	C
ATOM	10469	O	VAL	B	132	-25.290	-25.378	4.961	1.00	52.48	O
ATOM	10471	N	PHE	B	133	-25.764	-23.245	5.505	1.00	52.30	N
ATOM	10472	CA	PHE	B	133	-25.522	-22.713	4.163	1.00	52.24	C
ATOM	10474	CB	PHE	B	133	-26.550	-21.636	3.821	1.00	52.74	C
ATOM	10477	CG	PHE	B	133	-27.970	-22.097	3.952	1.00	53.46	C
ATOM	10478	CD1	PHE	B	133	-28.580	-22.807	2.929	1.00	54.14	C
ATOM	10480	CE1	PHE	B	133	-29.889	-23.236	3.048	1.00	53.90	C
ATOM	10482	CZ	PHE	B	133	-30.605	-22.962	4.198	1.00	53.29	C
ATOM	10484	CE2	PHE	B	133	-30.012	-22.259	5.226	1.00	54.94	C
ATOM	10486	CD2	PHE	B	133	-28.697	-21.829	5.102	1.00	56.08	C
ATOM	10488	C	PHE	B	133	-24.113	-22.124	4.077	1.00	52.45	C
ATOM	10489	O	PHE	B	133	-23.610	-21.578	5.062	1.00	53.33	O
ATOM	10491	N	PRO	B	134	-23.472	-22.227	2.899	1.00	51.97	N
ATOM	10492	CA	PRO	B	134	-22.132	-21.683	2.723	1.00	51.57	C
ATOM	10494	CB	PRO	B	134	-21.638	-22.420	1.480	1.00	52.22	C
ATOM	10497	CG	PRO	B	134	-22.869	-22.623	0.665	1.00	50.46	C
ATOM	10500	CD	PRO	B	134	-23.975	-22.851	1.658	1.00	52.33	C
ATOM	10503	C	PRO	B	134	-22.165	-20.175	2.464	1.00	51.61	C
ATOM	10504	O	PRO	B	134	-23.246	-19.605	2.290	1.00	51.20	O
ATOM	10505	N	LEU	B	135	-20.989	-19.545	2.442	1.00	51.72	N
ATOM	10506	CA	LEU	B	135	-20.849	-18.131	2.060	1.00	51.73	C
ATOM	10508	CB	LEU	B	135	-20.709	-17.249	3.302	1.00	51.84	C
ATOM	10511	CG	LEU	B	135	-21.907	-17.206	4.258	1.00	50.97	C
ATOM	10513	CD1	LEU	B	135	-21.518	-16.558	5.576	1.00	49.13	C
ATOM	10517	CD2	LEU	B	135	-23.079	-16.472	3.628	1.00	49.92	C
ATOM	10521	C	LEU	B	135	-19.642	-17.923	1.144	1.00	51.94	C
ATOM	10522	O	LEU	B	135	-19.785	-17.582	-0.036	1.00	51.14	O
ATOM	10524	N	GLY	B	150	-17.257	-18.194	4.805	1.00	50.98	N
ATOM	10525	CA	GLY	B	150	-17.955	-18.404	6.068	1.00	51.58	C
ATOM	10528	C	GLY	B	150	-19.010	-19.500	6.050	1.00	51.76	C
ATOM	10529	O	GLY	B	150	-19.250	-20.138	5.029	1.00	51.44	O
ATOM	10531	N	CYS	B	151	-19.636	-19.715	7.203	1.00	53.60	N
ATOM	10532	CA	CYS	B	151	-20.713	-20.692	7.351	1.00	54.06	C
ATOM	10534	CB	CYS	B	151	-20.242	-21.878	8.193	1.00	55.07	C
ATOM	10537	SG	CYS	B	151	-19.457	-23.203	7.250	1.00	58.07	S
ATOM	10539	C	CYS	B	151	-21.934	-20.045	8.007	1.00	54.00	C
ATOM	10540	O	CYS	B	151	-21.836	-19.455	9.082	1.00	52.58	O
ATOM	10542	N	LEU	B	152	-23.080	-20.155	7.345	1.00	54.08	N
ATOM	10543	CA	LEU	B	152	-24.332	-19.644	7.884	1.00	54.21	C
ATOM	10545	CB	LEU	B	152	-25.193	-19.028	6.775	1.00	54.31	C
ATOM	10548	CG	LEU	B	152	-26.653	-18.648	7.066	1.00	53.56	C
ATOM	10550	CD1	LEU	B	152	-26.873	-18.037	8.452	1.00	50.58	C
ATOM	10554	CD2	LEU	B	152	-27.135	-17.700	5.974	1.00	53.72	C
ATOM	10558	C	LEU	B	152	-25.060	-20.794	8.551	1.00	54.49	C
ATOM	10559	O	LEU	B	152	-25.333	-21.814	7.919	1.00	53.81	O
ATOM	10561	N	VAL	B	153	-25.348	-20.620	9.837	1.00	54.89	N
ATOM	10562	CA	VAL	B	153	-26.092	-21.592	10.615	1.00	55.00	C
ATOM	10564	CB	VAL	B	153	-25.368	-21.915	11.934	1.00	55.96	C
ATOM	10566	CG1	VAL	B	153	-25.982	-23.146	12.593	1.00	57.04	C
ATOM	10570	CG2	VAL	B	153	-23.865	-22.118	11.683	1.00	55.95	C
ATOM	10574	C	VAL	B	153	-27.465	-20.984	10.888	1.00	55.09	C
ATOM	10575	O	VAL	B	153	-27.587	-20.031	11.665	1.00	55.00	O
ATOM	10577	N	LYS	B	154	-28.489	-21.539	10.238	1.00	54.89	N
ATOM	10578	CA	LYS	B	154	-29.812	-20.923	10.195	1.00	54.47	C
ATOM	10580	CB	LYS	B	154	-30.191	-20.627	8.743	1.00	53.92	C
ATOM	10583	CG	LYS	B	154	-31.503	-19.884	8.617	1.00	54.64	C
ATOM	10586	CD	LYS	B	154	-31.628	-19.138	7.310	1.00	53.53	C
ATOM	10589	CE	LYS	B	154	-32.944	-18.382	7.259	1.00	52.78	C
ATOM	10592	NZ	LYS	B	154	-33.058	-17.372	8.345	1.00	53.36	N
ATOM	10596	C	LYS	B	154	-30.906	-21.777	10.850	1.00	54.58	C

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ATOM	10597	O	LYS	B	154	-30.892	-23.003	10.743	1.00	53.65	O
ATOM	10599	N	ASP	B	155	-31.838	-21.099	11.526	1.00	54.82	N
ATOM	10600	CA	ASP	B	155	-33.038	-21.706	12.110	1.00	54.65	C
ATOM	10602	CB	ASP	B	155	-34.035	-22.075	11.008	1.00	55.54	C
ATOM	10605	CG	ASP	B	155	-34.593	-20.859	10.287	1.00	57.21	C
ATOM	10606	OD1	ASP	B	155	-34.802	-19.812	10.934	1.00	59.60	O
ATOM	10607	OD2	ASP	B	155	-34.832	-20.958	9.065	1.00	58.84	O
ATOM	10608	C	ASP	B	155	-32.765	-22.929	12.977	1.00	54.95	C
ATOM	10609	O	ASP	B	155	-32.877	-24.067	12.504	1.00	54.96	O
ATOM	10611	N	TYR	B	156	-32.417	-22.682	14.241	1.00	54.53	N
ATOM	10612	CA	TYR	B	156	-32.275	-23.744	15.244	1.00	54.05	C
ATOM	10614	CB	TYR	B	156	-30.817	-24.189	15.391	1.00	54.00	C
ATOM	10617	CG	TYR	B	156	-29.877	-23.147	15.979	1.00	55.08	C
ATOM	10618	CD1	TYR	B	156	-29.226	-22.230	15.159	1.00	54.02	C
ATOM	10620	CE1	TYR	B	156	-28.362	-21.279	15.685	1.00	52.80	C
ATOM	10622	CZ	TYR	B	156	-28.135	-21.236	17.042	1.00	53.30	C
ATOM	10623	OH	TYR	B	156	-27.276	-20.288	17.538	1.00	55.28	O
ATOM	10625	CE2	TYR	B	156	-28.761	-22.137	17.888	1.00	53.76	C
ATOM	10627	CD2	TYR	B	156	-29.624	-23.093	17.353	1.00	55.51	C
ATOM	10629	C	TYR	B	156	-32.798	-23.297	16.595	1.00	54.11	C
ATOM	10630	O	TYR	B	156	-32.922	-22.106	16.862	1.00	54.77	O
ATOM	10632	N	PHE	B	157	-33.092	-24.270	17.445	1.00	54.54	N
ATOM	10633	CA	PHE	B	157	-33.561	-24.013	18.802	1.00	54.76	C
ATOM	10635	CB	PHE	B	157	-35.047	-23.645	18.789	1.00	54.48	C
ATOM	10638	CG	PHE	B	157	-35.577	-23.162	20.117	1.00	54.78	C
ATOM	10639	CD1	PHE	B	157	-35.537	-21.814	20.451	1.00	55.46	C
ATOM	10641	CE1	PHE	B	157	-36.044	-21.358	21.680	1.00	55.34	C
ATOM	10643	CZ	PHE	B	157	-36.593	-22.252	22.580	1.00	54.44	C
ATOM	10645	CE2	PHE	B	157	-36.646	-23.597	22.261	1.00	56.51	C
ATOM	10647	CD2	PHE	B	157	-36.144	-24.050	21.026	1.00	56.92	C
ATOM	10649	C	PHE	B	157	-33.324	-25.300	19.588	1.00	55.42	C
ATOM	10650	O	PHE	B	157	-33.478	-26.383	19.039	1.00	57.32	O
ATOM	10652	N	PRO	B	158	-32.883	-25.199	20.848	1.00	55.16	N
ATOM	10653	CA	PRO	B	158	-32.460	-24.025	21.604	1.00	55.61	C
ATOM	10655	CB	PRO	B	158	-32.567	-24.512	23.049	1.00	56.14	C
ATOM	10658	CG	PRO	B	158	-32.202	-25.956	22.955	1.00	55.07	C
ATOM	10661	CD	PRO	B	158	-32.786	-26.429	21.653	1.00	54.87	C
ATOM	10664	C	PRO	B	158	-31.012	-23.633	21.298	1.00	55.52	C
ATOM	10665	O	PRO	B	158	-30.384	-24.213	20.422	1.00	55.39	O
ATOM	10666	N	GLU	B	159	-30.494	-22.644	22.017	1.00	56.01	N
ATOM	10667	CA	GLU	B	159	-29.056	-22.412	22.066	1.00	55.50	C
ATOM	10669	CB	GLU	B	159	-28.759	-21.113	22.811	1.00	55.51	C
ATOM	10672	CG	GLU	B	159	-29.104	-19.859	22.047	1.00	57.18	C
ATOM	10675	CD	GLU	B	159	-27.952	-19.375	21.194	1.00	61.22	C
ATOM	10676	OE1	GLU	B	159	-27.540	-18.209	21.369	1.00	63.05	O
ATOM	10677	OE2	GLU	B	159	-27.447	-20.165	20.363	1.00	62.01	O
ATOM	10678	C	GLU	B	159	-28.407	-23.575	22.815	1.00	55.02	C
ATOM	10679	O	GLU	B	159	-29.092	-24.305	23.538	1.00	56.36	O
ATOM	10681	N	PRO	B	160	-27.084	-23.744	22.679	1.00	53.60	N
ATOM	10682	CA	PRO	B	160	-26.167	-23.063	21.803	1.00	52.61	C
ATOM	10684	CB	PRO	B	160	-24.990	-22.789	22.733	1.00	51.90	C
ATOM	10687	CG	PRO	B	160	-24.969	-23.998	23.654	1.00	52.09	C
ATOM	10690	CD	PRO	B	160	-26.343	-24.645	23.578	1.00	54.16	C
ATOM	10693	C	PRO	B	160	-25.693	-23.925	20.641	1.00	52.11	C
ATOM	10694	O	PRO	B	160	-25.957	-25.128	20.587	1.00	50.42	O
ATOM	10695	N	VAL	B	161	-24.989	-23.278	19.721	1.00	53.03	N
ATOM	10696	CA	VAL	B	161	-24.278	-23.947	18.647	1.00	52.97	C
ATOM	10698	CB	VAL	B	161	-24.822	-23.531	17.260	1.00	52.23	C
ATOM	10700	CG1	VAL	B	161	-23.858	-23.891	16.149	1.00	53.59	C
ATOM	10704	CG2	VAL	B	161	-26.153	-24.195	17.006	1.00	54.81	C
ATOM	10708	C	VAL	B	161	-22.818	-23.559	18.771	1.00	53.12	C
ATOM	10709	O	VAL	B	161	-22.501	-22.440	19.179	1.00	53.70	O
ATOM	10711	N	THR	B	162	-21.938	-24.495	18.434	1.00	52.95	N

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ATOM	10712	CA	THR	B	162	-20.509	-24.234	18.386	1.00	52.79	C
ATOM	10714	CB	THR	B	162	-19.732	-25.158	19.341	1.00	52.78	C
ATOM	10716	OG1	THR	B	162	-19.589	-26.459	18.754	1.00	56.12	O
ATOM	10718	CG2	THR	B	162	-20.461	-25.277	20.676	1.00	52.34	C
ATOM	10722	C	THR	B	162	-20.029	-24.448	16.959	1.00	52.48	C
ATOM	10723	O	THR	B	162	-20.527	-25.322	16.249	1.00	52.28	O
ATOM	10725	N	VAL	B	163	-19.066	-23.635	16.546	1.00	52.43	N
ATOM	10726	CA	VAL	B	163	-18.519	-23.701	15.207	1.00	51.71	C
ATOM	10728	CB	VAL	B	163	-18.977	-22.506	14.343	1.00	50.84	C
ATOM	10730	CG1	VAL	B	163	-18.816	-22.837	12.873	1.00	50.88	C
ATOM	10734	CG2	VAL	B	163	-20.421	-22.129	14.641	1.00	50.99	C
ATOM	10738	C	VAL	B	163	-16.998	-23.685	15.293	1.00	51.91	C
ATOM	10739	O	VAL	B	163	-16.417	-22.849	15.983	1.00	50.40	O
ATOM	10741	N	SER	B	164	-16.366	-24.623	14.594	1.00	53.30	N
ATOM	10742	CA	SER	B	164	-14.915	-24.645	14.434	1.00	53.24	C
ATOM	10744	CB	SER	B	164	-14.309	-25.834	15.184	1.00	53.81	C
ATOM	10747	OG	SER	B	164	-14.376	-27.024	14.415	1.00	54.22	O
ATOM	10749	C	SER	B	164	-14.576	-24.726	12.951	1.00	53.06	C
ATOM	10750	O	SER	B	164	-15.450	-24.994	12.124	1.00	53.23	O
ATOM	10752	N	TRP	B	165	-13.310	-24.485	12.620	1.00	53.53	N
ATOM	10753	CA	TRP	B	165	-12.838	-24.590	11.240	1.00	54.03	C
ATOM	10755	CB	TRP	B	165	-12.416	-23.215	10.701	1.00	53.15	C
ATOM	10758	CG	TRP	B	165	-13.602	-22.329	10.439	1.00	52.43	C
ATOM	10759	CD1	TRP	B	165	-14.224	-21.497	11.334	1.00	51.83	C
ATOM	10761	NE1	TRP	B	165	-15.292	-20.868	10.734	1.00	51.54	N
ATOM	10763	CE2	TRP	B	165	-15.386	-21.294	9.435	1.00	52.27	C
ATOM	10764	CD2	TRP	B	165	-14.336	-22.218	9.212	1.00	52.52	C
ATOM	10765	CE3	TRP	B	165	-14.208	-22.807	7.944	1.00	52.13	C
ATOM	10767	CZ3	TRP	B	165	-15.114	-22.455	6.946	1.00	51.05	C
ATOM	10769	CH2	TRP	B	165	-16.145	-21.527	7.196	1.00	51.97	C
ATOM	10771	CZ2	TRP	B	165	-16.299	-20.941	8.433	1.00	52.34	C
ATOM	10773	C	TRP	B	165	-11.707	-25.611	11.150	1.00	54.86	C
ATOM	10774	O	TRP	B	165	-10.758	-25.571	11.941	1.00	55.61	O
ATOM	10776	N	ASN	B	166	-11.839	-26.535	10.196	1.00	54.82	N
ATOM	10777	CA	ASN	B	166	-10.924	-27.665	10.043	1.00	54.89	C
ATOM	10779	CB	ASN	B	166	-9.587	-27.186	9.465	1.00	54.64	C
ATOM	10782	CG	ASN	B	166	-9.735	-26.565	8.084	1.00	55.47	C
ATOM	10783	OD1	ASN	B	166	-10.793	-26.653	7.462	1.00	57.53	O
ATOM	10784	ND2	ASN	B	166	-8.670	-25.938	7.597	1.00	54.29	N
ATOM	10787	C	ASN	B	166	-10.714	-28.440	11.350	1.00	55.57	C
ATOM	10788	O	ASN	B	166	-9.596	-28.836	11.674	1.00	56.25	O
ATOM	10790	N	SER	B	167	-11.803	-28.649	12.090	1.00	56.35	N
ATOM	10791	CA	SER	B	167	-11.769	-29.335	13.386	1.00	56.44	C
ATOM	10793	CB	SER	B	167	-11.582	-30.843	13.192	1.00	56.83	C
ATOM	10796	OG	SER	B	167	-12.694	-31.411	12.524	1.00	59.25	O
ATOM	10798	C	SER	B	167	-10.681	-28.787	14.309	1.00	56.60	C
ATOM	10799	O	SER	B	167	-9.582	-29.337	14.386	1.00	56.11	O
ATOM	10801	N	GLY	B	168	-10.987	-27.685	14.989	1.00	56.94	N
ATOM	10802	CA	GLY	B	168	-10.068	-27.079	15.946	1.00	56.24	C
ATOM	10805	C	GLY	B	168	-8.907	-26.322	15.319	1.00	56.00	C
ATOM	10806	O	GLY	B	168	-8.587	-25.219	15.752	1.00	56.18	O
ATOM	10808	N	ALA	B	169	-8.276	-26.907	14.304	1.00	55.35	N
ATOM	10809	CA	ALA	B	169	-7.036	-26.363	13.746	1.00	55.70	C
ATOM	10811	CB	ALA	B	169	-6.641	-27.128	12.471	1.00	54.85	C
ATOM	10815	C	ALA	B	169	-7.107	-24.857	13.468	1.00	55.84	C
ATOM	10816	O	ALA	B	169	-6.441	-24.064	14.141	1.00	55.07	O
ATOM	10818	N	LEU	B	170	-7.930	-24.477	12.493	1.00	55.93	N
ATOM	10819	CA	LEU	B	170	-7.988	-23.098	12.003	1.00	55.07	C
ATOM	10821	CB	LEU	B	170	-8.675	-23.077	10.633	1.00	54.39	C
ATOM	10824	CG	LEU	B	170	-8.881	-21.726	9.955	1.00	55.49	C
ATOM	10826	CD1	LEU	B	170	-7.600	-20.904	9.982	1.00	56.43	C
ATOM	10830	CD2	LEU	B	170	-9.366	-21.930	8.527	1.00	54.96	C
ATOM	10834	C	LEU	B	170	-8.700	-22.159	12.990	1.00	54.79	C

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ATOM	10835	O	LEU	B	170	-9.921	-21.993	12.934	1.00	54.70	O
ATOM	10837	N	THR	B	171	-7.919	-21.552	13.886	1.00	54.41	N
ATOM	10838	CA	THR	B	171	-8.439	-20.655	14.931	1.00	53.99	C
ATOM	10840	CB	THR	B	171	-7.620	-20.756	16.262	1.00	54.29	C
ATOM	10842	OG1	THR	B	171	-6.212	-20.826	15.973	1.00	54.71	O
ATOM	10844	CG2	THR	B	171	-8.039	-21.971	17.085	1.00	53.13	C
ATOM	10848	C	THR	B	171	-8.420	-19.188	14.508	1.00	53.64	C
ATOM	10849	O	THR	B	171	-9.437	-18.497	14.609	1.00	52.66	O
ATOM	10851	N	SER	B	172	-7.255	-18.717	14.058	1.00	53.25	N
ATOM	10852	CA	SER	B	172	-7.043	-17.292	13.799	1.00	53.18	C
ATOM	10854	CB	SER	B	172	-5.549	-16.974	13.670	1.00	53.75	C
ATOM	10857	OG	SER	B	172	-5.068	-17.268	12.366	1.00	53.04	O
ATOM	10859	C	SER	B	172	-7.782	-16.833	12.543	1.00	52.72	C
ATOM	10860	O	SER	B	172	-7.923	-17.594	11.585	1.00	51.57	O
ATOM	10862	N	GLY	B	173	-8.245	-15.583	12.571	1.00	52.76	N
ATOM	10863	CA	GLY	B	173	-9.048	-15.001	11.496	1.00	53.18	C
ATOM	10866	C	GLY	B	173	-10.546	-15.149	11.726	1.00	54.24	C
ATOM	10867	O	GLY	B	173	-11.343	-14.422	11.124	1.00	54.13	O
ATOM	10869	N	VAL	B	174	-10.925	-16.077	12.607	1.00	54.26	N
ATOM	10870	CA	VAL	B	174	-12.318	-16.467	12.786	1.00	54.61	C
ATOM	10872	CB	VAL	B	174	-12.425	-17.841	13.519	1.00	55.14	C
ATOM	10874	CG1	VAL	B	174	-13.874	-18.157	13.936	1.00	53.49	C
ATOM	10878	CG2	VAL	B	174	-11.861	-18.954	12.639	1.00	56.13	C
ATOM	10882	C	VAL	B	174	-13.089	-15.404	13.567	1.00	55.82	C
ATOM	10883	O	VAL	B	174	-12.572	-14.845	14.541	1.00	55.91	O
ATOM	10885	N	HIS	B	175	-14.319	-15.131	13.123	1.00	55.64	N
ATOM	10886	CA	HIS	B	175	-15.271	-14.306	13.879	1.00	53.98	C
ATOM	10888	CB	HIS	B	175	-15.350	-12.882	13.313	1.00	54.89	C
ATOM	10891	CG	HIS	B	175	-14.168	-12.028	13.654	1.00	55.41	C
ATOM	10892	ND1	HIS	B	175	-13.902	-11.606	14.939	1.00	56.66	N
ATOM	10894	CE1	HIS	B	175	-12.803	-10.871	14.941	1.00	58.66	C
ATOM	10896	NE2	HIS	B	175	-12.349	-10.797	13.702	1.00	58.90	N
ATOM	10898	CD2	HIS	B	175	-13.185	-11.512	12.877	1.00	56.60	C
ATOM	10900	C	HIS	B	175	-16.651	-14.960	13.872	1.00	52.07	C
ATOM	10901	O	HIS	B	175	-17.406	-14.827	12.913	1.00	52.28	O
ATOM	10903	N	THR	B	176	-16.959	-15.679	14.945	1.00	50.90	N
ATOM	10904	CA	THR	B	176	-18.259	-16.310	15.116	1.00	50.65	C
ATOM	10906	CB	THR	B	176	-18.135	-17.652	15.848	1.00	49.92	C
ATOM	10908	OG1	THR	B	176	-17.176	-18.475	15.165	1.00	50.40	O
ATOM	10910	CG2	THR	B	176	-19.475	-18.371	15.896	1.00	49.15	C
ATOM	10914	C	THR	B	176	-19.168	-15.358	15.885	1.00	49.46	C
ATOM	10915	O	THR	B	176	-18.838	-14.912	16.975	1.00	48.82	O
ATOM	10917	N	PHE	B	177	-20.312	-15.044	15.293	1.00	49.87	N
ATOM	10918	CA	PHE	B	177	-21.176	-13.992	15.800	1.00	50.35	C
ATOM	10920	CB	PHE	B	177	-21.945	-13.342	14.642	1.00	49.43	C
ATOM	10923	CG	PHE	B	177	-21.070	-12.582	13.700	1.00	48.44	C
ATOM	10924	CD1	PHE	B	177	-20.562	-13.183	12.559	1.00	48.42	C
ATOM	10926	CE1	PHE	B	177	-19.739	-12.480	11.697	1.00	48.71	C
ATOM	10928	CZ	PHE	B	177	-19.414	-11.165	11.977	1.00	48.09	C
ATOM	10930	CE2	PHE	B	177	-19.909	-10.563	13.113	1.00	47.31	C
ATOM	10932	CD2	PHE	B	177	-20.730	-11.267	13.967	1.00	48.42	C
ATOM	10934	C	PHE	B	177	-22.160	-14.508	16.845	1.00	50.87	C
ATOM	10935	O	PHE	B	177	-22.620	-15.653	16.763	1.00	49.53	O
ATOM	10937	N	PRO	B	178	-22.485	-13.658	17.838	1.00	51.19	N
ATOM	10938	CA	PRO	B	178	-23.611	-13.934	18.713	1.00	50.97	C
ATOM	10940	CB	PRO	B	178	-23.845	-12.600	19.421	1.00	49.54	C
ATOM	10943	CG	PRO	B	178	-22.546	-11.938	19.420	1.00	50.84	C
ATOM	10946	CD	PRO	B	178	-21.801	-12.405	18.202	1.00	51.45	C
ATOM	10949	C	PRO	B	178	-24.832	-14.308	17.892	1.00	51.79	C
ATOM	10950	O	PRO	B	178	-25.114	-13.670	16.870	1.00	51.45	O
ATOM	10951	N	ALA	B	179	-25.543	-15.343	18.325	1.00	52.55	N
ATOM	10952	CA	ALA	B	179	-26.758	-15.743	17.638	1.00	52.43	C
ATOM	10954	CB	ALA	B	179	-27.279	-17.070	18.169	1.00	53.11	C

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ATOM	10958	C	ALA	B	179	-27.789	-14.645	17.815	1.00	52.27	C
ATOM	10959	O	ALA	B	179	-27.708	-13.856	18.754	1.00	51.59	O
ATOM	10961	N	VAL	B	180	-28.735	-14.598	16.885	1.00	52.97	N
ATOM	10962	CA	VAL	B	180	-29.787	-13.596	16.871	1.00	53.18	C
ATOM	10964	CB	VAL	B	180	-29.653	-12.712	15.617	1.00	52.02	C
ATOM	10966	CG1	VAL	B	180	-30.919	-11.934	15.343	1.00	53.61	C
ATOM	10970	CG2	VAL	B	180	-28.484	-11.765	15.788	1.00	53.87	C
ATOM	10974	C	VAL	B	180	-31.122	-14.330	16.895	1.00	54.16	C
ATOM	10975	O	VAL	B	180	-31.280	-15.363	16.242	1.00	55.58	O
ATOM	10977	N	LEU	B	181	-32.078	-13.820	17.662	1.00	53.82	N
ATOM	10978	CA	LEU	B	181	-33.393	-14.423	17.674	1.00	54.37	C
ATOM	10980	CB	LEU	B	181	-34.050	-14.301	19.044	1.00	54.04	C
ATOM	10983	CG	LEU	B	181	-35.393	-15.025	19.231	1.00	53.59	C
ATOM	10985	CD1	LEU	B	181	-35.511	-16.323	18.446	1.00	53.80	C
ATOM	10989	CD2	LEU	B	181	-35.626	-15.296	20.708	1.00	54.14	C
ATOM	10993	C	LEU	B	181	-34.237	-13.755	16.606	1.00	55.94	C
ATOM	10994	O	LEU	B	181	-34.463	-12.546	16.644	1.00	56.27	O
ATOM	10996	N	GLN	B	182	-34.681	-14.553	15.639	1.00	56.99	N
ATOM	10997	CA	GLN	B	182	-35.534	-14.076	14.563	1.00	56.96	C
ATOM	10999	CB	GLN	B	182	-35.501	-15.068	13.394	1.00	56.74	C
ATOM	11002	CG	GLN	B	182	-34.139	-15.166	12.715	1.00	56.72	C
ATOM	11005	CD	GLN	B	182	-33.890	-16.517	12.071	1.00	57.96	C
ATOM	11006	OE1	GLN	B	182	-33.863	-16.640	10.845	1.00	62.10	O
ATOM	11007	NE2	GLN	B	182	-33.702	-17.537	12.895	1.00	55.29	N
ATOM	11010	C	GLN	B	182	-36.959	-13.898	15.090	1.00	58.09	C
ATOM	11011	O	GLN	B	182	-37.246	-14.218	16.255	1.00	57.07	O
ATOM	11013	N	SER	B	183	-37.841	-13.374	14.234	1.00	57.94	N
ATOM	11014	CA	SER	B	183	-39.255	-13.215	14.577	1.00	57.43	C
ATOM	11016	CB	SER	B	183	-39.954	-12.272	13.593	1.00	57.09	C
ATOM	11019	OG	SER	B	183	-40.108	-12.869	12.318	1.00	57.50	O
ATOM	11021	C	SER	B	183	-39.965	-14.569	14.603	1.00	57.57	C
ATOM	11022	O	SER	B	183	-40.976	-14.727	15.290	1.00	57.40	O
ATOM	11024	N	SER	B	184	-39.425	-15.537	13.857	1.00	58.06	N
ATOM	11025	CA	SER	B	184	-39.964	-16.905	13.809	1.00	57.73	C
ATOM	11027	CB	SER	B	184	-39.379	-17.666	12.605	1.00	57.67	C
ATOM	11030	OG	SER	B	184	-37.958	-17.609	12.579	1.00	56.30	O
ATOM	11032	C	SER	B	184	-39.720	-17.698	15.104	1.00	57.79	C
ATOM	11033	O	SER	B	184	-40.263	-18.790	15.279	1.00	57.78	O
ATOM	11035	N	GLY	B	185	-38.908	-17.153	16.007	1.00	57.52	N
ATOM	11036	CA	GLY	B	185	-38.628	-17.802	17.280	1.00	57.44	C
ATOM	11039	C	GLY	B	185	-37.419	-18.718	17.222	1.00	57.41	C
ATOM	11040	O	GLY	B	185	-37.057	-19.320	18.228	1.00	58.57	O
ATOM	11042	N	LEU	B	186	-36.785	-18.812	16.054	1.00	57.04	N
ATOM	11043	CA	LEU	B	186	-35.582	-19.628	15.870	1.00	56.95	C
ATOM	11045	CB	LEU	B	186	-35.674	-20.413	14.553	1.00	56.42	C
ATOM	11048	CG	LEU	B	186	-37.010	-21.124	14.292	1.00	54.96	C
ATOM	11050	CD1	LEU	B	186	-36.956	-21.958	13.014	1.00	52.21	C
ATOM	11054	CD2	LEU	B	186	-37.401	-21.989	15.489	1.00	54.82	C
ATOM	11058	C	LEU	B	186	-34.314	-18.755	15.883	1.00	57.67	C
ATOM	11059	O	LEU	B	186	-34.372	-17.549	15.613	1.00	57.57	O
ATOM	11061	N	TYR	B	187	-33.175	-19.371	16.202	1.00	58.06	N
ATOM	11062	CA	TYR	B	187	-31.894	-18.670	16.243	1.00	57.81	C
ATOM	11064	CB	TYR	B	187	-31.019	-19.189	17.382	1.00	59.04	C
ATOM	11067	CG	TYR	B	187	-31.534	-18.780	18.730	1.00	61.73	C
ATOM	11068	CD1	TYR	B	187	-31.416	-17.467	19.160	1.00	63.16	C
ATOM	11070	CE1	TYR	B	187	-31.902	-17.073	20.393	1.00	62.08	C
ATOM	11072	CZ	TYR	B	187	-32.519	-17.996	21.206	1.00	60.34	C
ATOM	11073	OH	TYR	B	187	-32.993	-17.596	22.429	1.00	62.56	O
ATOM	11075	CE2	TYR	B	187	-32.655	-19.310	20.801	1.00	60.08	C
ATOM	11077	CD2	TYR	B	187	-32.168	-19.694	19.568	1.00	63.07	C
ATOM	11079	C	TYR	B	187	-31.159	-18.823	14.930	1.00	58.28	C
ATOM	11080	O	TYR	B	187	-31.404	-19.766	14.171	1.00	58.80	O
ATOM	11082	N	SER	B	188	-30.254	-17.882	14.677	1.00	58.08	N

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ATOM	11083	CA	SER	B	188	-29.443	-17.870	13.465	1.00	57.89	C
ATOM	11085	CB	SER	B	188	-30.237	-17.265	12.299	1.00	58.09	C
ATOM	11088	OG	SER	B	188	-29.429	-17.130	11.146	1.00	58.62	O
ATOM	11090	C	SER	B	188	-28.161	-17.073	13.712	1.00	58.02	C
ATOM	11091	O	SER	B	188	-28.202	-15.983	14.297	1.00	58.64	O
ATOM	11093	N	LEU	B	189	-27.030	-17.630	13.282	1.00	56.99	N
ATOM	11094	CA	LEU	B	189	-25.739	-16.958	13.402	1.00	56.45	C
ATOM	11096	CB	LEU	B	189	-25.023	-17.360	14.705	1.00	56.10	C
ATOM	11099	CG	LEU	B	189	-24.424	-18.773	14.886	1.00	55.79	C
ATOM	11101	CD1	LEU	B	189	-23.070	-18.949	14.183	1.00	55.76	C
ATOM	11105	CD2	LEU	B	189	-24.276	-19.121	16.374	1.00	55.78	C
ATOM	11109	C	LEU	B	189	-24.875	-17.277	12.190	1.00	57.46	C
ATOM	11110	O	LEU	B	189	-25.180	-18.190	11.415	1.00	58.38	O
ATOM	11112	N	SER	B	190	-23.805	-16.503	12.032	1.00	56.80	N
ATOM	11113	CA	SER	B	190	-22.800	-16.763	11.021	1.00	55.83	C
ATOM	11115	CB	SER	B	190	-22.747	-15.619	10.013	1.00	55.86	C
ATOM	11118	OG	SER	B	190	-23.635	-15.867	8.938	1.00	55.59	O
ATOM	11120	C	SER	B	190	-21.438	-16.944	11.666	1.00	55.69	C
ATOM	11121	O	SER	B	190	-21.196	-16.468	12.770	1.00	55.67	O
ATOM	11123	N	SER	B	191	-20.566	-17.663	10.964	1.00	56.15	N
ATOM	11124	CA	SER	B	191	-19.149	-17.770	11.305	1.00	55.29	C
ATOM	11126	CB	SER	B	191	-18.817	-19.177	11.814	1.00	55.19	C
ATOM	11129	OG	SER	B	191	-17.557	-19.211	12.463	1.00	52.68	O
ATOM	11131	C	SER	B	191	-18.360	-17.444	10.036	1.00	55.60	C
ATOM	11132	O	SER	B	191	-18.728	-17.875	8.943	1.00	55.41	O
ATOM	11134	N	VAL	B	192	-17.288	-16.676	10.181	1.00	55.17	N
ATOM	11135	CA	VAL	B	192	-16.591	-16.131	9.029	1.00	54.48	C
ATOM	11137	CB	VAL	B	192	-17.286	-14.828	8.565	1.00	53.82	C
ATOM	11139	CG1	VAL	B	192	-16.980	-13.665	9.518	1.00	52.71	C
ATOM	11143	CG2	VAL	B	192	-16.897	-14.491	7.137	1.00	53.89	C
ATOM	11147	C	VAL	B	192	-15.117	-15.875	9.342	1.00	54.97	C
ATOM	11148	O	VAL	B	192	-14.650	-16.163	10.448	1.00	55.22	O
ATOM	11150	N	CYS	B	207	-16.049	-25.963	7.676	1.00	54.86	N
ATOM	11151	CA	CYS	B	207	-16.419	-25.637	9.056	1.00	56.53	C
ATOM	11153	CB	CYS	B	207	-17.285	-24.369	9.099	1.00	56.31	C
ATOM	11156	SG	CYS	B	207	-19.022	-24.617	8.655	1.00	58.00	S
ATOM	11158	C	CYS	B	207	-17.154	-26.805	9.724	1.00	56.35	C
ATOM	11159	O	CYS	B	207	-17.791	-27.615	9.048	1.00	56.18	O
ATOM	11161	N	ASN	B	208	-17.044	-26.889	11.048	1.00	56.47	N
ATOM	11162	CA	ASN	B	208	-17.747	-27.902	11.840	1.00	56.52	C
ATOM	11164	CB	ASN	B	208	-16.786	-28.635	12.797	1.00	56.78	C
ATOM	11167	CG	ASN	B	208	-15.723	-29.443	12.078	1.00	54.16	C
ATOM	11168	OD1	ASN	B	208	-15.494	-29.263	10.887	1.00	51.91	O
ATOM	11169	ND2	ASN	B	208	-15.068	-30.345	12.808	1.00	48.76	N
ATOM	11172	C	ASN	B	208	-18.821	-27.242	12.685	1.00	56.17	C
ATOM	11173	O	ASN	B	208	-18.540	-26.794	13.797	1.00	56.49	O
ATOM	11175	N	VAL	B	209	-20.045	-27.178	12.175	1.00	55.42	N
ATOM	11176	CA	VAL	B	209	-21.166	-26.722	12.998	1.00	55.89	C
ATOM	11178	CB	VAL	B	209	-22.338	-26.194	12.141	1.00	55.09	C
ATOM	11180	CG1	VAL	B	209	-23.559	-25.895	13.007	1.00	53.33	C
ATOM	11184	CG2	VAL	B	209	-21.909	-24.955	11.367	1.00	53.58	C
ATOM	11188	C	VAL	B	209	-21.607	-27.885	13.895	1.00	56.01	C
ATOM	11189	O	VAL	B	209	-21.630	-29.037	13.459	1.00	56.65	O
ATOM	11191	N	ASN	B	210	-21.925	-27.581	15.150	1.00	56.29	N
ATOM	11192	CA	ASN	B	210	-22.360	-28.596	16.112	1.00	56.44	C
ATOM	11194	CB	ASN	B	210	-21.183	-29.037	16.993	1.00	56.72	C
ATOM	11197	CG	ASN	B	210	-21.601	-30.009	18.092	1.00	57.71	C
ATOM	11198	OD1	ASN	B	210	-21.491	-31.226	17.943	1.00	61.62	O
ATOM	11199	ND2	ASN	B	210	-22.091	-29.470	19.198	1.00	61.75	N
ATOM	11202	C	ASN	B	210	-23.501	-28.066	16.976	1.00	56.60	C
ATOM	11203	O	ASN	B	210	-23.357	-27.019	17.613	1.00	57.84	O
ATOM	11205	N	HIS	B	211	-24.620	-28.796	17.000	1.00	55.66	N
ATOM	11206	CA	HIS	B	211	-25.807	-28.392	17.756	1.00	56.04	C

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ATOM	11208	CB	HIS	B	211	-26.929	-27.966	16.796	1.00	55.63	C
ATOM	11211	CG	HIS	B	211	-28.188	-27.528	17.482	1.00	56.30	C
ATOM	11212	ND1	HIS	B	211	-28.188	-26.697	18.582	1.00	57.16	N
ATOM	11214	CE1	HIS	B	211	-29.433	-26.482	18.966	1.00	55.91	C
ATOM	11216	NE2	HIS	B	211	-30.241	-27.133	18.149	1.00	55.11	N
ATOM	11218	CD2	HIS	B	211	-29.487	-27.797	17.215	1.00	54.92	C
ATOM	11220	C	HIS	B	211	-26.257	-29.529	18.680	1.00	56.66	C
ATOM	11221	O	HIS	B	211	-27.142	-30.323	18.341	1.00	57.63	O
ATOM	11223	N	LYS	B	212	-25.646	-29.587	19.861	1.00	56.14	N
ATOM	11224	CA	LYS	B	212	-25.885	-30.680	20.807	1.00	55.28	C
ATOM	11226	CB	LYS	B	212	-25.077	-30.473	22.090	1.00	54.88	C
ATOM	11229	CG	LYS	B	212	-23.642	-30.927	21.951	1.00	56.58	C
ATOM	11232	CD	LYS	B	212	-22.683	-30.153	22.846	1.00	56.60	C
ATOM	11235	CE	LYS	B	212	-21.232	-30.476	22.470	1.00	57.54	C
ATOM	11238	NZ	LYS	B	212	-20.252	-29.606	23.168	1.00	59.75	N
ATOM	11242	C	LYS	B	212	-27.353	-30.926	21.143	1.00	54.35	C
ATOM	11243	O	LYS	B	212	-27.778	-32.075	21.153	1.00	54.94	O
ATOM	11245	N	PRO	B	213	-28.127	-29.859	21.424	1.00	54.43	N
ATOM	11246	CA	PRO	B	213	-29.548	-30.017	21.764	1.00	53.34	C
ATOM	11248	CB	PRO	B	213	-30.072	-28.580	21.733	1.00	52.85	C
ATOM	11251	CG	PRO	B	213	-28.905	-27.756	22.105	1.00	54.65	C
ATOM	11254	CD	PRO	B	213	-27.716	-28.441	21.487	1.00	54.93	C
ATOM	11257	C	PRO	B	213	-30.357	-30.876	20.798	1.00	53.66	C
ATOM	11258	O	PRO	B	213	-31.285	-31.559	21.228	1.00	54.84	O
ATOM	11259	N	SER	B	214	-30.023	-30.829	19.509	1.00	53.19	N
ATOM	11260	CA	SER	B	214	-30.718	-31.623	18.505	1.00	51.84	C
ATOM	11262	CB	SER	B	214	-31.213	-30.723	17.372	1.00	52.17	C
ATOM	11265	OG	SER	B	214	-30.219	-30.578	16.372	1.00	49.60	O
ATOM	11267	C	SER	B	214	-29.824	-32.709	17.921	1.00	51.68	C
ATOM	11268	O	SER	B	214	-30.157	-33.280	16.881	1.00	50.86	O
ATOM	11270	N	ASN	B	215	-28.693	-32.990	18.571	1.00	51.08	N
ATOM	11271	CA	ASN	B	215	-27.734	-33.986	18.065	1.00	51.21	C
ATOM	11273	CB	ASN	B	215	-28.305	-35.398	18.265	1.00	51.21	C
ATOM	11276	CG	ASN	B	215	-27.589	-36.160	19.348	1.00	51.03	C
ATOM	11277	OD1	ASN	B	215	-27.975	-36.125	20.526	1.00	42.90	O
ATOM	11278	ND2	ASN	B	215	-26.519	-36.846	18.959	1.00	48.48	N
ATOM	11281	C	ASN	B	215	-27.314	-33.784	16.598	1.00	50.17	C
ATOM	11282	O	ASN	B	215	-27.053	-34.746	15.887	1.00	47.72	O
ATOM	11284	N	THR	B	216	-27.226	-32.529	16.170	1.00	50.54	N
ATOM	11285	CA	THR	B	216	-26.949	-32.199	14.782	1.00	51.78	C
ATOM	11287	CB	THR	B	216	-27.861	-31.051	14.300	1.00	51.31	C
ATOM	11289	OG1	THR	B	216	-29.231	-31.446	14.428	1.00	51.33	O
ATOM	11291	CG2	THR	B	216	-27.567	-30.676	12.849	1.00	49.41	C
ATOM	11295	C	THR	B	216	-25.497	-31.793	14.576	1.00	53.65	C
ATOM	11296	O	THR	B	216	-25.179	-30.605	14.568	1.00	55.97	O
ATOM	11298	N	LYS	B	217	-24.614	-32.779	14.416	1.00	54.64	N
ATOM	11299	CA	LYS	B	217	-23.261	-32.518	13.904	1.00	53.77	C
ATOM	11301	CB	LYS	B	217	-22.290	-33.680	14.186	1.00	55.54	C
ATOM	11304	CG	LYS	B	217	-21.547	-33.608	15.529	1.00	56.86	C
ATOM	11307	CD	LYS	B	217	-20.019	-33.579	15.321	1.00	59.77	C
ATOM	11310	CE	LYS	B	217	-19.232	-33.967	16.583	1.00	59.68	C
ATOM	11313	NZ	LYS	B	217	-19.541	-33.154	17.804	1.00	57.76	N
ATOM	11317	C	LYS	B	217	-23.371	-32.314	12.403	1.00	52.56	C
ATOM	11318	O	LYS	B	217	-24.271	-32.868	11.771	1.00	52.15	O
ATOM	11320	N	VAL	B	218	-22.460	-31.521	11.843	1.00	51.64	N
ATOM	11321	CA	VAL	B	218	-22.422	-31.266	10.395	1.00	51.59	C
ATOM	11323	CB	VAL	B	218	-23.644	-30.411	9.924	1.00	51.11	C
ATOM	11325	CG1	VAL	B	218	-23.941	-29.302	10.916	1.00	52.27	C
ATOM	11329	CG2	VAL	B	218	-23.440	-29.849	8.514	1.00	51.13	C
ATOM	11333	C	VAL	B	218	-21.102	-30.600	9.986	1.00	51.07	C
ATOM	11334	O	VAL	B	218	-20.607	-29.703	10.678	1.00	50.95	O
ATOM	11336	N	ASP	B	219	-20.545	-31.063	8.865	1.00	51.19	N
ATOM	11337	CA	ASP	B	219	-19.296	-30.543	8.311	1.00	51.13	C

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ATOM	11339	CB	ASP	B	219	-18.227	-31.643	8.275	1.00	50.74	C
ATOM	11342	CG	ASP	B	219	-17.914	-32.205	9.649	1.00	50.73	C
ATOM	11343	OD1	ASP	B	219	-18.449	-33.279	9.992	1.00	50.08	O
ATOM	11344	OD2	ASP	B	219	-17.138	-31.572	10.390	1.00	48.77	O
ATOM	11345	C	ASP	B	219	-19.534	-30.014	6.899	1.00	51.08	C
ATOM	11346	O	ASP	B	219	-19.593	-30.788	5.942	1.00	50.93	O
ATOM	11348	N	LYS	B	220	-19.689	-28.697	6.775	1.00	51.69	N
ATOM	11349	CA	LYS	B	220	-19.817	-28.042	5.464	1.00	51.82	C
ATOM	11351	CB	LYS	B	220	-20.766	-26.833	5.555	1.00	51.81	C
ATOM	11354	CG	LYS	B	220	-20.751	-25.871	4.357	1.00	51.08	C
ATOM	11357	CD	LYS	B	220	-21.316	-26.491	3.090	1.00	51.47	C
ATOM	11360	CE	LYS	B	220	-22.839	-26.556	3.120	1.00	50.51	C
ATOM	11363	NZ	LYS	B	220	-23.408	-26.913	1.786	1.00	47.07	N
ATOM	11367	C	LYS	B	220	-18.436	-27.613	4.980	1.00	52.28	C
ATOM	11368	O	LYS	B	220	-17.534	-27.376	5.790	1.00	52.85	O
ATOM	11370	N	LYS	C	26	28.164	-13.137	51.471	1.00	60.01	N
ATOM	11371	CA	LYS	C	26	29.169	-13.369	52.563	1.00	59.98	C
ATOM	11373	CB	LYS	C	26	30.565	-12.872	52.150	1.00	60.63	C
ATOM	11376	CG	LYS	C	26	31.654	-13.161	53.179	1.00	58.50	C
ATOM	11379	CD	LYS	C	26	32.994	-13.488	52.532	1.00	60.70	C
ATOM	11382	CE	LYS	C	26	33.823	-12.249	52.201	1.00	63.05	C
ATOM	11385	NZ	LYS	C	26	35.179	-12.625	51.670	1.00	61.96	N
ATOM	11389	C	LYS	C	26	28.736	-12.699	53.867	1.00	59.05	C
ATOM	11390	O	LYS	C	26	28.399	-11.512	53.886	1.00	58.89	O
ATOM	11394	N	LYS	C	27	28.748	-13.467	54.953	1.00	57.05	N
ATOM	11395	CA	LYS	C	27	28.266	-12.976	56.224	1.00	55.84	C
ATOM	11397	CB	LYS	C	27	28.153	-14.119	57.221	1.00	55.53	C
ATOM	11400	CG	LYS	C	27	27.478	-13.719	58.526	1.00	58.17	C
ATOM	11403	CD	LYS	C	27	27.092	-14.934	59.391	1.00	58.02	C
ATOM	11406	CE	LYS	C	27	25.952	-14.596	60.370	1.00	62.26	C
ATOM	11409	NZ	LYS	C	27	24.573	-14.553	59.739	1.00	67.83	N
ATOM	11413	C	LYS	C	27	29.219	-11.907	56.733	1.00	56.17	C
ATOM	11414	O	LYS	C	27	30.427	-12.127	56.786	1.00	60.04	O
ATOM	11416	N	VAL	C	28	28.675	-10.746	57.083	1.00	54.84	N
ATOM	11417	CA	VAL	C	28	29.463	-9.623	57.596	1.00	51.88	C
ATOM	11419	CB	VAL	C	28	29.184	-8.356	56.767	1.00	50.96	C
ATOM	11421	CG1	VAL	C	28	29.497	-7.086	57.541	1.00	54.32	C
ATOM	11425	CG2	VAL	C	28	29.992	-8.395	55.481	1.00	53.31	C
ATOM	11429	C	VAL	C	28	29.162	-9.397	59.086	1.00	50.48	C
ATOM	11430	O	VAL	C	28	28.006	-9.408	59.496	1.00	49.04	O
ATOM	11432	N	VAL	C	29	30.204	-9.191	59.889	1.00	48.62	N
ATOM	11433	CA	VAL	C	29	30.038	-8.995	61.325	1.00	48.51	C
ATOM	11435	CB	VAL	C	29	30.320	-10.315	62.063	1.00	47.93	C
ATOM	11437	CG1	VAL	C	29	30.342	-10.127	63.598	1.00	47.74	C
ATOM	11441	CG2	VAL	C	29	29.290	-11.342	61.645	1.00	45.01	C
ATOM	11445	C	VAL	C	29	30.923	-7.854	61.849	1.00	48.33	C
ATOM	11446	O	VAL	C	29	32.099	-7.792	61.525	1.00	51.32	O
ATOM	11448	N	LEU	C	30	30.349	-6.968	62.664	1.00	47.56	N
ATOM	11449	CA	LEU	C	30	31.028	-5.753	63.103	1.00	48.48	C
ATOM	11451	CB	LEU	C	30	30.105	-4.559	62.958	1.00	46.33	C
ATOM	11454	CG	LEU	C	30	29.439	-4.407	61.599	1.00	48.81	C
ATOM	11456	CD1	LEU	C	30	28.714	-3.095	61.584	1.00	50.91	C
ATOM	11460	CD2	LEU	C	30	30.445	-4.468	60.459	1.00	53.26	C
ATOM	11464	C	LEU	C	30	31.465	-5.825	64.544	1.00	50.16	C
ATOM	11465	O	LEU	C	30	30.711	-6.301	65.381	1.00	53.16	O
ATOM	11467	N	GLY	C	31	32.671	-5.337	64.839	1.00	50.43	N
ATOM	11468	CA	GLY	C	31	33.162	-5.274	66.215	1.00	51.69	C
ATOM	11471	C	GLY	C	31	33.683	-3.894	66.561	1.00	52.83	C
ATOM	11472	O	GLY	C	31	34.135	-3.173	65.682	1.00	54.58	O
ATOM	11474	N	LYS	C	32	33.606	-3.517	67.836	1.00	53.59	N
ATOM	11475	CA	LYS	C	32	34.333	-2.340	68.334	1.00	55.03	C
ATOM	11477	CB	LYS	C	32	33.679	-1.722	69.582	1.00	57.09	C
ATOM	11480	CG	LYS	C	32	32.264	-1.227	69.410	1.00	57.40	C

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ATOM	11483	CD	LYS	C	32	31.542	-1.099	70.753	1.00	58.52	C
ATOM	11486	CE	LYS	C	32	32.280	-0.194	71.735	1.00	60.64	C
ATOM	11489	NZ	LYS	C	32	31.338	0.582	72.579	1.00	62.18	N
ATOM	11493	C	LYS	C	32	35.752	-2.729	68.732	1.00	54.41	C
ATOM	11494	O	LYS	C	32	35.966	-3.763	69.391	1.00	51.25	O
ATOM	11496	N	LYS	C	33	36.704	-1.879	68.342	1.00	53.74	N
ATOM	11497	CA	LYS	C	33	38.079	-1.907	68.851	1.00	53.62	C
ATOM	11499	CB	LYS	C	33	38.753	-0.584	68.493	1.00	52.86	C
ATOM	11502	CG	LYS	C	33	40.175	-0.401	68.966	1.00	53.21	C
ATOM	11505	CD	LYS	C	33	40.697	0.950	68.448	1.00	54.88	C
ATOM	11508	CE	LYS	C	33	42.126	1.230	68.873	1.00	56.32	C
ATOM	11511	NZ	LYS	C	33	42.898	1.847	67.763	1.00	59.96	N
ATOM	11515	C	LYS	C	33	38.095	-2.113	70.364	1.00	52.83	C
ATOM	11516	O	LYS	C	33	37.467	-1.352	71.102	1.00	52.70	O
ATOM	11518	N	GLY	C	34	38.769	-3.167	70.819	1.00	52.99	N
ATOM	11519	CA	GLY	C	34	38.898	-3.452	72.257	1.00	53.22	C
ATOM	11522	C	GLY	C	34	37.936	-4.485	72.827	1.00	52.44	C
ATOM	11523	O	GLY	C	34	38.268	-5.188	73.781	1.00	50.64	O
ATOM	11525	N	ASP	C	35	36.742	-4.586	72.257	1.00	53.38	N
ATOM	11526	CA	ASP	C	35	35.770	-5.574	72.719	1.00	54.95	C
ATOM	11528	CB	ASP	C	35	34.368	-5.274	72.165	1.00	56.98	C
ATOM	11531	CG	ASP	C	35	33.727	-4.056	72.806	1.00	63.61	C
ATOM	11532	OD1	ASP	C	35	34.421	-3.325	73.557	1.00	70.58	O
ATOM	11533	OD2	ASP	C	35	32.523	-3.830	72.547	1.00	72.74	O
ATOM	11534	C	ASP	C	35	36.188	-6.968	72.301	1.00	52.79	C
ATOM	11535	O	ASP	C	35	37.206	-7.153	71.653	1.00	52.66	O
ATOM	11537	N	THR	C	36	35.404	-7.953	72.700	1.00	52.25	N
ATOM	11538	CA	THR	C	36	35.542	-9.270	72.130	1.00	53.63	C
ATOM	11540	CB	THR	C	36	35.588	-10.390	73.201	1.00	53.74	C
ATOM	11542	OG1	THR	C	36	34.273	-10.880	73.433	1.00	55.27	O
ATOM	11544	CG2	THR	C	36	36.191	-9.900	74.515	1.00	54.22	C
ATOM	11548	C	THR	C	36	34.373	-9.493	71.173	1.00	54.02	C
ATOM	11549	O	THR	C	36	33.337	-8.825	71.266	1.00	53.73	O
ATOM	11551	N	VAL	C	37	34.557	-10.415	70.238	1.00	54.25	N
ATOM	11552	CA	VAL	C	37	33.502	-10.784	69.310	1.00	54.17	C
ATOM	11554	CB	VAL	C	37	33.690	-10.133	67.929	1.00	53.80	C
ATOM	11556	CG1	VAL	C	37	35.001	-10.564	67.299	1.00	56.09	C
ATOM	11560	CG2	VAL	C	37	32.510	-10.467	67.004	1.00	54.53	C
ATOM	11564	C	VAL	C	37	33.499	-12.290	69.177	1.00	54.74	C
ATOM	11565	O	VAL	C	37	34.540	-12.929	69.362	1.00	54.93	O
ATOM	11567	N	GLU	C	38	32.326	-12.846	68.878	1.00	55.08	N
ATOM	11568	CA	GLU	C	38	32.159	-14.281	68.700	1.00	54.83	C
ATOM	11570	CB	GLU	C	38	31.117	-14.816	69.684	1.00	55.08	C
ATOM	11573	CG	GLU	C	38	30.929	-16.326	69.617	1.00	57.61	C
ATOM	11576	CD	GLU	C	38	30.170	-16.914	70.808	1.00	60.50	C
ATOM	11577	OE1	GLU	C	38	30.197	-16.329	71.920	1.00	67.06	O
ATOM	11578	OE2	GLU	C	38	29.550	-17.986	70.623	1.00	70.26	O
ATOM	11579	C	GLU	C	38	31.734	-14.567	67.267	1.00	53.48	C
ATOM	11580	O	GLU	C	38	30.671	-14.137	66.835	1.00	54.35	O
ATOM	11582	N	LEU	C	39	32.578	-15.273	66.524	1.00	51.18	N
ATOM	11583	CA	LEU	C	39	32.232	-15.688	65.183	1.00	50.96	C
ATOM	11585	CB	LEU	C	39	33.442	-15.564	64.262	1.00	51.16	C
ATOM	11588	CG	LEU	C	39	34.228	-14.243	64.260	1.00	56.33	C
ATOM	11590	CD1	LEU	C	39	35.338	-14.271	63.195	1.00	55.53	C
ATOM	11594	CD2	LEU	C	39	33.316	-13.030	64.047	1.00	58.88	C
ATOM	11598	C	LEU	C	39	31.728	-17.141	65.255	1.00	51.32	C
ATOM	11599	O	LEU	C	39	32.482	-18.054	65.607	1.00	50.22	O
ATOM	11601	N	THR	C	40	30.452	-17.351	64.934	1.00	49.60	N
ATOM	11602	CA	THR	C	40	29.842	-18.664	65.100	1.00	48.53	C
ATOM	11604	CB	THR	C	40	28.295	-18.599	65.232	1.00	47.90	C
ATOM	11606	OG1	THR	C	40	27.721	-18.140	64.013	1.00	49.16	O
ATOM	11608	CG2	THR	C	40	27.879	-17.660	66.343	1.00	49.93	C
ATOM	11612	C	THR	C	40	30.193	-19.581	63.952	1.00	45.05	C

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ATOM	11613	O	THR	C	40	30.483	-19.144	62.859	1.00	42.59	O
ATOM	11615	N	CYS	C	41	30.185	-20.868	64.233	1.00	46.96	N
ATOM	11616	CA	CYS	C	41	30.311	-21.876	63.206	1.00	46.67	C
ATOM	11618	CB	CYS	C	41	31.772	-22.189	62.931	1.00	47.21	C
ATOM	11621	SG	CYS	C	41	32.041	-23.392	61.602	1.00	51.63	S
ATOM	11623	C	CYS	C	41	29.590	-23.098	63.736	1.00	46.73	C
ATOM	11624	O	CYS	C	41	30.068	-23.759	64.656	1.00	48.14	O
ATOM	11626	N	THR	C	42	28.412	-23.360	63.192	1.00	44.51	N
ATOM	11627	CA	THR	C	42	27.601	-24.442	63.668	1.00	45.24	C
ATOM	11629	CB	THR	C	42	26.185	-23.975	63.991	1.00	45.83	C
ATOM	11631	OG1	THR	C	42	26.251	-22.803	64.806	1.00	47.28	O
ATOM	11633	CG2	THR	C	42	25.410	-25.059	64.732	1.00	44.75	C
ATOM	11637	C	THR	C	42	27.557	-25.476	62.577	1.00	46.40	C
ATOM	11638	O	THR	C	42	27.142	-25.184	61.455	1.00	47.68	O
ATOM	11640	N	ALA	C	43	27.992	-26.683	62.910	1.00	46.08	N
ATOM	11641	CA	ALA	C	43	27.946	-27.780	61.981	1.00	47.28	C
ATOM	11643	CB	ALA	C	43	28.871	-28.877	62.440	1.00	47.90	C
ATOM	11647	C	ALA	C	43	26.520	-28.299	61.854	1.00	47.86	C
ATOM	11648	O	ALA	C	43	25.673	-28.014	62.699	1.00	46.45	O
ATOM	11650	N	SER	C	44	26.272	-29.060	60.788	1.00	49.88	N
ATOM	11651	CA	SER	C	44	24.988	-29.714	60.563	1.00	51.53	C
ATOM	11653	CB	SER	C	44	24.991	-30.481	59.241	1.00	52.86	C
ATOM	11656	OG	SER	C	44	24.590	-29.632	58.181	1.00	59.29	O
ATOM	11658	C	SER	C	44	24.640	-30.664	61.685	1.00	51.75	C
ATOM	11659	O	SER	C	44	23.523	-30.652	62.176	1.00	53.82	O
ATOM	11661	N	GLN	C	45	25.599	-31.485	62.088	1.00	52.81	N
ATOM	11662	CA	GLN	C	45	25.367	-32.476	63.134	1.00	54.12	C
ATOM	11664	CB	GLN	C	45	26.247	-33.695	62.887	1.00	55.04	C
ATOM	11667	CG	GLN	C	45	25.933	-34.407	61.572	1.00	55.90	C
ATOM	11670	CD	GLN	C	45	27.048	-35.325	61.108	1.00	55.97	C
ATOM	11671	OE1	GLN	C	45	28.232	-35.050	61.325	1.00	64.59	O
ATOM	11672	NE2	GLN	C	45	26.676	-36.419	60.452	1.00	59.45	N
ATOM	11675	C	GLN	C	45	25.664	-31.889	64.506	1.00	54.60	C
ATOM	11676	O	GLN	C	45	26.526	-31.023	64.626	1.00	56.59	O
ATOM	11678	N	LYS	C	46	24.953	-32.362	65.533	1.00	54.27	N
ATOM	11679	CA	LYS	C	46	25.227	-31.980	66.924	1.00	54.48	C
ATOM	11681	CB	LYS	C	46	23.968	-32.086	67.794	1.00	54.52	C
ATOM	11684	CG	LYS	C	46	22.783	-31.267	67.365	1.00	52.41	C
ATOM	11687	CD	LYS	C	46	21.924	-30.866	68.572	1.00	54.77	C
ATOM	11690	CE	LYS	C	46	21.458	-32.064	69.406	1.00	57.20	C
ATOM	11693	NZ	LYS	C	46	20.435	-31.672	70.427	1.00	56.68	N
ATOM	11697	C	LYS	C	46	26.303	-32.886	67.536	1.00	54.76	C
ATOM	11698	O	LYS	C	46	26.115	-33.467	68.603	1.00	53.95	O
ATOM	11700	N	LYS	C	47	27.431	-32.999	66.858	1.00	56.37	N
ATOM	11701	CA	LYS	C	47	28.505	-33.874	67.280	1.00	56.39	C
ATOM	11703	CB	LYS	C	47	28.653	-35.010	66.261	1.00	56.71	C
ATOM	11706	CG	LYS	C	47	29.576	-36.134	66.686	1.00	57.86	C
ATOM	11709	CD	LYS	C	47	29.487	-37.345	65.752	1.00	58.87	C
ATOM	11712	CE	LYS	C	47	30.158	-38.579	66.391	1.00	62.40	C
ATOM	11715	NZ	LYS	C	47	29.723	-39.892	65.808	1.00	62.09	N
ATOM	11719	C	LYS	C	47	29.761	-33.015	67.360	1.00	56.23	C
ATOM	11720	O	LYS	C	47	29.801	-31.925	66.786	1.00	55.56	O
ATOM	11722	N	SER	C	48	30.766	-33.480	68.096	1.00	56.31	N
ATOM	11723	CA	SER	C	48	32.079	-32.832	68.102	1.00	56.56	C
ATOM	11725	CB	SER	C	48	32.761	-33.040	69.452	1.00	57.19	C
ATOM	11728	OG	SER	C	48	33.877	-32.182	69.593	1.00	61.69	O
ATOM	11730	C	SER	C	48	32.947	-33.401	66.967	1.00	55.96	C
ATOM	11731	O	SER	C	48	33.245	-34.588	66.950	1.00	55.51	O
ATOM	11733	N	ILE	C	49	33.326	-32.559	66.009	1.00	55.40	N
ATOM	11734	CA	ILE	C	49	34.099	-33.003	64.849	1.00	54.42	C
ATOM	11736	CB	ILE	C	49	33.361	-32.770	63.506	1.00	55.01	C
ATOM	11738	CG1	ILE	C	49	31.858	-33.008	63.637	1.00	55.05	C
ATOM	11741	CD1	ILE	C	49	31.500	-34.398	64.102	1.00	61.71	C

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ATOM	11745	CG2	ILE	C	49	33.979	-33.638	62.392	1.00	56.17	C
ATOM	11749	C	ILE	C	49	35.362	-32.182	64.778	1.00	53.51	C
ATOM	11750	O	ILE	C	49	35.442	-31.136	65.418	1.00	52.65	O
ATOM	11752	N	GLN	C	50	36.331	-32.660	63.991	1.00	53.17	N
ATOM	11753	CA	GLN	C	50	37.566	-31.925	63.699	1.00	52.52	C
ATOM	11755	CB	GLN	C	50	38.513	-32.783	62.851	1.00	52.60	C
ATOM	11758	CG	GLN	C	50	39.904	-32.186	62.617	1.00	54.35	C
ATOM	11761	CD	GLN	C	50	40.876	-32.469	63.759	1.00	59.17	C
ATOM	11762	OE1	GLN	C	50	41.207	-33.626	64.041	1.00	62.37	O
ATOM	11763	NE2	GLN	C	50	41.346	-31.411	64.411	1.00	57.50	N
ATOM	11766	C	GLN	C	50	37.252	-30.628	62.957	1.00	50.99	C
ATOM	11767	O	GLN	C	50	36.667	-30.653	61.875	1.00	50.10	O
ATOM	11769	N	PHE	C	51	37.631	-29.500	63.547	1.00	49.43	N
ATOM	11770	CA	PHE	C	51	37.421	-28.218	62.906	1.00	51.04	C
ATOM	11772	CB	PHE	C	51	36.202	-27.512	63.508	1.00	51.97	C
ATOM	11775	CG	PHE	C	51	36.476	-26.821	64.814	1.00	52.93	C
ATOM	11776	CD1	PHE	C	51	36.221	-27.461	66.016	1.00	55.61	C
ATOM	11778	CE1	PHE	C	51	36.471	-26.819	67.231	1.00	55.44	C
ATOM	11780	CZ	PHE	C	51	36.985	-25.524	67.238	1.00	53.11	C
ATOM	11782	CE2	PHE	C	51	37.240	-24.878	66.041	1.00	50.74	C
ATOM	11784	CD2	PHE	C	51	36.977	-25.520	64.840	1.00	50.87	C
ATOM	11786	C	PHE	C	51	38.662	-27.349	63.033	1.00	50.80	C
ATOM	11787	O	PHE	C	51	39.440	-27.512	63.976	1.00	50.32	O
ATOM	11789	N	HIS	C	52	38.846	-26.449	62.064	1.00	50.35	N
ATOM	11790	CA	HIS	C	52	39.877	-25.414	62.131	1.00	51.58	C
ATOM	11792	CB	HIS	C	52	41.092	-25.721	61.239	1.00	54.29	C
ATOM	11795	CG	HIS	C	52	41.352	-27.177	61.032	1.00	61.03	C
ATOM	11796	ND1	HIS	C	52	42.530	-27.782	61.420	1.00	64.68	N
ATOM	11798	CE1	HIS	C	52	42.485	-29.065	61.103	1.00	69.28	C
ATOM	11800	NE2	HIS	C	52	41.319	-29.313	60.529	1.00	71.55	N
ATOM	11802	CD2	HIS	C	52	40.595	-28.147	60.466	1.00	64.78	C
ATOM	11804	C	HIS	C	52	39.303	-24.101	61.648	1.00	49.52	C
ATOM	11805	O	HIS	C	52	38.661	-24.047	60.606	1.00	45.19	O
ATOM	11807	N	TRP	C	53	39.564	-23.041	62.398	1.00	50.33	N
ATOM	11808	CA	TRP	C	53	39.377	-21.692	61.901	1.00	50.90	C
ATOM	11810	CB	TRP	C	53	39.007	-20.760	63.037	1.00	50.92	C
ATOM	11813	CG	TRP	C	53	37.574	-20.747	63.361	1.00	52.00	C
ATOM	11814	CD1	TRP	C	53	36.930	-21.525	64.281	1.00	50.78	C
ATOM	11816	NE1	TRP	C	53	35.598	-21.206	64.309	1.00	50.62	N
ATOM	11818	CE2	TRP	C	53	35.357	-20.200	63.409	1.00	52.10	C
ATOM	11819	CD2	TRP	C	53	36.585	-19.884	62.794	1.00	51.07	C
ATOM	11820	CE3	TRP	C	53	36.619	-18.874	61.828	1.00	51.36	C
ATOM	11822	CZ3	TRP	C	53	35.429	-18.217	61.505	1.00	52.54	C
ATOM	11824	CH2	TRP	C	53	34.218	-18.557	62.138	1.00	50.79	C
ATOM	11826	CZ2	TRP	C	53	34.164	-19.537	63.090	1.00	51.23	C
ATOM	11828	C	TRP	C	53	40.684	-21.215	61.288	1.00	50.71	C
ATOM	11829	O	TRP	C	53	41.751	-21.492	61.837	1.00	49.29	O
ATOM	11831	N	LYS	C	54	40.606	-20.502	60.164	1.00	51.43	N
ATOM	11832	CA	LYS	C	54	41.786	-19.846	59.592	1.00	54.01	C
ATOM	11834	CB	LYS	C	54	42.523	-20.771	58.615	1.00	54.33	C
ATOM	11837	CG	LYS	C	54	41.668	-21.433	57.559	1.00	57.34	C
ATOM	11840	CD	LYS	C	54	42.530	-22.177	56.525	1.00	59.68	C
ATOM	11843	CE	LYS	C	54	43.137	-23.468	57.082	1.00	65.29	C
ATOM	11846	NZ	LYS	C	54	44.174	-23.216	58.126	1.00	64.51	N
ATOM	11850	C	LYS	C	54	41.465	-18.499	58.944	1.00	53.86	C
ATOM	11851	O	LYS	C	54	40.311	-18.213	58.620	1.00	54.20	O
ATOM	11853	N	ASN	C	55	42.492	-17.661	58.793	1.00	53.28	N
ATOM	11854	CA	ASN	C	55	42.309	-16.338	58.195	1.00	52.70	C
ATOM	11856	CB	ASN	C	55	43.340	-15.327	58.710	1.00	52.32	C
ATOM	11859	CG	ASN	C	55	44.748	-15.578	58.175	1.00	56.98	C
ATOM	11860	OD1	ASN	C	55	44.954	-16.362	57.243	1.00	62.48	O
ATOM	11861	ND2	ASN	C	55	45.726	-14.908	58.770	1.00	52.08	N
ATOM	11864	C	ASN	C	55	42.361	-16.476	56.685	1.00	52.05	C

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ATOM	11865	O	ASN	C	55	42.626	-17.565	56.178	1.00	53.34	O
ATOM	11867	N	SER	C	56	42.107	-15.378	55.977	1.00	51.78	N
ATOM	11868	CA	SER	C	56	41.969	-15.402	54.520	1.00	50.44	C
ATOM	11870	CB	SER	C	56	41.379	-14.088	54.002	1.00	52.03	C
ATOM	11873	OG	SER	C	56	42.232	-12.986	54.269	1.00	47.78	O
ATOM	11875	C	SER	C	56	43.280	-15.681	53.808	1.00	49.37	C
ATOM	11876	O	SER	C	56	43.266	-16.096	52.660	1.00	49.39	O
ATOM	11878	N	ASN	C	57	44.407	-15.451	54.480	1.00	48.93	N
ATOM	11879	CA	ASN	C	57	45.716	-15.845	53.942	1.00	48.85	C
ATOM	11881	CB	ASN	C	57	46.818	-14.913	54.464	1.00	46.84	C
ATOM	11884	CG	ASN	C	57	48.106	-15.016	53.666	1.00	47.55	C
ATOM	11885	OD1	ASN	C	57	48.100	-15.441	52.507	1.00	41.91	O
ATOM	11886	ND2	ASN	C	57	49.226	-14.631	54.290	1.00	40.76	N
ATOM	11889	C	ASN	C	57	46.057	-17.310	54.255	1.00	49.15	C
ATOM	11890	O	ASN	C	57	47.199	-17.725	54.094	1.00	49.21	O
ATOM	11892	N	GLN	C	58	45.061	-18.085	54.698	1.00	49.87	N
ATOM	11893	CA	GLN	C	58	45.193	-19.533	54.929	1.00	49.83	C
ATOM	11895	CB	GLN	C	58	45.604	-20.260	53.637	1.00	51.88	C
ATOM	11898	CG	GLN	C	58	44.591	-20.107	52.509	1.00	57.51	C
ATOM	11901	CD	GLN	C	58	43.262	-20.740	52.868	1.00	63.74	C
ATOM	11902	OE1	GLN	C	58	43.185	-21.955	53.077	1.00	70.68	O
ATOM	11903	NE2	GLN	C	58	42.215	-19.919	52.976	1.00	60.17	N
ATOM	11906	C	GLN	C	58	46.136	-19.887	56.074	1.00	48.57	C
ATOM	11907	O	GLN	C	58	46.795	-20.919	56.049	1.00	48.86	O
ATOM	11909	N	ILE	C	59	46.171	-19.028	57.083	1.00	47.49	N
ATOM	11910	CA	ILE	C	59	46.969	-19.247	58.275	1.00	47.89	C
ATOM	11912	CB	ILE	C	59	47.631	-17.929	58.699	1.00	46.22	C
ATOM	11914	CG1	ILE	C	59	48.799	-17.640	57.752	1.00	48.38	C
ATOM	11917	CD1	ILE	C	59	49.292	-16.207	57.795	1.00	51.54	C
ATOM	11921	CG2	ILE	C	59	48.118	-17.981	60.146	1.00	46.49	C
ATOM	11925	C	ILE	C	59	46.080	-19.816	59.382	1.00	47.68	C
ATOM	11926	O	ILE	C	59	45.030	-19.252	59.694	1.00	47.67	O
ATOM	11928	N	LYS	C	60	46.496	-20.934	59.969	1.00	48.47	N
ATOM	11929	CA	LYS	C	60	45.711	-21.585	61.023	1.00	50.47	C
ATOM	11931	CB	LYS	C	60	46.325	-22.940	61.414	1.00	52.15	C
ATOM	11934	CG	LYS	C	60	46.128	-24.058	60.372	1.00	55.65	C
ATOM	11937	CD	LYS	C	60	47.158	-25.182	60.533	1.00	56.86	C
ATOM	11940	CE	LYS	C	60	46.864	-26.390	59.628	1.00	60.51	C
ATOM	11943	NZ	LYS	C	60	45.893	-27.364	60.218	1.00	59.92	N
ATOM	11947	C	LYS	C	60	45.616	-20.693	62.255	1.00	49.45	C
ATOM	11948	O	LYS	C	60	46.640	-20.319	62.834	1.00	49.71	O
ATOM	11950	N	ILE	C	61	44.391	-20.342	62.643	1.00	48.86	N
ATOM	11951	CA	ILE	C	61	44.159	-19.597	63.884	1.00	49.70	C
ATOM	11953	CB	ILE	C	61	42.869	-18.756	63.846	1.00	49.40	C
ATOM	11955	CG1	ILE	C	61	42.859	-17.792	62.645	1.00	55.67	C
ATOM	11958	CD1	ILE	C	61	43.969	-16.746	62.640	1.00	60.68	C
ATOM	11962	CG2	ILE	C	61	42.694	-18.019	65.173	1.00	47.13	C
ATOM	11966	C	ILE	C	61	44.044	-20.575	65.053	1.00	49.52	C
ATOM	11967	O	ILE	C	61	44.846	-20.539	65.995	1.00	49.21	O
ATOM	11969	N	LEU	C	62	43.031	-21.433	64.992	1.00	49.01	N
ATOM	11970	CA	LEU	C	62	42.840	-22.452	66.001	1.00	48.54	C
ATOM	11972	CB	LEU	C	62	42.273	-21.854	67.304	1.00	49.35	C
ATOM	11975	CG	LEU	C	62	40.911	-21.151	67.410	1.00	49.77	C
ATOM	11977	CD1	LEU	C	62	39.740	-22.087	67.148	1.00	55.73	C
ATOM	11981	CD2	LEU	C	62	40.772	-20.551	68.803	1.00	49.08	C
ATOM	11985	C	LEU	C	62	41.978	-23.611	65.521	1.00	47.29	C
ATOM	11986	O	LEU	C	62	41.242	-23.524	64.530	1.00	43.42	O
ATOM	11988	N	GLY	C	63	42.105	-24.712	66.242	1.00	47.91	N
ATOM	11989	CA	GLY	C	63	41.293	-25.883	66.000	1.00	49.38	C
ATOM	11992	C	GLY	C	63	41.284	-26.752	67.230	1.00	49.12	C
ATOM	11993	O	GLY	C	63	41.922	-26.428	68.227	1.00	48.47	O
ATOM	11995	N	ASN	C	64	40.547	-27.852	67.158	1.00	49.67	N
ATOM	11996	CA	ASN	C	64	40.516	-28.815	68.243	1.00	50.30	C

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ATOM	11998	CB	ASN	C	64	39.090	-29.278	68.522	1.00	51.03	C
ATOM	12001	CG	ASN	C	64	38.447	-29.982	67.332	1.00	53.00	C
ATOM	12002	OD1	ASN	C	64	37.229	-30.141	67.292	1.00	52.75	O
ATOM	12003	ND2	ASN	C	64	39.257	-30.399	66.363	1.00	51.45	N
ATOM	12006	C	ASN	C	64	41.389	-30.014	67.936	1.00	51.71	C
ATOM	12007	O	ASN	C	64	41.810	-30.222	66.795	1.00	54.54	O
ATOM	12009	N	GLN	C	65	41.673	-30.779	68.981	1.00	51.60	N
ATOM	12010	CA	GLN	C	65	42.219	-32.120	68.858	1.00	50.36	C
ATOM	12012	CB	GLN	C	65	43.735	-32.119	68.999	1.00	51.11	C
ATOM	12015	CG	GLN	C	65	44.467	-32.563	67.748	1.00	53.84	C
ATOM	12018	CD	GLN	C	65	45.705	-33.364	68.068	1.00	52.74	C
ATOM	12019	OE1	GLN	C	65	45.986	-33.649	69.231	1.00	53.47	O
ATOM	12020	NE2	GLN	C	65	46.447	-33.748	67.035	1.00	60.86	N
ATOM	12023	C	GLN	C	65	41.589	-32.919	69.968	1.00	48.91	C
ATOM	12024	O	GLN	C	65	42.148	-33.020	71.054	1.00	50.08	O
ATOM	12026	N	GLY	C	66	40.400	-33.447	69.704	1.00	47.30	N
ATOM	12027	CA	GLY	C	66	39.597	-34.060	70.746	1.00	47.50	C
ATOM	12030	C	GLY	C	66	38.984	-32.964	71.589	1.00	47.01	C
ATOM	12031	O	GLY	C	66	38.156	-32.197	71.091	1.00	49.82	O
ATOM	12033	N	SER	C	67	39.395	-32.881	72.855	1.00	46.08	N
ATOM	12034	CA	SER	C	67	38.905	-31.842	73.769	1.00	46.10	C
ATOM	12036	CB	SER	C	67	38.529	-32.450	75.114	1.00	44.60	C
ATOM	12039	OG	SER	C	67	39.682	-32.937	75.756	1.00	45.61	O
ATOM	12041	C	SER	C	67	39.924	-30.725	73.996	1.00	46.42	C
ATOM	12042	O	SER	C	67	39.612	-29.734	74.653	1.00	44.76	O
ATOM	12044	N	PHE	C	68	41.135	-30.890	73.465	1.00	47.67	N
ATOM	12045	CA	PHE	C	68	42.190	-29.894	73.630	1.00	46.14	C
ATOM	12047	CB	PHE	C	68	43.585	-30.532	73.555	1.00	46.58	C
ATOM	12050	CG	PHE	C	68	43.782	-31.729	74.459	1.00	45.25	C
ATOM	12051	CD1	PHE	C	68	43.144	-31.822	75.690	1.00	42.29	C
ATOM	12053	CE1	PHE	C	68	43.345	-32.925	76.509	1.00	45.51	C
ATOM	12055	CZ	PHE	C	68	44.203	-33.948	76.105	1.00	48.47	C
ATOM	12057	CE2	PHE	C	68	44.854	-33.861	74.883	1.00	46.46	C
ATOM	12059	CD2	PHE	C	68	44.646	-32.755	74.074	1.00	46.23	C
ATOM	12061	C	PHE	C	68	42.060	-28.866	72.521	1.00	45.92	C
ATOM	12062	O	PHE	C	68	41.804	-29.227	71.376	1.00	46.72	O
ATOM	12064	N	LEU	C	69	42.238	-27.592	72.868	1.00	44.98	N
ATOM	12065	CA	LEU	C	69	42.315	-26.508	71.887	1.00	43.95	C
ATOM	12067	CB	LEU	C	69	41.911	-25.192	72.543	1.00	43.59	C
ATOM	12070	CG	LEU	C	69	41.955	-23.900	71.725	1.00	42.68	C
ATOM	12072	CD1	LEU	C	69	40.875	-23.875	70.643	1.00	43.98	C
ATOM	12076	CD2	LEU	C	69	41.794	-22.710	72.655	1.00	43.54	C
ATOM	12080	C	LEU	C	69	43.740	-26.374	71.363	1.00	44.13	C
ATOM	12081	O	LEU	C	69	44.700	-26.472	72.129	1.00	44.01	O
ATOM	12083	N	THR	C	70	43.872	-26.145	70.061	1.00	44.55	N
ATOM	12084	CA	THR	C	70	45.177	-25.928	69.432	1.00	45.70	C
ATOM	12086	CB	THR	C	70	45.547	-27.096	68.492	1.00	45.37	C
ATOM	12088	OG1	THR	C	70	44.538	-27.258	67.484	1.00	50.25	O
ATOM	12090	CG2	THR	C	70	45.659	-28.392	69.281	1.00	46.74	C
ATOM	12094	C	THR	C	70	45.194	-24.580	68.689	1.00	45.58	C
ATOM	12095	O	THR	C	70	44.170	-24.093	68.225	1.00	41.96	O
ATOM	12097	N	LYS	C	71	46.366	-23.968	68.612	1.00	47.29	N
ATOM	12098	CA	LYS	C	71	46.482	-22.610	68.115	1.00	49.01	C
ATOM	12100	CB	LYS	C	71	46.656	-21.637	69.290	1.00	48.87	C
ATOM	12103	CG	LYS	C	71	45.527	-21.721	70.320	1.00	51.79	C
ATOM	12106	CD	LYS	C	71	45.729	-20.796	71.513	1.00	51.26	C
ATOM	12109	CE	LYS	C	71	44.727	-19.663	71.535	1.00	54.67	C
ATOM	12112	NZ	LYS	C	71	44.920	-18.739	72.704	1.00	53.55	N
ATOM	12116	C	LYS	C	71	47.664	-22.517	67.170	1.00	49.45	C
ATOM	12117	O	LYS	C	71	48.778	-22.844	67.546	1.00	52.94	O
ATOM	12119	N	GLY	C	72	47.417	-22.082	65.942	1.00	50.42	N
ATOM	12120	CA	GLY	C	72	48.480	-21.863	64.970	1.00	52.01	C
ATOM	12123	C	GLY	C	72	49.279	-20.592	65.234	1.00	53.24	C

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ATOM	12124	O	GLY	C	72	49.119	-19.953	66.282	1.00	52.05	O
ATOM	12126	N	PRO	C	73	50.145	-20.209	64.277	1.00	55.29	N
ATOM	12127	CA	PRO	C	73	51.111	-19.144	64.492	1.00	56.96	C
ATOM	12129	CB	PRO	C	73	52.349	-19.682	63.768	1.00	57.24	C
ATOM	12132	CG	PRO	C	73	51.760	-20.496	62.593	1.00	57.57	C
ATOM	12135	CD	PRO	C	73	50.296	-20.776	62.924	1.00	55.20	C
ATOM	12138	C	PRO	C	73	50.679	-17.812	63.893	1.00	57.99	C
ATOM	12139	O	PRO	C	73	51.506	-17.088	63.338	1.00	57.92	O
ATOM	12140	N	SER	C	74	49.397	-17.485	63.999	1.00	59.72	N
ATOM	12141	CA	SER	C	74	48.945	-16.159	63.608	1.00	62.22	C
ATOM	12143	CB	SER	C	74	47.426	-16.122	63.404	1.00	62.70	C
ATOM	12146	OG	SER	C	74	46.735	-16.009	64.635	1.00	64.56	O
ATOM	12148	C	SER	C	74	49.372	-15.191	64.704	1.00	63.86	C
ATOM	12149	O	SER	C	74	49.746	-15.619	65.799	1.00	65.56	O
ATOM	12151	N	LYS	C	75	49.333	-13.894	64.405	1.00	65.11	N
ATOM	12152	CA	LYS	C	75	49.570	-12.864	65.424	1.00	65.91	C
ATOM	12154	CB	LYS	C	75	49.800	-11.484	64.787	1.00	67.46	C
ATOM	12157	CG	LYS	C	75	51.264	-11.222	64.374	1.00	69.39	C
ATOM	12160	CD	LYS	C	75	51.624	-9.727	64.412	1.00	69.10	C
ATOM	12163	CE	LYS	C	75	50.724	-8.870	63.504	1.00	68.97	C
ATOM	12166	NZ	LYS	C	75	51.058	-7.414	63.608	1.00	67.31	N
ATOM	12170	C	LYS	C	75	48.410	-12.795	66.416	1.00	64.56	C
ATOM	12171	O	LYS	C	75	48.538	-12.234	67.497	1.00	65.96	O
ATOM	12173	N	LEU	C	76	47.290	-13.391	66.043	1.00	63.47	N
ATOM	12174	CA	LEU	C	76	46.102	-13.423	66.873	1.00	64.07	C
ATOM	12176	CB	LEU	C	76	44.911	-13.842	65.999	1.00	63.13	C
ATOM	12179	CG	LEU	C	76	43.567	-13.140	66.168	1.00	64.68	C
ATOM	12181	CD1	LEU	C	76	43.696	-11.710	66.667	1.00	67.11	C
ATOM	12185	CD2	LEU	C	76	42.834	-13.158	64.846	1.00	64.16	C
ATOM	12189	C	LEU	C	76	46.244	-14.388	68.064	1.00	65.87	C
ATOM	12190	O	LEU	C	76	45.465	-14.306	69.020	1.00	67.90	O
ATOM	12192	N	ASN	C	77	47.252	-15.269	68.011	1.00	64.59	N
ATOM	12193	CA	ASN	C	77	47.359	-16.442	68.889	1.00	61.96	C
ATOM	12195	CB	ASN	C	77	48.829	-16.865	69.053	1.00	62.45	C
ATOM	12198	CG	ASN	C	77	48.981	-18.257	69.689	1.00	63.63	C
ATOM	12199	OD1	ASN	C	77	48.095	-18.736	70.402	1.00	61.38	O
ATOM	12200	ND2	ASN	C	77	50.111	-18.904	69.426	1.00	60.68	N
ATOM	12203	C	ASN	C	77	46.713	-16.292	70.260	1.00	60.33	C
ATOM	12204	O	ASN	C	77	45.728	-16.963	70.571	1.00	60.02	O
ATOM	12206	N	ASP	C	78	47.264	-15.406	71.074	1.00	59.78	N
ATOM	12207	CA	ASP	C	78	46.886	-15.344	72.484	1.00	59.37	C
ATOM	12209	CB	ASP	C	78	47.933	-14.574	73.307	1.00	60.96	C
ATOM	12212	CG	ASP	C	78	48.142	-13.139	72.817	1.00	68.22	C
ATOM	12213	OD1	ASP	C	78	47.528	-12.745	71.794	1.00	74.99	O
ATOM	12214	OD2	ASP	C	78	48.931	-12.407	73.451	1.00	70.19	O
ATOM	12215	C	ASP	C	78	45.496	-14.760	72.696	1.00	56.69	C
ATOM	12216	O	ASP	C	78	44.914	-14.967	73.749	1.00	57.54	O
ATOM	12218	N	ARG	C	79	44.959	-14.049	71.706	1.00	55.44	N
ATOM	12219	CA	ARG	C	79	43.624	-13.439	71.833	1.00	55.03	C
ATOM	12221	CB	ARG	C	79	43.627	-12.036	71.230	1.00	54.51	C
ATOM	12224	CG	ARG	C	79	44.768	-11.182	71.759	1.00	54.43	C
ATOM	12227	CD	ARG	C	79	44.593	-9.700	71.522	1.00	52.55	C
ATOM	12230	NE	ARG	C	79	45.095	-9.286	70.212	1.00	53.43	N
ATOM	12232	CZ	ARG	C	79	44.361	-9.177	69.106	1.00	48.10	C
ATOM	12233	NH1	ARG	C	79	43.072	-9.453	69.118	1.00	46.25	N
ATOM	12236	NH2	ARG	C	79	44.926	-8.782	67.979	1.00	50.99	N
ATOM	12239	C	ARG	C	79	42.473	-14.273	71.251	1.00	54.28	C
ATOM	12240	O	ARG	C	79	41.306	-13.936	71.457	1.00	52.66	O
ATOM	12242	N	ALA	C	80	42.801	-15.356	70.545	1.00	54.83	N
ATOM	12243	CA	ALA	C	80	41.790	-16.283	70.020	1.00	55.71	C
ATOM	12245	CB	ALA	C	80	42.296	-16.985	68.778	1.00	55.69	C
ATOM	12249	C	ALA	C	80	41.424	-17.321	71.060	1.00	55.74	C
ATOM	12250	O	ALA	C	80	42.289	-17.745	71.823	1.00	56.62	O

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ATOM	12252	N	ASP	C	81	40.147	-17.715	71.077	1.00	55.46	N
ATOM	12253	CA	ASP	C	81	39.658	-18.824	71.902	1.00	55.03	C
ATOM	12255	CB	ASP	C	81	39.338	-18.347	73.328	1.00	55.68	C
ATOM	12258	CG	ASP	C	81	39.621	-19.416	74.395	1.00	59.76	C
ATOM	12259	OD1	ASP	C	81	39.527	-20.630	74.092	1.00	69.94	O
ATOM	12260	OD2	ASP	C	81	39.943	-19.041	75.545	1.00	65.85	O
ATOM	12261	C	ASP	C	81	38.405	-19.446	71.268	1.00	54.83	C
ATOM	12262	O	ASP	C	81	37.948	-19.001	70.212	1.00	52.87	O
ATOM	12264	N	SER	C	82	37.866	-20.481	71.911	1.00	53.85	N
ATOM	12265	CA	SER	C	82	36.600	-21.077	71.500	1.00	54.26	C
ATOM	12267	CB	SER	C	82	36.856	-22.356	70.703	1.00	53.01	C
ATOM	12270	OG	SER	C	82	35.686	-22.766	70.020	1.00	48.51	O
ATOM	12272	C	SER	C	82	35.741	-21.351	72.737	1.00	54.89	C
ATOM	12273	O	SER	C	82	36.020	-20.811	73.801	1.00	53.62	O
ATOM	12275	N	ARG	C	83	34.686	-22.155	72.590	1.00	57.39	N
ATOM	12276	CA	ARG	C	83	33.909	-22.651	73.738	1.00	58.61	C
ATOM	12278	CB	ARG	C	83	32.495	-22.086	73.729	1.00	59.21	C
ATOM	12281	CG	ARG	C	83	32.444	-20.636	74.096	1.00	62.88	C
ATOM	12284	CD	ARG	C	83	31.035	-20.086	73.991	1.00	65.60	C
ATOM	12287	NE	ARG	C	83	30.976	-18.734	74.525	1.00	68.85	N
ATOM	12289	CZ	ARG	C	83	31.002	-18.435	75.823	1.00	72.92	C
ATOM	12290	NH1	ARG	C	83	31.079	-19.388	76.756	1.00	72.34	N
ATOM	12293	NH2	ARG	C	83	30.950	-17.164	76.194	1.00	73.93	N
ATOM	12296	C	ARG	C	83	33.839	-24.165	73.722	1.00	57.52	C
ATOM	12297	O	ARG	C	83	32.949	-24.745	73.099	1.00	57.14	O
ATOM	12299	N	ARG	C	84	34.771	-24.796	74.427	1.00	57.71	N
ATOM	12300	CA	ARG	C	84	34.871	-26.264	74.461	1.00	58.06	C
ATOM	12302	CB	ARG	C	84	36.059	-26.707	75.336	1.00	56.96	C
ATOM	12305	CG	ARG	C	84	37.400	-26.156	74.852	1.00	57.30	C
ATOM	12308	CD	ARG	C	84	38.611	-26.749	75.562	1.00	56.98	C
ATOM	12311	NE	ARG	C	84	38.487	-26.721	77.021	1.00	57.55	N
ATOM	12313	CZ	ARG	C	84	38.165	-27.766	77.787	1.00	53.66	C
ATOM	12314	NH1	ARG	C	84	37.933	-28.959	77.249	1.00	53.42	N
ATOM	12317	NH2	ARG	C	84	38.073	-27.617	79.108	1.00	51.09	N
ATOM	12320	C	ARG	C	84	33.567	-26.929	74.929	1.00	57.61	C
ATOM	12321	O	ARG	C	84	33.255	-28.056	74.537	1.00	56.95	O
ATOM	12323	N	SER	C	85	32.805	-26.224	75.759	1.00	57.66	N
ATOM	12324	CA	SER	C	85	31.504	-26.707	76.187	1.00	58.22	C
ATOM	12326	CB	SER	C	85	30.854	-25.700	77.136	1.00	57.05	C
ATOM	12329	OG	SER	C	85	31.486	-24.440	77.018	1.00	56.63	O
ATOM	12331	C	SER	C	85	30.628	-26.970	74.966	1.00	59.49	C
ATOM	12332	O	SER	C	85	30.105	-28.067	74.795	1.00	62.80	O
ATOM	12334	N	LEU	C	86	30.530	-25.983	74.086	1.00	59.43	N
ATOM	12335	CA	LEU	C	86	29.652	-26.067	72.916	1.00	59.07	C
ATOM	12337	CB	LEU	C	86	29.493	-24.677	72.289	1.00	60.30	C
ATOM	12340	CG	LEU	C	86	29.013	-23.547	73.201	1.00	61.10	C
ATOM	12342	CD1	LEU	C	86	28.992	-22.214	72.435	1.00	62.00	C
ATOM	12346	CD2	LEU	C	86	27.652	-23.888	73.780	1.00	59.65	C
ATOM	12350	C	LEU	C	86	30.090	-27.052	71.815	1.00	57.92	C
ATOM	12351	O	LEU	C	86	29.343	-27.261	70.860	1.00	57.94	O
ATOM	12353	N	TRP	C	87	31.276	-27.647	71.941	1.00	56.42	N
ATOM	12354	CA	TRP	C	87	31.819	-28.542	70.902	1.00	56.36	C
ATOM	12356	CB	TRP	C	87	33.262	-28.955	71.242	1.00	53.05	C
ATOM	12359	CG	TRP	C	87	34.266	-27.856	71.027	1.00	49.88	C
ATOM	12360	CD1	TRP	C	87	34.011	-26.574	70.624	1.00	49.46	C
ATOM	12362	NE1	TRP	C	87	35.173	-25.860	70.554	1.00	50.06	N
ATOM	12364	CE2	TRP	C	87	36.214	-26.670	70.923	1.00	51.72	C
ATOM	12365	CD2	TRP	C	87	35.677	-27.934	71.232	1.00	49.41	C
ATOM	12366	CE3	TRP	C	87	36.545	-28.953	71.637	1.00	48.38	C
ATOM	12368	CZ3	TRP	C	87	37.892	-28.682	71.720	1.00	48.78	C
ATOM	12370	CH2	TRP	C	87	38.397	-27.415	71.405	1.00	49.18	C
ATOM	12372	CZ2	TRP	C	87	37.578	-26.398	71.008	1.00	49.49	C
ATOM	12374	C	TRP	C	87	30.964	-29.781	70.666	1.00	56.44	C

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ATOM	12375	O	TRP	C	87	30.622	-30.106	69.521	1.00	56.65	O
ATOM	12377	N	ASP	C	88	30.627	-30.466	71.752	1.00	57.30	N
ATOM	12378	CA	ASP	C	88	29.741	-31.628	71.698	1.00	57.07	C
ATOM	12380	CB	ASP	C	88	29.238	-31.981	73.101	1.00	58.07	C
ATOM	12383	CG	ASP	C	88	30.359	-32.068	74.125	1.00	61.73	C
ATOM	12384	OD1	ASP	C	88	30.513	-33.143	74.743	1.00	63.87	O
ATOM	12385	OD2	ASP	C	88	31.087	-31.061	74.306	1.00	65.80	O
ATOM	12386	C	ASP	C	88	28.548	-31.338	70.786	1.00	57.36	C
ATOM	12387	O	ASP	C	88	28.242	-32.114	69.876	1.00	58.34	O
ATOM	12389	N	GLN	C	89	27.914	-30.188	71.011	1.00	55.42	N
ATOM	12390	CA	GLN	C	89	26.702	-29.809	70.292	1.00	54.39	C
ATOM	12392	CB	GLN	C	89	25.920	-28.778	71.117	1.00	54.91	C
ATOM	12395	CG	GLN	C	89	25.355	-29.367	72.410	1.00	58.10	C
ATOM	12398	CD	GLN	C	89	24.678	-30.737	72.191	1.00	66.71	C
ATOM	12399	OE1	GLN	C	89	23.583	-30.817	71.625	1.00	72.60	O
ATOM	12400	NE2	GLN	C	89	25.341	-31.815	72.625	1.00	62.85	N
ATOM	12403	C	GLN	C	89	26.902	-29.324	68.852	1.00	52.31	C
ATOM	12404	O	GLN	C	89	25.933	-28.969	68.195	1.00	49.09	O
ATOM	12406	N	GLY	C	90	28.140	-29.330	68.360	1.00	52.74	N
ATOM	12407	CA	GLY	C	90	28.442	-28.926	66.981	1.00	52.64	C
ATOM	12410	C	GLY	C	90	28.722	-27.442	66.755	1.00	52.34	C
ATOM	12411	O	GLY	C	90	28.834	-27.003	65.613	1.00	53.04	O
ATOM	12413	N	ASN	C	91	28.839	-26.669	67.831	1.00	51.54	N
ATOM	12414	CA	ASN	C	91	29.204	-25.257	67.741	1.00	50.86	C
ATOM	12416	CB	ASN	C	91	28.387	-24.426	68.738	1.00	51.53	C
ATOM	12419	CG	ASN	C	91	27.044	-24.010	68.180	1.00	52.68	C
ATOM	12420	OD1	ASN	C	91	26.975	-23.418	67.106	1.00	53.48	O
ATOM	12421	ND2	ASN	C	91	25.967	-24.335	68.891	1.00	58.97	N
ATOM	12424	C	ASN	C	91	30.690	-25.062	67.997	1.00	50.03	C
ATOM	12425	O	ASN	C	91	31.192	-25.424	69.057	1.00	50.42	O
ATOM	12427	N	PHE	C	92	31.383	-24.475	67.023	1.00	50.70	N
ATOM	12428	CA	PHE	C	92	32.838	-24.291	67.079	1.00	50.26	C
ATOM	12430	CB	PHE	C	92	33.505	-25.135	65.992	1.00	51.29	C
ATOM	12433	CG	PHE	C	92	32.976	-26.540	65.909	1.00	53.12	C
ATOM	12434	CD1	PHE	C	92	33.031	-27.384	67.015	1.00	52.44	C
ATOM	12436	CE1	PHE	C	92	32.532	-28.680	66.951	1.00	54.20	C
ATOM	12438	CZ	PHE	C	92	31.978	-29.147	65.771	1.00	56.26	C
ATOM	12440	CE2	PHE	C	92	31.915	-28.311	64.658	1.00	55.76	C
ATOM	12442	CD2	PHE	C	92	32.411	-27.016	64.732	1.00	54.62	C
ATOM	12444	C	PHE	C	92	33.212	-22.821	66.899	1.00	49.64	C
ATOM	12445	O	PHE	C	92	33.858	-22.468	65.926	1.00	47.94	O
ATOM	12447	N	PRO	C	93	32.790	-21.952	67.836	1.00	49.91	N
ATOM	12448	CA	PRO	C	93	33.041	-20.515	67.700	1.00	48.95	C
ATOM	12450	CB	PRO	C	93	32.271	-19.916	68.880	1.00	48.64	C
ATOM	12453	CG	PRO	C	93	32.208	-21.002	69.874	1.00	50.23	C
ATOM	12456	CD	PRO	C	93	32.045	-22.255	69.071	1.00	49.54	C
ATOM	12459	C	PRO	C	93	34.509	-20.104	67.807	1.00	48.69	C
ATOM	12460	O	PRO	C	93	35.252	-20.647	68.625	1.00	47.80	O
ATOM	12461	N	LEU	C	94	34.905	-19.149	66.970	1.00	47.68	N
ATOM	12462	CA	LEU	C	94	36.141	-18.413	67.153	1.00	47.35	C
ATOM	12464	CB	LEU	C	94	36.734	-17.993	65.811	1.00	47.54	C
ATOM	12467	CG	LEU	C	94	37.947	-17.060	65.785	1.00	44.95	C
ATOM	12469	CD1	LEU	C	94	39.010	-17.545	66.720	1.00	46.78	C
ATOM	12473	CD2	LEU	C	94	38.501	-16.986	64.380	1.00	45.52	C
ATOM	12477	C	LEU	C	94	35.758	-17.193	67.943	1.00	47.76	C
ATOM	12478	O	LEU	C	94	34.848	-16.467	67.544	1.00	49.08	O
ATOM	12480	N	ILE	C	95	36.424	-16.990	69.076	1.00	48.89	N
ATOM	12481	CA	ILE	C	95	36.196	-15.830	69.931	1.00	49.35	C
ATOM	12483	CB	ILE	C	95	35.779	-16.251	71.352	1.00	49.40	C
ATOM	12485	CG1	ILE	C	95	34.377	-16.871	71.334	1.00	49.70	C
ATOM	12488	CD1	ILE	C	95	34.099	-17.771	72.528	1.00	50.42	C
ATOM	12492	CG2	ILE	C	95	35.830	-15.051	72.301	1.00	48.17	C
ATOM	12496	C	ILE	C	95	37.481	-15.047	70.033	1.00	49.05	C

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ATOM	12497	O	ILE	C	95	38.464	-15.539	70.575	1.00	52.28	O
ATOM	12499	N	ILE	C	96	37.464	-13.820	69.542	1.00	49.49	N
ATOM	12500	CA	ILE	C	96	38.635	-12.960	69.587	1.00	51.44	C
ATOM	12502	CB	ILE	C	96	38.871	-12.309	68.219	1.00	51.82	C
ATOM	12504	CG1	ILE	C	96	39.147	-13.405	67.175	1.00	53.58	C
ATOM	12507	CD1	ILE	C	96	38.880	-12.987	65.737	1.00	50.22	C
ATOM	12511	CG2	ILE	C	96	40.026	-11.307	68.285	1.00	49.59	C
ATOM	12515	C	ILE	C	96	38.453	-11.888	70.662	1.00	52.26	C
ATOM	12516	O	ILE	C	96	37.537	-11.072	70.574	1.00	48.81	O
ATOM	12518	N	LYS	C	97	39.346	-11.899	71.655	1.00	55.67	N
ATOM	12519	CA	LYS	C	97	39.336	-10.941	72.777	1.00	58.16	C
ATOM	12521	CB	LYS	C	97	40.023	-11.537	74.022	1.00	59.75	C
ATOM	12524	CG	LYS	C	97	39.806	-13.056	74.261	1.00	66.39	C
ATOM	12527	CD	LYS	C	97	41.097	-13.770	74.749	1.00	66.00	C
ATOM	12530	CE	LYS	C	97	41.082	-15.278	74.423	1.00	66.98	C
ATOM	12533	NZ	LYS	C	97	42.370	-15.967	74.749	1.00	63.46	N
ATOM	12537	C	LYS	C	97	40.120	-9.694	72.371	1.00	57.90	C
ATOM	12538	O	LYS	C	97	41.092	-9.805	71.616	1.00	58.73	O
ATOM	12540	N	ASN	C	98	39.725	-8.524	72.868	1.00	55.01	N
ATOM	12541	CA	ASN	C	98	40.537	-7.309	72.695	1.00	56.09	C
ATOM	12543	CB	ASN	C	98	41.855	-7.411	73.477	1.00	56.23	C
ATOM	12546	CG	ASN	C	98	41.650	-7.488	74.980	1.00	64.42	C
ATOM	12547	OD1	ASN	C	98	42.620	-7.553	75.737	1.00	73.67	O
ATOM	12548	ND2	ASN	C	98	40.391	-7.478	75.425	1.00	76.01	N
ATOM	12551	C	ASN	C	98	40.854	-6.997	71.238	1.00	54.18	C
ATOM	12552	O	ASN	C	98	41.997	-7.118	70.798	1.00	53.05	O
ATOM	12554	N	LEU	C	99	39.840	-6.564	70.506	1.00	52.80	N
ATOM	12555	CA	LEU	C	99	39.943	-6.439	69.065	1.00	53.17	C
ATOM	12557	CB	LEU	C	99	38.549	-6.345	68.442	1.00	52.14	C
ATOM	12560	CG	LEU	C	99	37.763	-7.658	68.493	1.00	49.63	C
ATOM	12562	CD1	LEU	C	99	36.258	-7.425	68.480	1.00	50.11	C
ATOM	12566	CD2	LEU	C	99	38.185	-8.592	67.365	1.00	47.55	C
ATOM	12570	C	LEU	C	99	40.788	-5.255	68.623	1.00	53.85	C
ATOM	12571	O	LEU	C	99	40.670	-4.155	69.170	1.00	54.38	O
ATOM	12573	N	LYS	C	100	41.641	-5.511	67.630	1.00	54.72	N
ATOM	12574	CA	LYS	C	100	42.381	-4.478	66.906	1.00	55.03	C
ATOM	12576	CB	LYS	C	100	43.879	-4.809	66.862	1.00	53.16	C
ATOM	12579	CG	LYS	C	100	44.446	-5.120	68.235	1.00	57.21	C
ATOM	12582	CD	LYS	C	100	45.951	-5.258	68.269	1.00	56.55	C
ATOM	12585	CE	LYS	C	100	46.397	-5.802	69.623	1.00	54.62	C
ATOM	12588	NZ	LYS	C	100	47.884	-5.823	69.749	1.00	61.43	N
ATOM	12592	C	LYS	C	100	41.815	-4.372	65.491	1.00	56.37	C
ATOM	12593	O	LYS	C	100	41.201	-5.322	64.979	1.00	56.17	O
ATOM	12595	N	ILE	C	101	42.032	-3.215	64.866	1.00	56.50	N
ATOM	12596	CA	ILE	C	101	41.509	-2.943	63.531	1.00	55.45	C
ATOM	12598	CB	ILE	C	101	41.833	-1.489	63.057	1.00	55.19	C
ATOM	12600	CG1	ILE	C	101	40.871	-0.465	63.668	1.00	54.74	C
ATOM	12603	CD1	ILE	C	101	40.566	-0.635	65.131	1.00	54.39	C
ATOM	12607	CG2	ILE	C	101	41.694	-1.359	61.538	1.00	56.87	C
ATOM	12611	C	ILE	C	101	42.058	-3.980	62.553	1.00	54.95	C
ATOM	12612	O	ILE	C	101	41.334	-4.454	61.683	1.00	54.33	O
ATOM	12614	N	GLU	C	102	43.324	-4.356	62.725	1.00	55.84	N
ATOM	12615	CA	GLU	C	102	43.979	-5.315	61.814	1.00	56.73	C
ATOM	12617	CB	GLU	C	102	45.506	-5.336	61.987	1.00	58.00	C
ATOM	12620	CG	GLU	C	102	45.998	-5.602	63.400	1.00	64.70	C
ATOM	12623	CD	GLU	C	102	46.065	-4.338	64.258	1.00	73.67	C
ATOM	12624	OE1	GLU	C	102	45.506	-3.283	63.850	1.00	74.00	O
ATOM	12625	OE2	GLU	C	102	46.674	-4.410	65.351	1.00	78.25	O
ATOM	12626	C	GLU	C	102	43.439	-6.738	61.897	1.00	55.16	C
ATOM	12627	O	GLU	C	102	43.764	-7.553	61.048	1.00	56.66	O
ATOM	12629	N	ASP	C	103	42.625	-7.039	62.902	1.00	53.48	N
ATOM	12630	CA	ASP	C	103	41.923	-8.320	62.942	1.00	52.84	C
ATOM	12632	CB	ASP	C	103	41.302	-8.555	64.316	1.00	52.09	C

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ATOM	12635	CG	ASP	C	103	42.343	-8.645	65.420	1.00	52.06	C
ATOM	12636	OD1	ASP	C	103	43.532	-8.926	65.128	1.00	45.27	O
ATOM	12637	OD2	ASP	C	103	41.965	-8.426	66.586	1.00	47.52	O
ATOM	12638	C	ASP	C	103	40.838	-8.384	61.872	1.00	51.90	C
ATOM	12639	O	ASP	C	103	40.330	-9.462	61.556	1.00	47.95	O
ATOM	12641	N	SER	C	104	40.472	-7.229	61.323	1.00	52.59	N
ATOM	12642	CA	SER	C	104	39.541	-7.201	60.211	1.00	53.58	C
ATOM	12644	CB	SER	C	104	39.267	-5.774	59.765	1.00	52.91	C
ATOM	12647	OG	SER	C	104	38.857	-4.998	60.868	1.00	55.45	O
ATOM	12649	C	SER	C	104	40.116	-8.013	59.052	1.00	54.73	C
ATOM	12650	O	SER	C	104	41.226	-7.739	58.576	1.00	54.05	O
ATOM	12652	N	ASP	C	105	39.334	-9.006	58.626	1.00	54.20	N
ATOM	12653	CA	ASP	C	105	39.711	-9.976	57.613	1.00	51.83	C
ATOM	12655	CB	ASP	C	105	40.834	-10.857	58.168	1.00	52.72	C
ATOM	12658	CG	ASP	C	105	41.569	-11.648	57.094	1.00	54.56	C
ATOM	12659	OD1	ASP	C	105	41.063	-11.799	55.963	1.00	51.16	O
ATOM	12660	OD2	ASP	C	105	42.675	-12.135	57.402	1.00	57.46	O
ATOM	12661	C	ASP	C	105	38.472	-10.832	57.341	1.00	50.25	C
ATOM	12662	O	ASP	C	105	37.481	-10.733	58.053	1.00	47.82	O
ATOM	12664	N	THR	C	106	38.508	-11.663	56.311	1.00	51.72	N
ATOM	12665	CA	THR	C	106	37.584	-12.791	56.258	1.00	50.98	C
ATOM	12667	CB	THR	C	106	37.240	-13.207	54.842	1.00	50.93	C
ATOM	12669	OG1	THR	C	106	36.247	-12.319	54.329	1.00	54.88	O
ATOM	12671	CG2	THR	C	106	36.672	-14.618	54.820	1.00	54.12	C
ATOM	12675	C	THR	C	106	38.215	-13.964	56.994	1.00	49.63	C
ATOM	12676	O	THR	C	106	39.396	-14.260	56.810	1.00	48.56	O
ATOM	12678	N	TYR	C	107	37.403	-14.614	57.821	1.00	47.37	N
ATOM	12679	CA	TYR	C	107	37.806	-15.780	58.583	1.00	48.49	C
ATOM	12681	CB	TYR	C	107	37.531	-15.521	60.061	1.00	46.75	C
ATOM	12684	CG	TYR	C	107	38.492	-14.538	60.692	1.00	45.97	C
ATOM	12685	CD1	TYR	C	107	38.156	-13.201	60.838	1.00	46.31	C
ATOM	12687	CE1	TYR	C	107	39.030	-12.308	61.413	1.00	43.07	C
ATOM	12689	CZ	TYR	C	107	40.260	-12.744	61.842	1.00	38.51	C
ATOM	12690	OH	TYR	C	107	41.138	-11.866	62.410	1.00	39.85	O
ATOM	12692	CE2	TYR	C	107	40.620	-14.062	61.708	1.00	42.91	C
ATOM	12694	CD2	TYR	C	107	39.739	-14.950	61.141	1.00	44.33	C
ATOM	12696	C	TYR	C	107	37.040	-17.023	58.098	1.00	49.31	C
ATOM	12697	O	TYR	C	107	35.852	-16.943	57.757	1.00	50.98	O
ATOM	12699	N	ILE	C	108	37.719	-18.165	58.069	1.00	48.86	N
ATOM	12700	CA	ILE	C	108	37.170	-19.380	57.450	1.00	50.48	C
ATOM	12702	CB	ILE	C	108	37.996	-19.833	56.211	1.00	49.66	C
ATOM	12704	CG1	ILE	C	108	38.380	-18.639	55.331	1.00	49.00	C
ATOM	12707	CD1	ILE	C	108	39.364	-18.987	54.240	1.00	49.70	C
ATOM	12711	CG2	ILE	C	108	37.205	-20.837	55.385	1.00	48.20	C
ATOM	12715	C	ILE	C	108	37.092	-20.553	58.427	1.00	51.00	C
ATOM	12716	O	ILE	C	108	38.063	-20.881	59.094	1.00	50.60	O
ATOM	12718	N	CYS	C	109	35.928	-21.189	58.484	1.00	53.24	N
ATOM	12719	CA	CYS	C	109	35.703	-22.307	59.364	1.00	54.78	C
ATOM	12721	CB	CYS	C	109	34.418	-22.111	60.143	1.00	53.67	C
ATOM	12724	SG	CYS	C	109	34.102	-23.412	61.332	1.00	56.28	S
ATOM	12726	C	CYS	C	109	35.624	-23.553	58.507	1.00	57.51	C
ATOM	12727	O	CYS	C	109	34.681	-23.734	57.736	1.00	57.78	O
ATOM	12729	N	GLU	C	110	36.645	-24.392	58.649	1.00	61.09	N
ATOM	12730	CA	GLU	C	110	36.827	-25.600	57.864	1.00	63.08	C
ATOM	12732	CB	GLU	C	110	38.312	-25.678	57.432	1.00	64.52	C
ATOM	12735	CG	GLU	C	110	38.649	-26.539	56.182	1.00	65.80	C
ATOM	12738	CD	GLU	C	110	40.165	-26.558	55.829	1.00	68.32	C
ATOM	12739	OE1	GLU	C	110	40.902	-25.606	56.192	1.00	70.02	O
ATOM	12740	OE2	GLU	C	110	40.616	-27.535	55.176	1.00	72.71	O
ATOM	12741	C	GLU	C	110	36.435	-26.799	58.746	1.00	64.18	C
ATOM	12742	O	GLU	C	110	36.989	-26.967	59.835	1.00	64.29	O
ATOM	12744	N	VAL	C	111	35.481	-27.616	58.294	1.00	65.46	N
ATOM	12745	CA	VAL	C	111	35.103	-28.842	59.029	1.00	67.28	C

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ATOM	12747	CB	VAL	C	111	33.592	-28.943	59.253	1.00	67.09	C
ATOM	12749	CG1	VAL	C	111	32.827	-28.804	57.929	1.00	71.87	C
ATOM	12753	CG2	VAL	C	111	33.150	-27.890	60.269	1.00	62.06	C
ATOM	12757	C	VAL	C	111	35.687	-30.118	58.385	1.00	70.68	C
ATOM	12758	O	VAL	C	111	36.897	-30.356	58.527	1.00	74.31	O
ATOM	12760	N	GLU	C	112	34.875	-30.953	57.723	1.00	70.85	N
ATOM	12761	CA	GLU	C	112	35.412	-32.098	56.967	1.00	70.44	C
ATOM	12763	CB	GLU	C	112	34.302	-33.088	56.544	1.00	72.33	C
ATOM	12766	CG	GLU	C	112	33.117	-32.488	55.740	1.00	76.96	C
ATOM	12769	CD	GLU	C	112	31.783	-32.493	56.496	1.00	83.20	C
ATOM	12770	OE1	GLU	C	112	31.267	-33.595	56.799	1.00	82.70	O
ATOM	12771	OE2	GLU	C	112	31.239	-31.394	56.764	1.00	83.34	O
ATOM	12772	C	GLU	C	112	36.208	-31.542	55.776	1.00	69.64	C
ATOM	12773	O	GLU	C	112	37.237	-30.902	55.974	1.00	68.45	O
ATOM	12775	N	ASP	C	113	35.750	-31.761	54.550	1.00	69.24	N
ATOM	12776	CA	ASP	C	113	36.288	-31.019	53.421	1.00	68.90	C
ATOM	12778	CB	ASP	C	113	36.375	-31.920	52.173	1.00	70.79	C
ATOM	12781	CG	ASP	C	113	35.010	-32.440	51.699	1.00	75.31	C
ATOM	12782	OD1	ASP	C	113	34.967	-33.039	50.597	1.00	74.76	O
ATOM	12783	OD2	ASP	C	113	33.993	-32.263	52.416	1.00	77.85	O
ATOM	12784	C	ASP	C	113	35.488	-29.731	53.144	1.00	67.66	C
ATOM	12785	O	ASP	C	113	35.714	-29.080	52.130	1.00	68.60	O
ATOM	12787	N	GLN	C	114	34.581	-29.351	54.050	1.00	66.10	N
ATOM	12788	CA	GLN	C	114	33.674	-28.212	53.822	1.00	64.38	C
ATOM	12790	CB	GLN	C	114	32.254	-28.566	54.275	1.00	64.59	C
ATOM	12793	CG	GLN	C	114	31.610	-29.698	53.477	1.00	64.96	C
ATOM	12796	CD	GLN	C	114	31.648	-29.456	51.981	1.00	64.44	C
ATOM	12797	OE1	GLN	C	114	32.238	-30.237	51.230	1.00	69.81	O
ATOM	12798	NE2	GLN	C	114	31.041	-28.357	51.542	1.00	58.73	N
ATOM	12801	C	GLN	C	114	34.140	-26.926	54.508	1.00	62.41	C
ATOM	12802	O	GLN	C	114	34.875	-26.978	55.491	1.00	62.74	O
ATOM	12804	N	LYS	C	115	33.707	-25.781	53.976	1.00	59.25	N
ATOM	12805	CA	LYS	C	115	34.153	-24.466	54.454	1.00	58.31	C
ATOM	12807	CB	LYS	C	115	35.215	-23.882	53.522	1.00	58.36	C
ATOM	12810	CG	LYS	C	115	36.517	-24.629	53.525	1.00	61.04	C
ATOM	12813	CD	LYS	C	115	37.409	-24.182	52.387	1.00	61.58	C
ATOM	12816	CE	LYS	C	115	38.614	-25.107	52.219	1.00	62.86	C
ATOM	12819	NZ	LYS	C	115	39.216	-24.941	50.868	1.00	62.77	N
ATOM	12823	C	LYS	C	115	33.012	-23.475	54.513	1.00	55.16	C
ATOM	12824	O	LYS	C	115	32.016	-23.631	53.817	1.00	54.49	O
ATOM	12826	N	GLU	C	116	33.202	-22.434	55.315	1.00	53.47	N
ATOM	12827	CA	GLU	C	116	32.199	-21.395	55.545	1.00	53.55	C
ATOM	12829	CB	GLU	C	116	31.223	-21.864	56.623	1.00	51.70	C
ATOM	12832	CG	GLU	C	116	30.510	-20.767	57.366	1.00	53.11	C
ATOM	12835	CD	GLU	C	116	29.298	-21.269	58.117	1.00	54.70	C
ATOM	12836	OE1	GLU	C	116	29.472	-21.756	59.251	1.00	50.98	O
ATOM	12837	OE2	GLU	C	116	28.169	-21.160	57.575	1.00	61.27	O
ATOM	12838	C	GLU	C	116	32.906	-20.100	55.966	1.00	52.91	C
ATOM	12839	O	GLU	C	116	33.875	-20.146	56.713	1.00	50.94	O
ATOM	12841	N	GLU	C	117	32.417	-18.955	55.494	1.00	53.45	N
ATOM	12842	CA	GLU	C	117	33.135	-17.684	55.652	1.00	54.09	C
ATOM	12844	CB	GLU	C	117	33.458	-17.091	54.277	1.00	53.32	C
ATOM	12847	CG	GLU	C	117	34.366	-17.962	53.438	1.00	54.45	C
ATOM	12850	CD	GLU	C	117	34.934	-17.245	52.227	1.00	56.38	C
ATOM	12851	OE1	GLU	C	117	34.742	-16.012	52.092	1.00	60.16	O
ATOM	12852	OE2	GLU	C	117	35.586	-17.927	51.407	1.00	57.41	O
ATOM	12853	C	GLU	C	117	32.375	-16.635	56.453	1.00	53.34	C
ATOM	12854	O	GLU	C	117	31.165	-16.477	56.280	1.00	53.72	O
ATOM	12856	N	VAL	C	118	33.098	-15.910	57.311	1.00	52.42	N
ATOM	12857	CA	VAL	C	118	32.570	-14.709	57.956	1.00	53.21	C
ATOM	12859	CB	VAL	C	118	32.438	-14.861	59.483	1.00	54.38	C
ATOM	12861	CG1	VAL	C	118	31.290	-13.987	59.994	1.00	55.42	C
ATOM	12865	CG2	VAL	C	118	32.209	-16.302	59.877	1.00	57.17	C

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ATOM	12869	C	VAL	C	118	33.525	-13.564	57.717	1.00	52.25	
ATOM	12870	O	VAL	C	118	34.717	-13.733	57.916	1.00	55.22	C
ATOM	12872	N	GLN	C	119	33.013	-12.415	57.287	1.00	51.56	O
ATOM	12873	CA	GLN	C	119	33.826	-11.208	57.171	1.00	52.32	N
ATOM	12875	CB	GLN	C	119	33.404	-10.353	55.980	1.00	52.94	C
ATOM	12878	CG	GLN	C	119	34.306	-9.138	55.680	1.00	54.41	C
ATOM	12881	CD	GLN	C	119	33.673	-8.152	54.668	1.00	58.73	C
ATOM	12882	OE1	GLN	C	119	33.008	-8.557	53.706	1.00	67.09	C
ATOM	12883	NE2	GLN	C	119	33.876	-6.856	54.899	1.00	65.24	O
ATOM	12886	C	GLN	C	119	33.644	-10.422	58.442	1.00	51.96	N
ATOM	12887	O	GLN	C	119	32.522	-10.058	58.792	1.00	50.71	C
ATOM	12889	N	LEU	C	120	34.758	-10.192	59.136	1.00	52.15	O
ATOM	12890	CA	LEU	C	120	34.803	-9.365	60.333	1.00	50.35	N
ATOM	12892	CB	LEU	C	120	35.768	-9.954	61.350	1.00	47.65	C
ATOM	12895	CG	LEU	C	120	35.959	-9.089	62.597	1.00	48.62	C
ATOM	12897	CD1	LEU	C	120	34.628	-8.828	63.304	1.00	41.97	C
ATOM	12901	CD2	LEU	C	120	36.966	-9.735	63.541	1.00	49.72	C
ATOM	12905	C	LEU	C	120	35.282	-7.967	59.973	1.00	51.47	C
ATOM	12906	O	LEU	C	120	36.336	-7.804	59.349	1.00	52.89	O
ATOM	12908	N	LEU	C	121	34.517	-6.960	60.369	1.00	50.82	N
ATOM	12909	CA	LEU	C	121	34.991	-5.593	60.292	1.00	52.00	C
ATOM	12911	CB	LEU	C	121	34.101	-4.758	59.361	1.00	53.51	C
ATOM	12914	CG	LEU	C	121	33.904	-5.313	57.943	1.00	51.77	C
ATOM	12916	CD1	LEU	C	121	33.007	-4.396	57.146	1.00	50.39	C
ATOM	12920	CD2	LEU	C	121	35.229	-5.512	57.232	1.00	49.89	C
ATOM	12924	C	LEU	C	121	35.004	-5.012	61.696	1.00	52.38	C
ATOM	12925	O	LEU	C	121	33.953	-4.858	62.310	1.00	53.44	O
ATOM	12927	N	VAL	C	122	36.198	-4.711	62.207	1.00	53.37	N
ATOM	12928	CA	VAL	C	122	36.356	-4.034	63.500	1.00	53.90	C
ATOM	12930	CB	VAL	C	122	37.611	-4.500	64.228	1.00	53.89	C
ATOM	12932	CG1	VAL	C	122	37.757	-3.765	65.569	1.00	52.63	C
ATOM	12936	CG2	VAL	C	122	37.580	-6.012	64.410	1.00	56.49	C
ATOM	12940	C	VAL	C	122	36.493	-2.532	63.293	1.00	54.43	C
ATOM	12941	O	VAL	C	122	37.331	-2.101	62.500	1.00	55.12	O
ATOM	12943	N	PHE	C	123	35.686	-1.751	64.013	1.00	54.82	N
ATOM	12944	CA	PHE	C	123	35.684	-0.292	63.889	1.00	56.06	C
ATOM	12946	CB	PHE	C	123	34.286	0.234	63.544	1.00	56.94	C
ATOM	12949	CG	PHE	C	123	33.877	-0.018	62.126	1.00	53.01	C
ATOM	12950	CD1	PHE	C	123	34.573	0.568	61.078	1.00	55.73	C
ATOM	12952	CE1	PHE	C	123	34.209	0.331	59.758	1.00	58.17	C
ATOM	12954	CZ	PHE	C	123	33.138	-0.490	59.482	1.00	56.84	C
ATOM	12956	CE2	PHE	C	123	32.434	-1.073	60.525	1.00	58.38	C
ATOM	12958	CD2	PHE	C	123	32.804	-0.833	61.837	1.00	51.88	C
ATOM	12960	C	PHE	C	123	36.135	0.355	65.171	1.00	57.02	C
ATOM	12961	O	PHE	C	123	35.908	-0.172	66.250	1.00	57.02	O
ATOM	12963	N	GLY	C	124	36.778	1.507	65.040	1.00	59.18	N
ATOM	12964	CA	GLY	C	124	37.255	2.262	66.188	1.00	60.08	C
ATOM	12967	C	GLY	C	124	36.881	3.722	66.047	1.00	61.27	C
ATOM	12968	O	GLY	C	124	36.670	4.219	64.934	1.00	57.87	O
ATOM	12970	N	LEU	C	125	36.801	4.403	67.186	1.00	63.32	N
ATOM	12971	CA	LEU	C	125	36.464	5.818	67.233	1.00	64.26	C
ATOM	12973	CB	LEU	C	125	35.060	5.986	67.810	1.00	65.00	C
ATOM	12976	CG	LEU	C	125	34.523	7.414	67.873	1.00	65.30	C
ATOM	12978	CD1	LEU	C	125	34.674	8.084	66.512	1.00	65.34	C
ATOM	12982	CD2	LEU	C	125	33.070	7.418	68.341	1.00	64.50	C
ATOM	12986	C	LEU	C	125	37.485	6.545	68.103	1.00	64.66	C
ATOM	12987	O	LEU	C	125	37.717	6.143	69.230	1.00	66.76	O
ATOM	12989	N	THR	C	126	38.077	7.615	67.582	1.00	64.70	N
ATOM	12990	CA	THR	C	126	39.171	8.308	68.261	1.00	66.19	C
ATOM	12992	CB	THR	C	126	40.550	7.724	67.837	1.00	65.47	C
ATOM	12994	OG1	THR	C	126	41.511	8.780	67.721	1.00	67.12	O
ATOM	12996	CG2	THR	C	126	40.479	7.036	66.502	1.00	66.34	C
ATOM	13000	C	THR	C	126	39.193	9.837	68.035	1.00	67.79	C

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ATOM	13001	O	THR	C	126	39.015	10.317	66.907	1.00	68.05	O
ATOM	13003	N	ALA	C	127	39.432	10.584	69.117	1.00	68.20	N
ATOM	13004	CA	ALA	C	127	39.708	12.021	69.040	1.00	68.54	C
ATOM	13006	CB	ALA	C	127	39.517	12.678	70.404	1.00	66.69	C
ATOM	13010	C	ALA	C	127	41.132	12.268	68.537	1.00	69.70	C
ATOM	13011	O	ALA	C	127	42.056	11.533	68.882	1.00	69.66	O
ATOM	13013	N	ASN	C	128	41.307	13.310	67.726	1.00	71.66	N
ATOM	13014	CA	ASN	C	128	42.642	13.728	67.280	1.00	72.32	C
ATOM	13016	CB	ASN	C	128	42.549	14.719	66.112	1.00	73.36	C
ATOM	13019	CG	ASN	C	128	41.821	14.129	64.898	1.00	75.66	C
ATOM	13020	OD1	ASN	C	128	40.979	13.230	65.033	1.00	74.10	O
ATOM	13021	ND2	ASN	C	128	42.140	14.637	63.711	1.00	70.84	N
ATOM	13024	C	ASN	C	128	43.422	14.337	68.441	1.00	72.77	C
ATOM	13025	O	ASN	C	128	44.572	13.977	68.672	1.00	73.63	O
ATOM	13027	N	SER	C	129	42.778	15.243	69.176	1.00	73.54	N
ATOM	13028	CA	SER	C	129	43.343	15.808	70.408	1.00	72.84	C
ATOM	13030	CB	SER	C	129	42.825	17.236	70.626	1.00	74.19	C
ATOM	13033	OG	SER	C	129	42.779	17.967	69.413	1.00	76.55	O
ATOM	13035	C	SER	C	129	42.975	14.936	71.614	1.00	71.58	C
ATOM	13036	O	SER	C	129	42.510	13.810	71.463	1.00	72.40	O
ATOM	13038	N	ASP	C	130	43.198	15.468	72.812	1.00	71.16	N
ATOM	13039	CA	ASP	C	130	42.730	14.850	74.053	1.00	69.49	C
ATOM	13041	CB	ASP	C	130	43.382	15.546	75.265	1.00	70.05	C
ATOM	13044	CG	ASP	C	130	43.197	14.783	76.576	1.00	71.63	C
ATOM	13045	OD1	ASP	C	130	42.504	13.740	76.599	1.00	73.08	O
ATOM	13046	OD2	ASP	C	130	43.753	15.242	77.599	1.00	72.89	O
ATOM	13047	C	ASP	C	130	41.198	14.954	74.116	1.00	68.54	C
ATOM	13048	O	ASP	C	130	40.596	15.819	73.470	1.00	69.62	O
ATOM	13050	N	THR	C	131	40.582	14.052	74.876	1.00	65.67	N
ATOM	13051	CA	THR	C	131	39.136	14.034	75.078	1.00	61.78	C
ATOM	13053	CB	THR	C	131	38.667	12.615	75.546	1.00	60.74	C
ATOM	13055	OG1	THR	C	131	37.349	12.355	75.069	1.00	61.20	O
ATOM	13057	CG2	THR	C	131	38.714	12.438	77.073	1.00	58.94	C
ATOM	13061	C	THR	C	131	38.749	15.147	76.068	1.00	59.98	C
ATOM	13062	O	THR	C	131	37.696	15.770	75.928	1.00	58.13	O
ATOM	13064	N	HIS	C	132	39.622	15.395	77.050	1.00	58.56	N
ATOM	13065	CA	HIS	C	132	39.476	16.513	77.990	1.00	57.41	C
ATOM	13067	CB	HIS	C	132	40.223	16.234	79.302	1.00	59.02	C
ATOM	13070	CG	HIS	C	132	39.864	14.925	79.943	1.00	61.69	C
ATOM	13071	ND1	HIS	C	132	40.534	13.750	79.668	1.00	65.34	N
ATOM	13073	CE1	HIS	C	132	40.009	12.767	80.375	1.00	60.86	C
ATOM	13075	NE2	HIS	C	132	39.021	13.261	81.099	1.00	62.30	N
ATOM	13077	CD2	HIS	C	132	38.915	14.609	80.855	1.00	59.02	C
ATOM	13079	C	HIS	C	132	40.025	17.779	77.333	1.00	55.34	C
ATOM	13080	O	HIS	C	132	41.202	17.846	77.008	1.00	57.95	O
ATOM	13082	N	LEU	C	133	39.179	18.787	77.162	1.00	53.02	N
ATOM	13083	CA	LEU	C	133	39.434	19.851	76.197	1.00	50.98	C
ATOM	13085	CB	LEU	C	133	38.708	19.471	74.921	1.00	50.94	C
ATOM	13088	CG	LEU	C	133	39.339	19.853	73.596	1.00	55.43	C
ATOM	13090	CD1	LEU	C	133	40.569	18.968	73.285	1.00	57.77	C
ATOM	13094	CD2	LEU	C	133	38.279	19.745	72.495	1.00	53.54	C
ATOM	13098	C	LEU	C	133	38.912	21.197	76.688	1.00	48.12	C
ATOM	13099	O	LEU	C	133	37.886	21.241	77.346	1.00	49.92	O
ATOM	13101	N	LEU	C	134	39.598	22.290	76.368	1.00	45.02	N
ATOM	13102	CA	LEU	C	134	39.136	23.634	76.772	1.00	44.51	C
ATOM	13104	CB	LEU	C	134	40.233	24.694	76.620	1.00	42.50	C
ATOM	13107	CG	LEU	C	134	41.098	24.970	77.850	1.00	41.84	C
ATOM	13109	CD1	LEU	C	134	41.712	23.689	78.383	1.00	41.05	C
ATOM	13113	CD2	LEU	C	134	42.168	26.005	77.527	1.00	43.34	C
ATOM	13117	C	LEU	C	134	37.927	24.090	75.972	1.00	44.51	C
ATOM	13118	O	LEU	C	134	37.749	23.701	74.824	1.00	43.86	O
ATOM	13120	N	GLN	C	135	37.113	24.947	76.578	1.00	46.00	N
ATOM	13121	CA	GLN	C	135	35.953	25.515	75.898	1.00	45.14	C

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ATOM	13123	CB	GLN	C	135	35.086	26.294	76.880	1.00	44.72	C
ATOM	13126	CG	GLN	C	135	33.868	26.907	76.226	1.00	46.28	C
ATOM	13129	CD	GLN	C	135	32.920	27.494	77.227	1.00	45.70	C
ATOM	13130	OE1	GLN	C	135	31.768	27.060	77.324	1.00	53.66	O
ATOM	13131	NE2	GLN	C	135	33.392	28.481	77.988	1.00	28.37	N
ATOM	13134	C	GLN	C	135	36.350	26.428	74.732	1.00	43.60	C
ATOM	13135	O	GLN	C	135	37.233	27.287	74.863	1.00	42.29	O
ATOM	13137	N	GLY	C	136	35.672	26.242	73.605	1.00	42.19	N
ATOM	13138	CA	GLY	C	136	35.973	26.982	72.387	1.00	44.99	C
ATOM	13141	C	GLY	C	136	36.978	26.289	71.478	1.00	45.49	C
ATOM	13142	O	GLY	C	136	37.163	26.714	70.340	1.00	44.08	O
ATOM	13144	N	GLN	C	137	37.639	25.241	71.979	1.00	46.91	N
ATOM	13145	CA	GLN	C	137	38.539	24.421	71.160	1.00	47.59	C
ATOM	13147	CB	GLN	C	137	39.455	23.527	72.014	1.00	46.17	C
ATOM	13150	CG	GLN	C	137	40.366	24.241	72.991	1.00	42.61	C
ATOM	13153	CD	GLN	C	137	41.387	25.092	72.305	1.00	47.64	C
ATOM	13154	OE1	GLN	C	137	41.485	26.294	72.556	1.00	57.64	O
ATOM	13155	NE2	GLN	C	137	42.150	24.486	71.416	1.00	51.71	N
ATOM	13158	C	GLN	C	137	37.681	23.531	70.284	1.00	48.99	C
ATOM	13159	O	GLN	C	137	36.523	23.276	70.588	1.00	50.44	O
ATOM	13161	N	SER	C	138	38.254	23.054	69.193	1.00	52.18	N
ATOM	13162	CA	SER	C	138	37.536	22.187	68.282	1.00	53.77	C
ATOM	13164	CB	SER	C	138	37.931	22.500	66.848	1.00	54.12	C
ATOM	13167	OG	SER	C	138	37.621	23.846	66.541	1.00	60.63	O
ATOM	13169	C	SER	C	138	37.853	20.742	68.615	1.00	55.38	C
ATOM	13170	O	SER	C	138	38.875	20.436	69.223	1.00	55.88	O
ATOM	13172	N	LEU	C	139	36.960	19.858	68.207	1.00	57.14	N
ATOM	13173	CA	LEU	C	139	37.120	18.437	68.415	1.00	57.11	C
ATOM	13175	CB	LEU	C	139	36.086	17.970	69.427	1.00	58.66	C
ATOM	13178	CG	LEU	C	139	35.830	16.472	69.507	1.00	60.28	C
ATOM	13180	CD1	LEU	C	139	37.148	15.751	69.779	1.00	65.64	C
ATOM	13184	CD2	LEU	C	139	34.777	16.173	70.583	1.00	59.13	C
ATOM	13188	C	LEU	C	139	36.890	17.736	67.089	1.00	57.54	C
ATOM	13189	O	LEU	C	139	35.884	17.990	66.423	1.00	57.65	O
ATOM	13191	N	THR	C	140	37.819	16.873	66.701	1.00	55.84	N
ATOM	13192	CA	THR	C	140	37.641	16.056	65.511	1.00	55.23	C
ATOM	13194	CB	THR	C	140	38.803	16.234	64.522	1.00	54.09	C
ATOM	13196	OG1	THR	C	140	38.839	17.585	64.062	1.00	49.54	O
ATOM	13198	CG2	THR	C	140	38.643	15.300	63.320	1.00	55.04	C
ATOM	13202	C	THR	C	140	37.575	14.596	65.925	1.00	55.52	C
ATOM	13203	O	THR	C	140	38.542	14.067	66.467	1.00	55.17	O
ATOM	13205	N	LEU	C	141	36.436	13.955	65.673	1.00	56.14	N
ATOM	13206	CA	LEU	C	141	36.301	12.509	65.856	1.00	56.06	C
ATOM	13208	CB	LEU	C	141	34.885	12.138	66.284	1.00	55.13	C
ATOM	13211	CG	LEU	C	141	34.393	12.856	67.543	1.00	54.55	C
ATOM	13213	CD1	LEU	C	141	33.072	12.277	67.984	1.00	55.40	C
ATOM	13217	CD2	LEU	C	141	35.414	12.769	68.678	1.00	55.73	C
ATOM	13221	C	LEU	C	141	36.656	11.826	64.555	1.00	56.15	C
ATOM	13222	O	LEU	C	141	36.362	12.341	63.479	1.00	57.21	O
ATOM	13224	N	THR	C	142	37.316	10.680	64.654	1.00	57.30	N
ATOM	13225	CA	THR	C	142	37.834	9.996	63.474	1.00	58.06	C
ATOM	13227	CB	THR	C	142	39.313	10.341	63.258	1.00	57.47	C
ATOM	13229	OG1	THR	C	142	39.463	11.763	63.254	1.00	61.17	O
ATOM	13231	CG2	THR	C	142	39.825	9.791	61.935	1.00	56.93	C
ATOM	13235	C	THR	C	142	37.650	8.481	63.599	1.00	58.80	C
ATOM	13236	O	THR	C	142	38.083	7.868	64.577	1.00	57.62	O
ATOM	13238	N	LEU	C	143	36.976	7.896	62.612	1.00	58.40	N
ATOM	13239	CA	LEU	C	143	36.783	6.457	62.565	1.00	58.37	C
ATOM	13241	CB	LEU	C	143	35.722	6.080	61.520	1.00	57.10	C
ATOM	13244	CG	LEU	C	143	34.273	5.905	61.977	1.00	55.46	C
ATOM	13246	CD1	LEU	C	143	33.895	6.843	63.108	1.00	56.46	C
ATOM	13250	CD2	LEU	C	143	33.340	6.100	60.799	1.00	57.96	C
ATOM	13254	C	LEU	C	143	38.102	5.790	62.214	1.00	58.83	C

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ATOM	13255	O	LEU	C	143	38.830	6.280	61.355	1.00	60.93	O
ATOM	13257	N	GLU	C	144	38.412	4.693	62.893	1.00	57.52	N
ATOM	13258	CA	GLU	C	144	39.456	3.797	62.440	1.00	58.34	C
ATOM	13260	CB	GLU	C	144	40.271	3.263	63.603	1.00	58.84	C
ATOM	13263	CG	GLU	C	144	40.925	4.355	64.417	1.00	61.40	C
ATOM	13266	CD	GLU	C	144	41.677	3.805	65.593	1.00	60.71	C
ATOM	13267	OE1	GLU	C	144	42.697	3.121	65.361	1.00	70.68	O
ATOM	13268	OE2	GLU	C	144	41.237	4.031	66.742	1.00	60.94	O
ATOM	13269	C	GLU	C	144	38.767	2.666	61.719	1.00	58.59	C
ATOM	13270	O	GLU	C	144	37.847	2.049	62.259	1.00	60.83	O
ATOM	13272	N	SER	C	145	39.234	2.397	60.504	1.00	58.97	N
ATOM	13273	CA	SER	C	145	38.552	1.542	59.544	1.00	57.62	C
ATOM	13275	CB	SER	C	145	37.951	2.412	58.441	1.00	58.80	C
ATOM	13278	OG	SER	C	145	36.697	2.930	58.829	1.00	66.00	O
ATOM	13280	C	SER	C	145	39.522	0.592	58.878	1.00	56.23	C
ATOM	13281	O	SER	C	145	40.648	0.982	58.555	1.00	57.81	O
ATOM	13283	N	PRO	C	146	39.087	-0.649	58.634	1.00	54.08	N
ATOM	13284	CA	PRO	C	146	39.866	-1.520	57.764	1.00	53.84	C
ATOM	13286	CB	PRO	C	146	39.318	-2.912	58.076	1.00	53.93	C
ATOM	13289	CG	PRO	C	146	37.921	-2.677	58.529	1.00	54.99	C
ATOM	13292	CD	PRO	C	146	37.883	-1.313	59.161	1.00	53.90	C
ATOM	13295	C	PRO	C	146	39.669	-1.159	56.295	1.00	53.49	C
ATOM	13296	O	PRO	C	146	38.703	-0.482	55.957	1.00	53.16	O
ATOM	13297	N	PRO	C	147	40.562	-1.637	55.416	1.00	55.44	N
ATOM	13298	CA	PRO	C	147	40.616	-1.167	54.030	1.00	55.00	C
ATOM	13300	CB	PRO	C	147	41.714	-2.038	53.405	1.00	55.62	C
ATOM	13303	CG	PRO	C	147	42.539	-2.479	54.534	1.00	57.05	C
ATOM	13306	CD	PRO	C	147	41.590	-2.661	55.674	1.00	56.94	C
ATOM	13309	C	PRO	C	147	39.320	-1.266	53.215	1.00	54.73	C
ATOM	13310	O	PRO	C	147	38.941	-0.298	52.544	1.00	57.19	O
ATOM	13311	N	GLY	C	148	38.652	-2.411	53.249	1.00	52.29	N
ATOM	13312	CA	GLY	C	148	37.464	-2.595	52.408	1.00	52.17	C
ATOM	13315	C	GLY	C	148	36.237	-1.789	52.824	1.00	50.22	C
ATOM	13316	O	GLY	C	148	35.320	-1.594	52.040	1.00	46.84	O
ATOM	13318	N	SER	C	149	36.237	-1.310	54.062	1.00	50.79	N
ATOM	13319	CA	SER	C	149	35.034	-0.845	54.733	1.00	51.54	C
ATOM	13321	CB	SER	C	149	35.307	-0.734	56.238	1.00	52.67	C
ATOM	13324	OG	SER	C	149	36.156	0.374	56.504	1.00	53.58	O
ATOM	13326	C	SER	C	149	34.540	0.504	54.230	1.00	51.45	C
ATOM	13327	O	SER	C	149	35.192	1.177	53.433	1.00	52.31	O
ATOM	13329	N	SER	C	150	33.400	0.918	54.757	1.00	50.20	N
ATOM	13330	CA	SER	C	150	32.718	2.076	54.246	1.00	50.72	C
ATOM	13332	CB	SER	C	150	31.914	1.653	53.026	1.00	51.30	C
ATOM	13335	OG	SER	C	150	31.170	2.752	52.557	1.00	57.24	O
ATOM	13337	C	SER	C	150	31.780	2.701	55.274	1.00	49.72	C
ATOM	13338	O	SER	C	150	30.622	2.963	54.966	1.00	49.54	O
ATOM	13340	N	PRO	C	151	32.279	2.961	56.492	1.00	47.89	N
ATOM	13341	CA	PRO	C	151	31.375	3.391	57.546	1.00	47.74	C
ATOM	13343	CB	PRO	C	151	32.236	3.256	58.801	1.00	47.05	C
ATOM	13346	CG	PRO	C	151	33.612	3.492	58.314	1.00	46.59	C
ATOM	13349	CD	PRO	C	151	33.674	2.879	56.966	1.00	47.73	C
ATOM	13352	C	PRO	C	151	30.860	4.827	57.380	1.00	46.51	C
ATOM	13353	O	PRO	C	151	31.380	5.591	56.570	1.00	44.35	O
ATOM	13354	N	SER	C	152	29.789	5.135	58.107	1.00	47.30	N
ATOM	13355	CA	SER	C	152	29.282	6.494	58.285	1.00	49.22	C
ATOM	13357	CB	SER	C	152	27.880	6.724	57.679	1.00	49.04	C
ATOM	13360	OG	SER	C	152	27.697	6.074	56.434	1.00	56.60	O
ATOM	13362	C	SER	C	152	29.148	6.603	59.771	1.00	50.48	C
ATOM	13363	O	SER	C	152	29.031	5.591	60.455	1.00	50.84	O
ATOM	13365	N	VAL	C	153	29.116	7.828	60.272	1.00	52.23	N
ATOM	13366	CA	VAL	C	153	29.083	8.051	61.700	1.00	51.85	C
ATOM	13368	CB	VAL	C	153	30.483	8.458	62.225	1.00	50.48	C
ATOM	13370	CG1	VAL	C	153	31.040	9.642	61.457	1.00	52.69	C

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ATOM	13374	CG2	VAL	C	153	30.433	8.752	63.698	1.00	52.75	C
ATOM	13378	C	VAL	C	153	28.024	9.092	62.031	1.00	52.30	C
ATOM	13379	O	VAL	C	153	27.772	10.003	61.247	1.00	48.78	O
ATOM	13381	N	GLN	C	154	27.380	8.904	63.180	1.00	53.85	N
ATOM	13382	CA	GLN	C	154	26.485	9.892	63.751	1.00	54.16	C
ATOM	13384	CB	GLN	C	154	25.026	9.537	63.502	1.00	54.93	C
ATOM	13387	CG	GLN	C	154	24.088	10.066	64.583	1.00	53.16	C
ATOM	13390	CD	GLN	C	154	22.652	9.871	64.241	1.00	50.89	C
ATOM	13391	OE1	GLN	C	154	22.007	8.953	64.737	1.00	53.15	O
ATOM	13392	NE2	GLN	C	154	22.131	10.735	63.394	1.00	39.18	N
ATOM	13395	C	GLN	C	154	26.724	9.934	65.242	1.00	56.50	C
ATOM	13396	O	GLN	C	154	26.533	8.935	65.939	1.00	57.26	O
ATOM	13398	N	CYS	C	155	27.121	11.100	65.726	1.00	57.78	N
ATOM	13399	CA	CYS	C	155	27.325	11.307	67.143	1.00	56.92	C
ATOM	13401	CB	CYS	C	155	28.694	11.905	67.380	1.00	57.67	C
ATOM	13404	SG	CYS	C	155	29.955	10.746	66.917	1.00	61.13	S
ATOM	13406	C	CYS	C	155	26.250	12.214	67.688	1.00	57.19	C
ATOM	13407	O	CYS	C	155	25.771	13.133	67.018	1.00	55.37	O
ATOM	13409	N	ARG	C	156	25.875	11.932	68.922	1.00	57.40	N
ATOM	13410	CA	ARG	C	156	24.841	12.660	69.605	1.00	56.08	C
ATOM	13412	CB	ARG	C	156	23.671	11.705	69.799	1.00	56.11	C
ATOM	13415	CG	ARG	C	156	22.543	12.210	70.658	1.00	59.89	C
ATOM	13418	CD	ARG	C	156	21.253	11.382	70.489	1.00	63.64	C
ATOM	13421	NE	ARG	C	156	21.484	10.021	69.980	1.00	68.96	N
ATOM	13423	CZ	ARG	C	156	20.962	9.505	68.862	1.00	69.73	C
ATOM	13424	NH1	ARG	C	156	20.138	10.201	68.078	1.00	64.69	N
ATOM	13427	NH2	ARG	C	156	21.264	8.258	68.527	1.00	75.77	N
ATOM	13430	C	ARG	C	156	25.464	13.118	70.926	1.00	54.21	C
ATOM	13431	O	ARG	C	156	25.943	12.282	71.697	1.00	52.54	O
ATOM	13433	N	SER	C	157	25.514	14.437	71.157	1.00	52.79	N
ATOM	13434	CA	SER	C	157	26.035	14.999	72.429	1.00	52.24	C
ATOM	13436	CB	SER	C	157	26.209	16.528	72.325	1.00	53.85	C
ATOM	13439	OG	SER	C	157	24.962	17.211	72.264	1.00	55.35	O
ATOM	13441	C	SER	C	157	25.127	14.648	73.617	1.00	49.81	C
ATOM	13442	O	SER	C	157	24.094	14.010	73.455	1.00	50.61	O
ATOM	13444	N	PRO	C	158	25.510	15.049	74.828	1.00	47.61	N
ATOM	13445	CA	PRO	C	158	24.577	14.786	75.926	1.00	46.50	C
ATOM	13447	CB	PRO	C	158	25.363	15.206	77.177	1.00	44.45	C
ATOM	13450	CG	PRO	C	158	26.807	15.244	76.732	1.00	47.62	C
ATOM	13453	CD	PRO	C	158	26.762	15.661	75.296	1.00	49.56	C
ATOM	13456	C	PRO	C	158	23.259	15.558	75.805	1.00	44.87	C
ATOM	13457	O	PRO	C	158	22.320	15.281	76.553	1.00	44.21	O
ATOM	13458	N	ARG	C	159	23.184	16.503	74.871	1.00	43.29	N
ATOM	13459	CA	ARG	C	159	21.946	17.248	74.630	1.00	43.47	C
ATOM	13461	CB	ARG	C	159	22.263	18.680	74.225	1.00	38.69	C
ATOM	13464	CG	ARG	C	159	22.867	19.454	75.363	1.00	39.57	C
ATOM	13467	CD	ARG	C	159	23.619	20.649	74.859	1.00	46.59	C
ATOM	13470	NE	ARG	C	159	22.789	21.472	73.985	1.00	52.09	N
ATOM	13472	CZ	ARG	C	159	23.241	22.245	72.998	1.00	53.47	C
ATOM	13473	NH1	ARG	C	159	22.373	22.943	72.276	1.00	55.12	N
ATOM	13476	NH2	ARG	C	159	24.543	22.328	72.722	1.00	50.97	N
ATOM	13479	C	ARG	C	159	21.048	16.591	73.593	1.00	42.68	C
ATOM	13480	O	ARG	C	159	19.992	17.112	73.276	1.00	41.59	O
ATOM	13482	N	GLY	C	160	21.461	15.447	73.064	1.00	44.46	N
ATOM	13483	CA	GLY	C	160	20.621	14.708	72.140	1.00	46.94	C
ATOM	13486	C	GLY	C	160	20.629	15.230	70.713	1.00	48.82	C
ATOM	13487	O	GLY	C	160	19.939	14.673	69.859	1.00	49.55	O
ATOM	13489	N	LYS	C	161	21.405	16.285	70.445	1.00	50.66	N
ATOM	13490	CA	LYS	C	161	21.554	16.821	69.087	1.00	51.33	C
ATOM	13492	CB	LYS	C	161	21.989	18.286	69.118	1.00	52.12	C
ATOM	13495	CG	LYS	C	161	20.814	19.259	69.051	1.00	54.16	C
ATOM	13498	CD	LYS	C	161	21.059	20.552	69.833	1.00	54.75	C
ATOM	13501	CE	LYS	C	161	20.208	21.712	69.279	1.00	60.67	C

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ATOM	13504	NZ	LYS	C	161	18.936	21.257	68.624	1.00	62.40	N
ATOM	13508	C	LYS	C	161	22.517	15.977	68.246	1.00	52.08	C
ATOM	13509	O	LYS	C	161	23.698	15.823	68.577	1.00	51.42	O
ATOM	13511	N	ASN	C	162	21.973	15.418	67.165	1.00	53.76	N
ATOM	13512	CA	ASN	C	162	22.719	14.558	66.248	1.00	53.27	C
ATOM	13514	CB	ASN	C	162	21.762	13.682	65.414	1.00	52.35	C
ATOM	13517	CG	ASN	C	162	21.140	12.541	66.232	1.00	54.54	C
ATOM	13518	OD1	ASN	C	162	19.929	12.431	66.352	1.00	56.59	O
ATOM	13519	ND2	ASN	C	162	21.980	11.697	66.801	1.00	64.74	N
ATOM	13522	C	ASN	C	162	23.632	15.371	65.335	1.00	53.02	C
ATOM	13523	O	ASN	C	162	23.293	16.464	64.904	1.00	52.72	O
ATOM	13525	N	ILE	C	163	24.810	14.825	65.076	1.00	54.51	N
ATOM	13526	CA	ILE	C	163	25.796	15.426	64.182	1.00	54.29	C
ATOM	13528	CB	ILE	C	163	26.833	16.317	64.956	1.00	55.78	C
ATOM	13530	CG1	ILE	C	163	28.259	16.124	64.434	1.00	56.60	C
ATOM	13533	CD1	ILE	C	163	29.290	16.963	65.166	1.00	58.16	C
ATOM	13537	CG2	ILE	C	163	26.826	16.026	66.463	1.00	59.34	C
ATOM	13541	C	ILE	C	163	26.429	14.256	63.430	1.00	52.97	C
ATOM	13542	O	ILE	C	163	26.642	13.185	64.011	1.00	52.84	O
ATOM	13544	N	GLN	C	164	26.708	14.457	62.144	1.00	51.29	N
ATOM	13545	CA	GLN	C	164	26.970	13.348	61.228	1.00	51.18	C
ATOM	13547	CB	GLN	C	164	25.715	13.058	60.400	1.00	49.19	C
ATOM	13550	CG	GLN	C	164	24.463	12.853	61.257	1.00	49.09	C
ATOM	13553	CD	GLN	C	164	23.235	12.547	60.446	1.00	48.60	C
ATOM	13554	OE1	GLN	C	164	22.120	12.617	60.949	1.00	45.05	O
ATOM	13555	NE2	GLN	C	164	23.429	12.201	59.181	1.00	42.88	N
ATOM	13558	C	GLN	C	164	28.143	13.602	60.292	1.00	52.81	C
ATOM	13559	O	GLN	C	164	28.612	14.730	60.147	1.00	54.69	O
ATOM	13561	N	GLY	C	165	28.605	12.536	59.645	1.00	53.15	N
ATOM	13562	CA	GLY	C	165	29.761	12.618	58.765	1.00	51.77	C
ATOM	13565	C	GLY	C	165	30.208	11.267	58.257	1.00	50.80	C
ATOM	13566	O	GLY	C	165	29.573	10.249	58.541	1.00	50.17	O
ATOM	13568	N	GLY	C	166	31.305	11.276	57.501	1.00	49.63	N
ATOM	13569	CA	GLY	C	166	31.852	10.072	56.877	1.00	50.14	C
ATOM	13572	C	GLY	C	166	32.712	9.269	57.821	1.00	49.13	C
ATOM	13573	O	GLY	C	166	32.198	8.633	58.735	1.00	48.51	O
ATOM	13575	N	LYS	C	167	34.022	9.287	57.579	1.00	50.12	N
ATOM	13576	CA	LYS	C	167	35.004	8.694	58.493	1.00	51.62	C
ATOM	13578	CB	LYS	C	167	36.231	8.219	57.716	1.00	51.14	C
ATOM	13581	CG	LYS	C	167	35.879	7.157	56.684	1.00	50.23	C
ATOM	13584	CD	LYS	C	167	37.022	6.193	56.362	1.00	50.34	C
ATOM	13587	CE	LYS	C	167	37.566	6.339	54.943	1.00	53.65	C
ATOM	13590	NZ	LYS	C	167	37.725	4.997	54.263	1.00	52.26	N
ATOM	13594	C	LYS	C	167	35.414	9.699	59.560	1.00	51.64	C
ATOM	13595	O	LYS	C	167	36.056	9.349	60.545	1.00	50.45	O
ATOM	13597	N	THR	C	168	35.030	10.951	59.345	1.00	54.51	N
ATOM	13598	CA	THR	C	168	35.330	12.037	60.260	1.00	55.70	C
ATOM	13600	CB	THR	C	168	36.499	12.885	59.715	1.00	55.88	C
ATOM	13602	OG1	THR	C	168	37.732	12.253	60.079	1.00	58.05	O
ATOM	13604	CG2	THR	C	168	36.488	14.322	60.268	1.00	56.12	C
ATOM	13608	C	THR	C	168	34.105	12.915	60.485	1.00	56.05	C
ATOM	13609	O	THR	C	168	33.313	13.156	59.570	1.00	56.23	O
ATOM	13611	N	LEU	C	169	33.954	13.360	61.726	1.00	57.16	N
ATOM	13612	CA	LEU	C	169	33.083	14.481	62.051	1.00	59.11	C
ATOM	13614	CB	LEU	C	169	31.708	14.011	62.551	1.00	60.26	C
ATOM	13617	CG	LEU	C	169	31.620	13.203	63.845	1.00	59.74	C
ATOM	13619	CD1	LEU	C	169	31.716	14.080	65.070	1.00	63.90	C
ATOM	13623	CD2	LEU	C	169	30.319	12.452	63.870	1.00	62.44	C
ATOM	13627	C	LEU	C	169	33.790	15.353	63.077	1.00	57.74	C
ATOM	13628	O	LEU	C	169	34.628	14.868	63.842	1.00	54.79	O
ATOM	13630	N	SER	C	170	33.449	16.638	63.069	1.00	58.40	N
ATOM	13631	CA	SER	C	170	34.145	17.635	63.858	1.00	59.45	C
ATOM	13633	CB	SER	C	170	35.186	18.324	62.990	1.00	58.68	C

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ATOM	13636	OG	SER	C	170	35.812	19.369	63.719	1.00	66.56	O
ATOM	13638	C	SER	C	170	33.214	18.702	64.395	1.00	59.30	C
ATOM	13639	O	SER	C	170	32.517	19.342	63.623	1.00	61.92	O
ATOM	13641	N	VAL	C	171	33.213	18.902	65.709	1.00	60.36	N
ATOM	13642	CA	VAL	C	171	32.604	20.093	66.304	1.00	61.92	C
ATOM	13644	CB	VAL	C	171	31.946	19.800	67.667	1.00	62.56	C
ATOM	13646	CG1	VAL	C	171	31.675	21.111	68.441	1.00	64.73	C
ATOM	13650	CG2	VAL	C	171	30.664	19.013	67.471	1.00	63.91	C
ATOM	13654	C	VAL	C	171	33.683	21.135	66.527	1.00	62.32	C
ATOM	13655	O	VAL	C	171	34.661	20.861	67.223	1.00	64.51	O
ATOM	13657	N	SER	C	172	33.514	22.320	65.940	1.00	61.27	N
ATOM	13658	CA	SER	C	172	34.406	23.444	66.229	1.00	62.74	C
ATOM	13660	CB	SER	C	172	34.711	24.258	64.971	1.00	62.68	C
ATOM	13663	OG	SER	C	172	33.522	24.736	64.381	1.00	64.10	O
ATOM	13665	C	SER	C	172	33.754	24.326	67.282	1.00	64.49	C
ATOM	13666	O	SER	C	172	32.520	24.449	67.323	1.00	67.37	O
ATOM	13668	N	GLN	C	173	34.572	24.931	68.137	1.00	61.64	N
ATOM	13669	CA	GLN	C	173	34.050	25.722	69.244	1.00	59.97	C
ATOM	13671	CB	GLN	C	173	33.278	26.931	68.723	1.00	61.20	C
ATOM	13674	CG	GLN	C	173	34.083	27.852	67.871	1.00	60.16	C
ATOM	13677	CD	GLN	C	173	33.290	29.058	67.500	1.00	60.41	C
ATOM	13678	OE1	GLN	C	173	32.284	28.956	66.793	1.00	57.88	O
ATOM	13679	NE2	GLN	C	173	33.719	30.219	67.985	1.00	61.41	N
ATOM	13682	C	GLN	C	173	33.156	24.895	70.176	1.00	58.42	C
ATOM	13683	O	GLN	C	173	31.954	25.138	70.301	1.00	57.60	O
ATOM	13685	N	LEU	C	174	33.767	23.927	70.842	1.00	57.29	N
ATOM	13686	CA	LEU	C	174	33.060	23.051	71.770	1.00	55.11	C
ATOM	13688	CB	LEU	C	174	34.032	21.984	72.284	1.00	54.98	C
ATOM	13691	CG	LEU	C	174	33.514	20.660	72.857	1.00	57.86	C
ATOM	13693	CD1	LEU	C	174	32.168	20.248	72.279	1.00	57.73	C
ATOM	13697	CD2	LEU	C	174	34.558	19.548	72.648	1.00	56.96	C
ATOM	13701	C	LEU	C	174	32.479	23.879	72.917	1.00	51.79	C
ATOM	13702	O	LEU	C	174	33.158	24.752	73.442	1.00	53.25	O
ATOM	13704	N	GLU	C	175	31.221	23.617	73.278	1.00	49.51	N
ATOM	13705	CA	GLU	C	175	30.515	24.363	74.339	1.00	47.81	C
ATOM	13707	CB	GLU	C	175	29.102	24.732	73.891	1.00	46.65	C
ATOM	13710	CG	GLU	C	175	29.026	25.677	72.721	1.00	49.04	C
ATOM	13713	CD	GLU	C	175	27.613	25.804	72.179	1.00	51.02	C
ATOM	13714	OE1	GLU	C	175	27.064	24.786	71.716	1.00	58.42	O
ATOM	13715	OE2	GLU	C	175	27.052	26.918	72.210	1.00	57.27	O
ATOM	13716	C	GLU	C	175	30.390	23.562	75.631	1.00	44.63	C
ATOM	13717	O	GLU	C	175	30.128	22.354	75.613	1.00	39.63	O
ATOM	13719	N	LEU	C	176	30.524	24.259	76.756	1.00	44.39	N
ATOM	13720	CA	LEU	C	176	30.380	23.638	78.074	1.00	43.53	C
ATOM	13722	CB	LEU	C	176	30.285	24.706	79.164	1.00	41.00	C
ATOM	13725	CG	LEU	C	176	30.257	24.229	80.617	1.00	41.24	C
ATOM	13727	CD1	LEU	C	176	31.241	23.066	80.863	1.00	39.80	C
ATOM	13731	CD2	LEU	C	176	30.551	25.397	81.560	1.00	38.79	C
ATOM	13735	C	LEU	C	176	29.160	22.729	78.148	1.00	44.00	C
ATOM	13736	O	LEU	C	176	29.223	21.630	78.708	1.00	42.30	O
ATOM	13738	N	GLN	C	177	28.053	23.177	77.565	1.00	45.38	N
ATOM	13739	CA	GLN	C	177	26.797	22.451	77.705	1.00	47.50	C
ATOM	13741	CB	GLN	C	177	25.603	23.315	77.296	1.00	49.76	C
ATOM	13744	CG	GLN	C	177	25.538	23.635	75.807	1.00	55.28	C
ATOM	13747	CD	GLN	C	177	24.236	24.285	75.410	1.00	50.75	C
ATOM	13748	OE1	GLN	C	177	23.259	24.259	76.160	1.00	51.96	O
ATOM	13749	NE2	GLN	C	177	24.215	24.870	74.217	1.00	54.32	N
ATOM	13752	C	GLN	C	177	26.759	21.130	76.960	1.00	47.08	C
ATOM	13753	O	GLN	C	177	25.878	20.313	77.216	1.00	47.81	O
ATOM	13755	N	ASP	C	178	27.698	20.935	76.035	1.00	48.66	N
ATOM	13756	CA	ASP	C	178	27.913	19.638	75.387	1.00	47.73	C
ATOM	13758	CB	ASP	C	178	28.383	19.837	73.947	1.00	49.15	C
ATOM	13761	CG	ASP	C	178	27.313	20.434	73.063	1.00	53.90	C

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ATOM	13762	OD1	ASP	C	178	26.238	19.801	72.937	1.00	57.06	O
ATOM	13763	OD2	ASP	C	178	27.558	21.522	72.483	1.00	54.50	O
ATOM	13764	C	ASP	C	178	28.932	18.768	76.132	1.00	45.84	C
ATOM	13765	O	ASP	C	178	29.294	17.700	75.647	1.00	44.87	O
ATOM	13767	N	SER	C	179	29.402	19.210	77.298	1.00	44.40	N
ATOM	13768	CA	SER	C	179	30.276	18.366	78.102	1.00	44.05	C
ATOM	13770	CB	SER	C	179	30.708	19.046	79.381	1.00	39.93	C
ATOM	13773	OG	SER	C	179	31.755	18.292	79.959	1.00	35.87	O
ATOM	13775	C	SER	C	179	29.553	17.096	78.496	1.00	45.97	C
ATOM	13776	O	SER	C	179	28.377	17.139	78.850	1.00	47.73	O
ATOM	13778	N	GLY	C	180	30.258	15.973	78.450	1.00	46.96	N
ATOM	13779	CA	GLY	C	180	29.717	14.726	78.962	1.00	47.05	C
ATOM	13782	C	GLY	C	180	29.989	13.557	78.057	1.00	48.32	C
ATOM	13783	O	GLY	C	180	30.950	13.556	77.290	1.00	50.20	O
ATOM	13785	N	THR	C	181	29.126	12.556	78.166	1.00	51.42	N
ATOM	13786	CA	THR	C	181	29.191	11.357	77.347	1.00	51.57	C
ATOM	13788	CB	THR	C	181	28.468	10.176	78.019	1.00	50.15	C
ATOM	13790	OG1	THR	C	181	29.088	9.868	79.267	1.00	48.31	O
ATOM	13792	CG2	THR	C	181	28.520	8.951	77.136	1.00	52.72	C
ATOM	13796	C	THR	C	181	28.484	11.599	76.036	1.00	52.53	C
ATOM	13797	O	THR	C	181	27.288	11.889	76.024	1.00	54.75	O
ATOM	13799	N	TRP	C	182	29.213	11.458	74.937	1.00	53.02	N
ATOM	13800	CA	TRP	C	182	28.601	11.436	73.619	1.00	54.10	C
ATOM	13802	CB	TRP	C	182	29.541	12.043	72.586	1.00	55.45	C
ATOM	13805	CG	TRP	C	182	29.727	13.504	72.758	1.00	56.76	C
ATOM	13806	CD1	TRP	C	182	30.085	14.155	73.898	1.00	60.16	C
ATOM	13808	NE1	TRP	C	182	30.149	15.503	73.672	1.00	59.10	N
ATOM	13810	CE2	TRP	C	182	29.843	15.745	72.362	1.00	53.99	C
ATOM	13811	CD2	TRP	C	182	29.576	14.506	71.756	1.00	55.33	C
ATOM	13812	CE3	TRP	C	182	29.224	14.478	70.404	1.00	59.35	C
ATOM	13814	CZ3	TRP	C	182	29.164	15.671	69.711	1.00	59.52	C
ATOM	13816	CH2	TRP	C	182	29.449	16.890	70.344	1.00	58.91	C
ATOM	13818	CZ2	TRP	C	182	29.787	16.943	71.666	1.00	57.26	C
ATOM	13820	C	TRP	C	182	28.282	9.986	73.273	1.00	55.33	C
ATOM	13821	O	TRP	C	182	28.917	9.065	73.791	1.00	55.48	O
ATOM	13823	N	THR	C	183	27.292	9.787	72.410	1.00	55.73	N
ATOM	13824	CA	THR	C	183	26.933	8.456	71.952	1.00	55.94	C
ATOM	13826	CB	THR	C	183	25.531	8.068	72.443	1.00	57.10	C
ATOM	13828	OG1	THR	C	183	25.506	8.113	73.877	1.00	56.95	O
ATOM	13830	CG2	THR	C	183	25.143	6.658	71.961	1.00	56.74	C
ATOM	13834	C	THR	C	183	26.964	8.447	70.442	1.00	55.99	C
ATOM	13835	O	THR	C	183	26.160	9.128	69.814	1.00	58.49	O
ATOM	13837	N	CYS	C	184	27.897	7.692	69.862	1.00	55.92	N
ATOM	13838	CA	CYS	C	184	28.028	7.604	68.404	1.00	56.60	C
ATOM	13840	CB	CYS	C	184	29.453	7.931	67.966	1.00	58.31	C
ATOM	13843	SG	CYS	C	184	30.084	9.514	68.543	1.00	65.31	S
ATOM	13845	C	CYS	C	184	27.652	6.230	67.846	1.00	55.76	C
ATOM	13846	O	CYS	C	184	28.143	5.205	68.309	1.00	56.36	O
ATOM	13848	N	THR	C	185	26.790	6.227	66.836	1.00	52.97	N
ATOM	13849	CA	THR	C	185	26.487	5.032	66.082	1.00	52.39	C
ATOM	13851	CB	THR	C	185	25.005	4.987	65.731	1.00	51.66	C
ATOM	13853	OG1	THR	C	185	24.236	5.242	66.904	1.00	55.04	O
ATOM	13855	CG2	THR	C	185	24.626	3.640	65.164	1.00	52.45	C
ATOM	13859	C	THR	C	185	27.276	5.038	64.782	1.00	52.20	C
ATOM	13860	O	THR	C	185	27.112	5.932	63.953	1.00	54.60	O
ATOM	13862	N	VAL	C	186	28.145	4.053	64.602	1.00	52.40	N
ATOM	13863	CA	VAL	C	186	28.777	3.833	63.299	1.00	51.70	C
ATOM	13865	CB	VAL	C	186	30.227	3.320	63.427	1.00	51.97	C
ATOM	13867	CG1	VAL	C	186	30.646	2.516	62.219	1.00	52.91	C
ATOM	13871	CG2	VAL	C	186	31.174	4.491	63.617	1.00	53.74	C
ATOM	13875	C	VAL	C	186	27.890	2.863	62.525	1.00	51.87	C
ATOM	13876	O	VAL	C	186	27.232	2.017	63.119	1.00	54.33	O
ATOM	13878	N	LEU	C	187	27.870	3.014	61.202	1.00	49.51	N

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ATOM	13879	CA	LEU	C	187	26.944	2.312	60.325	1.00	46.53	C
ATOM	13881	CB	LEU	C	187	25.860	3.285	59.871	1.00	46.55	C
ATOM	13884	CG	LEU	C	187	24.714	2.822	58.980	1.00	45.89	C
ATOM	13886	CD1	LEU	C	187	23.966	1.675	59.621	1.00	49.43	C
ATOM	13890	CD2	LEU	C	187	23.780	3.986	58.754	1.00	42.85	C
ATOM	13894	C	LEU	C	187	27.709	1.783	59.122	1.00	45.36	C
ATOM	13895	O	LEU	C	187	28.382	2.541	58.414	1.00	42.71	O
ATOM	13897	N	GLN	C	188	27.606	0.474	58.917	1.00	44.20	N
ATOM	13898	CA	GLN	C	188	28.295	-0.230	57.846	1.00	45.92	C
ATOM	13900	CB	GLN	C	188	29.492	-0.999	58.428	1.00	44.75	C
ATOM	13903	CG	GLN	C	188	30.114	-2.072	57.560	1.00	40.45	C
ATOM	13906	CD	GLN	C	188	30.611	-1.544	56.240	1.00	34.48	C
ATOM	13907	OE1	GLN	C	188	30.129	-1.937	55.183	1.00	42.07	O
ATOM	13908	NE2	GLN	C	188	31.582	-0.657	56.290	1.00	26.66	N
ATOM	13911	C	GLN	C	188	27.232	-1.148	57.257	1.00	48.74	C
ATOM	13912	O	GLN	C	188	26.934	-2.211	57.827	1.00	49.49	O
ATOM	13914	N	ASN	C	189	26.642	-0.692	56.142	1.00	51.03	N
ATOM	13915	CA	ASN	C	189	25.413	-1.256	55.553	1.00	51.55	C
ATOM	13917	CB	ASN	C	189	25.676	-2.697	55.060	1.00	54.40	C
ATOM	13920	CG	ASN	C	189	26.290	-2.747	53.664	1.00	56.61	C
ATOM	13921	OD1	ASN	C	189	26.306	-1.753	52.937	1.00	57.14	O
ATOM	13922	ND2	ASN	C	189	26.792	-3.920	53.286	1.00	53.90	N
ATOM	13925	C	ASN	C	189	24.175	-1.169	56.489	1.00	52.25	C
ATOM	13926	O	ASN	C	189	24.025	-0.211	57.254	1.00	50.29	O
ATOM	13928	N	GLN	C	190	23.264	-2.133	56.363	1.00	53.26	N
ATOM	13929	CA	GLN	C	190	22.233	-2.430	57.364	1.00	53.65	C
ATOM	13931	CB	GLN	C	190	21.779	-3.893	57.182	1.00	53.30	C
ATOM	13934	CG	GLN	C	190	20.279	-4.140	57.320	1.00	57.71	C
ATOM	13937	CD	GLN	C	190	19.801	-5.469	56.659	1.00	60.12	C
ATOM	13938	OE1	GLN	C	190	20.177	-5.785	55.519	1.00	68.35	O
ATOM	13939	NE2	GLN	C	190	18.948	-6.224	57.371	1.00	54.81	N
ATOM	13942	C	GLN	C	190	22.740	-2.206	58.806	1.00	52.57	C
ATOM	13943	O	GLN	C	190	22.121	-1.475	59.574	1.00	53.06	O
ATOM	13945	N	LYS	C	191	23.893	-2.798	59.130	1.00	51.26	N
ATOM	13946	CA	LYS	C	191	24.366	-2.982	60.520	1.00	50.33	C
ATOM	13948	CB	LYS	C	191	25.378	-4.132	60.557	1.00	51.36	C
ATOM	13951	CG	LYS	C	191	24.881	-5.444	59.999	1.00	51.36	C
ATOM	13954	CD	LYS	C	191	25.973	-6.152	59.210	1.00	52.98	C
ATOM	13957	CE	LYS	C	191	25.556	-7.573	58.849	1.00	56.10	C
ATOM	13960	NZ	LYS	C	191	25.402	-8.412	60.083	1.00	56.31	N
ATOM	13964	C	LYS	C	191	25.035	-1.772	61.192	1.00	48.05	C
ATOM	13965	O	LYS	C	191	25.643	-0.936	60.525	1.00	47.80	O
ATOM	13967	N	LYS	C	192	24.963	-1.733	62.526	1.00	45.81	N
ATOM	13968	CA	LYS	C	192	25.579	-0.672	63.323	1.00	46.03	C
ATOM	13970	CB	LYS	C	192	24.541	0.300	63.897	1.00	44.66	C
ATOM	13973	CG	LYS	C	192	23.234	0.419	63.151	1.00	47.30	C
ATOM	13976	CD	LYS	C	192	22.445	1.606	63.671	1.00	44.85	C
ATOM	13979	CE	LYS	C	192	20.989	1.548	63.286	1.00	45.32	C
ATOM	13982	NZ	LYS	C	192	20.428	2.916	63.195	1.00	43.18	N
ATOM	13986	C	LYS	C	192	26.366	-1.182	64.518	1.00	45.85	C
ATOM	13987	O	LYS	C	192	26.203	-2.301	64.979	1.00	45.34	O
ATOM	13989	N	VAL	C	193	27.184	-0.290	65.051	1.00	48.81	N
ATOM	13990	CA	VAL	C	193	27.940	-0.528	66.270	1.00	49.30	C
ATOM	13992	CB	VAL	C	193	29.374	-1.022	65.933	1.00	47.83	C
ATOM	13994	CG1	VAL	C	193	29.947	-0.279	64.745	1.00	48.63	C
ATOM	13998	CG2	VAL	C	193	30.287	-0.882	67.110	1.00	50.20	C
ATOM	14002	C	VAL	C	193	27.907	0.790	67.077	1.00	49.53	C
ATOM	14003	O	VAL	C	193	27.955	1.865	66.490	1.00	49.16	O
ATOM	14005	N	GLU	C	194	27.784	0.708	68.404	1.00	51.78	N
ATOM	14006	CA	GLU	C	194	27.653	1.912	69.239	1.00	53.26	C
ATOM	14008	CB	GLU	C	194	26.448	1.801	70.179	1.00	53.82	C
ATOM	14011	CG	GLU	C	194	25.765	3.138	70.458	1.00	55.02	C
ATOM	14014	CD	GLU	C	194	24.825	3.092	71.662	1.00	57.08	C

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ATOM	14015	OE1	GLU	C	194	25.344	3.124	72.806	1.00	58.59	O
ATOM	14016	OE2	GLU	C	194	23.580	3.040	71.462	1.00	52.08	O
ATOM	14017	C	GLU	C	194	28.915	2.181	70.055	1.00	53.30	C
ATOM	14018	O	GLU	C	194	29.534	1.264	70.578	1.00	53.86	O
ATOM	14020	N	PHE	C	195	29.286	3.452	70.146	1.00	54.73	N
ATOM	14021	CA	PHE	C	195	30.432	3.900	70.929	1.00	55.20	C
ATOM	14023	CB	PHE	C	195	31.439	4.581	70.020	1.00	53.63	C
ATOM	14026	CG	PHE	C	195	32.159	3.651	69.097	1.00	53.31	C
ATOM	14027	CD1	PHE	C	195	33.329	3.026	69.497	1.00	50.92	C
ATOM	14029	CE1	PHE	C	195	34.011	2.185	68.648	1.00	49.87	C
ATOM	14031	CZ	PHE	C	195	33.532	1.954	67.373	1.00	53.60	C
ATOM	14033	CE2	PHE	C	195	32.368	2.573	66.953	1.00	55.58	C
ATOM	14035	CD2	PHE	C	195	31.691	3.428	67.815	1.00	54.78	C
ATOM	14037	C	PHE	C	195	29.973	4.920	71.967	1.00	56.05	C
ATOM	14038	O	PHE	C	195	29.085	5.721	71.697	1.00	58.22	O
ATOM	14040	N	LYS	C	196	30.567	4.896	73.153	1.00	56.59	N
ATOM	14041	CA	LYS	C	196	30.411	6.006	74.088	1.00	57.72	C
ATOM	14043	CB	LYS	C	196	29.777	5.567	75.404	1.00	56.84	C
ATOM	14046	CG	LYS	C	196	28.278	5.340	75.268	1.00	61.21	C
ATOM	14049	CD	LYS	C	196	27.572	5.335	76.609	1.00	62.04	C
ATOM	14052	CE	LYS	C	196	26.103	5.760	76.490	1.00	63.05	C
ATOM	14055	NZ	LYS	C	196	25.589	6.237	77.822	1.00	64.58	N
ATOM	14059	C	LYS	C	196	31.761	6.630	74.314	1.00	57.71	C
ATOM	14060	O	LYS	C	196	32.777	5.946	74.338	1.00	58.77	O
ATOM	14062	N	ILE	C	197	31.774	7.941	74.456	1.00	59.12	N
ATOM	14063	CA	ILE	C	197	33.023	8.652	74.595	1.00	61.05	C
ATOM	14065	CB	ILE	C	197	33.650	8.914	73.217	1.00	60.77	C
ATOM	14067	CG1	ILE	C	197	35.032	9.538	73.361	1.00	62.63	C
ATOM	14070	CD1	ILE	C	197	35.667	9.879	72.034	1.00	63.56	C
ATOM	14074	CG2	ILE	C	197	32.756	9.795	72.362	1.00	63.71	C
ATOM	14078	C	ILE	C	197	32.767	9.938	75.363	1.00	61.22	C
ATOM	14079	O	ILE	C	197	31.947	10.761	74.954	1.00	63.17	O
ATOM	14081	N	ASP	C	198	33.460	10.078	76.493	1.00	61.92	N
ATOM	14082	CA	ASP	C	198	33.315	11.225	77.389	1.00	61.85	C
ATOM	14084	CB	ASP	C	198	33.735	10.836	78.812	1.00	61.19	C
ATOM	14087	CG	ASP	C	198	32.729	9.908	79.483	1.00	66.39	C
ATOM	14088	OD1	ASP	C	198	33.121	9.156	80.403	1.00	63.50	O
ATOM	14089	OD2	ASP	C	198	31.538	9.930	79.086	1.00	67.52	O
ATOM	14090	C	ASP	C	198	34.150	12.395	76.917	1.00	61.02	C
ATOM	14091	O	ASP	C	198	35.350	12.404	77.126	1.00	62.43	O
ATOM	14093	N	ILE	C	199	33.514	13.363	76.260	1.00	61.99	N
ATOM	14094	CA	ILE	C	199	34.177	14.610	75.885	1.00	62.43	C
ATOM	14096	CB	ILE	C	199	33.641	15.220	74.576	1.00	64.37	C
ATOM	14098	CG1	ILE	C	199	34.198	14.489	73.354	1.00	69.62	C
ATOM	14101	CD1	ILE	C	199	34.269	12.983	73.482	1.00	74.01	C
ATOM	14105	CG2	ILE	C	199	34.065	16.681	74.450	1.00	62.51	C
ATOM	14109	C	ILE	C	199	33.934	15.591	77.012	1.00	63.20	C
ATOM	14110	O	ILE	C	199	32.833	16.146	77.154	1.00	63.65	O
ATOM	14112	N	VAL	C	200	34.976	15.776	77.814	1.00	61.56	N
ATOM	14113	CA	VAL	C	200	34.967	16.676	78.945	1.00	58.21	C
ATOM	14115	CB	VAL	C	200	35.951	16.179	79.992	1.00	56.92	C
ATOM	14117	CG1	VAL	C	200	36.215	17.238	81.045	1.00	54.06	C
ATOM	14121	CG2	VAL	C	200	35.436	14.887	80.605	1.00	56.77	C
ATOM	14125	C	VAL	C	200	35.415	18.041	78.469	1.00	58.15	C
ATOM	14126	O	VAL	C	200	36.495	18.158	77.887	1.00	60.20	O
ATOM	14128	N	VAL	C	201	34.603	19.072	78.695	1.00	56.11	N
ATOM	14129	CA	VAL	C	201	35.046	20.430	78.375	1.00	55.47	C
ATOM	14131	CB	VAL	C	201	34.115	21.190	77.381	1.00	54.61	C
ATOM	14133	CG1	VAL	C	201	32.718	20.835	77.589	1.00	58.30	C
ATOM	14137	CG2	VAL	C	201	34.295	22.711	77.477	1.00	55.72	C
ATOM	14141	C	VAL	C	201	35.338	21.198	79.660	1.00	54.91	C
ATOM	14142	O	VAL	C	201	34.556	21.184	80.617	1.00	55.55	O
ATOM	14144	N	LEU	C	202	36.507	21.833	79.661	1.00	54.19	N

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ATOM	14145	CA	LEU	C	202	37.038	22.547	80.809	1.00	53.61	C
ATOM	14147	CB	LEU	C	202	38.562	22.359	80.883	1.00	55.10	C
ATOM	14150	CG	LEU	C	202	39.088	20.915	80.763	1.00	55.91	C
ATOM	14152	CD1	LEU	C	202	40.534	20.872	80.268	1.00	59.24	C
ATOM	14156	CD2	LEU	C	202	38.970	20.203	82.085	1.00	55.43	C
ATOM	14160	C	LEU	C	202	36.690	24.014	80.603	1.00	50.53	C
ATOM	14161	O	LEU	C	202	36.819	24.509	79.493	1.00	45.58	O
ATOM	14163	N	ALA	C	203	36.248	24.690	81.666	1.00	49.45	N
ATOM	14164	CA	ALA	C	203	35.725	26.049	81.558	1.00	48.94	C
ATOM	14166	CB	ALA	C	203	34.464	26.044	80.695	1.00	49.85	C
ATOM	14170	C	ALA	C	203	35.397	26.661	82.909	1.00	48.75	C
ATOM	14171	O	ALA	C	203	35.269	25.953	83.904	1.00	51.06	O
ATOM	14173	N	PHE	C	204	35.243	27.982	82.931	1.00	46.88	N
ATOM	14174	CA	PHE	C	204	34.678	28.665	84.089	1.00	44.42	C
ATOM	14176	CB	PHE	C	204	34.998	30.164	84.065	1.00	43.59	C
ATOM	14179	CG	PHE	C	204	36.445	30.474	84.271	1.00	41.29	C
ATOM	14180	CD1	PHE	C	204	37.012	30.355	85.529	1.00	41.92	C
ATOM	14182	CE1	PHE	C	204	38.355	30.627	85.735	1.00	41.92	C
ATOM	14184	CZ	PHE	C	204	39.147	31.031	84.671	1.00	40.62	C
ATOM	14186	CE2	PHE	C	204	38.592	31.157	83.406	1.00	41.05	C
ATOM	14188	CD2	PHE	C	204	37.247	30.878	83.209	1.00	40.69	C
ATOM	14190	C	PHE	C	204	33.180	28.472	84.017	1.00	43.70	C
ATOM	14191	O	PHE	C	204	32.628	28.441	82.929	1.00	44.89	O
ATOM	14193	N	GLN	C	205	32.514	28.375	85.161	1.00	41.85	N
ATOM	14194	CA	GLN	C	205	31.058	28.270	85.172	1.00	41.47	C
ATOM	14196	CB	GLN	C	205	30.555	28.033	86.580	1.00	40.99	C
ATOM	14199	CG	GLN	C	205	31.150	26.813	87.223	1.00	40.41	C
ATOM	14202	CD	GLN	C	205	30.457	26.449	88.495	1.00	38.27	C
ATOM	14203	OE1	GLN	C	205	29.376	26.950	88.800	1.00	36.94	O
ATOM	14204	NE2	GLN	C	205	31.076	25.571	89.255	1.00	41.62	N
ATOM	14207	C	GLN	C	205	30.354	29.500	84.606	1.00	42.28	C
ATOM	14208	O	GLN	C	205	29.230	29.407	84.085	1.00	42.60	O
ATOM	14210	N	LYS	C	206	30.999	30.653	84.721	1.00	44.49	N
ATOM	14211	CA	LYS	C	206	30.414	31.897	84.241	1.00	46.15	C
ATOM	14213	CB	LYS	C	206	30.145	32.842	85.421	1.00	48.93	C
ATOM	14216	CG	LYS	C	206	28.766	32.668	86.074	1.00	56.59	C
ATOM	14219	CD	LYS	C	206	27.563	32.894	85.102	1.00	65.83	C
ATOM	14222	CE	LYS	C	206	27.577	34.277	84.394	1.00	70.35	C
ATOM	14225	NZ	LYS	C	206	26.461	34.471	83.403	1.00	63.81	N
ATOM	14229	C	LYS	C	206	31.298	32.573	83.194	1.00	45.29	C
ATOM	14230	O	LYS	C	206	32.529	32.561	83.291	1.00	44.31	O
ATOM	14232	N	ALA	C	207	30.655	33.154	82.185	1.00	43.87	N
ATOM	14233	CA	ALA	C	207	31.370	33.903	81.155	1.00	44.67	C
ATOM	14235	CB	ALA	C	207	30.504	34.090	79.926	1.00	41.97	C
ATOM	14239	C	ALA	C	207	31.762	35.254	81.709	1.00	44.74	C
ATOM	14240	O	ALA	C	207	32.826	35.769	81.420	1.00	43.21	O
ATOM	14242	N	SER	C	208	30.872	35.819	82.511	1.00	47.30	N
ATOM	14243	CA	SER	C	208	31.007	37.180	82.957	1.00	47.65	C
ATOM	14245	CB	SER	C	208	30.285	38.115	81.994	1.00	47.36	C
ATOM	14248	OG	SER	C	208	30.415	39.462	82.420	1.00	53.29	O
ATOM	14250	C	SER	C	208	30.447	37.350	84.358	1.00	48.57	C
ATOM	14251	O	SER	C	208	29.727	36.494	84.891	1.00	50.08	O
ATOM	14253	N	SER	C	209	30.760	38.505	84.917	1.00	49.32	N
ATOM	14254	CA	SER	C	209	30.621	38.769	86.321	1.00	48.98	C
ATOM	14256	CB	SER	C	209	31.751	38.037	87.045	1.00	50.62	C
ATOM	14259	OG	SER	C	209	32.210	38.728	88.188	1.00	59.43	O
ATOM	14261	C	SER	C	209	30.713	40.286	86.491	1.00	47.64	C
ATOM	14262	O	SER	C	209	31.487	40.943	85.799	1.00	47.90	O
ATOM	14264	N	ILE	C	210	29.909	40.844	87.385	1.00	46.95	N
ATOM	14265	CA	ILE	C	210	29.902	42.287	87.597	1.00	47.27	C
ATOM	14267	CB	ILE	C	210	29.042	43.031	86.530	1.00	47.38	C
ATOM	14269	CG1	ILE	C	210	29.102	44.548	86.763	1.00	49.06	C
ATOM	14272	CD1	ILE	C	210	28.607	45.379	85.596	1.00	49.19	C

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ATOM	14276	CG2	ILE	C	210	27.597	42.528	86.520	1.00	46.24	C
ATOM	14280	C	ILE	C	210	29.446	42.661	89.009	1.00	46.41	C
ATOM	14281	O	ILE	C	210	28.397	42.225	89.479	1.00	45.11	O
ATOM	14283	N	VAL	C	211	30.246	43.489	89.672	1.00	46.59	N
ATOM	14284	CA	VAL	C	211	29.962	43.879	91.035	1.00	46.30	C
ATOM	14286	CB	VAL	C	211	30.907	43.149	92.044	1.00	46.18	C
ATOM	14288	CG1	VAL	C	211	32.351	43.226	91.608	1.00	47.36	C
ATOM	14292	CG2	VAL	C	211	30.733	43.682	93.460	1.00	48.64	C
ATOM	14296	C	VAL	C	211	29.999	45.403	91.130	1.00	44.55	C
ATOM	14297	O	VAL	C	211	30.917	46.046	90.634	1.00	40.49	O
ATOM	14299	N	TYR	C	212	28.942	45.946	91.730	1.00	45.51	N
ATOM	14300	CA	TYR	C	212	28.722	47.374	91.878	1.00	48.17	C
ATOM	14302	CB	TYR	C	212	27.258	47.732	91.553	1.00	47.46	C
ATOM	14305	CG	TYR	C	212	26.786	47.358	90.148	1.00	48.61	C
ATOM	14306	CD1	TYR	C	212	26.505	48.339	89.196	1.00	47.15	C
ATOM	14308	CE1	TYR	C	212	26.072	48.000	87.912	1.00	46.34	C
ATOM	14310	CZ	TYR	C	212	25.912	46.664	87.572	1.00	48.17	C
ATOM	14311	OH	TYR	C	212	25.487	46.307	86.314	1.00	47.91	O
ATOM	14313	CE2	TYR	C	212	26.180	45.672	88.494	1.00	47.49	C
ATOM	14315	CD2	TYR	C	212	26.612	46.019	89.775	1.00	50.98	C
ATOM	14317	C	TYR	C	212	29.032	47.672	93.340	1.00	49.98	C
ATOM	14318	O	TYR	C	212	28.768	46.819	94.187	1.00	50.87	O
ATOM	14320	N	LYS	C	213	29.570	48.860	93.644	1.00	51.40	N
ATOM	14321	CA	LYS	C	213	30.138	49.127	94.976	1.00	52.57	C
ATOM	14323	CB	LYS	C	213	31.559	48.533	95.041	1.00	53.08	C
ATOM	14326	CG	LYS	C	213	31.822	47.630	96.247	1.00	54.03	C
ATOM	14329	CD	LYS	C	213	30.942	46.381	96.218	1.00	53.27	C
ATOM	14332	CE	LYS	C	213	31.320	45.380	97.282	1.00	54.67	C
ATOM	14335	NZ	LYS	C	213	30.348	44.249	97.333	1.00	55.09	N
ATOM	14339	C	LYS	C	213	30.196	50.612	95.379	1.00	53.57	C
ATOM	14340	O	LYS	C	213	30.429	51.483	94.549	1.00	52.52	O
ATOM	14342	N	LYS	C	214	29.981	50.883	96.666	1.00	55.25	N
ATOM	14343	CA	LYS	C	214	30.251	52.205	97.243	1.00	55.95	C
ATOM	14345	CB	LYS	C	214	29.592	52.366	98.621	1.00	56.83	C
ATOM	14348	CG	LYS	C	214	28.067	52.405	98.612	1.00	58.82	C
ATOM	14351	CD	LYS	C	214	27.471	52.174	100.009	1.00	57.13	C
ATOM	14354	CE	LYS	C	214	25.950	52.033	99.949	1.00	57.89	C
ATOM	14357	NZ	LYS	C	214	25.388	51.233	101.062	1.00	59.14	N
ATOM	14361	C	LYS	C	214	31.756	52.357	97.402	1.00	56.14	C
ATOM	14362	O	LYS	C	214	32.459	51.377	97.661	1.00	55.57	O
ATOM	14364	N	GLU	C	215	32.248	53.584	97.264	1.00	56.42	N
ATOM	14365	CA	GLU	C	215	33.672	53.853	97.440	1.00	56.75	C
ATOM	14367	CB	GLU	C	215	33.974	55.340	97.242	1.00	56.84	C
ATOM	14370	CG	GLU	C	215	35.464	55.690	97.250	1.00	57.52	C
ATOM	14373	CD	GLU	C	215	35.724	57.190	97.290	1.00	59.53	C
ATOM	14374	OE1	GLU	C	215	34.754	57.977	97.260	1.00	65.50	O
ATOM	14375	OE2	GLU	C	215	36.905	57.587	97.355	1.00	65.80	O
ATOM	14376	C	GLU	C	215	34.111	53.421	98.836	1.00	55.85	C
ATOM	14377	O	GLU	C	215	33.486	53.793	99.825	1.00	54.87	O
ATOM	14379	N	GLY	C	216	35.174	52.625	98.900	1.00	55.70	N
ATOM	14380	CA	GLY	C	216	35.746	52.191	100.171	1.00	55.61	C
ATOM	14383	C	GLY	C	216	35.405	50.757	100.525	1.00	55.64	C
ATOM	14384	O	GLY	C	216	36.227	50.060	101.125	1.00	56.14	O
ATOM	14386	N	GLU	C	217	34.197	50.319	100.163	1.00	54.60	N
ATOM	14387	CA	GLU	C	217	33.743	48.962	100.464	1.00	54.10	C
ATOM	14389	CB	GLU	C	217	32.343	48.705	99.891	1.00	54.35	C
ATOM	14392	CG	GLU	C	217	31.191	49.326	100.692	1.00	56.49	C
ATOM	14395	CD	GLU	C	217	29.816	48.763	100.301	1.00	58.03	C
ATOM	14396	OE1	GLU	C	217	29.488	48.746	99.092	1.00	60.23	O
ATOM	14397	OE2	GLU	C	217	29.060	48.337	101.206	1.00	63.81	O
ATOM	14398	C	GLU	C	217	34.716	47.939	99.903	1.00	51.94	C
ATOM	14399	O	GLU	C	217	35.206	48.094	98.791	1.00	49.07	O
ATOM	14401	N	GLN	C	218	35.009	46.912	100.697	1.00	52.70	N

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ATOM	14402	CA	GLN	C	218	35.832	45.788	100.254	1.00	52.78	C
ATOM	14404	CB	GLN	C	218	36.166	44.864	101.433	1.00	52.99	C
ATOM	14407	CG	GLN	C	218	37.024	43.652	101.074	1.00	52.54	C
ATOM	14410	CD	GLN	C	218	37.133	42.643	102.201	1.00	51.80	C
ATOM	14411	OE1	GLN	C	218	37.783	42.892	103.223	1.00	47.06	O
ATOM	14412	NE2	GLN	C	218	36.511	41.485	102.010	1.00	47.09	N
ATOM	14415	C	GLN	C	218	35.075	45.019	99.177	1.00	52.58	C
ATOM	14416	O	GLN	C	218	33.849	44.915	99.240	1.00	51.73	O
ATOM	14418	N	VAL	C	219	35.814	44.487	98.202	1.00	53.06	N
ATOM	14419	CA	VAL	C	219	35.235	43.821	97.038	1.00	53.35	C
ATOM	14421	CB	VAL	C	219	35.668	44.525	95.756	1.00	52.52	C
ATOM	14423	CG1	VAL	C	219	34.956	43.905	94.545	1.00	55.27	C
ATOM	14427	CG2	VAL	C	219	35.413	46.025	95.867	1.00	50.71	C
ATOM	14431	C	VAL	C	219	35.685	42.368	96.917	1.00	54.20	C
ATOM	14432	O	VAL	C	219	36.879	42.095	96.923	1.00	53.66	O
ATOM	14434	N	GLU	C	220	34.726	41.448	96.790	1.00	55.43	N
ATOM	14435	CA	GLU	C	220	35.018	40.027	96.546	1.00	55.04	C
ATOM	14437	CB	GLU	C	220	34.121	39.120	97.396	1.00	55.39	C
ATOM	14440	CG	GLU	C	220	34.056	39.469	98.889	1.00	55.85	C
ATOM	14443	CD	GLU	C	220	35.313	39.106	99.667	1.00	54.78	C
ATOM	14444	OE1	GLU	C	220	35.300	39.287	100.900	1.00	56.96	O
ATOM	14445	OE2	GLU	C	220	36.305	38.644	99.068	1.00	50.64	O
ATOM	14446	C	GLU	C	220	34.808	39.697	95.072	1.00	55.11	C
ATOM	14447	O	GLU	C	220	33.986	40.315	94.403	1.00	55.17	O
ATOM	14449	N	PHE	C	221	35.557	38.713	94.587	1.00	55.52	N
ATOM	14450	CA	PHE	C	221	35.558	38.316	93.180	1.00	54.61	C
ATOM	14452	CB	PHE	C	221	36.736	38.954	92.446	1.00	56.74	C
ATOM	14455	CG	PHE	C	221	36.448	40.290	91.824	1.00	57.01	C
ATOM	14456	CD1	PHE	C	221	35.319	40.488	91.039	1.00	59.62	C
ATOM	14458	CE1	PHE	C	221	35.079	41.707	90.442	1.00	60.01	C
ATOM	14460	CZ	PHE	C	221	35.984	42.750	90.607	1.00	62.05	C
ATOM	14462	CE2	PHE	C	221	37.126	42.560	91.372	1.00	59.83	C
ATOM	14464	CD2	PHE	C	221	37.357	41.333	91.963	1.00	58.66	C
ATOM	14466	C	PHE	C	221	35.755	36.814	93.099	1.00	53.59	C
ATOM	14467	O	PHE	C	221	36.796	36.311	93.519	1.00	51.58	O
ATOM	14469	N	SER	C	222	34.788	36.102	92.534	1.00	54.29	N
ATOM	14470	CA	SER	C	222	34.844	34.643	92.515	1.00	54.22	C
ATOM	14472	CB	SER	C	222	33.697	34.079	93.341	1.00	52.62	C
ATOM	14475	OG	SER	C	222	34.172	33.030	94.157	1.00	54.46	O
ATOM	14477	C	SER	C	222	34.803	34.082	91.093	1.00	54.63	C
ATOM	14478	O	SER	C	222	34.035	34.562	90.263	1.00	56.26	O
ATOM	14480	N	PHE	C	223	35.627	33.066	90.827	1.00	53.95	N
ATOM	14481	CA	PHE	C	223	35.737	32.460	89.494	1.00	53.72	C
ATOM	14483	CB	PHE	C	223	37.087	32.810	88.867	1.00	55.45	C
ATOM	14486	CG	PHE	C	223	37.410	34.261	88.945	1.00	57.79	C
ATOM	14487	CD1	PHE	C	223	37.148	35.106	87.885	1.00	59.55	C
ATOM	14489	CE1	PHE	C	223	37.439	36.457	87.972	1.00	59.44	C
ATOM	14491	CZ	PHE	C	223	37.974	36.972	89.136	1.00	56.41	C
ATOM	14493	CE2	PHE	C	223	38.223	36.136	90.195	1.00	57.94	C
ATOM	14495	CD2	PHE	C	223	37.940	34.794	90.101	1.00	59.58	C
ATOM	14497	C	PHE	C	223	35.567	30.949	89.574	1.00	52.46	C
ATOM	14498	O	PHE	C	223	36.512	30.192	89.351	1.00	51.78	O
ATOM	14500	N	PRO	C	224	34.351	30.498	89.905	1.00	51.98	N
ATOM	14501	CA	PRO	C	224	34.119	29.061	89.983	1.00	51.20	C
ATOM	14503	CB	PRO	C	224	32.643	28.960	90.367	1.00	49.21	C
ATOM	14506	CG	PRO	C	224	32.063	30.267	89.992	1.00	50.96	C
ATOM	14509	CD	PRO	C	224	33.136	31.264	90.215	1.00	51.52	C
ATOM	14512	C	PRO	C	224	34.382	28.363	88.651	1.00	49.85	C
ATOM	14513	O	PRO	C	224	34.005	28.871	87.588	1.00	48.29	O
ATOM	14514	N	LEU	C	225	35.044	27.214	88.735	1.00	49.32	N
ATOM	14515	CA	LEU	C	225	35.375	26.409	87.576	1.00	50.30	C
ATOM	14517	CB	LEU	C	225	36.752	25.793	87.761	1.00	49.70	C
ATOM	14520	CG	LEU	C	225	37.909	26.787	87.649	1.00	50.42	C

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ATOM	14522	CD1	LEU	C	225	39.138	26.257	88.374	1.00	51.05	C
ATOM	14526	CD2	LEU	C	225	38.212	27.098	86.194	1.00	48.90	C
ATOM	14530	C	LEU	C	225	34.353	25.303	87.364	1.00	50.79	C
ATOM	14531	O	LEU	C	225	33.601	24.950	88.269	1.00	51.80	O
ATOM	14533	N	ALA	C	226	34.318	24.774	86.150	1.00	51.03	N
ATOM	14534	CA	ALA	C	226	33.535	23.585	85.868	1.00	51.57	C
ATOM	14536	CB	ALA	C	226	33.521	23.301	84.381	1.00	51.65	C
ATOM	14540	C	ALA	C	226	34.162	22.429	86.627	1.00	50.65	C
ATOM	14541	O	ALA	C	226	35.369	22.275	86.631	1.00	51.36	O
ATOM	14543	N	PHE	C	227	33.345	21.623	87.283	1.00	50.74	N
ATOM	14544	CA	PHE	C	227	33.859	20.562	88.134	1.00	53.88	C
ATOM	14546	CB	PHE	C	227	32.796	19.489	88.341	1.00	50.95	C
ATOM	14549	CG	PHE	C	227	33.324	18.242	88.973	1.00	47.51	C
ATOM	14550	CD1	PHE	C	227	33.177	17.019	88.347	1.00	39.76	C
ATOM	14552	CE1	PHE	C	227	33.668	15.869	88.926	1.00	47.50	C
ATOM	14554	CZ	PHE	C	227	34.329	15.936	90.156	1.00	49.06	C
ATOM	14556	CE2	PHE	C	227	34.489	17.157	90.786	1.00	46.39	C
ATOM	14558	CD2	PHE	C	227	33.993	18.303	90.189	1.00	43.47	C
ATOM	14560	C	PHE	C	227	35.134	19.905	87.595	1.00	57.01	C
ATOM	14561	O	PHE	C	227	36.095	19.703	88.341	1.00	58.36	O
ATOM	14563	N	THR	C	228	35.131	19.562	86.311	1.00	59.43	N
ATOM	14564	CA	THR	C	228	36.256	18.844	85.706	1.00	62.28	C
ATOM	14566	CB	THR	C	228	36.067	18.638	84.201	1.00	63.18	C
ATOM	14568	OG1	THR	C	228	37.332	18.260	83.644	1.00	67.90	O
ATOM	14570	CG2	THR	C	228	35.570	19.918	83.504	1.00	64.97	C
ATOM	14574	C	THR	C	228	37.661	19.457	85.869	1.00	64.19	C
ATOM	14575	O	THR	C	228	38.642	18.712	85.976	1.00	63.72	O
ATOM	14577	N	VAL	C	229	37.756	20.791	85.875	1.00	65.75	N
ATOM	14578	CA	VAL	C	229	39.066	21.494	85.906	1.00	66.45	C
ATOM	14580	CB	VAL	C	229	39.058	22.863	85.068	1.00	68.23	C
ATOM	14582	CG1	VAL	C	229	37.655	23.450	84.889	1.00	67.49	C
ATOM	14586	CG2	VAL	C	229	40.026	23.921	85.637	1.00	67.21	C
ATOM	14590	C	VAL	C	229	39.662	21.680	87.318	1.00	66.08	C
ATOM	14591	O	VAL	C	229	40.829	22.049	87.453	1.00	64.25	O
ATOM	14593	N	GLU	C	230	38.884	21.358	88.350	1.00	67.35	N
ATOM	14594	CA	GLU	C	230	39.255	21.631	89.744	1.00	68.15	C
ATOM	14596	CB	GLU	C	230	38.043	21.422	90.651	1.00	68.56	C
ATOM	14599	CG	GLU	C	230	36.860	22.324	90.385	1.00	70.87	C
ATOM	14602	CD	GLU	C	230	35.747	22.097	91.405	1.00	73.82	C
ATOM	14603	OE1	GLU	C	230	35.631	20.959	91.924	1.00	79.59	O
ATOM	14604	OE2	GLU	C	230	34.993	23.051	91.695	1.00	80.44	O
ATOM	14605	C	GLU	C	230	40.419	20.808	90.324	1.00	67.98	C
ATOM	14606	O	GLU	C	230	40.823	21.055	91.466	1.00	69.49	O
ATOM	14608	N	LYS	C	231	40.941	19.829	89.582	1.00	67.30	N
ATOM	14609	CA	LYS	C	231	42.073	19.017	90.063	1.00	66.42	C
ATOM	14611	CB	LYS	C	231	41.608	17.576	90.295	1.00	67.27	C
ATOM	14614	CG	LYS	C	231	41.010	17.387	91.680	1.00	69.67	C
ATOM	14617	CD	LYS	C	231	40.456	15.988	91.915	1.00	70.79	C
ATOM	14620	CE	LYS	C	231	39.836	15.889	93.324	1.00	74.18	C
ATOM	14623	NZ	LYS	C	231	39.333	14.521	93.669	1.00	74.04	N
ATOM	14627	C	LYS	C	231	43.307	19.074	89.151	1.00	63.49	C
ATOM	14628	O	LYS	C	231	44.230	18.276	89.283	1.00	62.46	O
ATOM	14630	N	LEU	C	232	43.330	20.067	88.270	1.00	61.95	N
ATOM	14631	CA	LEU	C	232	44.328	20.178	87.216	1.00	61.41	C
ATOM	14633	CB	LEU	C	232	43.640	20.603	85.918	1.00	62.35	C
ATOM	14636	CG	LEU	C	232	42.863	19.549	85.129	1.00	61.71	C
ATOM	14638	CD1	LEU	C	232	41.838	18.851	85.987	1.00	68.58	C
ATOM	14642	CD2	LEU	C	232	42.208	20.203	83.930	1.00	62.39	C
ATOM	14646	C	LEU	C	232	45.410	21.207	87.562	1.00	60.34	C
ATOM	14647	O	LEU	C	232	45.138	22.207	88.234	1.00	60.57	O
ATOM	14649	N	THR	C	233	46.632	20.963	87.091	1.00	58.14	N
ATOM	14650	CA	THR	C	233	47.716	21.947	87.215	1.00	57.26	C
ATOM	14652	CB	THR	C	233	49.106	21.312	87.039	1.00	56.18	C

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ATOM	14654	OG1	THR	C	233	49.327	20.343	88.075	1.00	56.61	O
ATOM	14656	CG2	THR	C	233	50.187	22.377	87.099	1.00	56.96	C
ATOM	14660	C	THR	C	233	47.542	23.080	86.190	1.00	55.74	C
ATOM	14661	O	THR	C	233	47.146	22.854	85.043	1.00	54.68	O
ATOM	14663	N	GLY	C	234	47.832	24.305	86.606	1.00	53.66	N
ATOM	14664	CA	GLY	C	234	47.617	25.433	85.730	1.00	53.19	C
ATOM	14667	C	GLY	C	234	48.256	26.705	86.212	1.00	51.79	C
ATOM	14668	O	GLY	C	234	48.789	26.773	87.317	1.00	51.14	O
ATOM	14670	N	SER	C	235	48.190	27.711	85.351	1.00	51.72	N
ATOM	14671	CA	SER	C	235	48.648	29.054	85.664	1.00	52.13	C
ATOM	14673	CB	SER	C	235	50.064	29.272	85.132	1.00	52.74	C
ATOM	14676	OG	SER	C	235	50.230	28.636	83.876	1.00	59.91	O
ATOM	14678	C	SER	C	235	47.677	30.048	85.048	1.00	49.69	C
ATOM	14679	O	SER	C	235	47.068	29.767	84.021	1.00	47.18	O
ATOM	14681	N	GLY	C	236	47.527	31.201	85.690	1.00	48.98	N
ATOM	14682	CA	GLY	C	236	46.566	32.191	85.244	1.00	48.93	C
ATOM	14685	C	GLY	C	236	46.867	33.601	85.700	1.00	48.65	C
ATOM	14686	O	GLY	C	236	47.683	33.826	86.586	1.00	48.83	O
ATOM	14688	N	GLU	C	237	46.167	34.550	85.096	1.00	49.66	N
ATOM	14689	CA	GLU	C	237	46.495	35.950	85.231	1.00	50.05	C
ATOM	14691	CB	GLU	C	237	47.498	36.314	84.146	1.00	49.39	C
ATOM	14694	CG	GLU	C	237	48.141	37.671	84.328	1.00	50.62	C
ATOM	14697	CD	GLU	C	237	49.331	37.892	83.410	1.00	49.34	C
ATOM	14698	OE1	GLU	C	237	50.023	38.915	83.596	1.00	43.92	O
ATOM	14699	OE2	GLU	C	237	49.572	37.047	82.515	1.00	46.20	O
ATOM	14700	C	GLU	C	237	45.251	36.820	85.092	1.00	51.27	C
ATOM	14701	O	GLU	C	237	44.408	36.578	84.229	1.00	51.12	O
ATOM	14703	N	LEU	C	238	45.145	37.829	85.952	1.00	52.08	N
ATOM	14704	CA	LEU	C	238	44.088	38.829	85.865	1.00	51.50	C
ATOM	14706	CB	LEU	C	238	43.587	39.180	87.263	1.00	51.30	C
ATOM	14709	CG	LEU	C	238	42.230	39.867	87.446	1.00	52.07	C
ATOM	14711	CD1	LEU	C	238	42.282	40.692	88.707	1.00	48.98	C
ATOM	14715	CD2	LEU	C	238	41.808	40.752	86.297	1.00	57.12	C
ATOM	14719	C	LEU	C	238	44.652	40.078	85.208	1.00	52.61	C
ATOM	14720	O	LEU	C	238	45.466	40.779	85.809	1.00	56.47	O
ATOM	14722	N	TRP	C	239	44.240	40.350	83.975	1.00	52.26	N
ATOM	14723	CA	TRP	C	239	44.584	41.604	83.313	1.00	52.01	C
ATOM	14725	CB	TRP	C	239	44.808	41.387	81.822	1.00	52.69	C
ATOM	14728	CG	TRP	C	239	46.004	40.578	81.512	1.00	52.47	C
ATOM	14729	CD1	TRP	C	239	46.090	39.211	81.472	1.00	51.83	C
ATOM	14731	NE1	TRP	C	239	47.369	38.832	81.136	1.00	51.73	N
ATOM	14733	CE2	TRP	C	239	48.132	39.958	80.952	1.00	52.18	C
ATOM	14734	CD2	TRP	C	239	47.300	41.077	81.182	1.00	51.43	C
ATOM	14735	CE3	TRP	C	239	47.841	42.363	81.058	1.00	49.98	C
ATOM	14737	CZ3	TRP	C	239	49.185	42.492	80.715	1.00	51.19	C
ATOM	14739	CH2	TRP	C	239	49.989	41.362	80.492	1.00	51.43	C
ATOM	14741	CZ2	TRP	C	239	49.482	40.089	80.605	1.00	51.88	C
ATOM	14743	C	TRP	C	239	43.425	42.552	83.499	1.00	51.25	C
ATOM	14744	O	TRP	C	239	42.278	42.146	83.351	1.00	48.99	O
ATOM	14746	N	TRP	C	240	43.727	43.815	83.794	1.00	52.34	N
ATOM	14747	CA	TRP	C	240	42.699	44.814	84.076	1.00	53.06	C
ATOM	14749	CB	TRP	C	240	42.779	45.206	85.545	1.00	53.29	C
ATOM	14752	CG	TRP	C	240	41.596	45.948	85.999	1.00	53.25	C
ATOM	14753	CD1	TRP	C	240	41.419	47.292	85.980	1.00	53.47	C
ATOM	14755	NE1	TRP	C	240	40.186	47.613	86.478	1.00	52.91	N
ATOM	14757	CE2	TRP	C	240	39.536	46.459	86.823	1.00	54.15	C
ATOM	14758	CD2	TRP	C	240	40.399	45.389	86.529	1.00	55.70	C
ATOM	14759	CE3	TRP	C	240	39.972	44.081	86.789	1.00	57.67	C
ATOM	14761	CZ3	TRP	C	240	38.714	43.889	87.331	1.00	55.91	C
ATOM	14763	CH2	TRP	C	240	37.875	44.981	87.614	1.00	56.10	C
ATOM	14765	CZ2	TRP	C	240	38.267	46.268	87.365	1.00	55.23	C
ATOM	14767	C	TRP	C	240	42.844	46.069	83.203	1.00	53.20	C
ATOM	14768	O	TRP	C	240	43.957	46.490	82.914	1.00	52.68	O

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ATOM	14770	N	GLN	C	241	41.717	46.659	82.799	1.00	53.23	N
ATOM	14771	CA	GLN	C	241	41.699	47.940	82.072	1.00	54.32	C
ATOM	14773	CB	GLN	C	241	41.372	47.717	80.596	1.00	53.81	C
ATOM	14776	CG	GLN	C	241	41.333	48.994	79.760	1.00	53.12	C
ATOM	14779	CD	GLN	C	241	41.006	48.736	78.296	1.00	53.30	C
ATOM	14780	OE1	GLN	C	241	40.582	47.641	77.923	1.00	46.07	O
ATOM	14781	NE2	GLN	C	241	41.198	49.755	77.458	1.00	51.31	N
ATOM	14784	C	GLN	C	241	40.663	48.872	82.702	1.00	55.22	C
ATOM	14785	O	GLN	C	241	39.470	48.577	82.681	1.00	54.52	O
ATOM	14787	N	ALA	C	242	41.117	50.014	83.213	1.00	56.80	N
ATOM	14788	CA	ALA	C	242	40.366	50.742	84.236	1.00	57.99	C
ATOM	14790	CB	ALA	C	242	41.268	50.929	85.462	1.00	58.03	C
ATOM	14794	C	ALA	C	242	39.716	52.089	83.846	1.00	59.52	C
ATOM	14795	O	ALA	C	242	39.595	52.974	84.699	1.00	61.31	O
ATOM	14797	N	GLU	C	243	39.266	52.242	82.600	1.00	60.54	N
ATOM	14798	CA	GLU	C	243	38.531	53.464	82.173	1.00	61.09	C
ATOM	14800	CB	GLU	C	243	37.263	53.702	83.032	1.00	61.18	C
ATOM	14803	CG	GLU	C	243	36.330	54.792	82.474	1.00	60.52	C
ATOM	14806	CD	GLU	C	243	35.196	55.186	83.421	1.00	61.11	C
ATOM	14807	OE1	GLU	C	243	35.351	56.183	84.171	1.00	57.89	O
ATOM	14808	OE2	GLU	C	243	34.145	54.512	83.401	1.00	59.35	O
ATOM	14809	C	GLU	C	243	39.412	54.727	82.163	1.00	61.71	C
ATOM	14810	O	GLU	C	243	39.424	55.502	83.119	1.00	61.42	O
ATOM	14812	N	ARG	C	244	40.104	54.927	81.044	1.00	62.33	N
ATOM	14813	CA	ARG	C	244	41.129	55.959	80.844	1.00	62.50	C
ATOM	14815	CB	ARG	C	244	41.330	56.908	82.046	1.00	63.30	C
ATOM	14818	CG	ARG	C	244	42.099	56.339	83.272	1.00	64.05	C
ATOM	14821	CD	ARG	C	244	43.612	56.658	83.262	1.00	64.05	C
ATOM	14824	NE	ARG	C	244	43.888	58.096	83.155	1.00	63.61	N
ATOM	14826	CZ	ARG	C	244	44.500	58.705	82.133	1.00	64.13	C
ATOM	14827	NH1	ARG	C	244	44.671	60.022	82.173	1.00	63.73	N
ATOM	14830	NH2	ARG	C	244	44.952	58.030	81.077	1.00	62.98	N
ATOM	14833	C	ARG	C	244	42.424	55.241	80.485	1.00	63.61	C
ATOM	14834	O	ARG	C	244	43.214	55.742	79.682	1.00	66.59	O
ATOM	14836	N	ALA	C	245	42.616	54.059	81.071	1.00	63.14	N
ATOM	14837	CA	ALA	C	245	43.802	53.230	80.846	1.00	62.60	C
ATOM	14839	CB	ALA	C	245	43.623	51.874	81.526	1.00	63.00	C
ATOM	14843	C	ALA	C	245	44.117	53.022	79.370	1.00	61.76	C
ATOM	14844	O	ALA	C	245	45.282	53.082	78.968	1.00	59.83	O
ATOM	14846	N	SER	C	246	43.080	52.748	78.577	1.00	62.06	N
ATOM	14847	CA	SER	C	246	43.225	52.490	77.132	1.00	63.25	C
ATOM	14849	CB	SER	C	246	43.945	53.661	76.438	1.00	63.50	C
ATOM	14852	OG	SER	C	246	45.059	53.215	75.681	1.00	63.10	O
ATOM	14854	C	SER	C	246	43.910	51.152	76.776	1.00	63.94	C
ATOM	14855	O	SER	C	246	43.932	50.763	75.606	1.00	62.97	O
ATOM	14857	N	SER	C	247	44.437	50.456	77.787	1.00	64.20	N
ATOM	14858	CA	SER	C	247	45.252	49.252	77.606	1.00	63.13	C
ATOM	14860	CB	SER	C	247	46.611	49.607	76.978	1.00	62.58	C
ATOM	14863	OG	SER	C	247	47.167	50.782	77.554	1.00	61.80	O
ATOM	14865	C	SER	C	247	45.434	48.549	78.965	1.00	63.42	C
ATOM	14866	O	SER	C	247	45.598	49.215	79.999	1.00	63.66	O
ATOM	14868	N	SER	C	248	45.413	47.214	78.959	1.00	61.92	N
ATOM	14869	CA	SER	C	248	45.346	46.439	80.203	1.00	61.13	C
ATOM	14871	CB	SER	C	248	44.736	45.058	79.948	1.00	61.93	C
ATOM	14874	OG	SER	C	248	45.534	44.305	79.054	1.00	63.11	O
ATOM	14876	C	SER	C	248	46.692	46.264	80.895	1.00	59.90	C
ATOM	14877	O	SER	C	248	47.670	45.897	80.255	1.00	59.40	O
ATOM	14879	N	LYS	C	249	46.727	46.528	82.203	1.00	59.67	N
ATOM	14880	CA	LYS	C	249	47.884	46.206	83.048	1.00	58.19	C
ATOM	14882	CB	LYS	C	249	48.237	47.371	83.990	1.00	57.21	C
ATOM	14885	CG	LYS	C	249	47.360	47.533	85.225	1.00	58.66	C
ATOM	14888	CD	LYS	C	249	47.904	48.649	86.142	1.00	59.90	C
ATOM	14891	CE	LYS	C	249	46.980	48.945	87.333	1.00	59.35	C

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ATOM	14894	NZ	LYS	C	249	45.554	49.194	86.912	1.00	58.33	N
ATOM	14898	C	LYS	C	249	47.618	44.922	83.834	1.00	56.62	C
ATOM	14899	O	LYS	C	249	46.466	44.603	84.147	1.00	56.93	O
ATOM	14901	N	SER	C	250	48.683	44.183	84.138	1.00	55.39	N
ATOM	14902	CA	SER	C	250	48.556	42.921	84.879	1.00	54.20	C
ATOM	14904	CB	SER	C	250	49.763	42.000	84.642	1.00	53.70	C
ATOM	14907	OG	SER	C	250	49.641	40.785	85.366	1.00	47.84	O
ATOM	14909	C	SER	C	250	48.410	43.230	86.360	1.00	52.24	C
ATOM	14910	O	SER	C	250	49.211	43.974	86.915	1.00	52.45	O
ATOM	14912	N	TRP	C	251	47.379	42.661	86.982	1.00	50.50	N
ATOM	14913	CA	TRP	C	251	47.109	42.861	88.406	1.00	49.58	C
ATOM	14915	CB	TRP	C	251	45.596	42.900	88.662	1.00	48.98	C
ATOM	14918	CG	TRP	C	251	44.996	44.280	88.617	1.00	49.55	C
ATOM	14919	CD1	TRP	C	251	45.534	45.402	88.037	1.00	49.34	C
ATOM	14921	NE1	TRP	C	251	44.688	46.466	88.200	1.00	47.82	N
ATOM	14923	CE2	TRP	C	251	43.574	46.051	88.882	1.00	49.06	C
ATOM	14924	CD2	TRP	C	251	43.731	44.678	89.157	1.00	47.03	C
ATOM	14925	CE3	TRP	C	251	42.720	44.008	89.856	1.00	48.73	C
ATOM	14927	CZ3	TRP	C	251	41.590	44.719	90.248	1.00	49.10	C
ATOM	14929	CH2	TRP	C	251	41.463	46.087	89.960	1.00	50.83	C
ATOM	14931	CZ2	TRP	C	251	42.442	46.770	89.283	1.00	49.80	C
ATOM	14933	C	TRP	C	251	47.757	41.762	89.244	1.00	48.60	C
ATOM	14934	O	TRP	C	251	48.449	42.043	90.224	1.00	47.76	O
ATOM	14936	N	ILE	C	252	47.540	40.512	88.847	1.00	47.01	N
ATOM	14937	CA	ILE	C	252	48.033	39.384	89.615	1.00	45.92	C
ATOM	14939	CB	ILE	C	252	47.026	39.030	90.731	1.00	44.48	C
ATOM	14941	CG1	ILE	C	252	47.670	38.165	91.809	1.00	44.56	C
ATOM	14944	CD1	ILE	C	252	46.904	38.174	93.094	1.00	46.91	C
ATOM	14948	CG2	ILE	C	252	45.804	38.358	90.157	1.00	43.65	C
ATOM	14952	C	ILE	C	252	48.315	38.177	88.715	1.00	46.47	C
ATOM	14953	O	ILE	C	252	47.797	38.076	87.595	1.00	47.24	O
ATOM	14955	N	THR	C	253	49.148	37.277	89.230	1.00	45.39	N
ATOM	14956	CA	THR	C	253	49.623	36.103	88.519	1.00	44.64	C
ATOM	14958	CB	THR	C	253	50.991	36.430	87.863	1.00	44.18	C
ATOM	14960	OG1	THR	C	253	50.779	36.916	86.536	1.00	44.41	O
ATOM	14962	CG2	THR	C	253	51.914	35.250	87.796	1.00	44.21	C
ATOM	14966	C	THR	C	253	49.718	34.988	89.555	1.00	44.74	C
ATOM	14967	O	THR	C	253	50.139	35.236	90.689	1.00	43.55	O
ATOM	14969	N	PHE	C	254	49.316	33.771	89.181	1.00	45.62	N
ATOM	14970	CA	PHE	C	254	49.211	32.672	90.155	1.00	46.51	C
ATOM	14972	CB	PHE	C	254	47.912	32.819	90.944	1.00	46.44	C
ATOM	14975	CG	PHE	C	254	46.706	32.632	90.106	1.00	44.57	C
ATOM	14976	CD1	PHE	C	254	46.226	33.672	89.336	1.00	46.93	C
ATOM	14978	CE1	PHE	C	254	45.109	33.492	88.523	1.00	51.75	C
ATOM	14980	CZ	PHE	C	254	44.470	32.253	88.478	1.00	47.49	C
ATOM	14982	CE2	PHE	C	254	44.959	31.203	89.239	1.00	45.96	C
ATOM	14984	CD2	PHE	C	254	46.076	31.396	90.041	1.00	46.05	C
ATOM	14986	C	PHE	C	254	49.233	31.268	89.541	1.00	47.34	C
ATOM	14987	O	PHE	C	254	48.806	31.071	88.400	1.00	47.65	O
ATOM	14989	N	ASP	C	255	49.689	30.293	90.328	1.00	47.51	N
ATOM	14990	CA	ASP	C	255	49.701	28.891	89.910	1.00	47.48	C
ATOM	14992	CB	ASP	C	255	51.072	28.289	90.158	1.00	48.12	C
ATOM	14995	CG	ASP	C	255	52.072	28.695	89.113	1.00	52.79	C
ATOM	14996	OD1	ASP	C	255	51.671	29.342	88.121	1.00	55.48	O
ATOM	14997	OD2	ASP	C	255	53.262	28.359	89.278	1.00	61.66	O
ATOM	14998	C	ASP	C	255	48.653	28.054	90.622	1.00	47.00	C
ATOM	14999	O	ASP	C	255	48.396	28.239	91.805	1.00	46.38	O
ATOM	15001	N	LEU	C	256	48.058	27.127	89.880	1.00	47.65	N
ATOM	15002	CA	LEU	C	256	47.085	26.186	90.418	1.00	47.62	C
ATOM	15004	CB	LEU	C	256	45.805	26.227	89.588	1.00	47.25	C
ATOM	15007	CG	LEU	C	256	44.667	25.297	90.000	1.00	48.43	C
ATOM	15009	CD1	LEU	C	256	44.353	25.465	91.470	1.00	49.72	C
ATOM	15013	CD2	LEU	C	256	43.428	25.564	89.159	1.00	46.55	C

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ATOM	15017	C	LEU	C	256	47.688	24.785	90.385	1.00	47.74	C
ATOM	15018	O	LEU	C	256	48.224	24.361	89.365	1.00	47.04	O
ATOM	15020	N	LYS	C	257	47.625	24.089	91.515	1.00	49.23	N
ATOM	15021	CA	LYS	C	257	48.102	22.714	91.610	1.00	49.52	C
ATOM	15023	CB	LYS	C	257	49.616	22.682	91.786	1.00	49.85	C
ATOM	15026	CG	LYS	C	257	50.180	21.273	91.835	1.00	51.35	C
ATOM	15029	CD	LYS	C	257	51.472	21.146	91.043	1.00	56.71	C
ATOM	15032	CE	LYS	C	257	51.781	19.682	90.720	1.00	59.11	C
ATOM	15035	NZ	LYS	C	257	53.033	19.521	89.910	1.00	62.57	N
ATOM	15039	C	LYS	C	257	47.439	22.003	92.778	1.00	49.14	C
ATOM	15040	O	LYS	C	257	47.587	22.435	93.922	1.00	49.80	O
ATOM	15042	N	ASN	C	258	46.715	20.925	92.482	1.00	47.65	N
ATOM	15043	CA	ASN	C	258	46.021	20.140	93.503	1.00	51.51	C
ATOM	15045	CB	ASN	C	258	47.027	19.327	94.353	1.00	52.58	C
ATOM	15048	CG	ASN	C	258	47.408	17.987	93.711	1.00	56.47	C
ATOM	15049	OD1	ASN	C	258	47.016	17.680	92.582	1.00	57.19	O
ATOM	15050	ND2	ASN	C	258	48.174	17.184	94.442	1.00	55.28	N
ATOM	15053	C	ASN	C	258	45.123	20.990	94.401	1.00	50.58	C
ATOM	15054	O	ASN	C	258	45.204	20.917	95.619	1.00	49.41	O
ATOM	15056	N	LYS	C	259	44.274	21.802	93.778	1.00	53.21	N
ATOM	15057	CA	LYS	C	259	43.327	22.690	94.485	1.00	53.98	C
ATOM	15059	CB	LYS	C	259	42.461	21.907	95.498	1.00	54.69	C
ATOM	15062	CG	LYS	C	259	41.936	20.542	95.001	1.00	59.35	C
ATOM	15065	CD	LYS	C	259	40.428	20.517	94.664	1.00	66.23	C
ATOM	15068	CE	LYS	C	259	39.543	20.004	95.824	1.00	67.76	C
ATOM	15071	NZ	LYS	C	259	39.204	21.046	96.851	1.00	64.81	N
ATOM	15075	C	LYS	C	259	43.987	23.902	95.181	1.00	53.79	C
ATOM	15076	O	LYS	C	259	43.284	24.840	95.564	1.00	54.56	O
ATOM	15078	N	GLU	C	260	45.316	23.892	95.325	1.00	52.48	N
ATOM	15079	CA	GLU	C	260	46.051	24.958	96.023	1.00	52.41	C
ATOM	15081	CB	GLU	C	260	47.304	24.394	96.716	1.00	52.76	C
ATOM	15084	CG	GLU	C	260	47.064	23.808	98.100	1.00	55.53	C
ATOM	15087	CD	GLU	C	260	48.361	23.501	98.847	1.00	58.26	C
ATOM	15088	OE1	GLU	C	260	48.306	23.278	100.076	1.00	64.23	O
ATOM	15089	OE2	GLU	C	260	49.438	23.482	98.210	1.00	68.33	O
ATOM	15090	C	GLU	C	260	46.465	26.084	95.067	1.00	50.41	C
ATOM	15091	O	GLU	C	260	46.881	25.818	93.943	1.00	51.33	O
ATOM	15093	N	VAL	C	261	46.380	27.331	95.534	1.00	48.09	N
ATOM	15094	CA	VAL	C	261	46.668	28.509	94.713	1.00	46.83	C
ATOM	15096	CB	VAL	C	261	45.421	29.423	94.586	1.00	45.44	C
ATOM	15098	CG1	VAL	C	261	45.711	30.604	93.687	1.00	46.97	C
ATOM	15102	CG2	VAL	C	261	44.240	28.650	94.044	1.00	45.02	C
ATOM	15106	C	VAL	C	261	47.836	29.324	95.289	1.00	45.24	C
ATOM	15107	O	VAL	C	261	47.718	29.920	96.358	1.00	41.26	O
ATOM	15109	N	SER	C	262	48.952	29.335	94.559	1.00	46.20	N
ATOM	15110	CA	SER	C	262	50.138	30.128	94.894	1.00	47.83	C
ATOM	15112	CB	SER	C	262	51.396	29.311	94.621	1.00	47.10	C
ATOM	15115	OG	SER	C	262	51.506	28.252	95.542	1.00	51.61	O
ATOM	15117	C	SER	C	262	50.204	31.391	94.045	1.00	49.15	C
ATOM	15118	O	SER	C	262	50.085	31.304	92.823	1.00	51.69	O
ATOM	15120	N	VAL	C	263	50.436	32.550	94.665	1.00	48.68	N
ATOM	15121	CA	VAL	C	263	50.494	33.810	93.907	1.00	48.91	C
ATOM	15123	CB	VAL	C	263	49.712	34.981	94.607	1.00	48.17	C
ATOM	15125	CG1	VAL	C	263	48.663	34.440	95.578	1.00	46.85	C
ATOM	15129	CG2	VAL	C	263	50.627	35.953	95.327	1.00	51.31	C
ATOM	15133	C	VAL	C	263	51.958	34.168	93.579	1.00	49.79	C
ATOM	15134	O	VAL	C	263	52.799	34.316	94.472	1.00	48.47	O
ATOM	15136	N	LYS	C	264	52.262	34.289	92.291	1.00	50.90	N
ATOM	15137	CA	LYS	C	264	53.635	34.529	91.850	1.00	51.12	C
ATOM	15139	CB	LYS	C	264	53.896	33.805	90.540	1.00	51.57	C
ATOM	15142	CG	LYS	C	264	53.756	32.305	90.607	1.00	55.55	C
ATOM	15145	CD	LYS	C	264	54.067	31.680	89.244	1.00	56.56	C
ATOM	15148	CE	LYS	C	264	53.023	32.050	88.179	1.00	58.78	C

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ATOM	15151	NZ	LYS	C	264	53.138	31.219	86.946	1.00	58.89	N
ATOM	15155	C	LYS	C	264	53.967	36.001	91.653	1.00	49.17	C
ATOM	15156	O	LYS	C	264	55.116	36.387	91.786	1.00	48.14	O
ATOM	15158	N	ARG	C	265	52.973	36.810	91.307	1.00	49.03	N
ATOM	15159	CA	ARG	C	265	53.209	38.210	90.960	1.00	50.08	C
ATOM	15161	CB	ARG	C	265	53.455	38.332	89.458	1.00	50.30	C
ATOM	15164	CG	ARG	C	265	54.691	39.104	89.043	1.00	49.45	C
ATOM	15167	CD	ARG	C	265	55.041	38.759	87.605	1.00	49.01	C
ATOM	15170	NE	ARG	C	265	56.273	39.395	87.136	1.00	52.33	N
ATOM	15172	CZ	ARG	C	265	56.916	39.068	86.011	1.00	50.45	C
ATOM	15173	NH1	ARG	C	265	58.028	39.706	85.664	1.00	49.84	N
ATOM	15176	NH2	ARG	C	265	56.455	38.107	85.222	1.00	53.21	N
ATOM	15179	C	ARG	C	265	51.974	38.995	91.339	1.00	50.17	C
ATOM	15180	O	ARG	C	265	50.869	38.489	91.224	1.00	51.12	O
ATOM	15182	N	VAL	C	266	52.156	40.224	91.804	1.00	51.61	N
ATOM	15183	CA	VAL	C	266	51.040	41.033	92.284	1.00	53.46	C
ATOM	15185	CB	VAL	C	266	50.835	40.893	93.811	1.00	54.83	C
ATOM	15187	CG1	VAL	C	266	49.637	41.726	94.278	1.00	56.37	C
ATOM	15191	CG2	VAL	C	266	50.653	39.430	94.207	1.00	58.89	C
ATOM	15195	C	VAL	C	266	51.319	42.484	92.002	1.00	53.73	C
ATOM	15196	O	VAL	C	266	52.465	42.910	92.032	1.00	54.06	O
ATOM	15198	N	THR	C	267	50.268	43.247	91.733	1.00	55.45	N
ATOM	15199	CA	THR	C	267	50.418	44.685	91.566	1.00	55.96	C
ATOM	15201	CB	THR	C	267	49.238	45.339	90.782	1.00	56.37	C
ATOM	15203	OG1	THR	C	267	49.562	46.699	90.459	1.00	54.71	O
ATOM	15205	CG2	THR	C	267	47.946	45.320	91.593	1.00	57.41	C
ATOM	15209	C	THR	C	267	50.539	45.347	92.928	1.00	56.70	C
ATOM	15210	O	THR	C	267	49.844	44.978	93.885	1.00	55.32	O
ATOM	15212	N	GLN	C	268	51.465	46.298	93.001	1.00	57.43	N
ATOM	15213	CA	GLN	C	268	51.418	47.354	94.000	1.00	56.91	C
ATOM	15215	CB	GLN	C	268	52.780	48.060	94.120	1.00	56.93	C
ATOM	15218	CG	GLN	C	268	53.514	48.362	92.784	1.00	56.06	C
ATOM	15221	CD	GLN	C	268	54.714	49.288	92.955	1.00	54.89	C
ATOM	15222	OE1	GLN	C	268	54.943	50.186	92.146	1.00	51.57	O
ATOM	15223	NE2	GLN	C	268	55.481	49.073	94.013	1.00	52.66	N
ATOM	15226	C	GLN	C	268	50.336	48.319	93.518	1.00	57.79	C
ATOM	15227	O	GLN	C	268	50.519	48.967	92.493	1.00	59.74	O
ATOM	15229	N	ASP	C	269	49.200	48.374	94.219	1.00	57.82	N
ATOM	15230	CA	ASP	C	269	48.039	49.205	93.813	1.00	57.20	C
ATOM	15232	CB	ASP	C	269	48.487	50.617	93.397	1.00	56.58	C
ATOM	15235	CG	ASP	C	269	47.428	51.663	93.652	1.00	57.36	C
ATOM	15236	OD1	ASP	C	269	46.776	52.122	92.695	1.00	59.34	O
ATOM	15237	OD2	ASP	C	269	47.242	52.032	94.821	1.00	60.71	O
ATOM	15238	C	ASP	C	269	47.184	48.568	92.683	1.00	55.97	C
ATOM	15239	O	ASP	C	269	47.613	48.507	91.529	1.00	52.98	O
ATOM	15241	N	PRO	C	270	45.984	48.058	93.016	1.00	56.48	N
ATOM	15242	CA	PRO	C	270	45.418	47.872	94.354	1.00	58.21	C
ATOM	15244	CB	PRO	C	270	43.958	47.479	94.078	1.00	57.77	C
ATOM	15247	CG	PRO	C	270	43.956	46.913	92.715	1.00	55.92	C
ATOM	15250	CD	PRO	C	270	45.066	47.595	91.961	1.00	57.28	C
ATOM	15253	C	PRO	C	270	46.142	46.750	95.087	1.00	58.74	C
ATOM	15254	O	PRO	C	270	46.739	45.884	94.444	1.00	58.59	O
ATOM	15255	N	LYS	C	271	46.098	46.767	96.416	1.00	60.62	N
ATOM	15256	CA	LYS	C	271	46.734	45.714	97.208	1.00	61.47	C
ATOM	15258	CB	LYS	C	271	47.033	46.190	98.629	1.00	61.51	C
ATOM	15261	CG	LYS	C	271	48.022	47.357	98.669	1.00	60.55	C
ATOM	15264	CD	LYS	C	271	49.267	47.031	99.497	1.00	61.33	C
ATOM	15267	CE	LYS	C	271	50.385	48.047	99.261	1.00	63.15	C
ATOM	15270	NZ	LYS	C	271	51.744	47.472	99.468	1.00	62.50	N
ATOM	15274	C	LYS	C	271	45.836	44.483	97.195	1.00	62.96	C
ATOM	15275	O	LYS	C	271	44.858	44.395	97.942	1.00	64.70	O
ATOM	15277	N	LEU	C	272	46.196	43.539	96.329	1.00	62.64	N
ATOM	15278	CA	LEU	C	272	45.325	42.439	95.933	1.00	62.58	C

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ATOM	15280	CB	LEU	C	272	45.549	42.156	94.438	1.00	63.18	C
ATOM	15283	CG	LEU	C	272	44.366	42.188	93.468	1.00	61.62	C
ATOM	15285	CD1	LEU	C	272	43.627	40.889	93.484	1.00	62.32	C
ATOM	15289	CD2	LEU	C	272	43.421	43.347	93.770	1.00	62.98	C
ATOM	15293	C	LEU	C	272	45.657	41.196	96.752	1.00	62.94	C
ATOM	15294	O	LEU	C	272	46.822	40.800	96.816	1.00	63.09	O
ATOM	15296	N	GLN	C	273	44.647	40.576	97.363	1.00	63.24	N
ATOM	15297	CA	GLN	C	273	44.861	39.377	98.201	1.00	64.03	C
ATOM	15299	CB	GLN	C	273	44.604	39.670	99.694	1.00	63.96	C
ATOM	15302	CG	GLN	C	273	43.360	40.522	100.034	1.00	66.07	C
ATOM	15305	CD	GLN	C	273	43.506	41.289	101.360	1.00	66.75	C
ATOM	15306	OE1	GLN	C	273	44.102	40.789	102.316	1.00	69.08	O
ATOM	15307	NE2	GLN	C	273	42.963	42.509	101.411	1.00	66.69	N
ATOM	15310	C	GLN	C	273	44.029	38.186	97.719	1.00	64.15	C
ATOM	15311	O	GLN	C	273	42.802	38.198	97.804	1.00	66.11	O
ATOM	15313	N	MET	C	274	44.711	37.157	97.218	1.00	63.20	N
ATOM	15314	CA	MET	C	274	44.049	36.003	96.617	1.00	62.63	C
ATOM	15316	CB	MET	C	274	44.845	35.499	95.412	1.00	62.63	C
ATOM	15319	CG	MET	C	274	44.157	34.381	94.641	1.00	63.68	C
ATOM	15322	SD	MET	C	274	44.652	34.271	92.906	1.00	66.50	S
ATOM	15323	CE	MET	C	274	43.761	35.674	92.237	1.00	67.97	C
ATOM	15327	C	MET	C	274	43.880	34.872	97.612	1.00	61.22	C
ATOM	15328	O	MET	C	274	44.754	34.620	98.430	1.00	61.87	O
ATOM	15330	N	GLY	C	275	42.748	34.186	97.521	1.00	60.68	N
ATOM	15331	CA	GLY	C	275	42.475	33.023	98.345	1.00	60.59	C
ATOM	15334	C	GLY	C	275	43.493	31.915	98.151	1.00	60.84	C
ATOM	15335	O	GLY	C	275	44.138	31.798	97.106	1.00	60.35	O
ATOM	15337	N	LYS	C	276	43.603	31.077	99.169	1.00	61.47	N
ATOM	15338	CA	LYS	C	276	44.681	30.095	99.270	1.00	61.21	C
ATOM	15340	CB	LYS	C	276	44.967	29.785	100.748	1.00	62.19	C
ATOM	15343	CG	LYS	C	276	43.720	29.409	101.590	1.00	65.47	C
ATOM	15346	CD	LYS	C	276	43.103	30.615	102.333	1.00	67.04	C
ATOM	15349	CE	LYS	C	276	41.612	30.417	102.632	1.00	66.23	C
ATOM	15352	NZ	LYS	C	276	41.367	29.395	103.692	1.00	59.95	N
ATOM	15356	C	LYS	C	276	44.351	28.807	98.518	1.00	60.48	C
ATOM	15357	O	LYS	C	276	45.243	28.020	98.207	1.00	59.19	O
ATOM	15359	N	LYS	C	277	43.064	28.609	98.234	1.00	59.98	N
ATOM	15360	CA	LYS	C	277	42.549	27.351	97.701	1.00	59.13	C
ATOM	15362	CB	LYS	C	277	42.187	26.416	98.863	1.00	59.67	C
ATOM	15365	CG	LYS	C	277	43.362	25.594	99.395	1.00	62.99	C
ATOM	15368	CD	LYS	C	277	43.094	25.014	100.790	1.00	63.32	C
ATOM	15371	CE	LYS	C	277	43.454	26.007	101.910	1.00	67.77	C
ATOM	15374	NZ	LYS	C	277	43.650	25.350	103.249	1.00	66.56	N
ATOM	15378	C	LYS	C	277	41.329	27.599	96.806	1.00	56.72	C
ATOM	15379	O	LYS	C	277	40.806	28.710	96.753	1.00	57.13	O
ATOM	15381	N	LEU	C	278	40.881	26.571	96.096	1.00	54.32	N
ATOM	15382	CA	LEU	C	278	39.716	26.713	95.227	1.00	52.98	C
ATOM	15384	CB	LEU	C	278	39.525	25.478	94.362	1.00	51.77	C
ATOM	15387	CG	LEU	C	278	40.576	25.328	93.271	1.00	54.79	C
ATOM	15389	CD1	LEU	C	278	40.435	23.980	92.607	1.00	57.28	C
ATOM	15393	CD2	LEU	C	278	40.467	26.454	92.242	1.00	56.60	C
ATOM	15397	C	LEU	C	278	38.469	26.932	96.054	1.00	50.20	C
ATOM	15398	O	LEU	C	278	38.413	26.492	97.202	1.00	48.54	O
ATOM	15400	N	PRO	C	279	37.465	27.624	95.484	1.00	48.92	N
ATOM	15401	CA	PRO	C	279	37.466	28.241	94.163	1.00	48.87	C
ATOM	15403	CB	PRO	C	279	35.991	28.569	93.940	1.00	48.66	C
ATOM	15406	CG	PRO	C	279	35.480	28.845	95.289	1.00	47.76	C
ATOM	15409	CD	PRO	C	279	36.183	27.855	96.174	1.00	48.41	C
ATOM	15412	C	PRO	C	279	38.294	29.529	94.104	1.00	49.11	C
ATOM	15413	O	PRO	C	279	38.301	30.310	95.059	1.00	48.14	O
ATOM	15414	N	LEU	C	280	38.974	29.736	92.976	1.00	48.91	N
ATOM	15415	CA	LEU	C	280	39.736	30.954	92.735	1.00	48.31	C
ATOM	15417	CB	LEU	C	280	40.032	31.141	91.245	1.00	45.56	C

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ATOM	15420	CG	LEU	C	280	40.723	30.005	90.488	1.00	45.81	C
ATOM	15422	CD1	LEU	C	280	40.958	30.396	89.043	1.00	46.69	C
ATOM	15426	CD2	LEU	C	280	42.033	29.620	91.134	1.00	44.94	C
ATOM	15430	C	LEU	C	280	38.916	32.122	93.248	1.00	48.75	C
ATOM	15431	O	LEU	C	280	37.744	32.272	92.909	1.00	48.16	O
ATOM	15433	N	HIS	C	281	39.522	32.937	94.094	1.00	51.52	N
ATOM	15434	CA	HIS	C	281	38.776	33.987	94.749	1.00	52.97	C
ATOM	15436	CB	HIS	C	281	37.944	33.388	95.882	1.00	55.29	C
ATOM	15439	CG	HIS	C	281	37.171	34.401	96.666	1.00	55.78	C
ATOM	15440	ND1	HIS	C	281	37.540	34.798	97.932	1.00	57.68	N
ATOM	15442	CE1	HIS	C	281	36.676	35.691	98.379	1.00	60.74	C
ATOM	15444	NE2	HIS	C	281	35.760	35.890	97.447	1.00	60.85	N
ATOM	15446	CD2	HIS	C	281	36.045	35.093	96.365	1.00	59.12	C
ATOM	15448	C	HIS	C	281	39.718	35.029	95.295	1.00	53.59	C
ATOM	15449	O	HIS	C	281	40.495	34.745	96.199	1.00	54.41	O
ATOM	15451	N	LEU	C	282	39.662	36.231	94.740	1.00	54.10	N
ATOM	15452	CA	LEU	C	282	40.476	37.311	95.256	1.00	55.59	C
ATOM	15454	CB	LEU	C	282	41.479	37.827	94.216	1.00	57.69	C
ATOM	15457	CG	LEU	C	282	41.109	38.746	93.043	1.00	61.91	C
ATOM	15459	CD1	LEU	C	282	40.456	40.052	93.499	1.00	64.07	C
ATOM	15463	CD2	LEU	C	282	40.245	38.068	92.016	1.00	65.90	C
ATOM	15467	C	LEU	C	282	39.587	38.411	95.763	1.00	55.77	C
ATOM	15468	O	LEU	C	282	38.398	38.461	95.427	1.00	53.36	O
ATOM	15470	N	THR	C	283	40.179	39.281	96.586	1.00	56.22	N
ATOM	15471	CA	THR	C	283	39.478	40.441	97.127	1.00	56.13	C
ATOM	15473	CB	THR	C	283	38.901	40.176	98.553	1.00	56.10	C
ATOM	15475	OG1	THR	C	283	38.975	41.369	99.347	1.00	51.35	O
ATOM	15477	CG2	THR	C	283	39.633	39.028	99.265	1.00	56.68	C
ATOM	15481	C	THR	C	283	40.317	41.721	97.119	1.00	56.00	C
ATOM	15482	O	THR	C	283	41.525	41.702	97.367	1.00	55.55	O
ATOM	15484	N	LEU	C	284	39.647	42.825	96.797	1.00	56.47	N
ATOM	15485	CA	LEU	C	284	40.190	44.152	96.991	1.00	57.17	C
ATOM	15487	CB	LEU	C	284	39.660	45.129	95.952	1.00	56.86	C
ATOM	15490	CG	LEU	C	284	40.173	45.008	94.524	1.00	58.84	C
ATOM	15492	CD1	LEU	C	284	39.788	43.674	93.911	1.00	61.44	C
ATOM	15496	CD2	LEU	C	284	39.624	46.161	93.700	1.00	58.80	C
ATOM	15500	C	LEU	C	284	39.715	44.618	98.344	1.00	57.25	C
ATOM	15501	O	LEU	C	284	38.510	44.690	98.572	1.00	56.00	O
ATOM	15503	N	PRO	C	285	40.647	44.941	99.251	1.00	59.41	N
ATOM	15504	CA	PRO	C	285	40.234	45.538	100.531	1.00	60.45	C
ATOM	15506	CB	PRO	C	285	41.563	45.785	101.268	1.00	60.29	C
ATOM	15509	CG	PRO	C	285	42.650	45.570	100.265	1.00	60.05	C
ATOM	15512	CD	PRO	C	285	42.104	44.738	99.160	1.00	59.55	C
ATOM	15515	C	PRO	C	285	39.435	46.847	100.401	1.00	60.94	C
ATOM	15516	O	PRO	C	285	38.739	47.228	101.343	1.00	61.14	O
ATOM	15517	N	GLN	C	286	39.500	47.490	99.233	1.00	62.02	N
ATOM	15518	CA	GLN	C	286	39.100	48.892	99.067	1.00	63.02	C
ATOM	15520	CB	GLN	C	286	40.281	49.809	99.434	1.00	64.74	C
ATOM	15523	CG	GLN	C	286	41.704	49.172	99.295	1.00	70.58	C
ATOM	15526	CD	GLN	C	286	42.080	48.713	97.865	1.00	75.12	C
ATOM	15527	OE1	GLN	C	286	42.483	49.522	97.027	1.00	77.23	O
ATOM	15528	NE2	GLN	C	286	41.985	47.408	97.609	1.00	71.67	N
ATOM	15531	C	GLN	C	286	38.612	49.227	97.643	1.00	62.97	C
ATOM	15532	O	GLN	C	286	39.400	49.249	96.690	1.00	62.71	O
ATOM	15534	N	ALA	C	287	37.318	49.499	97.498	1.00	62.09	N
ATOM	15535	CA	ALA	C	287	36.791	49.964	96.216	1.00	61.81	C
ATOM	15537	CB	ALA	C	287	35.293	49.800	96.159	1.00	62.58	C
ATOM	15541	C	ALA	C	287	37.167	51.427	96.013	1.00	61.81	C
ATOM	15542	O	ALA	C	287	37.006	52.247	96.919	1.00	60.71	O
ATOM	15544	N	LEU	C	288	37.677	51.741	94.825	1.00	61.62	N
ATOM	15545	CA	LEU	C	288	38.071	53.107	94.485	1.00	60.16	C
ATOM	15547	CB	LEU	C	288	39.554	53.325	94.791	1.00	61.22	C
ATOM	15550	CG	LEU	C	288	39.958	53.460	96.260	1.00	64.94	C

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ATOM	15552	CD1	LEU	C	288	41.489	53.510	96.400	1.00	65.46	C
ATOM	15556	CD2	LEU	C	288	39.302	54.701	96.880	1.00	65.41	C
ATOM	15560	C	LEU	C	288	37.814	53.415	93.012	1.00	58.56	C
ATOM	15561	O	LEU	C	288	37.878	52.514	92.168	1.00	58.21	O
ATOM	15563	N	PRO	C	289	37.527	54.692	92.695	1.00	56.06	N
ATOM	15564	CA	PRO	C	289	37.300	55.065	91.305	1.00	55.45	C
ATOM	15566	CB	PRO	C	289	37.254	56.605	91.344	1.00	56.33	C
ATOM	15569	CG	PRO	C	289	37.631	57.008	92.731	1.00	55.40	C
ATOM	15572	CD	PRO	C	289	37.373	55.842	93.603	1.00	56.31	C
ATOM	15575	C	PRO	C	289	38.396	54.575	90.354	1.00	53.92	C
ATOM	15576	O	PRO	C	289	38.083	54.128	89.250	1.00	54.03	O
ATOM	15577	N	GLN	C	290	39.656	54.644	90.781	1.00	52.07	N
ATOM	15578	CA	GLN	C	290	40.785	54.321	89.896	1.00	51.62	C
ATOM	15580	CB	GLN	C	290	42.111	54.860	90.453	1.00	51.09	C
ATOM	15583	CG	GLN	C	290	42.518	54.334	91.836	1.00	50.62	C
ATOM	15586	CD	GLN	C	290	42.359	55.372	92.944	1.00	48.92	C
ATOM	15587	OE1	GLN	C	290	41.281	55.935	93.141	1.00	50.38	O
ATOM	15588	NE2	GLN	C	290	43.436	55.619	93.677	1.00	38.93	N
ATOM	15591	C	GLN	C	290	40.916	52.826	89.565	1.00	51.22	C
ATOM	15592	O	GLN	C	290	41.587	52.462	88.595	1.00	51.06	O
ATOM	15594	N	TYR	C	291	40.276	51.967	90.355	1.00	50.25	N
ATOM	15595	CA	TYR	C	291	40.289	50.529	90.089	1.00	49.57	C
ATOM	15597	CB	TYR	C	291	40.384	49.746	91.397	1.00	51.28	C
ATOM	15600	CG	TYR	C	291	41.530	50.188	92.263	1.00	50.55	C
ATOM	15601	CD1	TYR	C	291	42.804	50.358	91.719	1.00	53.72	C
ATOM	15603	CE1	TYR	C	291	43.866	50.770	92.498	1.00	55.53	C
ATOM	15605	CZ	TYR	C	291	43.664	51.024	93.843	1.00	55.96	C
ATOM	15606	OH	TYR	C	291	44.724	51.428	94.608	1.00	54.10	O
ATOM	15608	CE2	TYR	C	291	42.407	50.866	94.409	1.00	53.50	C
ATOM	15610	CD2	TYR	C	291	41.350	50.445	93.617	1.00	51.86	C
ATOM	15612	C	TYR	C	291	39.067	50.068	89.313	1.00	48.31	C
ATOM	15613	O	TYR	C	291	38.974	48.891	88.970	1.00	46.37	O
ATOM	15615	N	ALA	C	292	38.142	50.991	89.039	1.00	47.83	N
ATOM	15616	CA	ALA	C	292	36.881	50.663	88.368	1.00	47.22	C
ATOM	15618	CB	ALA	C	292	35.852	51.766	88.573	1.00	47.73	C
ATOM	15622	C	ALA	C	292	37.133	50.459	86.897	1.00	45.67	C
ATOM	15623	O	ALA	C	292	37.833	51.244	86.280	1.00	48.25	O
ATOM	15625	N	GLY	C	293	36.550	49.408	86.337	1.00	45.01	N
ATOM	15626	CA	GLY	C	293	36.777	49.063	84.943	1.00	45.06	C
ATOM	15629	C	GLY	C	293	36.457	47.617	84.628	1.00	43.41	C
ATOM	15630	O	GLY	C	293	35.526	47.044	85.188	1.00	44.31	O
ATOM	15632	N	SER	C	294	37.231	47.031	83.724	1.00	43.46	N
ATOM	15633	CA	SER	C	294	36.982	45.670	83.282	1.00	45.43	C
ATOM	15635	CB	SER	C	294	36.201	45.666	81.982	1.00	44.75	C
ATOM	15638	OG	SER	C	294	35.833	44.339	81.659	1.00	45.27	O
ATOM	15640	C	SER	C	294	38.262	44.887	83.067	1.00	45.48	C
ATOM	15641	O	SER	C	294	39.237	45.404	82.518	1.00	43.96	O
ATOM	15643	N	GLY	C	295	38.235	43.626	83.479	1.00	47.01	N
ATOM	15644	CA	GLY	C	295	39.391	42.760	83.350	1.00	49.10	C
ATOM	15647	C	GLY	C	295	39.055	41.414	82.769	1.00	49.83	C
ATOM	15648	O	GLY	C	295	37.922	41.158	82.367	1.00	50.35	O
ATOM	15650	N	ASN	C	296	40.066	40.558	82.716	1.00	52.72	N
ATOM	15651	CA	ASN	C	296	39.915	39.184	82.250	1.00	54.40	C
ATOM	15653	CB	ASN	C	296	40.311	39.046	80.761	1.00	55.45	C
ATOM	15656	CG	ASN	C	296	39.126	39.164	79.808	1.00	60.32	C
ATOM	15657	OD1	ASN	C	296	37.970	39.045	80.220	1.00	69.70	O
ATOM	15658	ND2	ASN	C	296	39.413	39.388	78.519	1.00	56.58	N
ATOM	15661	C	ASN	C	296	40.820	38.299	83.077	1.00	54.20	C
ATOM	15662	O	ASN	C	296	42.043	38.426	83.003	1.00	54.47	O
ATOM	15664	N	LEU	C	297	40.226	37.419	83.873	1.00	54.66	N
ATOM	15665	CA	LEU	C	297	40.972	36.321	84.474	1.00	54.56	C
ATOM	15667	CB	LEU	C	297	40.152	35.637	85.564	1.00	53.85	C
ATOM	15670	CG	LEU	C	297	41.010	34.824	86.531	1.00	54.84	C

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ATOM	15672	CD1	LEU	C	297	41.612	35.742	87.598	1.00	55.62	C
ATOM	15676	CD2	LEU	C	297	40.222	33.704	87.181	1.00	56.64	C
ATOM	15680	C	LEU	C	297	41.253	35.334	83.353	1.00	54.66	C
ATOM	15681	O	LEU	C	297	40.333	34.948	82.648	1.00	56.15	O
ATOM	15683	N	THR	C	298	42.509	34.944	83.166	1.00	53.50	N
ATOM	15684	CA	THR	C	298	42.867	34.024	82.086	1.00	52.46	C
ATOM	15686	CB	THR	C	298	43.818	34.682	81.056	1.00	52.13	C
ATOM	15688	OG1	THR	C	298	44.623	35.673	81.703	1.00	58.09	O
ATOM	15690	CG2	THR	C	298	43.037	35.353	79.958	1.00	51.47	C
ATOM	15694	C	THR	C	298	43.555	32.834	82.689	1.00	50.44	C
ATOM	15695	O	THR	C	298	44.479	33.016	83.453	1.00	49.47	O
ATOM	15697	N	LEU	C	299	43.112	31.624	82.345	1.00	51.46	N
ATOM	15698	CA	LEU	C	299	43.686	30.385	82.911	1.00	52.21	C
ATOM	15700	CB	LEU	C	299	42.630	29.640	83.740	1.00	51.12	C
ATOM	15703	CG	LEU	C	299	43.014	28.884	85.016	1.00	51.18	C
ATOM	15705	CD1	LEU	C	299	42.167	27.628	85.149	1.00	52.26	C
ATOM	15709	CD2	LEU	C	299	44.471	28.518	85.085	1.00	54.18	C
ATOM	15713	C	LEU	C	299	44.183	29.443	81.820	1.00	52.74	C
ATOM	15714	O	LEU	C	299	43.394	28.986	80.987	1.00	56.41	O
ATOM	15716	N	ALA	C	300	45.477	29.138	81.821	1.00	50.94	N
ATOM	15717	CA	ALA	C	300	46.000	28.075	80.959	1.00	50.98	C
ATOM	15719	CB	ALA	C	300	47.303	28.479	80.326	1.00	49.38	C
ATOM	15723	C	ALA	C	300	46.171	26.792	81.761	1.00	49.99	C
ATOM	15724	O	ALA	C	300	46.526	26.826	82.931	1.00	48.15	O
ATOM	15726	N	LEU	C	301	45.915	25.661	81.119	1.00	52.33	N
ATOM	15727	CA	LEU	C	301	46.000	24.363	81.777	1.00	52.08	C
ATOM	15729	CB	LEU	C	301	44.660	23.672	81.642	1.00	51.48	C
ATOM	15732	CG	LEU	C	301	43.514	24.413	82.338	1.00	53.12	C
ATOM	15734	CD1	LEU	C	301	42.183	23.764	81.989	1.00	55.00	C
ATOM	15738	CD2	LEU	C	301	43.704	24.452	83.855	1.00	54.54	C
ATOM	15742	C	LEU	C	301	47.130	23.489	81.214	1.00	52.91	C
ATOM	15743	O	LEU	C	301	47.392	23.499	80.006	1.00	53.94	O
ATOM	15745	N	GLU	C	302	47.813	22.756	82.100	1.00	52.53	N
ATOM	15746	CA	GLU	C	302	48.928	21.876	81.701	1.00	51.61	C
ATOM	15748	CB	GLU	C	302	49.450	21.067	82.895	1.00	49.30	C
ATOM	15751	CG	GLU	C	302	50.804	20.385	82.667	1.00	53.13	C
ATOM	15754	CD	GLU	C	302	51.221	19.463	83.823	1.00	53.07	C
ATOM	15755	OE1	GLU	C	302	52.254	19.727	84.471	1.00	48.58	O
ATOM	15756	OE2	GLU	C	302	50.509	18.473	84.086	1.00	57.14	O
ATOM	15757	C	GLU	C	302	48.503	20.930	80.566	1.00	51.69	C
ATOM	15758	O	GLU	C	302	47.457	20.281	80.635	1.00	51.41	O
ATOM	15760	N	ALA	C	303	49.301	20.899	79.504	1.00	51.40	N
ATOM	15761	CA	ALA	C	303	49.089	19.992	78.386	1.00	51.60	C
ATOM	15763	CB	ALA	C	303	49.238	18.545	78.849	1.00	49.45	C
ATOM	15767	C	ALA	C	303	47.749	20.197	77.677	1.00	53.60	C
ATOM	15768	O	ALA	C	303	47.310	19.324	76.935	1.00	55.31	O
ATOM	15770	N	LYS	C	304	47.094	21.334	77.898	1.00	54.59	N
ATOM	15771	CA	LYS	C	304	45.888	21.676	77.150	1.00	54.23	C
ATOM	15773	CB	LYS	C	304	44.696	21.969	78.062	1.00	55.42	C
ATOM	15776	CG	LYS	C	304	44.341	20.880	79.069	1.00	58.77	C
ATOM	15779	CD	LYS	C	304	44.177	19.500	78.445	1.00	65.40	C
ATOM	15782	CE	LYS	C	304	43.549	18.512	79.432	1.00	68.77	C
ATOM	15785	NZ	LYS	C	304	44.119	18.611	80.811	1.00	75.82	N
ATOM	15789	C	LYS	C	304	46.203	22.909	76.341	1.00	54.72	C
ATOM	15790	O	LYS	C	304	46.881	23.817	76.808	1.00	55.64	O
ATOM	15792	N	THR	C	305	45.699	22.932	75.122	1.00	56.26	N
ATOM	15793	CA	THR	C	305	45.961	24.010	74.197	1.00	56.85	C
ATOM	15795	CB	THR	C	305	46.020	23.434	72.747	1.00	57.67	C
ATOM	15797	OG1	THR	C	305	46.833	24.270	71.905	1.00	62.10	O
ATOM	15799	CG2	THR	C	305	44.623	23.253	72.144	1.00	56.44	C
ATOM	15803	C	THR	C	305	44.868	25.072	74.415	1.00	58.13	C
ATOM	15804	O	THR	C	305	43.740	24.733	74.788	1.00	61.03	O
ATOM	15806	N	GLY	C	306	45.210	26.346	74.225	1.00	57.84	N

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ATOM	15807	CA	GLY	C	306	44.277	27.454	74.484	1.00	56.97	C
ATOM	15810	C	GLY	C	306	44.309	27.975	75.919	1.00	57.05	C
ATOM	15811	O	GLY	C	306	45.099	27.515	76.750	1.00	58.91	O
ATOM	15813	N	LYS	C	307	43.449	28.950	76.204	1.00	55.87	N
ATOM	15814	CA	LYS	C	307	43.263	29.479	77.559	1.00	55.32	C
ATOM	15816	CB	LYS	C	307	43.977	30.833	77.712	1.00	54.88	C
ATOM	15819	CG	LYS	C	307	45.503	30.764	77.759	1.00	55.79	C
ATOM	15822	CD	LYS	C	307	46.178	31.828	76.862	1.00	55.83	C
ATOM	15825	CE	LYS	C	307	46.583	33.078	77.612	1.00	53.46	C
ATOM	15828	NZ	LYS	C	307	47.798	32.841	78.423	1.00	46.54	N
ATOM	15832	C	LYS	C	307	41.772	29.664	77.863	1.00	54.09	C
ATOM	15833	O	LYS	C	307	41.002	30.086	77.007	1.00	52.18	O
ATOM	15835	N	LEU	C	308	41.374	29.360	79.092	1.00	55.57	N
ATOM	15836	CA	LEU	C	308	40.048	29.748	79.594	1.00	54.38	C
ATOM	15838	CB	LEU	C	308	39.630	28.873	80.766	1.00	51.97	C
ATOM	15841	CG	LEU	C	308	39.722	27.373	80.526	1.00	52.51	C
ATOM	15843	CD1	LEU	C	308	39.420	26.638	81.805	1.00	51.52	C
ATOM	15847	CD2	LEU	C	308	38.771	26.979	79.413	1.00	53.45	C
ATOM	15851	C	LEU	C	308	40.112	31.194	80.070	1.00	54.94	C
ATOM	15852	O	LEU	C	308	41.188	31.696	80.411	1.00	53.89	O
ATOM	15854	N	HIS	C	309	38.963	31.857	80.104	1.00	54.30	N
ATOM	15855	CA	HIS	C	309	38.892	33.193	80.667	1.00	54.34	C
ATOM	15857	CB	HIS	C	309	39.417	34.219	79.675	1.00	54.86	C
ATOM	15860	CG	HIS	C	309	38.779	34.123	78.337	1.00	56.38	C
ATOM	15861	ND1	HIS	C	309	37.620	34.795	78.021	1.00	61.79	N
ATOM	15863	CE1	HIS	C	309	37.276	34.512	76.777	1.00	62.46	C
ATOM	15865	NE2	HIS	C	309	38.170	33.676	76.278	1.00	65.05	N
ATOM	15867	CD2	HIS	C	309	39.120	33.414	77.237	1.00	61.15	C
ATOM	15869	C	HIS	C	309	37.488	33.566	81.112	1.00	54.11	C
ATOM	15870	O	HIS	C	309	36.505	32.971	80.680	1.00	55.91	O
ATOM	15872	N	GLN	C	310	37.422	34.550	82.002	1.00	53.63	N
ATOM	15873	CA	GLN	C	310	36.171	35.055	82.549	1.00	53.49	C
ATOM	15875	CB	GLN	C	310	35.883	34.435	83.921	1.00	51.89	C
ATOM	15878	CG	GLN	C	310	34.777	35.146	84.698	1.00	53.15	C
ATOM	15881	CD	GLN	C	310	34.332	34.402	85.939	1.00	54.86	C
ATOM	15882	OE1	GLN	C	310	34.822	33.311	86.248	1.00	62.77	O
ATOM	15883	NE2	GLN	C	310	33.391	34.992	86.662	1.00	51.39	N
ATOM	15886	C	GLN	C	310	36.329	36.546	82.688	1.00	53.43	C
ATOM	15887	O	GLN	C	310	37.351	36.994	83.202	1.00	57.46	O
ATOM	15889	N	GLU	C	311	35.340	37.317	82.243	1.00	52.22	N
ATOM	15890	CA	GLU	C	311	35.429	38.761	82.361	1.00	53.58	C
ATOM	15892	CB	GLU	C	311	34.816	39.467	81.147	1.00	54.22	C
ATOM	15895	CG	GLU	C	311	33.398	40.014	81.329	1.00	59.50	C
ATOM	15898	CD	GLU	C	311	33.042	41.104	80.318	1.00	58.01	C
ATOM	15899	OE1	GLU	C	311	33.860	41.389	79.413	1.00	57.32	O
ATOM	15900	OE2	GLU	C	311	31.933	41.675	80.434	1.00	62.91	O
ATOM	15901	C	GLU	C	311	34.846	39.250	83.699	1.00	53.73	C
ATOM	15902	O	GLU	C	311	33.908	38.661	84.252	1.00	53.70	O
ATOM	15904	N	VAL	C	312	35.444	40.323	84.215	1.00	53.28	N
ATOM	15905	CA	VAL	C	312	35.098	40.873	85.517	1.00	52.30	C
ATOM	15907	CB	VAL	C	312	36.175	40.622	86.598	1.00	53.43	C
ATOM	15909	CG1	VAL	C	312	35.628	39.717	87.701	1.00	57.05	C
ATOM	15913	CG2	VAL	C	312	37.450	40.058	85.992	1.00	56.18	C
ATOM	15917	C	VAL	C	312	34.939	42.357	85.395	1.00	51.99	C
ATOM	15918	O	VAL	C	312	35.651	43.001	84.624	1.00	51.64	O
ATOM	15920	N	ASN	C	313	34.017	42.892	86.191	1.00	51.65	N
ATOM	15921	CA	ASN	C	313	33.638	44.286	86.119	1.00	49.32	C
ATOM	15923	CB	ASN	C	313	32.438	44.426	85.196	1.00	48.44	C
ATOM	15926	CG	ASN	C	313	32.815	44.221	83.759	1.00	45.89	C
ATOM	15927	OD1	ASN	C	313	32.339	43.308	83.095	1.00	38.92	O
ATOM	15928	ND2	ASN	C	313	33.724	45.049	83.281	1.00	51.95	N
ATOM	15931	C	ASN	C	313	33.344	44.875	87.483	1.00	48.98	C
ATOM	15932	O	ASN	C	313	32.650	44.265	88.303	1.00	46.07	O

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ATOM	15934	N	LEU	C	314	33.889	46.070	87.709	1.00	48.99	N
ATOM	15935	CA	LEU	C	314	33.756	46.762	88.980	1.00	47.98	C
ATOM	15937	CB	LEU	C	314	35.114	46.840	89.677	1.00	48.55	C
ATOM	15940	CG	LEU	C	314	35.188	46.913	91.208	1.00	48.14	C
ATOM	15942	CD1	LEU	C	314	33.922	47.434	91.875	1.00	49.00	C
ATOM	15946	CD2	LEU	C	314	36.402	47.749	91.612	1.00	46.00	C
ATOM	15950	C	LEU	C	314	33.246	48.156	88.705	1.00	46.12	C
ATOM	15951	O	LEU	C	314	33.892	48.914	87.986	1.00	44.60	O
ATOM	15953	N	VAL	C	315	32.084	48.476	89.268	1.00	46.55	N
ATOM	15954	CA	VAL	C	315	31.492	49.810	89.165	1.00	48.31	C
ATOM	15956	CB	VAL	C	315	30.033	49.743	88.660	1.00	48.87	C
ATOM	15958	CG1	VAL	C	315	29.352	51.142	88.711	1.00	48.61	C
ATOM	15962	CG2	VAL	C	315	29.979	49.150	87.257	1.00	46.96	C
ATOM	15966	C	VAL	C	315	31.492	50.423	90.550	1.00	48.60	C
ATOM	15967	O	VAL	C	315	31.057	49.773	91.494	1.00	48.35	O
ATOM	15969	N	VAL	C	316	31.978	51.658	90.684	1.00	50.12	N
ATOM	15970	CA	VAL	C	316	31.987	52.322	91.996	1.00	51.50	C
ATOM	15972	CB	VAL	C	316	33.420	52.384	92.641	1.00	50.80	C
ATOM	15974	CG1	VAL	C	316	34.016	53.791	92.611	1.00	51.53	C
ATOM	15978	CG2	VAL	C	316	34.362	51.365	91.993	1.00	48.64	C
ATOM	15982	C	VAL	C	316	31.301	53.696	91.965	1.00	53.36	C
ATOM	15983	O	VAL	C	316	31.335	54.408	90.955	1.00	52.62	O
ATOM	15985	N	MET	C	317	30.678	54.043	93.092	1.00	55.34	N
ATOM	15986	CA	MET	C	317	29.909	55.271	93.242	1.00	55.75	C
ATOM	15988	CB	MET	C	317	28.457	54.914	93.573	1.00	55.48	C
ATOM	15991	CG	MET	C	317	27.571	56.095	93.955	1.00	56.94	C
ATOM	15994	SD	MET	C	317	25.975	55.578	94.619	1.00	59.40	S
ATOM	15995	CE	MET	C	317	25.119	55.060	93.131	1.00	58.37	C
ATOM	15999	C	MET	C	317	30.514	56.104	94.365	1.00	56.25	C
ATOM	16000	O	MET	C	317	30.941	55.552	95.378	1.00	56.82	O
ATOM	16002	N	ARG	C	318	30.555	57.425	94.171	1.00	57.90	N
ATOM	16003	CA	ARG	C	318	30.971	58.400	95.207	1.00	57.97	C
ATOM	16005	CB	ARG	C	318	32.270	59.107	94.775	1.00	57.36	C
ATOM	16008	CG	ARG	C	318	32.761	60.231	95.695	1.00	58.75	C
ATOM	16011	CD	ARG	C	318	33.948	60.981	95.107	1.00	60.71	C
ATOM	16014	NE	ARG	C	318	35.186	60.207	95.163	1.00	63.93	N
ATOM	16016	CZ	ARG	C	318	36.370	60.640	94.729	1.00	65.87	C
ATOM	16017	NH1	ARG	C	318	36.503	61.846	94.182	1.00	67.21	N
ATOM	16020	NH2	ARG	C	318	37.433	59.850	94.833	1.00	66.87	N
ATOM	16023	C	ARG	C	318	29.824	59.409	95.401	1.00	57.93	C
ATOM	16024	O	ARG	C	318	28.942	59.500	94.542	1.00	59.39	O
ATOM	16026	N	ALA	C	319	29.811	60.148	96.513	1.00	56.94	N
ATOM	16027	CA	ALA	C	319	28.779	61.175	96.717	1.00	56.32	C
ATOM	16029	CB	ALA	C	319	27.472	60.512	97.139	1.00	55.67	C
ATOM	16033	C	ALA	C	319	29.149	62.293	97.712	1.00	56.15	C
ATOM	16034	O	ALA	C	319	29.554	62.022	98.843	1.00	54.59	O
ATOM	16036	N	THR	C	320	29.015	63.543	97.256	1.00	56.55	N
ATOM	16037	CA	THR	C	320	28.993	64.741	98.111	1.00	56.45	C
ATOM	16039	CB	THR	C	320	30.386	65.083	98.735	1.00	57.04	C
ATOM	16041	OG1	THR	C	320	30.835	64.004	99.564	1.00	55.35	O
ATOM	16043	CG2	THR	C	320	30.328	66.378	99.589	1.00	56.22	C
ATOM	16047	C	THR	C	320	28.498	65.922	97.261	1.00	57.29	C
ATOM	16048	O	THR	C	320	27.834	66.842	97.751	1.00	58.33	O
ATOM	16050	N	VAL	C	330	29.705	58.049	89.659	1.00	55.06	N
ATOM	16051	CA	VAL	C	330	29.701	56.652	89.240	1.00	56.85	C
ATOM	16053	CB	VAL	C	330	28.305	56.237	88.691	1.00	56.62	C
ATOM	16055	CG1	VAL	C	330	28.388	55.089	87.689	1.00	55.47	C
ATOM	16059	CG2	VAL	C	330	27.390	55.852	89.841	1.00	56.71	C
ATOM	16063	C	VAL	C	330	30.804	56.391	88.208	1.00	57.90	C
ATOM	16064	O	VAL	C	330	30.755	56.915	87.091	1.00	59.13	O
ATOM	16066	N	TRP	C	331	31.788	55.578	88.598	1.00	57.92	N
ATOM	16067	CA	TRP	C	331	32.913	55.208	87.731	1.00	57.68	C
ATOM	16069	CB	TRP	C	331	34.254	55.418	88.452	1.00	58.00	C

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ATOM	16072	CG	TRP	C	331	34.369	56.735	89.167	1.00	58.37	C
ATOM	16073	CD1	TRP	C	331	33.790	57.076	90.359	1.00	59.27	C
ATOM	16075	NE1	TRP	C	331	34.120	58.364	90.698	1.00	58.13	N
ATOM	16077	CE2	TRP	C	331	34.930	58.883	89.725	1.00	58.30	C
ATOM	16078	CD2	TRP	C	331	35.112	57.879	88.744	1.00	57.76	C
ATOM	16079	CE3	TRP	C	331	35.910	58.159	87.631	1.00	59.16	C
ATOM	16081	CZ3	TRP	C	331	36.496	59.423	87.531	1.00	59.85	C
ATOM	16083	CH2	TRP	C	331	36.295	60.398	88.526	1.00	59.38	C
ATOM	16085	CZ2	TRP	C	331	35.518	60.147	89.625	1.00	59.26	C
ATOM	16087	C	TRP	C	331	32.768	53.742	87.329	1.00	57.31	C
ATOM	16088	O	TRP	C	331	32.085	52.978	88.005	1.00	56.27	O
ATOM	16090	N	GLY	C	332	33.416	53.357	86.233	1.00	57.45	N
ATOM	16091	CA	GLY	C	332	33.375	51.975	85.751	1.00	57.64	C
ATOM	16094	C	GLY	C	332	32.506	51.791	84.518	1.00	57.59	C
ATOM	16095	O	GLY	C	332	31.910	52.752	84.025	1.00	57.31	O
ATOM	16097	N	PRO	C	333	32.414	50.545	84.018	1.00	58.46	N
ATOM	16098	CA	PRO	C	333	31.732	50.235	82.768	1.00	59.07	C
ATOM	16100	CB	PRO	C	333	32.371	48.904	82.358	1.00	59.60	C
ATOM	16103	CG	PRO	C	333	32.650	48.223	83.648	1.00	59.05	C
ATOM	16106	CD	PRO	C	333	32.967	49.328	84.645	1.00	59.59	C
ATOM	16109	C	PRO	C	333	30.225	50.084	82.942	1.00	59.62	C
ATOM	16110	O	PRO	C	333	29.701	48.973	82.883	1.00	60.90	O
ATOM	16111	N	THR	C	334	29.541	51.201	83.166	1.00	60.47	N
ATOM	16112	CA	THR	C	334	28.085	51.216	83.248	1.00	60.23	C
ATOM	16114	CB	THR	C	334	27.570	52.473	83.979	1.00	59.50	C
ATOM	16116	OG1	THR	C	334	28.134	53.648	83.377	1.00	59.67	O
ATOM	16118	CG2	THR	C	334	27.935	52.432	85.446	1.00	59.63	C
ATOM	16122	C	THR	C	334	27.488	51.245	81.856	1.00	60.60	C
ATOM	16123	O	THR	C	334	28.079	51.811	80.939	1.00	59.82	O
ATOM	16125	N	SER	C	335	26.317	50.634	81.707	1.00	62.05	N
ATOM	16126	CA	SER	C	335	25.449	50.904	80.565	1.00	63.29	C
ATOM	16128	CB	SER	C	335	24.318	49.883	80.516	1.00	63.64	C
ATOM	16131	OG	SER	C	335	23.435	50.161	79.450	1.00	65.85	O
ATOM	16133	C	SER	C	335	24.893	52.339	80.711	1.00	64.34	C
ATOM	16134	O	SER	C	335	24.634	52.793	81.831	1.00	63.83	O
ATOM	16136	N	PRO	C	336	24.720	53.063	79.590	1.00	64.64	N
ATOM	16137	CA	PRO	C	336	24.385	54.496	79.689	1.00	64.48	C
ATOM	16139	CB	PRO	C	336	24.532	54.987	78.239	1.00	64.30	C
ATOM	16142	CG	PRO	C	336	24.291	53.782	77.409	1.00	65.37	C
ATOM	16145	CD	PRO	C	336	24.838	52.621	78.187	1.00	64.06	C
ATOM	16148	C	PRO	C	336	22.981	54.821	80.249	1.00	65.44	C
ATOM	16149	O	PRO	C	336	22.066	55.133	79.479	1.00	66.87	O
ATOM	16150	N	LYS	C	337	22.831	54.758	81.579	1.00	64.56	N
ATOM	16151	CA	LYS	C	337	21.564	55.093	82.266	1.00	62.95	C
ATOM	16153	CB	LYS	C	337	20.710	53.834	82.472	1.00	62.05	C
ATOM	16156	CG	LYS	C	337	20.170	53.233	81.178	1.00	62.02	C
ATOM	16159	CD	LYS	C	337	21.107	52.176	80.566	1.00	61.81	C
ATOM	16162	CE	LYS	C	337	21.019	52.134	79.034	1.00	60.44	C
ATOM	16165	NZ	LYS	C	337	19.635	52.350	78.526	1.00	59.46	N
ATOM	16169	C	LYS	C	337	21.810	55.788	83.615	1.00	61.03	C
ATOM	16170	O	LYS	C	337	20.879	56.051	84.383	1.00	58.00	O
ATOM	16172	N	ARG	C	354	20.546	61.328	83.040	1.00	55.99	N
ATOM	16173	CA	ARG	C	354	20.589	59.985	82.461	1.00	56.57	C
ATOM	16175	CB	ARG	C	354	19.567	59.876	81.322	1.00	57.24	C
ATOM	16178	CG	ARG	C	354	19.072	58.458	81.004	1.00	56.58	C
ATOM	16181	CD	ARG	C	354	18.319	58.462	79.677	1.00	57.64	C
ATOM	16184	NE	ARG	C	354	17.457	57.294	79.483	1.00	59.21	N
ATOM	16186	CZ	ARG	C	354	17.869	56.084	79.098	1.00	62.12	C
ATOM	16187	NH1	ARG	C	354	19.160	55.835	78.874	1.00	63.09	N
ATOM	16190	NH2	ARG	C	354	16.980	55.105	78.944	1.00	60.23	N
ATOM	16193	C	ARG	C	354	21.989	59.617	81.947	1.00	56.42	C
ATOM	16194	O	ARG	C	354	22.176	58.550	81.353	1.00	56.98	O
ATOM	16196	N	GLU	C	355	22.963	60.496	82.181	1.00	55.97	N

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ATOM	16197	CA	GLU	C	355	24.348	60.265	81.743	1.00	56.10	C
ATOM	16199	CB	GLU	C	355	25.094	61.595	81.495	1.00	56.26	C
ATOM	16202	CG	GLU	C	355	24.971	62.665	82.594	1.00	58.07	C
ATOM	16205	CD	GLU	C	355	25.775	63.924	82.291	1.00	59.24	C
ATOM	16206	OE1	GLU	C	355	26.180	64.108	81.121	1.00	63.00	O
ATOM	16207	OE2	GLU	C	355	25.991	64.736	83.223	1.00	59.75	O
ATOM	16208	C	GLU	C	355	25.066	59.333	82.739	1.00	55.60	C
ATOM	16209	O	GLU	C	355	24.707	58.153	82.826	1.00	56.66	O
ATOM	16211	N	LYS	C	356	26.080	59.821	83.458	1.00	53.49	N
ATOM	16212	CA	LYS	C	356	26.651	59.066	84.580	1.00	51.84	C
ATOM	16214	CB	LYS	C	356	27.597	57.966	84.071	1.00	53.18	C
ATOM	16217	CG	LYS	C	356	28.828	58.448	83.315	1.00	54.06	C
ATOM	16220	CD	LYS	C	356	29.508	57.283	82.569	1.00	53.29	C
ATOM	16223	CE	LYS	C	356	30.107	56.250	83.520	1.00	54.75	C
ATOM	16226	NZ	LYS	C	356	30.751	55.123	82.792	1.00	55.37	N
ATOM	16230	C	LYS	C	356	27.350	59.955	85.605	1.00	49.04	C
ATOM	16231	O	LYS	C	356	28.331	59.548	86.225	1.00	45.89	O
ATOM	16233	N	ALA	C	357	26.806	61.159	85.790	1.00	48.50	N
ATOM	16234	CA	ALA	C	357	27.351	62.157	86.714	1.00	46.63	C
ATOM	16236	CB	ALA	C	357	28.579	62.816	86.112	1.00	45.61	C
ATOM	16240	C	ALA	C	357	26.298	63.215	87.034	1.00	45.31	C
ATOM	16241	O	ALA	C	357	25.644	63.728	86.128	1.00	45.63	O
ATOM	16243	N	VAL	C	358	26.125	63.520	88.320	1.00	44.05	N
ATOM	16244	CA	VAL	C	358	25.309	64.657	88.759	1.00	42.95	C
ATOM	16246	CB	VAL	C	358	23.887	64.238	89.194	1.00	41.93	C
ATOM	16248	CG1	VAL	C	358	23.062	65.487	89.580	1.00	44.44	C
ATOM	16252	CG2	VAL	C	358	23.187	63.431	88.093	1.00	39.41	C
ATOM	16256	C	VAL	C	358	25.986	65.344	89.938	1.00	41.70	C
ATOM	16257	O	VAL	C	358	26.273	64.705	90.950	1.00	40.16	O
ATOM	16259	N	GLN	C	369	20.802	59.693	99.692	1.00	58.70	N
ATOM	16260	CA	GLN	C	369	20.248	58.830	98.652	1.00	58.80	C
ATOM	16262	CB	GLN	C	369	18.712	58.912	98.650	1.00	58.56	C
ATOM	16265	CG	GLN	C	369	18.019	57.828	99.472	1.00	58.03	C
ATOM	16268	CD	GLN	C	369	17.886	56.511	98.719	1.00	58.02	C
ATOM	16269	OE1	GLN	C	369	16.807	55.919	98.665	1.00	56.87	O
ATOM	16270	NE2	GLN	C	369	18.981	56.051	98.129	1.00	57.80	N
ATOM	16273	C	GLN	C	369	20.805	59.160	97.260	1.00	58.81	C
ATOM	16274	O	GLN	C	369	20.224	59.951	96.517	1.00	58.46	O
ATOM	16276	N	CYS	C	370	21.934	58.546	96.920	1.00	58.82	N
ATOM	16277	CA	CYS	C	370	22.497	58.633	95.577	1.00	58.96	C
ATOM	16279	CB	CYS	C	370	23.986	58.982	95.644	1.00	58.34	C
ATOM	16282	SG	CYS	C	370	24.823	59.093	94.034	1.00	58.56	S
ATOM	16284	C	CYS	C	370	22.299	57.266	94.940	1.00	58.95	C
ATOM	16285	O	CYS	C	370	22.869	56.297	95.414	1.00	59.29	O
ATOM	16287	N	LEU	C	371	21.487	57.185	93.886	1.00	59.28	N
ATOM	16288	CA	LEU	C	371	21.130	55.892	93.290	1.00	60.81	C
ATOM	16290	CB	LEU	C	371	19.635	55.612	93.451	1.00	61.08	C
ATOM	16293	CG	LEU	C	371	19.071	55.621	94.878	1.00	62.29	C
ATOM	16295	CD1	LEU	C	371	18.817	57.048	95.375	1.00	61.30	C
ATOM	16299	CD2	LEU	C	371	17.792	54.792	94.941	1.00	61.35	C
ATOM	16303	C	LEU	C	371	21.491	55.780	91.810	1.00	61.35	C
ATOM	16304	O	LEU	C	371	21.272	56.713	91.035	1.00	60.21	O
ATOM	16306	N	LEU	C	372	22.030	54.616	91.434	1.00	62.36	N
ATOM	16307	CA	LEU	C	372	22.347	54.292	90.043	1.00	62.61	C
ATOM	16309	CB	LEU	C	372	23.659	53.503	89.972	1.00	62.88	C
ATOM	16312	CG	LEU	C	372	24.294	53.140	88.618	1.00	62.86	C
ATOM	16314	CD1	LEU	C	372	23.871	51.756	88.154	1.00	63.96	C
ATOM	16318	CD2	LEU	C	372	24.010	54.179	87.545	1.00	61.39	C
ATOM	16322	C	LEU	C	372	21.177	53.500	89.461	1.00	62.81	C
ATOM	16323	O	LEU	C	372	20.928	52.364	89.859	1.00	62.23	O
ATOM	16325	N	SER	C	373	20.470	54.117	88.515	1.00	64.42	N
ATOM	16326	CA	SER	C	373	19.113	53.705	88.144	1.00	64.55	C
ATOM	16328	CB	SER	C	373	18.329	54.911	87.605	1.00	64.64	C

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ATOM	16331	OG	SER	C	373	17.017	54.536	87.230	1.00	63.48	O
ATOM	16333	C	SER	C	373	19.049	52.511	87.180	1.00	65.11	C
ATOM	16334	O	SER	C	373	19.255	51.380	87.610	1.00	65.77	O
ATOM	16336	N	ASP	C	374	18.795	52.765	85.892	1.00	66.20	N
ATOM	16337	CA	ASP	C	374	18.306	51.744	84.933	1.00	66.59	C
ATOM	16339	CB	ASP	C	374	19.238	50.520	84.834	1.00	66.84	C
ATOM	16342	CG	ASP	C	374	18.656	49.396	83.962	1.00	67.39	C
ATOM	16343	OD1	ASP	C	374	17.629	49.613	83.271	1.00	67.44	O
ATOM	16344	OD2	ASP	C	374	19.230	48.284	83.976	1.00	67.12	O
ATOM	16345	C	ASP	C	374	16.863	51.304	85.253	1.00	67.09	C
ATOM	16346	O	ASP	C	374	16.644	50.266	85.898	1.00	66.14	O
ATOM	16348	N	SER	C	375	15.897	52.094	84.769	1.00	66.87	N
ATOM	16349	CA	SER	C	375	14.466	51.872	85.017	1.00	66.49	C
ATOM	16351	CB	SER	C	375	14.014	50.519	84.447	1.00	65.83	C
ATOM	16354	OG	SER	C	375	14.576	50.279	83.166	1.00	64.07	O
ATOM	16356	C	SER	C	375	14.162	51.980	86.521	1.00	66.91	C
ATOM	16357	O	SER	C	375	14.897	52.645	87.258	1.00	66.74	O
ATOM	16359	N	GLY	C	376	13.079	51.347	86.973	1.00	67.56	N
ATOM	16360	CA	GLY	C	376	12.790	51.242	88.405	1.00	67.85	C
ATOM	16363	C	GLY	C	376	13.810	50.390	89.148	1.00	68.64	C
ATOM	16364	O	GLY	C	376	13.990	50.545	90.360	1.00	68.85	O
ATOM	16366	N	GLN	C	377	14.475	49.493	88.413	1.00	68.94	N
ATOM	16367	CA	GLN	C	377	15.485	48.581	88.964	1.00	68.70	C
ATOM	16369	CB	GLN	C	377	15.870	47.539	87.901	1.00	67.76	C
ATOM	16372	CG	GLN	C	377	16.831	46.447	88.365	1.00	66.43	C
ATOM	16375	CD	GLN	C	377	16.306	45.645	89.539	1.00	60.07	C
ATOM	16376	OE1	GLN	C	377	15.103	45.434	89.680	1.00	52.17	O
ATOM	16377	NE2	GLN	C	377	17.215	45.187	90.389	1.00	59.82	N
ATOM	16380	C	GLN	C	377	16.726	49.340	89.446	1.00	69.09	C
ATOM	16381	O	GLN	C	377	17.379	50.020	88.659	1.00	69.17	O
ATOM	16383	N	VAL	C	378	17.040	49.211	90.736	1.00	69.57	N
ATOM	16384	CA	VAL	C	378	18.168	49.919	91.356	1.00	69.61	C
ATOM	16386	CB	VAL	C	378	17.785	50.471	92.747	1.00	68.96	C
ATOM	16388	CG1	VAL	C	378	18.987	51.135	93.419	1.00	67.72	C
ATOM	16392	CG2	VAL	C	378	16.615	51.447	92.628	1.00	67.99	C
ATOM	16396	C	VAL	C	378	19.377	49.001	91.510	1.00	69.56	C
ATOM	16397	O	VAL	C	378	19.230	47.810	91.768	1.00	67.72	O
ATOM	16399	N	LEU	C	379	20.569	49.573	91.353	1.00	70.96	N
ATOM	16400	CA	LEU	C	379	21.818	48.824	91.472	1.00	72.24	C
ATOM	16402	CB	LEU	C	379	22.551	48.821	90.129	1.00	71.75	C
ATOM	16405	CG	LEU	C	379	21.825	48.183	88.943	1.00	70.13	C
ATOM	16407	CD1	LEU	C	379	22.418	48.670	87.631	1.00	68.84	C
ATOM	16411	CD2	LEU	C	379	21.875	46.669	89.023	1.00	69.36	C
ATOM	16415	C	LEU	C	379	22.766	49.354	92.556	1.00	73.37	C
ATOM	16416	O	LEU	C	379	23.766	48.701	92.840	1.00	72.68	O
ATOM	16418	N	LEU	C	380	22.465	50.513	93.153	1.00	75.64	N
ATOM	16419	CA	LEU	C	380	23.341	51.118	94.179	1.00	77.70	C
ATOM	16421	CB	LEU	C	380	24.597	51.731	93.519	1.00	77.62	C
ATOM	16424	CG	LEU	C	380	25.868	50.880	93.318	1.00	74.95	C
ATOM	16426	CD1	LEU	C	380	26.868	51.568	92.394	1.00	71.94	C
ATOM	16430	CD2	LEU	C	380	26.525	50.562	94.651	1.00	74.30	C
ATOM	16434	C	LEU	C	380	22.640	52.186	95.051	1.00	79.41	C
ATOM	16435	O	LEU	C	380	21.567	52.685	94.704	1.00	78.89	O
ATOM	16437	N	GLU	C	381	23.263	52.509	96.187	1.00	82.32	N
ATOM	16438	CA	GLU	C	381	22.857	53.631	97.051	1.00	83.82	C
ATOM	16440	CB	GLU	C	381	21.840	53.174	98.118	1.00	84.66	C
ATOM	16443	CG	GLU	C	381	21.539	54.238	99.213	1.00	86.27	C
ATOM	16446	CD	GLU	C	381	20.385	53.893	100.145	1.00	88.12	C
ATOM	16447	OE1	GLU	C	381	19.818	52.779	100.049	1.00	94.19	O
ATOM	16448	OE2	GLU	C	381	20.056	54.758	100.989	1.00	90.42	O
ATOM	16449	C	GLU	C	381	24.098	54.259	97.716	1.00	84.49	C
ATOM	16450	O	GLU	C	381	25.192	53.713	97.605	1.00	83.91	O
ATOM	16452	N	SER	C	382	23.932	55.426	98.352	1.00	86.31	N

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ATOM	16453	CA	SER	C	382	24.911	55.965	99.324	1.00	85.92	C
ATOM	16455	CB	SER	C	382	25.856	56.980	98.665	1.00	86.71	C
ATOM	16458	OG	SER	C	382	26.433	56.470	97.471	1.00	86.98	O
ATOM	16460	C	SER	C	382	24.207	56.625	100.518	1.00	84.88	C
ATOM	16461	O	SER	C	382	23.001	56.886	100.487	1.00	83.67	O
ATOM	16463	N	LYS	D	26	-0.972	-25.299	48.770	1.00	70.07	N
ATOM	16464	CA	LYS	D	26	0.051	-24.786	49.737	1.00	68.39	C
ATOM	16466	CB	LYS	D	26	0.832	-23.618	49.123	1.00	69.11	C
ATOM	16469	CG	LYS	D	26	1.769	-24.038	47.974	1.00	72.87	C
ATOM	16472	CD	LYS	D	26	2.589	-25.283	48.338	1.00	73.86	C
ATOM	16475	CE	LYS	D	26	3.816	-25.450	47.480	1.00	71.75	C
ATOM	16478	NZ	LYS	D	26	4.579	-26.640	47.939	1.00	72.71	N
ATOM	16482	C	LYS	D	26	-0.557	-24.407	51.094	1.00	66.49	C
ATOM	16483	O	LYS	D	26	-1.600	-23.758	51.173	1.00	66.25	O
ATOM	16487	N	LYS	D	27	0.123	-24.833	52.151	1.00	64.50	N
ATOM	16488	CA	LYS	D	27	-0.417	-24.823	53.502	1.00	64.07	C
ATOM	16490	CB	LYS	D	27	0.569	-25.506	54.470	1.00	64.67	C
ATOM	16493	CG	LYS	D	27	0.480	-27.028	54.535	1.00	67.71	C
ATOM	16496	CD	LYS	D	27	0.688	-27.542	55.988	1.00	70.79	C
ATOM	16499	CE	LYS	D	27	-0.572	-27.377	56.894	1.00	73.69	C
ATOM	16502	NZ	LYS	D	27	-1.594	-28.479	56.725	1.00	73.86	N
ATOM	16506	C	LYS	D	27	-0.739	-23.435	54.058	1.00	61.47	C
ATOM	16507	O	LYS	D	27	-0.069	-22.453	53.754	1.00	60.62	O
ATOM	16509	N	VAL	D	28	-1.783	-23.393	54.880	1.00	59.37	N
ATOM	16510	CA	VAL	D	28	-2.031	-22.309	55.807	1.00	58.01	C
ATOM	16512	CB	VAL	D	28	-3.452	-21.751	55.652	1.00	58.42	C
ATOM	16514	CG1	VAL	D	28	-3.819	-20.811	56.804	1.00	61.21	C
ATOM	16518	CG2	VAL	D	28	-3.579	-21.025	54.331	1.00	61.55	C
ATOM	16522	C	VAL	D	28	-1.844	-22.880	57.207	1.00	56.58	C
ATOM	16523	O	VAL	D	28	-2.271	-23.997	57.497	1.00	59.08	O
ATOM	16525	N	VAL	D	29	-1.177	-22.111	58.058	1.00	54.64	N
ATOM	16526	CA	VAL	D	29	-0.961	-22.467	59.449	1.00	53.80	C
ATOM	16528	CB	VAL	D	29	0.498	-22.932	59.693	1.00	53.90	C
ATOM	16530	CG1	VAL	D	29	0.776	-23.135	61.189	1.00	51.83	C
ATOM	16534	CG2	VAL	D	29	0.795	-24.202	58.904	1.00	51.54	C
ATOM	16538	C	VAL	D	29	-1.257	-21.223	60.279	1.00	53.97	C
ATOM	16539	O	VAL	D	29	-0.766	-20.133	59.963	1.00	52.71	O
ATOM	16541	N	LEU	D	30	-2.071	-21.391	61.324	1.00	53.89	N
ATOM	16542	CA	LEU	D	30	-2.430	-20.289	62.212	1.00	53.55	C
ATOM	16544	CB	LEU	D	30	-3.918	-20.339	62.549	1.00	53.06	C
ATOM	16547	CG	LEU	D	30	-4.900	-20.448	61.381	1.00	54.18	C
ATOM	16549	CD1	LEU	D	30	-6.303	-20.192	61.905	1.00	59.32	C
ATOM	16553	CD2	LEU	D	30	-4.590	-19.502	60.227	1.00	54.65	C
ATOM	16557	C	LEU	D	30	-1.627	-20.376	63.493	1.00	53.27	C
ATOM	16558	O	LEU	D	30	-1.193	-21.451	63.880	1.00	52.96	O
ATOM	16560	N	GLY	D	31	-1.429	-19.249	64.159	1.00	53.29	N
ATOM	16561	CA	GLY	D	31	-0.822	-19.271	65.489	1.00	53.17	C
ATOM	16564	C	GLY	D	31	-1.371	-18.159	66.360	1.00	54.11	C
ATOM	16565	O	GLY	D	31	-1.911	-17.167	65.849	1.00	55.12	O
ATOM	16567	N	LYS	D	32	-1.232	-18.323	67.673	1.00	52.40	N
ATOM	16568	CA	LYS	D	32	-1.629	-17.289	68.625	1.00	51.94	C
ATOM	16570	CB	LYS	D	32	-2.201	-17.907	69.908	1.00	51.79	C
ATOM	16573	CG	LYS	D	32	-3.591	-18.450	69.728	1.00	52.03	C
ATOM	16576	CD	LYS	D	32	-3.938	-19.514	70.756	1.00	52.98	C
ATOM	16579	CE	LYS	D	32	-4.253	-18.888	72.094	1.00	56.55	C
ATOM	16582	NZ	LYS	D	32	-4.665	-19.917	73.078	1.00	57.22	N
ATOM	16586	C	LYS	D	32	-0.458	-16.404	68.990	1.00	50.45	C
ATOM	16587	O	LYS	D	32	0.622	-16.907	69.321	1.00	52.17	O
ATOM	16589	N	LYS	D	33	-0.684	-15.094	68.937	1.00	48.86	N
ATOM	16590	CA	LYS	D	33	0.235	-14.097	69.502	1.00	50.09	C
ATOM	16592	CB	LYS	D	33	-0.508	-12.773	69.730	1.00	50.39	C
ATOM	16595	CG	LYS	D	33	0.355	-11.659	70.268	1.00	49.11	C
ATOM	16598	CD	LYS	D	33	-0.438	-10.367	70.469	1.00	50.58	C

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ATOM	16601	CE	LYS	D	33	0.404	-9.121	70.104	1.00	53.39	C
ATOM	16604	NZ	LYS	D	33	0.406	-8.081	71.177	1.00	51.91	N
ATOM	16608	C	LYS	D	33	0.786	-14.585	70.834	1.00	49.48	C
ATOM	16609	O	LYS	D	33	0.027	-14.969	71.710	1.00	49.63	O
ATOM	16611	N	GLY	D	34	2.102	-14.586	70.981	1.00	49.59	N
ATOM	16612	CA	GLY	D	34	2.726	-15.016	72.227	1.00	50.05	C
ATOM	16615	C	GLY	D	34	3.196	-16.456	72.219	1.00	50.34	C
ATOM	16616	O	GLY	D	34	4.199	-16.774	72.861	1.00	49.43	O
ATOM	16618	N	ASP	D	35	2.487	-17.331	71.504	1.00	50.76	N
ATOM	16619	CA	ASP	D	35	2.855	-18.748	71.462	1.00	52.67	C
ATOM	16621	CB	ASP	D	35	1.652	-19.614	71.058	1.00	55.52	C
ATOM	16624	CG	ASP	D	35	0.666	-19.839	72.204	1.00	59.08	C
ATOM	16625	OD1	ASP	D	35	0.924	-19.367	73.335	1.00	60.68	O
ATOM	16626	OD2	ASP	D	35	-0.372	-20.496	71.959	1.00	57.54	O
ATOM	16627	C	ASP	D	35	4.015	-19.007	70.506	1.00	52.90	C
ATOM	16628	O	ASP	D	35	4.542	-18.075	69.882	1.00	52.10	O
ATOM	16630	N	THR	D	36	4.412	-20.278	70.404	1.00	52.81	N
ATOM	16631	CA	THR	D	36	5.355	-20.706	69.370	1.00	54.31	C
ATOM	16633	CB	THR	D	36	6.680	-21.345	69.946	1.00	53.67	C
ATOM	16635	OG1	THR	D	36	6.758	-22.730	69.619	1.00	53.00	O
ATOM	16637	CG2	THR	D	36	6.809	-21.155	71.451	1.00	50.20	C
ATOM	16641	C	THR	D	36	4.641	-21.637	68.374	1.00	55.43	C
ATOM	16642	O	THR	D	36	3.597	-22.211	68.684	1.00	56.70	O
ATOM	16644	N	VAL	D	37	5.192	-21.758	67.173	1.00	55.62	N
ATOM	16645	CA	VAL	D	37	4.557	-22.533	66.113	1.00	56.79	C
ATOM	16647	CB	VAL	D	37	3.693	-21.636	65.179	1.00	57.33	C
ATOM	16649	CG1	VAL	D	37	4.497	-20.478	64.613	1.00	55.95	C
ATOM	16653	CG2	VAL	D	37	3.092	-22.452	64.036	1.00	56.59	C
ATOM	16657	C	VAL	D	37	5.630	-23.197	65.284	1.00	58.92	C
ATOM	16658	O	VAL	D	37	6.700	-22.626	65.087	1.00	61.79	O
ATOM	16660	N	GLU	D	38	5.343	-24.395	64.791	1.00	59.07	N
ATOM	16661	CA	GLU	D	38	6.296	-25.128	63.974	1.00	58.43	C
ATOM	16663	CB	GLU	D	38	6.443	-26.554	64.489	1.00	58.79	C
ATOM	16666	CG	GLU	D	38	7.785	-27.159	64.161	1.00	62.23	C
ATOM	16669	CD	GLU	D	38	7.847	-28.632	64.465	1.00	61.22	C
ATOM	16670	OE1	GLU	D	38	8.439	-28.990	65.505	1.00	62.32	O
ATOM	16671	OE2	GLU	D	38	7.298	-29.426	63.665	1.00	66.72	O
ATOM	16672	C	GLU	D	38	5.828	-25.161	62.536	1.00	57.06	C
ATOM	16673	O	GLU	D	38	4.700	-25.561	62.269	1.00	57.08	O
ATOM	16675	N	LEU	D	39	6.690	-24.726	61.619	1.00	56.71	N
ATOM	16676	CA	LEU	D	39	6.435	-24.857	60.177	1.00	56.29	C
ATOM	16678	CB	LEU	D	39	6.842	-23.580	59.439	1.00	55.01	C
ATOM	16681	CG	LEU	D	39	5.910	-22.357	59.491	1.00	55.10	C
ATOM	16683	CD1	LEU	D	39	5.167	-22.201	60.815	1.00	57.18	C
ATOM	16687	CD2	LEU	D	39	6.686	-21.084	59.187	1.00	54.50	C
ATOM	16691	C	LEU	D	39	7.219	-26.066	59.654	1.00	56.51	C
ATOM	16692	O	LEU	D	39	8.417	-26.177	59.893	1.00	57.54	O
ATOM	16694	N	THR	D	40	6.546	-26.986	58.964	1.00	56.72	N
ATOM	16695	CA	THR	D	40	7.193	-28.235	58.538	1.00	56.15	C
ATOM	16697	CB	THR	D	40	6.242	-29.451	58.618	1.00	52.85	C
ATOM	16699	OG1	THR	D	40	4.954	-29.055	58.178	1.00	56.31	O
ATOM	16701	CG2	THR	D	40	6.124	-29.982	60.044	1.00	52.49	C
ATOM	16705	C	THR	D	40	7.763	-28.145	57.124	1.00	56.08	C
ATOM	16706	O	THR	D	40	7.207	-27.487	56.247	1.00	55.50	O
ATOM	16708	N	CYS	D	41	8.895	-28.812	56.934	1.00	58.22	N
ATOM	16709	CA	CYS	D	41	9.509	-28.976	55.631	1.00	57.45	C
ATOM	16711	CB	CYS	D	41	10.559	-27.905	55.416	1.00	58.21	C
ATOM	16714	SG	CYS	D	41	11.141	-27.805	53.737	1.00	63.90	S
ATOM	16716	C	CYS	D	41	10.151	-30.353	55.616	1.00	56.20	C
ATOM	16717	O	CYS	D	41	10.810	-30.730	56.588	1.00	52.79	O
ATOM	16719	N	THR	D	42	9.942	-31.105	54.535	1.00	56.12	N
ATOM	16720	CA	THR	D	42	10.312	-32.528	54.514	1.00	56.46	C
ATOM	16722	CB	THR	D	42	9.088	-33.445	54.715	1.00	54.82	C

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ATOM	16724	OG1	THR	D	42	8.125	-32.783	55.532	1.00	53.40	O
ATOM	16726	CG2	THR	D	42	9.490	-34.747	55.375	1.00	54.76	C
ATOM	16730	C	THR	D	42	10.958	-32.957	53.216	1.00	56.00	C
ATOM	16731	O	THR	D	42	10.642	-32.435	52.154	1.00	56.61	O
ATOM	16733	N	ALA	D	43	11.854	-33.931	53.326	1.00	56.98	N
ATOM	16734	CA	ALA	D	43	12.476	-34.573	52.175	1.00	56.62	C
ATOM	16736	CB	ALA	D	43	13.949	-34.867	52.466	1.00	56.05	C
ATOM	16740	C	ALA	D	43	11.727	-35.866	51.847	1.00	55.96	C
ATOM	16741	O	ALA	D	43	11.087	-36.465	52.713	1.00	55.99	O
ATOM	16743	N	SER	D	44	11.797	-36.271	50.585	1.00	55.94	N
ATOM	16744	CA	SER	D	44	11.268	-37.558	50.144	1.00	56.44	C
ATOM	16746	CB	SER	D	44	11.459	-37.701	48.635	1.00	56.20	C
ATOM	16749	OG	SER	D	44	12.711	-37.154	48.241	1.00	53.10	O
ATOM	16751	C	SER	D	44	12.007	-38.671	50.873	1.00	56.04	C
ATOM	16752	O	SER	D	44	11.390	-39.561	51.451	1.00	53.30	O
ATOM	16754	N	GLN	D	45	13.336	-38.590	50.831	1.00	58.20	N
ATOM	16755	CA	GLN	D	45	14.216	-39.446	51.625	1.00	59.66	C
ATOM	16757	CB	GLN	D	45	15.662	-39.399	51.088	1.00	59.52	C
ATOM	16760	CG	GLN	D	45	16.113	-40.648	50.336	1.00	59.58	C
ATOM	16763	CD	GLN	D	45	15.594	-40.720	48.908	1.00	61.12	C
ATOM	16764	OE1	GLN	D	45	16.353	-41.015	47.987	1.00	63.26	O
ATOM	16765	NE2	GLN	D	45	14.301	-40.457	48.716	1.00	57.52	N
ATOM	16768	C	GLN	D	45	14.211	-39.040	53.106	1.00	61.15	C
ATOM	16769	O	GLN	D	45	14.201	-37.853	53.439	1.00	61.13	O
ATOM	16771	N	LYS	D	46	14.213	-40.041	53.984	1.00	62.76	N
ATOM	16772	CA	LYS	D	46	14.443	-39.841	55.415	1.00	61.86	C
ATOM	16774	CB	LYS	D	46	13.874	-41.028	56.208	1.00	63.45	C
ATOM	16777	CG	LYS	D	46	14.158	-41.056	57.718	1.00	64.10	C
ATOM	16780	CD	LYS	D	46	14.047	-42.495	58.285	1.00	65.12	C
ATOM	16783	CE	LYS	D	46	15.307	-43.340	58.010	1.00	66.80	C
ATOM	16786	NZ	LYS	D	46	16.189	-43.537	59.201	1.00	67.16	N
ATOM	16790	C	LYS	D	46	15.955	-39.713	55.604	1.00	61.37	C
ATOM	16791	O	LYS	D	46	16.646	-40.699	55.895	1.00	59.89	O
ATOM	16793	N	LYS	D	47	16.465	-38.502	55.379	1.00	60.22	N
ATOM	16794	CA	LYS	D	47	17.882	-38.196	55.597	1.00	58.96	C
ATOM	16796	CB	LYS	D	47	18.768	-38.913	54.566	1.00	58.43	C
ATOM	16799	CG	LYS	D	47	18.892	-38.229	53.206	1.00	58.50	C
ATOM	16802	CD	LYS	D	47	20.154	-38.708	52.466	1.00	59.64	C
ATOM	16805	CE	LYS	D	47	21.012	-37.545	51.966	1.00	58.15	C
ATOM	16808	NZ	LYS	D	47	22.463	-37.872	51.976	1.00	56.58	N
ATOM	16812	C	LYS	D	47	18.133	-36.676	55.597	1.00	57.82	C
ATOM	16813	O	LYS	D	47	17.205	-35.893	55.386	1.00	55.11	O
ATOM	16815	N	SER	D	48	19.386	-36.277	55.841	1.00	57.37	N
ATOM	16816	CA	SER	D	48	19.769	-34.858	55.924	1.00	56.74	C
ATOM	16818	CB	SER	D	48	20.745	-34.623	57.082	1.00	56.60	C
ATOM	16821	OG	SER	D	48	21.324	-33.327	57.023	1.00	54.06	O
ATOM	16823	C	SER	D	48	20.396	-34.351	54.625	1.00	56.51	C
ATOM	16824	O	SER	D	48	21.374	-34.904	54.132	1.00	57.70	O
ATOM	16826	N	ILE	D	49	19.824	-33.279	54.095	1.00	56.29	N
ATOM	16827	CA	ILE	D	49	20.289	-32.646	52.868	1.00	55.70	C
ATOM	16829	CB	ILE	D	49	19.423	-33.051	51.652	1.00	55.14	C
ATOM	16831	CG1	ILE	D	49	17.946	-32.685	51.896	1.00	54.71	C
ATOM	16834	CD1	ILE	D	49	16.973	-33.274	50.903	1.00	54.63	C
ATOM	16838	CG2	ILE	D	49	19.584	-34.531	51.369	1.00	53.70	C
ATOM	16842	C	ILE	D	49	20.187	-31.146	53.078	1.00	55.75	C
ATOM	16843	O	ILE	D	49	19.677	-30.696	54.105	1.00	55.41	O
ATOM	16845	N	GLN	D	50	20.663	-30.375	52.110	1.00	55.80	N
ATOM	16846	CA	GLN	D	50	20.532	-28.928	52.185	1.00	56.67	C
ATOM	16848	CB	GLN	D	50	21.509	-28.205	51.257	1.00	56.80	C
ATOM	16851	CG	GLN	D	50	21.608	-28.688	49.830	1.00	59.40	C
ATOM	16854	CD	GLN	D	50	23.041	-28.605	49.319	1.00	61.14	C
ATOM	16855	OE1	GLN	D	50	23.985	-29.005	50.011	1.00	62.03	O
ATOM	16856	NE2	GLN	D	50	23.211	-28.073	48.110	1.00	66.64	N

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ATOM	16859	C	GLN	D	50	19.110	-28.457	51.934	1.00	56.30	C
ATOM	16860	O	GLN	D	50	18.373	-29.058	51.153	1.00	56.88	O
ATOM	16862	N	PHE	D	51	18.749	-27.385	52.639	1.00	56.44	N
ATOM	16863	CA	PHE	D	51	17.451	-26.730	52.530	1.00	55.94	C
ATOM	16865	CB	PHE	D	51	16.441	-27.440	53.415	1.00	56.79	C
ATOM	16868	CG	PHE	D	51	16.728	-27.292	54.879	1.00	58.03	C
ATOM	16869	CD1	PHE	D	51	17.545	-28.199	55.532	1.00	53.74	C
ATOM	16871	CE1	PHE	D	51	17.826	-28.056	56.880	1.00	55.86	C
ATOM	16873	CZ	PHE	D	51	17.296	-26.991	57.592	1.00	57.32	C
ATOM	16875	CE2	PHE	D	51	16.482	-26.067	56.945	1.00	59.39	C
ATOM	16877	CD2	PHE	D	51	16.203	-26.220	55.596	1.00	59.32	C
ATOM	16879	C	PHE	D	51	17.604	-25.293	53.013	1.00	55.25	C
ATOM	16880	O	PHE	D	51	18.505	-24.996	53.790	1.00	55.07	O
ATOM	16882	N	HIS	D	52	16.722	-24.408	52.572	1.00	56.19	N
ATOM	16883	CA	HIS	D	52	16.763	-23.011	53.000	1.00	57.41	C
ATOM	16885	CB	HIS	D	52	17.381	-22.122	51.906	1.00	60.64	C
ATOM	16888	CG	HIS	D	52	18.869	-22.264	51.761	1.00	65.48	C
ATOM	16889	ND1	HIS	D	52	19.500	-22.228	50.536	1.00	65.43	N
ATOM	16891	CE1	HIS	D	52	20.805	-22.370	50.711	1.00	74.78	C
ATOM	16893	NE2	HIS	D	52	21.042	-22.502	52.005	1.00	72.58	N
ATOM	16895	CD2	HIS	D	52	19.849	-22.433	52.684	1.00	71.76	C
ATOM	16897	C	HIS	D	52	15.365	-22.512	53.290	1.00	54.41	C
ATOM	16898	O	HIS	D	52	14.497	-22.648	52.448	1.00	56.90	O
ATOM	16900	N	TRP	D	53	15.150	-21.947	54.474	1.00	52.48	N
ATOM	16901	CA	TRP	D	53	13.927	-21.194	54.761	1.00	52.75	C
ATOM	16903	CB	TRP	D	53	13.524	-21.317	56.227	1.00	53.44	C
ATOM	16906	CG	TRP	D	53	12.823	-22.553	56.599	1.00	52.10	C
ATOM	16907	CD1	TRP	D	53	13.330	-23.582	57.314	1.00	54.09	C
ATOM	16909	NE1	TRP	D	53	12.376	-24.549	57.498	1.00	55.56	N
ATOM	16911	CE2	TRP	D	53	11.216	-24.145	56.896	1.00	56.54	C
ATOM	16912	CD2	TRP	D	53	11.460	-22.882	56.328	1.00	54.78	C
ATOM	16913	CE3	TRP	D	53	10.422	-22.237	55.650	1.00	57.50	C
ATOM	16915	CZ3	TRP	D	53	9.185	-22.874	55.565	1.00	55.10	C
ATOM	16917	CH2	TRP	D	53	8.976	-24.132	56.142	1.00	52.76	C
ATOM	16919	CZ2	TRP	D	53	9.973	-24.780	56.812	1.00	56.22	C
ATOM	16921	C	TRP	D	53	14.133	-19.710	54.488	1.00	50.73	C
ATOM	16922	O	TRP	D	53	14.954	-19.074	55.142	1.00	49.83	O
ATOM	16924	N	LYS	D	54	13.372	-19.151	53.554	1.00	49.78	N
ATOM	16925	CA	LYS	D	54	13.342	-17.702	53.368	1.00	51.35	C
ATOM	16927	CB	LYS	D	54	13.936	-17.299	52.015	1.00	52.23	C
ATOM	16930	CG	LYS	D	54	13.494	-18.136	50.823	1.00	59.55	C
ATOM	16933	CD	LYS	D	54	14.165	-17.674	49.518	1.00	57.29	C
ATOM	16936	CE	LYS	D	54	15.659	-18.026	49.465	1.00	60.10	C
ATOM	16939	NZ	LYS	D	54	16.260	-17.667	48.137	1.00	60.94	N
ATOM	16943	C	LYS	D	54	11.929	-17.171	53.543	1.00	49.66	C
ATOM	16944	O	LYS	D	54	10.992	-17.955	53.701	1.00	52.00	O
ATOM	16946	N	ASN	D	55	11.777	-15.847	53.566	1.00	48.11	N
ATOM	16947	CA	ASN	D	55	10.438	-15.226	53.629	1.00	47.08	C
ATOM	16949	CB	ASN	D	55	10.382	-14.060	54.636	1.00	45.61	C
ATOM	16952	CG	ASN	D	55	11.364	-12.934	54.328	1.00	45.87	C
ATOM	16953	OD1	ASN	D	55	11.766	-12.707	53.185	1.00	51.14	O
ATOM	16954	ND2	ASN	D	55	11.749	-12.216	55.367	1.00	42.58	N
ATOM	16957	C	ASN	D	55	9.949	-14.803	52.250	1.00	45.23	C
ATOM	16958	O	ASN	D	55	10.677	-14.916	51.255	1.00	43.06	O
ATOM	16960	N	SER	D	56	8.712	-14.332	52.184	1.00	45.71	N
ATOM	16961	CA	SER	D	56	8.129	-13.887	50.918	1.00	47.48	C
ATOM	16963	CB	SER	D	56	6.729	-13.336	51.137	1.00	47.80	C
ATOM	16966	OG	SER	D	56	6.760	-12.163	51.935	1.00	56.48	O
ATOM	16968	C	SER	D	56	8.975	-12.822	50.239	1.00	47.97	C
ATOM	16969	O	SER	D	56	8.996	-12.723	49.010	1.00	49.96	O
ATOM	16971	N	ASN	D	57	9.681	-12.030	51.039	1.00	48.45	N
ATOM	16972	CA	ASN	D	57	10.582	-11.026	50.503	1.00	48.84	C
ATOM	16974	CB	ASN	D	57	10.779	-9.912	51.519	1.00	49.41	C

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ATOM	16977	CG	ASN	D	57	11.347	-8.669	50.893	1.00	55.44	C
ATOM	16978	OD1	ASN	D	57	10.792	-8.147	49.915	1.00	61.49	O
ATOM	16979	ND2	ASN	D	57	12.477	-8.195	51.426	1.00	53.54	N
ATOM	16982	C	ASN	D	57	11.947	-11.566	50.054	1.00	49.04	C
ATOM	16983	O	ASN	D	57	12.839	-10.792	49.716	1.00	52.24	O
ATOM	16985	N	GLN	D	58	12.103	-12.887	50.025	1.00	49.96	N
ATOM	16986	CA	GLN	D	58	13.347	-13.534	49.594	1.00	48.57	C
ATOM	16988	CB	GLN	D	58	13.730	-13.128	48.164	1.00	45.71	C
ATOM	16991	CG	GLN	D	58	12.647	-13.412	47.154	1.00	50.64	C
ATOM	16994	CD	GLN	D	58	12.163	-14.845	47.250	1.00	52.50	C
ATOM	16995	OE1	GLN	D	58	12.964	-15.777	47.241	1.00	56.11	O
ATOM	16996	NE2	GLN	D	58	10.854	-15.027	47.379	1.00	52.19	N
ATOM	16999	C	GLN	D	58	14.469	-13.205	50.550	1.00	49.00	C
ATOM	17000	O	GLN	D	58	15.547	-12.836	50.126	1.00	51.30	O
ATOM	17002	N	ILE	D	59	14.216	-13.313	51.846	1.00	48.94	N
ATOM	17003	CA	ILE	D	59	15.280	-13.109	52.808	1.00	50.70	C
ATOM	17005	CB	ILE	D	59	15.011	-11.958	53.781	1.00	51.81	C
ATOM	17007	CG1	ILE	D	59	14.727	-10.656	53.024	1.00	55.07	C
ATOM	17010	CD1	ILE	D	59	13.930	-9.640	53.860	1.00	56.17	C
ATOM	17014	CG2	ILE	D	59	16.220	-11.772	54.702	1.00	49.77	C
ATOM	17018	C	ILE	D	59	15.468	-14.371	53.600	1.00	48.73	C
ATOM	17019	O	ILE	D	59	14.518	-14.910	54.147	1.00	48.05	O
ATOM	17021	N	LYS	D	60	16.714	-14.816	53.667	1.00	48.78	N
ATOM	17022	CA	LYS	D	60	17.053	-16.074	54.300	1.00	48.95	C
ATOM	17024	CB	LYS	D	60	18.524	-16.429	54.029	1.00	49.85	C
ATOM	17027	CG	LYS	D	60	18.798	-17.096	52.692	0.30	46.20	C
ATOM	17030	CD	LYS	D	60	20.124	-17.851	52.722	0.30	46.66	C
ATOM	17033	CE	LYS	D	60	20.077	-19.091	53.641	0.30	44.65	C
ATOM	17036	NZ	LYS	D	60	20.254	-18.797	55.102	0.30	36.58	N
ATOM	17040	C	LYS	D	60	16.799	-15.980	55.798	1.00	48.12	C
ATOM	17041	O	LYS	D	60	17.073	-14.952	56.408	1.00	49.83	O
ATOM	17043	N	ILE	D	61	16.263	-17.048	56.377	1.00	46.84	N
ATOM	17044	CA	ILE	D	61	16.004	-17.101	57.807	1.00	48.02	C
ATOM	17046	CB	ILE	D	61	14.568	-17.543	58.091	1.00	47.34	C
ATOM	17048	CG1	ILE	D	61	13.605	-16.480	57.567	1.00	47.70	C
ATOM	17051	CD1	ILE	D	61	12.185	-16.946	57.481	1.00	51.20	C
ATOM	17055	CG2	ILE	D	61	14.364	-17.778	59.590	1.00	45.19	C
ATOM	17059	C	ILE	D	61	16.983	-18.060	58.442	1.00	47.57	C
ATOM	17060	O	ILE	D	61	17.777	-17.670	59.302	1.00	49.36	O
ATOM	17062	N	LEU	D	62	16.922	-19.312	58.006	1.00	47.97	N
ATOM	17063	CA	LEU	D	62	17.907	-20.315	58.387	1.00	49.02	C
ATOM	17065	CB	LEU	D	62	17.633	-20.815	59.808	1.00	49.88	C
ATOM	17068	CG	LEU	D	62	16.373	-21.658	60.038	1.00	51.80	C
ATOM	17070	CD1	LEU	D	62	16.556	-23.107	59.576	1.00	51.48	C
ATOM	17074	CD2	LEU	D	62	15.986	-21.620	61.522	1.00	54.14	C
ATOM	17078	C	LEU	D	62	17.914	-21.478	57.387	1.00	46.99	C
ATOM	17079	O	LEU	D	62	16.960	-21.645	56.629	1.00	44.87	O
ATOM	17081	N	GLY	D	63	18.977	-22.281	57.398	1.00	45.20	N
ATOM	17082	CA	GLY	D	63	19.095	-23.384	56.454	1.00	45.81	C
ATOM	17085	C	GLY	D	63	20.321	-24.244	56.646	1.00	45.70	C
ATOM	17086	O	GLY	D	63	21.120	-24.004	57.537	1.00	47.29	O
ATOM	17088	N	ASN	D	64	20.461	-25.262	55.808	1.00	46.43	N
ATOM	17089	CA	ASN	D	64	21.592	-26.177	55.877	1.00	47.37	C
ATOM	17091	CB	ASN	D	64	21.072	-27.607	56.017	1.00	46.87	C
ATOM	17094	CG	ASN	D	64	22.184	-28.647	56.095	1.00	47.06	C
ATOM	17095	OD1	ASN	D	64	23.368	-28.346	55.903	1.00	48.32	O
ATOM	17096	ND2	ASN	D	64	21.796	-29.891	56.374	1.00	41.91	N
ATOM	17099	C	ASN	D	64	22.456	-26.023	54.625	1.00	47.39	C
ATOM	17100	O	ASN	D	64	22.122	-26.560	53.587	1.00	43.38	O
ATOM	17102	N	GLN	D	65	23.562	-25.285	54.737	1.00	51.03	N
ATOM	17103	CA	GLN	D	65	24.438	-24.981	53.586	1.00	53.34	C
ATOM	17105	CB	GLN	D	65	25.055	-23.579	53.704	1.00	55.42	C
ATOM	17108	CG	GLN	D	65	24.310	-22.502	52.924	1.00	63.21	C

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ATOM	17111	CD	GLN	D	65	24.798	-22.366	51.483	1.00	68.32	C
ATOM	17112	OE1	GLN	D	65	24.951	-23.356	50.765	1.00	70.29	O
ATOM	17113	NE2	GLN	D	65	25.041	-21.128	51.058	1.00	73.15	N
ATOM	17116	C	GLN	D	65	25.541	-26.008	53.425	1.00	53.91	C
ATOM	17117	O	GLN	D	65	26.731	-25.674	53.472	1.00	51.75	O
ATOM	17119	N	GLY	D	66	25.139	-27.257	53.212	1.00	54.62	N
ATOM	17120	CA	GLY	D	66	26.101	-28.329	53.080	1.00	54.56	C
ATOM	17123	C	GLY	D	66	26.970	-28.383	54.319	1.00	54.68	C
ATOM	17124	O	GLY	D	66	28.044	-27.760	54.374	1.00	51.82	O
ATOM	17126	N	SER	D	67	26.464	-29.095	55.324	1.00	54.02	N
ATOM	17127	CA	SER	D	67	27.208	-29.417	56.544	1.00	52.50	C
ATOM	17129	CB	SER	D	67	28.623	-29.922	56.218	1.00	54.69	C
ATOM	17132	OG	SER	D	67	29.527	-28.864	55.946	1.00	57.84	O
ATOM	17134	C	SER	D	67	27.278	-28.304	57.588	1.00	50.53	C
ATOM	17135	O	SER	D	67	27.774	-28.556	58.679	1.00	50.40	O
ATOM	17137	N	PHE	D	68	26.790	-27.097	57.270	1.00	48.69	N
ATOM	17138	CA	PHE	D	68	26.647	-26.012	58.266	1.00	46.25	C
ATOM	17140	CB	PHE	D	68	27.448	-24.781	57.861	1.00	40.88	C
ATOM	17143	CG	PHE	D	68	28.900	-25.032	57.735	1.00	32.87	C
ATOM	17144	CD1	PHE	D	68	29.686	-25.157	58.861	1.00	31.54	C
ATOM	17146	CE1	PHE	D	68	31.042	-25.409	58.749	1.00	35.24	C
ATOM	17148	CZ	PHE	D	68	31.617	-25.535	57.490	1.00	33.93	C
ATOM	17150	CE2	PHE	D	68	30.828	-25.414	56.361	1.00	29.46	C
ATOM	17152	CD2	PHE	D	68	29.483	-25.161	56.490	1.00	27.19	C
ATOM	17154	C	PHE	D	68	25.214	-25.559	58.415	1.00	46.69	C
ATOM	17155	O	PHE	D	68	24.543	-25.334	57.413	1.00	48.40	O
ATOM	17157	N	LEU	D	69	24.753	-25.394	59.655	1.00	46.80	N
ATOM	17158	CA	LEU	D	69	23.548	-24.591	59.901	1.00	46.79	C
ATOM	17160	CB	LEU	D	69	23.087	-24.663	61.360	1.00	46.74	C
ATOM	17163	CG	LEU	D	69	21.998	-23.668	61.820	1.00	45.52	C
ATOM	17165	CD1	LEU	D	69	20.760	-23.686	60.959	1.00	41.15	C
ATOM	17169	CD2	LEU	D	69	21.589	-23.957	63.245	1.00	47.27	C
ATOM	17173	C	LEU	D	69	23.900	-23.161	59.557	1.00	45.81	C
ATOM	17174	O	LEU	D	69	24.979	-22.703	59.891	1.00	47.19	O
ATOM	17176	N	THR	D	70	23.005	-22.469	58.866	1.00	46.57	N
ATOM	17177	CA	THR	D	70	23.187	-21.054	58.576	1.00	47.35	C
ATOM	17179	CB	THR	D	70	23.338	-20.791	57.070	1.00	47.00	C
ATOM	17181	OG1	THR	D	70	22.235	-21.360	56.357	1.00	46.70	O
ATOM	17183	CG2	THR	D	70	24.638	-21.392	56.562	1.00	50.03	C
ATOM	17187	C	THR	D	70	22.034	-20.223	59.087	1.00	47.73	C
ATOM	17188	O	THR	D	70	20.910	-20.692	59.220	1.00	46.85	O
ATOM	17190	N	LYS	D	71	22.342	-18.971	59.375	1.00	50.00	N
ATOM	17191	CA	LYS	D	71	21.350	-17.998	59.771	1.00	50.04	C
ATOM	17193	CB	LYS	D	71	21.643	-17.485	61.181	1.00	51.04	C
ATOM	17196	CG	LYS	D	71	20.584	-17.852	62.195	1.00	52.33	C
ATOM	17199	CD	LYS	D	71	20.433	-19.353	62.415	1.00	50.52	C
ATOM	17202	CE	LYS	D	71	19.581	-19.606	63.664	1.00	50.66	C
ATOM	17205	NZ	LYS	D	71	18.387	-18.706	63.713	1.00	48.48	N
ATOM	17209	C	LYS	D	71	21.375	-16.850	58.786	1.00	49.81	C
ATOM	17210	O	LYS	D	71	22.444	-16.374	58.390	1.00	48.80	O
ATOM	17212	N	GLY	D	72	20.186	-16.411	58.397	1.00	50.56	N
ATOM	17213	CA	GLY	D	72	20.036	-15.260	57.523	1.00	50.17	C
ATOM	17216	C	GLY	D	72	19.851	-14.012	58.345	1.00	49.84	C
ATOM	17217	O	GLY	D	72	19.948	-14.053	59.555	1.00	48.81	O
ATOM	17219	N	PRO	D	73	19.590	-12.883	57.689	1.00	54.03	N
ATOM	17220	CA	PRO	D	73	19.564	-11.653	58.450	1.00	56.41	C
ATOM	17222	CB	PRO	D	73	20.030	-10.613	57.426	1.00	54.90	C
ATOM	17225	CG	PRO	D	73	19.691	-11.191	56.084	1.00	52.53	C
ATOM	17228	CD	PRO	D	73	19.353	-12.643	56.255	1.00	54.44	C
ATOM	17231	C	PRO	D	73	18.206	-11.271	59.009	1.00	57.46	C
ATOM	17232	O	PRO	D	73	18.136	-10.300	59.746	1.00	58.04	O
ATOM	17233	N	SER	D	74	17.145	-12.013	58.702	1.00	60.01	N
ATOM	17234	CA	SER	D	74	15.787	-11.515	58.996	1.00	62.77	C

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ATOM	17236	CB	SER	D	74	14.712	-12.548	58.621	1.00	62.96	C
ATOM	17239	OG	SER	D	74	14.458	-13.464	59.663	1.00	63.94	O
ATOM	17241	C	SER	D	74	15.597	-11.030	60.449	1.00	64.15	C
ATOM	17242	O	SER	D	74	16.318	-11.443	61.361	1.00	62.42	O
ATOM	17244	N	LYS	D	75	14.625	-10.138	60.636	1.00	66.84	N
ATOM	17245	CA	LYS	D	75	14.279	-9.587	61.962	1.00	68.12	C
ATOM	17247	CB	LYS	D	75	13.081	-8.642	61.836	1.00	69.75	C
ATOM	17250	CG	LYS	D	75	13.321	-7.416	60.932	1.00	74.63	C
ATOM	17253	CD	LYS	D	75	12.030	-6.950	60.233	1.00	73.74	C
ATOM	17256	CE	LYS	D	75	11.693	-7.826	59.033	1.00	77.18	C
ATOM	17259	NZ	LYS	D	75	10.457	-7.378	58.346	1.00	77.76	N
ATOM	17263	C	LYS	D	75	13.919	-10.716	62.924	1.00	66.42	C
ATOM	17264	O	LYS	D	75	14.211	-10.671	64.112	1.00	66.11	O
ATOM	17266	N	LEU	D	76	13.271	-11.720	62.355	1.00	65.63	N
ATOM	17267	CA	LEU	D	76	12.923	-12.973	63.002	1.00	66.08	C
ATOM	17269	CB	LEU	D	76	12.475	-13.947	61.902	1.00	64.61	C
ATOM	17272	CG	LEU	D	76	11.362	-14.952	62.158	1.00	64.39	C
ATOM	17274	CD1	LEU	D	76	10.236	-14.368	62.993	1.00	65.34	C
ATOM	17278	CD2	LEU	D	76	10.848	-15.416	60.821	1.00	64.63	C
ATOM	17282	C	LEU	D	76	14.055	-13.632	63.788	1.00	67.24	C
ATOM	17283	O	LEU	D	76	13.810	-14.283	64.803	1.00	68.33	O
ATOM	17285	N	ASN	D	77	15.284	-13.438	63.317	1.00	68.57	N
ATOM	17286	CA	ASN	D	77	16.424	-14.319	63.616	1.00	68.10	C
ATOM	17288	CB	ASN	D	77	17.739	-13.624	63.226	1.00	70.44	C
ATOM	17291	CG	ASN	D	77	18.948	-14.524	63.405	1.00	72.93	C
ATOM	17292	OD1	ASN	D	77	18.880	-15.725	63.137	1.00	86.20	O
ATOM	17293	ND2	ASN	D	77	20.057	-13.952	63.865	1.00	79.02	N
ATOM	17296	C	ASN	D	77	16.557	-14.864	65.036	1.00	66.80	C
ATOM	17297	O	ASN	D	77	16.778	-16.057	65.228	1.00	66.29	O
ATOM	17299	N	ASP	D	78	16.453	-13.986	66.020	1.00	65.64	N
ATOM	17300	CA	ASP	D	78	16.637	-14.388	67.414	1.00	65.69	C
ATOM	17302	CB	ASP	D	78	16.609	-13.171	68.367	1.00	68.23	C
ATOM	17305	CG	ASP	D	78	15.950	-11.923	67.742	1.00	75.84	C
ATOM	17306	OD1	ASP	D	78	16.384	-11.495	66.641	1.00	77.97	O
ATOM	17307	OD2	ASP	D	78	15.006	-11.366	68.356	1.00	82.19	O
ATOM	17308	C	ASP	D	78	15.620	-15.453	67.835	1.00	63.86	C
ATOM	17309	O	ASP	D	78	15.970	-16.422	68.498	1.00	66.28	O
ATOM	17311	N	ARG	D	79	14.376	-15.298	67.409	1.00	61.25	N
ATOM	17312	CA	ARG	D	79	13.315	-16.224	67.789	1.00	59.74	C
ATOM	17314	CB	ARG	D	79	11.995	-15.460	67.921	1.00	60.80	C
ATOM	17317	CG	ARG	D	79	12.082	-14.278	68.866	1.00	57.42	C
ATOM	17320	CD	ARG	D	79	10.792	-13.535	68.954	1.00	51.87	C
ATOM	17323	NE	ARG	D	79	10.540	-12.706	67.782	1.00	45.36	N
ATOM	17325	CZ	ARG	D	79	9.474	-12.786	66.984	1.00	45.37	C
ATOM	17326	NH1	ARG	D	79	8.518	-13.673	67.182	1.00	50.15	N
ATOM	17329	NH2	ARG	D	79	9.358	-11.956	65.971	1.00	44.62	N
ATOM	17332	C	ARG	D	79	13.126	-17.375	66.801	1.00	60.30	C
ATOM	17333	O	ARG	D	79	12.179	-18.156	66.948	1.00	60.79	O
ATOM	17335	N	ALA	D	80	14.009	-17.492	65.807	1.00	58.46	N
ATOM	17336	CA	ALA	D	80	13.840	-18.492	64.754	1.00	59.12	C
ATOM	17338	CB	ALA	D	80	14.048	-17.862	63.398	1.00	59.56	C
ATOM	17342	C	ALA	D	80	14.798	-19.651	64.945	1.00	59.62	C
ATOM	17343	O	ALA	D	80	15.998	-19.453	65.106	1.00	60.02	O
ATOM	17345	N	ASP	D	81	14.266	-20.865	64.904	1.00	60.29	N
ATOM	17346	CA	ASP	D	81	15.062	-22.060	65.175	1.00	60.41	C
ATOM	17348	CB	ASP	D	81	14.874	-22.462	66.641	1.00	62.39	C
ATOM	17351	CG	ASP	D	81	15.973	-21.941	67.541	1.00	68.41	C
ATOM	17352	OD1	ASP	D	81	17.160	-22.209	67.247	1.00	73.38	O
ATOM	17353	OD2	ASP	D	81	15.647	-21.285	68.557	1.00	78.40	O
ATOM	17354	C	ASP	D	81	14.693	-23.248	64.289	1.00	59.67	C
ATOM	17355	O	ASP	D	81	13.712	-23.211	63.549	1.00	61.22	O
ATOM	17357	N	SER	D	82	15.499	-24.301	64.376	1.00	58.72	N
ATOM	17358	CA	SER	D	82	15.156	-25.602	63.817	1.00	57.80	C

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ATOM	17360	CB	SER	D	82	15.860	-25.821	62.481	1.00	56.33	C
ATOM	17363	OG	SER	D	82	15.184	-26.817	61.740	1.00	50.78	O
ATOM	17365	C	SER	D	82	15.551	-26.682	64.813	1.00	57.70	C
ATOM	17366	O	SER	D	82	15.729	-26.396	65.997	1.00	56.12	O
ATOM	17368	N	ARG	D	83	15.680	-27.918	64.336	1.00	58.91	N
ATOM	17369	CA	ARG	D	83	16.119	-29.032	65.172	1.00	59.68	C
ATOM	17371	CB	ARG	D	83	14.924	-29.834	65.673	1.00	60.12	C
ATOM	17374	CG	ARG	D	83	14.142	-29.177	66.783	1.00	64.04	C
ATOM	17377	CD	ARG	D	83	13.154	-30.175	67.390	1.00	68.81	C
ATOM	17380	NE	ARG	D	83	11.880	-29.545	67.744	1.00	78.30	N
ATOM	17382	CZ	ARG	D	83	10.823	-30.198	68.219	1.00	77.56	C
ATOM	17383	NH1	ARG	D	83	10.876	-31.512	68.430	1.00	80.28	N
ATOM	17386	NH2	ARG	D	83	9.713	-29.527	68.504	1.00	77.52	N
ATOM	17389	C	ARG	D	83	17.017	-29.948	64.370	1.00	58.80	C
ATOM	17390	O	ARG	D	83	16.529	-30.726	63.552	1.00	61.64	O
ATOM	17392	N	ARG	D	84	18.322	-29.865	64.614	1.00	56.78	N
ATOM	17393	CA	ARG	D	84	19.302	-30.633	63.844	1.00	54.30	C
ATOM	17395	CB	ARG	D	84	20.715	-30.087	64.072	1.00	52.76	C
ATOM	17398	CG	ARG	D	84	20.904	-28.678	63.526	1.00	51.98	C
ATOM	17401	CD	ARG	D	84	22.248	-28.092	63.895	1.00	48.11	C
ATOM	17404	NE	ARG	D	84	22.330	-27.885	65.335	1.00	42.65	N
ATOM	17406	CZ	ARG	D	84	23.441	-27.955	66.058	1.00	31.61	C
ATOM	17407	NH1	ARG	D	84	24.608	-28.236	65.498	1.00	35.68	N
ATOM	17410	NH2	ARG	D	84	23.373	-27.764	67.364	1.00	29.89	N
ATOM	17413	C	ARG	D	84	19.234	-32.120	64.184	1.00	54.47	C
ATOM	17414	O	ARG	D	84	19.664	-32.968	63.393	1.00	55.00	O
ATOM	17416	N	SER	D	85	18.704	-32.423	65.368	1.00	53.86	N
ATOM	17417	CA	SER	D	85	18.418	-33.796	65.762	1.00	52.88	C
ATOM	17419	CB	SER	D	85	17.788	-33.820	67.159	1.00	52.10	C
ATOM	17422	OG	SER	D	85	16.624	-33.014	67.211	1.00	44.20	O
ATOM	17424	C	SER	D	85	17.488	-34.461	64.737	1.00	53.46	C
ATOM	17425	O	SER	D	85	17.667	-35.628	64.396	1.00	53.22	O
ATOM	17427	N	LEU	D	86	16.523	-33.693	64.228	1.00	53.24	N
ATOM	17428	CA	LEU	D	86	15.552	-34.189	63.247	1.00	52.03	C
ATOM	17430	CB	LEU	D	86	14.224	-33.431	63.386	1.00	51.29	C
ATOM	17433	CG	LEU	D	86	13.619	-33.340	64.787	1.00	49.20	C
ATOM	17435	CD1	LEU	D	86	12.214	-32.800	64.702	1.00	47.44	C
ATOM	17439	CD2	LEU	D	86	13.630	-34.689	65.486	1.00	50.30	C
ATOM	17443	C	LEU	D	86	16.014	-34.104	61.790	1.00	51.46	C
ATOM	17444	O	LEU	D	86	15.376	-34.680	60.912	1.00	53.05	O
ATOM	17446	N	TRP	D	87	17.098	-33.388	61.511	1.00	49.89	N
ATOM	17447	CA	TRP	D	87	17.565	-33.286	60.130	1.00	50.40	C
ATOM	17449	CB	TRP	D	87	18.816	-32.411	60.021	1.00	48.30	C
ATOM	17452	CG	TRP	D	87	18.540	-30.943	60.244	1.00	48.36	C
ATOM	17453	CD1	TRP	D	87	17.376	-30.383	60.693	1.00	48.54	C
ATOM	17455	NE1	TRP	D	87	17.513	-29.022	60.793	1.00	49.53	N
ATOM	17457	CE2	TRP	D	87	18.780	-28.672	60.411	1.00	43.98	C
ATOM	17458	CD2	TRP	D	87	19.458	-29.856	60.060	1.00	43.71	C
ATOM	17459	CE3	TRP	D	87	20.780	-29.770	59.624	1.00	44.96	C
ATOM	17461	CZ3	TRP	D	87	21.376	-28.528	59.561	1.00	48.05	C
ATOM	17463	CH2	TRP	D	87	20.673	-27.365	59.918	1.00	46.51	C
ATOM	17465	CZ2	TRP	D	87	19.377	-27.419	60.340	1.00	44.34	C
ATOM	17467	C	TRP	D	87	17.830	-34.669	59.571	1.00	50.61	C
ATOM	17468	O	TRP	D	87	17.669	-34.890	58.379	1.00	50.87	O
ATOM	17470	N	ASP	D	88	18.212	-35.595	60.451	1.00	53.34	N
ATOM	17471	CA	ASP	D	88	18.494	-36.991	60.081	1.00	53.92	C
ATOM	17473	CB	ASP	D	88	19.123	-37.738	61.260	1.00	54.55	C
ATOM	17476	CG	ASP	D	88	20.589	-37.455	61.401	1.00	59.30	C
ATOM	17477	OD1	ASP	D	88	21.101	-36.570	60.673	1.00	59.28	O
ATOM	17478	OD2	ASP	D	88	21.232	-38.133	62.234	1.00	69.41	O
ATOM	17479	C	ASP	D	88	17.287	-37.786	59.610	1.00	53.60	C
ATOM	17480	O	ASP	D	88	17.455	-38.845	59.018	1.00	55.99	O
ATOM	17482	N	GLN	D	89	16.088	-37.302	59.893	1.00	51.21	N

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ATOM	17483	CA	GLN	D	89	14.887	-37.953	59.425	1.00	52.09	C
ATOM	17485	CB	GLN	D	89	13.964	-38.252	60.611	1.00	52.89	C
ATOM	17488	CG	GLN	D	89	14.633	-38.947	61.791	1.00	55.87	C
ATOM	17491	CD	GLN	D	89	15.023	-40.398	61.500	1.00	65.01	C
ATOM	17492	OE1	GLN	D	89	15.962	-40.664	60.747	1.00	71.22	O
ATOM	17493	NE2	GLN	D	89	14.318	-41.340	62.122	1.00	64.03	N
ATOM	17496	C	GLN	D	89	14.180	-37.071	58.382	1.00	52.21	C
ATOM	17497	O	GLN	D	89	12.944	-37.020	58.343	1.00	51.02	O
ATOM	17499	N	GLY	D	90	14.964	-36.383	57.543	1.00	50.99	N
ATOM	17500	CA	GLY	D	90	14.426	-35.471	56.518	1.00	50.85	C
ATOM	17503	C	GLY	D	90	13.410	-34.456	57.031	1.00	51.11	C
ATOM	17504	O	GLY	D	90	12.399	-34.172	56.377	1.00	49.62	O
ATOM	17506	N	ASN	D	91	13.680	-33.906	58.209	1.00	50.10	N
ATOM	17507	CA	ASN	D	91	12.744	-33.010	58.862	1.00	49.16	C
ATOM	17509	CB	ASN	D	91	12.176	-33.674	60.105	1.00	48.68	C
ATOM	17512	CG	ASN	D	91	10.987	-32.939	60.664	1.00	47.44	C
ATOM	17513	OD1	ASN	D	91	10.008	-33.549	61.065	1.00	41.58	O
ATOM	17514	ND2	ASN	D	91	11.060	-31.620	60.685	1.00	53.16	N
ATOM	17517	C	ASN	D	91	13.456	-31.715	59.210	1.00	49.71	C
ATOM	17518	O	ASN	D	91	14.389	-31.710	60.019	1.00	50.12	O
ATOM	17520	N	PHE	D	92	13.004	-30.626	58.586	1.00	48.98	N
ATOM	17521	CA	PHE	D	92	13.711	-29.357	58.588	1.00	47.76	C
ATOM	17523	CB	PHE	D	92	14.259	-29.065	57.193	1.00	49.53	C
ATOM	17526	CG	PHE	D	92	14.925	-30.240	56.558	1.00	51.11	C
ATOM	17527	CD1	PHE	D	92	15.832	-31.009	57.274	1.00	53.50	C
ATOM	17529	CE1	PHE	D	92	16.440	-32.099	56.697	1.00	54.86	C
ATOM	17531	CZ	PHE	D	92	16.150	-32.440	55.385	1.00	57.58	C
ATOM	17533	CE2	PHE	D	92	15.244	-31.690	54.662	1.00	55.72	C
ATOM	17535	CD2	PHE	D	92	14.639	-30.592	55.250	1.00	55.78	C
ATOM	17537	C	PHE	D	92	12.761	-28.270	59.001	1.00	46.74	C
ATOM	17538	O	PHE	D	92	12.443	-27.391	58.204	1.00	46.60	O
ATOM	17540	N	PRO	D	93	12.319	-28.307	60.262	1.00	46.04	N
ATOM	17541	CA	PRO	D	93	11.266	-27.408	60.661	1.00	46.87	C
ATOM	17543	CB	PRO	D	93	10.712	-28.060	61.925	1.00	48.35	C
ATOM	17546	CG	PRO	D	93	11.861	-28.786	62.509	1.00	46.63	C
ATOM	17549	CD	PRO	D	93	12.796	-29.127	61.388	1.00	46.27	C
ATOM	17552	C	PRO	D	93	11.815	-26.043	60.987	1.00	48.35	C
ATOM	17553	O	PRO	D	93	12.992	-25.913	61.351	1.00	48.65	O
ATOM	17554	N	LEU	D	94	10.959	-25.041	60.826	1.00	48.56	N
ATOM	17555	CA	LEU	D	94	11.221	-23.685	61.269	1.00	47.67	C
ATOM	17557	CB	LEU	D	94	10.887	-22.698	60.160	1.00	46.80	C
ATOM	17560	CG	LEU	D	94	10.929	-21.208	60.495	1.00	47.25	C
ATOM	17562	CD1	LEU	D	94	12.293	-20.835	61.068	1.00	48.22	C
ATOM	17566	CD2	LEU	D	94	10.604	-20.384	59.242	1.00	45.98	C
ATOM	17570	C	LEU	D	94	10.313	-23.454	62.457	1.00	49.54	C
ATOM	17571	O	LEU	D	94	9.080	-23.465	62.310	1.00	48.55	O
ATOM	17573	N	ILE	D	95	10.917	-23.268	63.632	1.00	50.54	N
ATOM	17574	CA	ILE	D	95	10.169	-23.016	64.864	1.00	50.79	C
ATOM	17576	CB	ILE	D	95	10.653	-23.912	66.021	1.00	49.82	C
ATOM	17578	CG1	ILE	D	95	10.956	-25.322	65.511	1.00	50.38	C
ATOM	17581	CD1	ILE	D	95	11.032	-26.388	66.588	1.00	49.96	C
ATOM	17585	CG2	ILE	D	95	9.604	-23.951	67.120	1.00	51.11	C
ATOM	17589	C	ILE	D	95	10.307	-21.546	65.270	1.00	53.06	C
ATOM	17590	O	ILE	D	95	11.423	-20.995	65.279	1.00	56.14	O
ATOM	17592	N	ILE	D	96	9.181	-20.919	65.615	1.00	52.52	N
ATOM	17593	CA	ILE	D	96	9.170	-19.500	65.963	1.00	52.98	C
ATOM	17595	CB	ILE	D	96	8.468	-18.688	64.868	1.00	51.34	C
ATOM	17597	CG1	ILE	D	96	9.101	-19.011	63.512	1.00	50.27	C
ATOM	17600	CD1	ILE	D	96	8.559	-18.211	62.354	1.00	54.15	C
ATOM	17604	CG2	ILE	D	96	8.557	-17.193	65.164	1.00	51.83	C
ATOM	17608	C	ILE	D	96	8.522	-19.241	67.336	1.00	54.32	C
ATOM	17609	O	ILE	D	96	7.325	-19.424	67.491	1.00	55.46	O
ATOM	17611	N	LYS	D	97	9.341	-18.793	68.296	1.00	55.29	N

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ATOM	17612	CA	LYS	D	97	8.935	-18.449	69.670	1.00	56.12	C
ATOM	17614	CB	LYS	D	97	10.170	-18.334	70.578	1.00	57.63	C
ATOM	17617	CG	LYS	D	97	11.124	-19.532	70.601	1.00	62.44	C
ATOM	17620	CD	LYS	D	97	12.533	-19.131	71.085	1.00	62.68	C
ATOM	17623	CE	LYS	D	97	13.637	-19.851	70.277	1.00	68.50	C
ATOM	17626	NZ	LYS	D	97	15.035	-19.394	70.616	1.00	67.47	N
ATOM	17630	C	LYS	D	97	8.240	-17.091	69.740	1.00	56.64	C
ATOM	17631	O	LYS	D	97	8.506	-16.204	68.924	1.00	54.64	O
ATOM	17633	N	ASN	D	98	7.383	-16.916	70.744	1.00	56.52	N
ATOM	17634	CA	ASN	D	98	6.769	-15.619	71.011	1.00	55.97	C
ATOM	17636	CB	ASN	D	98	7.737	-14.729	71.770	1.00	56.98	C
ATOM	17639	CG	ASN	D	98	8.271	-15.388	72.998	1.00	61.78	C
ATOM	17640	OD1	ASN	D	98	9.489	-15.509	73.171	1.00	69.09	O
ATOM	17641	ND2	ASN	D	98	7.368	-15.844	73.864	1.00	67.30	N
ATOM	17644	C	ASN	D	98	6.323	-14.908	69.745	1.00	55.57	C
ATOM	17645	O	ASN	D	98	6.728	-13.770	69.467	1.00	57.09	O
ATOM	17647	N	LEU	D	99	5.483	-15.591	68.980	1.00	53.56	N
ATOM	17648	CA	LEU	D	99	4.948	-15.035	67.756	1.00	52.64	C
ATOM	17650	CB	LEU	D	99	3.770	-15.873	67.280	1.00	53.96	C
ATOM	17653	CG	LEU	D	99	4.075	-17.191	66.583	1.00	51.73	C
ATOM	17655	CD1	LEU	D	99	2.873	-18.088	66.695	1.00	52.25	C
ATOM	17659	CD2	LEU	D	99	4.445	-16.943	65.131	1.00	49.58	C
ATOM	17663	C	LEU	D	99	4.453	-13.629	67.988	1.00	50.70	C
ATOM	17664	O	LEU	D	99	3.723	-13.381	68.943	1.00	50.72	O
ATOM	17666	N	LYS	D	100	4.866	-12.717	67.121	1.00	49.61	N
ATOM	17667	CA	LYS	D	100	4.215	-11.424	66.997	1.00	50.36	C
ATOM	17669	CB	LYS	D	100	5.235	-10.338	66.669	1.00	51.27	C
ATOM	17672	CG	LYS	D	100	6.370	-10.242	67.678	1.00	54.97	C
ATOM	17675	CD	LYS	D	100	7.345	-9.134	67.337	1.00	51.88	C
ATOM	17678	CE	LYS	D	100	8.586	-9.224	68.205	1.00	55.94	C
ATOM	17681	NZ	LYS	D	100	9.628	-8.233	67.777	1.00	65.64	N
ATOM	17685	C	LYS	D	100	3.167	-11.519	65.884	1.00	50.00	C
ATOM	17686	O	LYS	D	100	3.186	-12.460	65.081	1.00	47.49	O
ATOM	17688	N	ILE	D	101	2.246	-10.557	65.842	1.00	50.48	N
ATOM	17689	CA	ILE	D	101	1.294	-10.491	64.745	1.00	49.48	C
ATOM	17691	CB	ILE	D	101	0.272	-9.331	64.879	1.00	51.04	C
ATOM	17693	CG1	ILE	D	101	-1.038	-9.808	65.517	1.00	52.16	C
ATOM	17696	CD1	ILE	D	101	-0.890	-10.467	66.844	1.00	58.31	C
ATOM	17700	CG2	ILE	D	101	-0.102	-8.761	63.501	1.00	52.45	C
ATOM	17704	C	ILE	D	101	2.065	-10.336	63.453	1.00	49.70	C
ATOM	17705	O	ILE	D	101	1.709	-10.968	62.460	1.00	51.08	O
ATOM	17707	N	GLU	D	102	3.124	-9.517	63.467	1.00	48.47	N
ATOM	17708	CA	GLU	D	102	3.848	-9.191	62.233	1.00	47.42	C
ATOM	17710	CB	GLU	D	102	4.536	-7.815	62.318	1.00	48.71	C
ATOM	17713	CG	GLU	D	102	5.879	-7.740	63.067	1.00	56.38	C
ATOM	17716	CD	GLU	D	102	5.794	-6.997	64.401	1.00	61.88	C
ATOM	17717	OE1	GLU	D	102	4.836	-7.259	65.184	1.00	62.54	O
ATOM	17718	OE2	GLU	D	102	6.700	-6.163	64.655	1.00	56.63	O
ATOM	17719	C	GLU	D	102	4.819	-10.268	61.729	1.00	46.05	C
ATOM	17720	O	GLU	D	102	5.528	-10.030	60.758	1.00	45.71	O
ATOM	17722	N	ASP	D	103	4.853	-11.436	62.375	1.00	47.39	N
ATOM	17723	CA	ASP	D	103	5.526	-12.626	61.814	1.00	47.66	C
ATOM	17725	CB	ASP	D	103	5.779	-13.697	62.887	1.00	47.98	C
ATOM	17728	CG	ASP	D	103	6.707	-13.237	63.990	1.00	49.22	C
ATOM	17729	OD1	ASP	D	103	7.691	-12.543	63.703	1.00	55.42	O
ATOM	17730	OD2	ASP	D	103	6.464	-13.592	65.158	1.00	56.95	O
ATOM	17731	C	ASP	D	103	4.683	-13.276	60.715	1.00	48.59	C
ATOM	17732	O	ASP	D	103	5.165	-14.165	60.001	1.00	48.20	O
ATOM	17734	N	SER	D	104	3.410	-12.877	60.618	1.00	49.63	N
ATOM	17735	CA	SER	D	104	2.503	-13.423	59.607	1.00	47.43	C
ATOM	17737	CB	SER	D	104	1.097	-12.835	59.724	1.00	46.44	C
ATOM	17740	OG	SER	D	104	0.576	-12.950	61.035	1.00	47.73	O
ATOM	17742	C	SER	D	104	3.076	-13.096	58.244	1.00	47.63	C

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ATOM	17743	O	SER	D	104	3.334	-11.927	57.925	1.00	49.32	O
ATOM	17745	N	ASP	D	105	3.292	-14.150	57.471	1.00	46.35	N
ATOM	17746	CA	ASP	D	105	3.961	-14.081	56.187	1.00	45.68	C
ATOM	17748	CB	ASP	D	105	5.454	-13.751	56.379	1.00	44.54	C
ATOM	17751	CG	ASP	D	105	6.113	-13.157	55.126	1.00	45.86	C
ATOM	17752	OD1	ASP	D	105	5.564	-13.269	54.003	1.00	40.32	O
ATOM	17753	OD2	ASP	D	105	7.202	-12.567	55.274	1.00	46.39	O
ATOM	17754	C	ASP	D	105	3.802	-15.454	55.504	1.00	45.18	C
ATOM	17755	O	ASP	D	105	3.259	-16.411	56.081	1.00	39.80	O
ATOM	17757	N	THR	D	106	4.250	-15.517	54.261	1.00	45.62	N
ATOM	17758	CA	THR	D	106	4.394	-16.758	53.564	1.00	46.95	C
ATOM	17760	CB	THR	D	106	3.878	-16.656	52.124	1.00	45.75	C
ATOM	17762	OG1	THR	D	106	2.455	-16.789	52.146	1.00	43.96	O
ATOM	17764	CG2	THR	D	106	4.454	-17.747	51.236	1.00	46.64	C
ATOM	17768	C	THR	D	106	5.865	-17.100	53.628	1.00	49.23	C
ATOM	17769	O	THR	D	106	6.714	-16.306	53.231	1.00	53.20	O
ATOM	17771	N	TYR	D	107	6.149	-18.280	54.166	1.00	50.82	N
ATOM	17772	CA	TYR	D	107	7.497	-18.771	54.304	1.00	50.99	C
ATOM	17774	CB	TYR	D	107	7.712	-19.296	55.710	1.00	49.84	C
ATOM	17777	CG	TYR	D	107	7.688	-18.190	56.719	1.00	47.46	C
ATOM	17778	CD1	TYR	D	107	6.502	-17.814	57.335	1.00	48.00	C
ATOM	17780	CE1	TYR	D	107	6.465	-16.776	58.261	1.00	49.53	C
ATOM	17782	CZ	TYR	D	107	7.623	-16.097	58.571	1.00	51.13	C
ATOM	17783	OH	TYR	D	107	7.589	-15.069	59.492	1.00	49.82	O
ATOM	17785	CE2	TYR	D	107	8.822	-16.447	57.953	1.00	51.42	C
ATOM	17787	CD2	TYR	D	107	8.845	-17.487	57.030	1.00	46.99	C
ATOM	17789	C	TYR	D	107	7.709	-19.846	53.271	1.00	53.47	C
ATOM	17790	O	TYR	D	107	6.800	-20.614	52.983	1.00	55.68	O
ATOM	17792	N	ILE	D	108	8.912	-19.873	52.705	1.00	54.50	N
ATOM	17793	CA	ILE	D	108	9.221	-20.712	51.571	1.00	54.69	C
ATOM	17795	CB	ILE	D	108	9.639	-19.874	50.370	1.00	55.47	C
ATOM	17797	CG1	ILE	D	108	8.763	-18.620	50.247	1.00	58.98	C
ATOM	17800	CD1	ILE	D	108	9.438	-17.485	49.470	1.00	59.41	C
ATOM	17804	CG2	ILE	D	108	9.564	-20.713	49.106	1.00	54.90	C
ATOM	17808	C	ILE	D	108	10.393	-21.572	51.946	1.00	54.85	C
ATOM	17809	O	ILE	D	108	11.366	-21.072	52.483	1.00	55.07	O
ATOM	17811	N	CYS	D	109	10.302	-22.861	51.649	1.00	57.10	N
ATOM	17812	CA	CYS	D	109	11.345	-23.814	51.988	1.00	55.92	C
ATOM	17814	CB	CYS	D	109	10.786	-24.891	52.921	1.00	58.35	C
ATOM	17817	SG	CYS	D	109	12.043	-25.973	53.691	1.00	63.70	S
ATOM	17819	C	CYS	D	109	11.873	-24.437	50.708	1.00	54.59	C
ATOM	17820	O	CYS	D	109	11.207	-25.266	50.094	1.00	53.53	O
ATOM	17822	N	GLU	D	110	13.067	-24.026	50.301	1.00	53.89	N
ATOM	17823	CA	GLU	D	110	13.667	-24.522	49.078	1.00	54.43	C
ATOM	17825	CB	GLU	D	110	14.624	-23.488	48.502	1.00	53.55	C
ATOM	17828	CG	GLU	D	110	14.007	-22.109	48.290	1.00	57.55	C
ATOM	17831	CD	GLU	D	110	15.000	-21.092	47.744	1.00	59.72	C
ATOM	17832	OE1	GLU	D	110	16.207	-21.178	48.083	1.00	69.01	O
ATOM	17833	OE2	GLU	D	110	14.571	-20.203	46.976	1.00	62.17	O
ATOM	17834	C	GLU	D	110	14.407	-25.808	49.414	1.00	54.19	C
ATOM	17835	O	GLU	D	110	15.289	-25.802	50.271	1.00	53.94	O
ATOM	17837	N	VAL	D	111	14.035	-26.906	48.756	1.00	54.36	N
ATOM	17838	CA	VAL	D	111	14.659	-28.211	48.988	1.00	55.10	C
ATOM	17840	CB	VAL	D	111	14.183	-28.822	50.327	1.00	53.51	C
ATOM	17842	CG1	VAL	D	111	12.685	-29.136	50.305	1.00	51.44	C
ATOM	17846	CG2	VAL	D	111	14.997	-30.056	50.669	1.00	54.35	C
ATOM	17850	C	VAL	D	111	14.394	-29.194	47.832	1.00	57.12	C
ATOM	17851	O	VAL	D	111	13.244	-29.495	47.522	1.00	58.09	O
ATOM	17853	N	GLU	D	112	15.462	-29.684	47.201	1.00	59.76	N
ATOM	17854	CA	GLU	D	112	15.366	-30.585	46.039	1.00	61.43	C
ATOM	17856	CB	GLU	D	112	14.718	-31.931	46.424	1.00	62.31	C
ATOM	17859	CG	GLU	D	112	15.297	-32.668	47.631	1.00	61.85	C
ATOM	17862	CD	GLU	D	112	14.346	-33.755	48.145	1.00	62.28	C

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ATOM	17863	OE1	GLU	D	112	13.305	-33.413	48.754	1.00	60.57	O
ATOM	17864	OE2	GLU	D	112	14.632	-34.952	47.939	1.00	62.56	O
ATOM	17865	C	GLU	D	112	14.573	-29.964	44.870	1.00	63.64	C
ATOM	17866	O	GLU	D	112	13.701	-30.619	44.279	1.00	64.99	O
ATOM	17868	N	ASP	D	113	14.867	-28.709	44.535	1.00	64.25	N
ATOM	17869	CA	ASP	D	113	14.118	-27.990	43.487	1.00	64.40	C
ATOM	17871	CB	ASP	D	113	14.372	-28.605	42.108	1.00	64.94	C
ATOM	17874	CG	ASP	D	113	15.826	-28.914	41.881	1.00	67.23	C
ATOM	17875	OD1	ASP	D	113	16.661	-28.062	42.245	1.00	69.33	O
ATOM	17876	OD2	ASP	D	113	16.134	-30.007	41.357	1.00	72.39	O
ATOM	17877	C	ASP	D	113	12.626	-27.993	43.771	1.00	63.70	C
ATOM	17878	O	ASP	D	113	11.822	-28.188	42.870	1.00	62.08	O
ATOM	17880	N	GLN	D	114	12.280	-27.808	45.042	1.00	65.47	N
ATOM	17881	CA	GLN	D	114	10.899	-27.615	45.475	1.00	66.02	C
ATOM	17883	CB	GLN	D	114	10.473	-28.703	46.462	1.00	65.08	C
ATOM	17886	CG	GLN	D	114	10.479	-30.093	45.884	1.00	64.18	C
ATOM	17889	CD	GLN	D	114	9.546	-30.225	44.701	1.00	63.51	C
ATOM	17890	OE1	GLN	D	114	9.862	-30.898	43.724	1.00	63.23	O
ATOM	17891	NE2	GLN	D	114	8.392	-29.570	44.777	1.00	61.91	N
ATOM	17894	C	GLN	D	114	10.801	-26.276	46.169	1.00	66.99	C
ATOM	17895	O	GLN	D	114	11.816	-25.649	46.472	1.00	67.91	O
ATOM	17897	N	LYS	D	115	9.572	-25.845	46.417	1.00	67.54	N
ATOM	17898	CA	LYS	D	115	9.323	-24.680	47.237	1.00	68.05	C
ATOM	17900	CB	LYS	D	115	9.155	-23.438	46.354	1.00	67.67	C
ATOM	17903	CG	LYS	D	115	10.415	-23.040	45.562	1.00	71.79	C
ATOM	17906	CD	LYS	D	115	10.427	-21.540	45.151	1.00	73.30	C
ATOM	17909	CE	LYS	D	115	11.334	-20.674	46.061	1.00	78.19	C
ATOM	17912	NZ	LYS	D	115	10.941	-19.217	46.127	1.00	75.63	N
ATOM	17916	C	LYS	D	115	8.087	-24.929	48.110	1.00	67.97	C
ATOM	17917	O	LYS	D	115	6.983	-24.519	47.753	1.00	70.14	O
ATOM	17919	N	GLU	D	116	8.277	-25.613	49.243	1.00	66.62	N
ATOM	17920	CA	GLU	D	116	7.189	-25.823	50.214	1.00	65.87	C
ATOM	17922	CB	GLU	D	116	7.588	-26.693	51.424	1.00	67.20	C
ATOM	17925	CG	GLU	D	116	8.674	-27.768	51.232	1.00	72.35	C
ATOM	17928	CD	GLU	D	116	8.164	-29.092	50.704	1.00	74.69	C
ATOM	17929	OE1	GLU	D	116	8.984	-29.834	50.107	1.00	70.69	O
ATOM	17930	OE2	GLU	D	116	6.964	-29.399	50.903	1.00	81.52	O
ATOM	17931	C	GLU	D	116	6.791	-24.452	50.745	1.00	64.53	C
ATOM	17932	O	GLU	D	116	7.580	-23.816	51.433	1.00	64.43	O
ATOM	17934	N	GLU	D	117	5.582	-24.001	50.418	1.00	63.26	N
ATOM	17935	CA	GLU	D	117	5.091	-22.683	50.834	1.00	61.06	C
ATOM	17937	CB	GLU	D	117	4.436	-21.948	49.665	1.00	60.98	C
ATOM	17940	CG	GLU	D	117	5.315	-20.920	48.984	1.00	63.22	C
ATOM	17943	CD	GLU	D	117	4.647	-20.310	47.757	1.00	65.19	C
ATOM	17944	OE1	GLU	D	117	3.434	-20.558	47.533	1.00	64.15	O
ATOM	17945	OE2	GLU	D	117	5.341	-19.587	47.009	1.00	73.03	O
ATOM	17946	C	GLU	D	117	4.070	-22.824	51.936	1.00	58.20	C
ATOM	17947	O	GLU	D	117	2.997	-23.374	51.724	1.00	58.52	O
ATOM	17949	N	VAL	D	118	4.405	-22.317	53.110	1.00	56.15	N
ATOM	17950	CA	VAL	D	118	3.475	-22.273	54.213	1.00	55.15	C
ATOM	17952	CB	VAL	D	118	4.103	-22.845	55.483	1.00	55.28	C
ATOM	17954	CG1	VAL	D	118	3.188	-22.623	56.672	1.00	59.84	C
ATOM	17958	CG2	VAL	D	118	4.383	-24.328	55.309	1.00	61.55	C
ATOM	17962	C	VAL	D	118	3.115	-20.818	54.453	1.00	52.51	C
ATOM	17963	O	VAL	D	118	3.993	-19.973	54.545	1.00	46.39	O
ATOM	17965	N	GLN	D	119	1.818	-20.540	54.554	1.00	52.44	N
ATOM	17966	CA	GLN	D	119	1.344	-19.240	54.986	1.00	52.03	C
ATOM	17968	CB	GLN	D	119	0.089	-18.818	54.236	1.00	50.69	C
ATOM	17971	CG	GLN	D	119	-0.631	-17.671	54.922	1.00	53.87	C
ATOM	17974	CD	GLN	D	119	-1.306	-16.724	53.962	1.00	55.76	C
ATOM	17975	OE1	GLN	D	119	-2.405	-16.997	53.458	1.00	57.45	O
ATOM	17976	NE2	GLN	D	119	-0.665	-15.578	53.723	1.00	56.47	N
ATOM	17979	C	GLN	D	119	1.059	-19.272	56.478	1.00	50.84	C

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ATOM	17980	O	GLN	D	119	0.174	-19.975	56.936	1.00	48.06	O
ATOM	17982	N	LEU	D	120	1.818	-18.491	57.232	1.00	52.34	N
ATOM	17983	CA	LEU	D	120	1.591	-18.369	58.655	1.00	52.02	C
ATOM	17985	CB	LEU	D	120	2.914	-18.234	59.416	1.00	52.51	C
ATOM	17988	CG	LEU	D	120	2.787	-17.939	60.914	1.00	50.64	C
ATOM	17990	CD1	LEU	D	120	1.981	-19.026	61.621	1.00	47.00	C
ATOM	17994	CD2	LEU	D	120	4.156	-17.778	61.533	1.00	52.44	C
ATOM	17998	C	LEU	D	120	0.759	-17.132	58.867	1.00	50.99	C
ATOM	17999	O	LEU	D	120	1.141	-16.065	58.410	1.00	50.93	O
ATOM	18001	N	LEU	D	121	-0.374	-17.300	59.552	1.00	51.58	N
ATOM	18002	CA	LEU	D	121	-1.225	-16.205	60.006	1.00	50.99	C
ATOM	18004	CB	LEU	D	121	-2.630	-16.346	59.413	1.00	50.35	C
ATOM	18007	CG	LEU	D	121	-2.689	-15.954	57.929	1.00	52.37	C
ATOM	18009	CD1	LEU	D	121	-3.940	-16.455	57.222	1.00	53.89	C
ATOM	18013	CD2	LEU	D	121	-2.587	-14.461	57.789	1.00	56.04	C
ATOM	18017	C	LEU	D	121	-1.293	-16.221	61.528	1.00	52.40	C
ATOM	18018	O	LEU	D	121	-1.696	-17.243	62.133	1.00	55.35	O
ATOM	18020	N	VAL	D	122	-0.901	-15.099	62.139	1.00	50.06	N
ATOM	18021	CA	VAL	D	122	-0.848	-14.970	63.596	1.00	51.75	C
ATOM	18023	CB	VAL	D	122	0.512	-14.425	64.017	1.00	50.92	C
ATOM	18025	CG1	VAL	D	122	0.522	-14.084	65.503	1.00	53.45	C
ATOM	18029	CG2	VAL	D	122	1.584	-15.436	63.683	1.00	51.19	C
ATOM	18033	C	VAL	D	122	-1.948	-14.055	64.153	1.00	53.51	C
ATOM	18034	O	VAL	D	122	-2.012	-12.882	63.782	1.00	57.15	O
ATOM	18036	N	PHE	D	123	-2.787	-14.582	65.054	1.00	53.51	N
ATOM	18037	CA	PHE	D	123	-3.913	-13.821	65.627	1.00	53.99	C
ATOM	18039	CB	PHE	D	123	-5.248	-14.512	65.363	1.00	54.15	C
ATOM	18042	CG	PHE	D	123	-5.569	-14.697	63.915	1.00	54.30	C
ATOM	18043	CD1	PHE	D	123	-5.834	-13.610	63.111	1.00	49.61	C
ATOM	18045	CE1	PHE	D	123	-6.140	-13.780	61.786	1.00	49.05	C
ATOM	18047	CZ	PHE	D	123	-6.180	-15.040	61.243	1.00	53.38	C
ATOM	18049	CE2	PHE	D	123	-5.919	-16.140	62.033	1.00	54.85	C
ATOM	18051	CD2	PHE	D	123	-5.624	-15.967	63.363	1.00	55.54	C
ATOM	18053	C	PHE	D	123	-3.813	-13.680	67.131	1.00	55.49	C
ATOM	18054	O	PHE	D	123	-3.332	-14.579	67.804	1.00	54.10	O
ATOM	18056	N	GLY	D	124	-4.309	-12.557	67.647	1.00	57.23	N
ATOM	18057	CA	GLY	D	124	-4.513	-12.364	69.084	1.00	56.46	C
ATOM	18060	C	GLY	D	124	-5.910	-11.830	69.380	1.00	56.28	C
ATOM	18061	O	GLY	D	124	-6.446	-11.046	68.608	1.00	57.45	O
ATOM	18063	N	LEU	D	125	-6.484	-12.254	70.505	1.00	55.86	N
ATOM	18064	CA	LEU	D	125	-7.801	-11.808	70.973	1.00	55.02	C
ATOM	18066	CB	LEU	D	125	-8.688	-13.024	71.239	1.00	55.80	C
ATOM	18069	CG	LEU	D	125	-10.175	-12.762	71.473	1.00	56.79	C
ATOM	18071	CD1	LEU	D	125	-10.796	-12.208	70.205	1.00	61.17	C
ATOM	18075	CD2	LEU	D	125	-10.888	-14.021	71.887	1.00	55.80	C
ATOM	18079	C	LEU	D	125	-7.663	-11.006	72.270	1.00	55.05	C
ATOM	18080	O	LEU	D	125	-6.934	-11.397	73.173	1.00	57.75	O
ATOM	18082	N	THR	D	126	-8.397	-9.909	72.384	1.00	55.30	N
ATOM	18083	CA	THR	D	126	-8.227	-8.988	73.505	1.00	54.22	C
ATOM	18085	CB	THR	D	126	-7.120	-7.994	73.183	1.00	53.58	C
ATOM	18087	OG1	THR	D	126	-7.204	-6.891	74.083	1.00	61.96	O
ATOM	18089	CG2	THR	D	126	-7.258	-7.467	71.759	1.00	53.99	C
ATOM	18093	C	THR	D	126	-9.504	-8.204	73.839	1.00	53.09	C
ATOM	18094	O	THR	D	126	-10.285	-7.879	72.952	1.00	55.22	O
ATOM	18096	N	ALA	D	127	-9.701	-7.888	75.116	1.00	52.00	N
ATOM	18097	CA	ALA	D	127	-10.840	-7.073	75.553	1.00	53.40	C
ATOM	18099	CB	ALA	D	127	-11.373	-7.588	76.872	1.00	51.75	C
ATOM	18103	C	ALA	D	127	-10.469	-5.584	75.683	1.00	54.20	C
ATOM	18104	O	ALA	D	127	-9.404	-5.239	76.188	1.00	51.57	O
ATOM	18106	N	ASN	D	128	-11.374	-4.712	75.246	1.00	56.15	N
ATOM	18107	CA	ASN	D	128	-11.171	-3.262	75.325	1.00	58.00	C
ATOM	18109	CB	ASN	D	128	-12.225	-2.518	74.497	1.00	59.23	C
ATOM	18112	CG	ASN	D	128	-12.291	-2.998	73.061	1.00	64.71	C

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ATOM	18113	OD1	ASN	D	128	-11.567	-3.919	72.665	1.00	73.27	O
ATOM	18114	ND2	ASN	D	128	-13.168	-2.383	72.272	1.00	63.61	N
ATOM	18117	C	ASN	D	128	-11.237	-2.718	76.741	1.00	58.78	C
ATOM	18118	O	ASN	D	128	-10.745	-1.622	77.001	1.00	60.88	O
ATOM	18120	N	SER	D	129	-11.874	-3.466	77.640	1.00	60.02	N
ATOM	18121	CA	SER	D	129	-12.130	-3.007	79.009	1.00	60.62	C
ATOM	18123	CB	SER	D	129	-13.618	-2.661	79.199	1.00	61.16	C
ATOM	18126	OG	SER	D	129	-14.214	-2.210	77.991	1.00	60.11	O
ATOM	18128	C	SER	D	129	-11.753	-4.095	79.999	1.00	60.55	C
ATOM	18129	O	SER	D	129	-11.497	-5.231	79.623	1.00	60.80	O
ATOM	18131	N	ASP	D	130	-11.736	-3.742	81.274	1.00	60.66	N
ATOM	18132	CA	ASP	D	130	-11.507	-4.729	82.311	1.00	59.83	C
ATOM	18134	CB	ASP	D	130	-11.679	-4.100	83.703	1.00	61.23	C
ATOM	18137	CG	ASP	D	130	-11.121	-4.966	84.826	1.00	62.22	C
ATOM	18138	OD1	ASP	D	130	-10.602	-6.079	84.564	1.00	64.41	O
ATOM	18139	OD2	ASP	D	130	-11.205	-4.515	85.989	1.00	67.18	O
ATOM	18140	C	ASP	D	130	-12.529	-5.828	82.088	1.00	58.25	C
ATOM	18141	O	ASP	D	130	-13.691	-5.531	81.808	1.00	58.54	O
ATOM	18143	N	THR	D	131	-12.078	-7.080	82.182	1.00	57.24	N
ATOM	18144	CA	THR	D	131	-12.936	-8.263	82.022	1.00	55.57	C
ATOM	18146	CB	THR	D	131	-12.107	-9.487	81.621	1.00	53.38	C
ATOM	18148	OG1	THR	D	131	-11.023	-9.652	82.539	1.00	51.04	O
ATOM	18150	CG2	THR	D	131	-11.555	-9.312	80.238	1.00	53.52	C
ATOM	18154	C	THR	D	131	-13.727	-8.614	83.293	1.00	56.21	C
ATOM	18155	O	THR	D	131	-14.560	-9.530	83.278	1.00	56.72	O
ATOM	18157	N	HIS	D	132	-13.441	-7.904	84.386	1.00	55.72	N
ATOM	18158	CA	HIS	D	132	-14.231	-7.967	85.612	1.00	55.30	C
ATOM	18160	CB	HIS	D	132	-13.324	-7.885	86.839	1.00	54.37	C
ATOM	18163	CG	HIS	D	132	-12.323	-8.997	86.932	1.00	53.87	C
ATOM	18164	ND1	HIS	D	132	-11.677	-9.518	85.830	1.00	53.67	N
ATOM	18166	CE1	HIS	D	132	-10.855	-10.477	86.217	1.00	53.49	C
ATOM	18168	NE2	HIS	D	132	-10.935	-10.589	87.531	1.00	47.90	N
ATOM	18170	CD2	HIS	D	132	-11.845	-9.675	88.003	1.00	48.56	C
ATOM	18172	C	HIS	D	132	-15.165	-6.772	85.581	1.00	55.24	C
ATOM	18173	O	HIS	D	132	-14.716	-5.644	85.422	1.00	55.81	O
ATOM	18175	N	LEU	D	133	-16.463	-7.002	85.715	1.00	56.37	N
ATOM	18176	CA	LEU	D	133	-17.423	-5.916	85.520	1.00	57.71	C
ATOM	18178	CB	LEU	D	133	-17.647	-5.664	84.021	1.00	58.30	C
ATOM	18181	CG	LEU	D	133	-17.733	-6.894	83.101	1.00	61.86	C
ATOM	18183	CD1	LEU	D	133	-18.682	-7.954	83.631	1.00	63.60	C
ATOM	18187	CD2	LEU	D	133	-18.151	-6.484	81.692	1.00	59.41	C
ATOM	18191	C	LEU	D	133	-18.752	-6.176	86.211	1.00	58.35	C
ATOM	18192	O	LEU	D	133	-19.010	-7.278	86.690	1.00	59.32	O
ATOM	18194	N	LEU	D	134	-19.592	-5.145	86.239	1.00	57.45	N
ATOM	18195	CA	LEU	D	134	-20.888	-5.206	86.905	1.00	56.42	C
ATOM	18197	CB	LEU	D	134	-21.272	-3.816	87.422	1.00	56.74	C
ATOM	18200	CG	LEU	D	134	-20.602	-3.324	88.715	1.00	57.94	C
ATOM	18202	CD1	LEU	D	134	-20.972	-1.869	88.950	1.00	58.59	C
ATOM	18206	CD2	LEU	D	134	-19.087	-3.487	88.705	1.00	57.62	C
ATOM	18210	C	LEU	D	134	-21.985	-5.767	85.983	1.00	55.19	C
ATOM	18211	O	LEU	D	134	-21.936	-5.619	84.759	1.00	52.52	O
ATOM	18213	N	GLN	D	135	-22.973	-6.411	86.593	1.00	55.25	N
ATOM	18214	CA	GLN	D	135	-24.077	-7.019	85.862	1.00	55.61	C
ATOM	18216	CB	GLN	D	135	-25.138	-7.535	86.830	1.00	54.63	C
ATOM	18219	CG	GLN	D	135	-26.085	-8.545	86.219	1.00	55.78	C
ATOM	18222	CD	GLN	D	135	-26.989	-9.173	87.254	1.00	59.32	C
ATOM	18223	OE1	GLN	D	135	-27.752	-8.478	87.925	1.00	67.47	O
ATOM	18224	NE2	GLN	D	135	-26.902	-10.492	87.403	1.00	65.64	N
ATOM	18227	C	GLN	D	135	-24.720	-6.014	84.932	1.00	55.52	C
ATOM	18228	O	GLN	D	135	-24.922	-4.865	85.302	1.00	55.92	O
ATOM	18230	N	GLY	D	136	-25.042	-6.448	83.721	1.00	56.26	N
ATOM	18231	CA	GLY	D	136	-25.713	-5.583	82.757	1.00	55.42	C
ATOM	18234	C	GLY	D	136	-24.780	-4.745	81.899	1.00	54.75	C

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ATOM	18235	O	GLY	D	136	-25.234	-4.094	80.962	1.00	57.84	O
ATOM	18237	N	GLN	D	137	-23.485	-4.746	82.208	1.00	51.86	N
ATOM	18238	CA	GLN	D	137	-22.515	-4.062	81.370	1.00	51.09	C
ATOM	18240	CB	GLN	D	137	-21.275	-3.681	82.177	1.00	49.94	C
ATOM	18243	CG	GLN	D	137	-21.522	-2.546	83.144	1.00	47.82	C
ATOM	18246	CD	GLN	D	137	-20.256	-2.046	83.813	1.00	49.66	C
ATOM	18247	OE1	GLN	D	137	-19.324	-2.808	84.049	1.00	50.76	O
ATOM	18248	NE2	GLN	D	137	-20.227	-0.762	84.141	1.00	52.11	N
ATOM	18251	C	GLN	D	137	-22.135	-4.930	80.163	1.00	51.27	C
ATOM	18252	O	GLN	D	137	-22.430	-6.129	80.126	1.00	50.43	O
ATOM	18254	N	SER	D	138	-21.499	-4.302	79.175	1.00	51.61	N
ATOM	18255	CA	SER	D	138	-21.092	-4.967	77.937	1.00	50.74	C
ATOM	18257	CB	SER	D	138	-21.717	-4.279	76.725	1.00	50.04	C
ATOM	18260	OG	SER	D	138	-23.126	-4.236	76.843	1.00	53.94	O
ATOM	18262	C	SER	D	138	-19.589	-4.941	77.774	1.00	49.32	C
ATOM	18263	O	SER	D	138	-18.960	-3.919	77.967	1.00	49.49	O
ATOM	18265	N	LEU	D	139	-19.026	-6.082	77.413	1.00	51.10	N
ATOM	18266	CA	LEU	D	139	-17.615	-6.199	77.090	1.00	51.33	C
ATOM	18268	CB	LEU	D	139	-17.012	-7.375	77.846	1.00	51.35	C
ATOM	18271	CG	LEU	D	139	-15.514	-7.557	77.618	1.00	52.96	C
ATOM	18273	CD1	LEU	D	139	-14.712	-6.447	78.345	1.00	55.77	C
ATOM	18277	CD2	LEU	D	139	-15.090	-8.948	78.054	1.00	53.61	C
ATOM	18281	C	LEU	D	139	-17.462	-6.449	75.593	1.00	51.20	C
ATOM	18282	O	LEU	D	139	-18.159	-7.301	75.026	1.00	49.61	O
ATOM	18284	N	THR	D	140	-16.541	-5.727	74.960	1.00	50.52	N
ATOM	18285	CA	THR	D	140	-16.297	-5.906	73.533	1.00	50.83	C
ATOM	18287	CB	THR	D	140	-16.548	-4.610	72.684	1.00	51.00	C
ATOM	18289	OG1	THR	D	140	-15.605	-4.555	71.606	1.00	53.65	O
ATOM	18291	CG2	THR	D	140	-16.445	-3.333	73.514	1.00	49.90	C
ATOM	18295	C	THR	D	140	-14.901	-6.462	73.299	1.00	50.83	C
ATOM	18296	O	THR	D	140	-13.904	-5.865	73.714	1.00	51.00	O
ATOM	18298	N	LEU	D	141	-14.850	-7.615	72.633	1.00	51.97	N
ATOM	18299	CA	LEU	D	141	-13.595	-8.269	72.271	1.00	52.74	C
ATOM	18301	CB	LEU	D	141	-13.757	-9.784	72.305	1.00	51.17	C
ATOM	18304	CG	LEU	D	141	-14.179	-10.370	73.646	1.00	48.01	C
ATOM	18306	CD1	LEU	D	141	-14.347	-11.865	73.499	1.00	44.17	C
ATOM	18310	CD2	LEU	D	141	-13.176	-10.026	74.750	1.00	47.63	C
ATOM	18314	C	LEU	D	141	-13.149	-7.855	70.883	1.00	53.26	C
ATOM	18315	O	LEU	D	141	-13.986	-7.583	70.020	1.00	54.40	O
ATOM	18317	N	THR	D	142	-11.832	-7.840	70.670	1.00	53.92	N
ATOM	18318	CA	THR	D	142	-11.238	-7.422	69.386	1.00	55.49	C
ATOM	18320	CB	THR	D	142	-10.629	-6.013	69.492	1.00	54.17	C
ATOM	18322	OG1	THR	D	142	-11.548	-5.162	70.182	1.00	57.68	O
ATOM	18324	CG2	THR	D	142	-10.347	-5.435	68.130	1.00	52.38	C
ATOM	18328	C	THR	D	142	-10.141	-8.376	68.938	1.00	56.34	C
ATOM	18329	O	THR	D	142	-9.446	-8.959	69.762	1.00	58.22	O
ATOM	18331	N	LEU	D	143	-9.995	-8.527	67.626	1.00	56.33	N
ATOM	18332	CA	LEU	D	143	-8.968	-9.388	67.053	1.00	56.03	C
ATOM	18334	CB	LEU	D	143	-9.534	-10.202	65.900	1.00	56.84	C
ATOM	18337	CG	LEU	D	143	-10.257	-11.498	66.244	1.00	60.58	C
ATOM	18339	CD1	LEU	D	143	-11.411	-11.224	67.182	1.00	60.22	C
ATOM	18343	CD2	LEU	D	143	-10.718	-12.189	64.950	1.00	58.03	C
ATOM	18347	C	LEU	D	143	-7.825	-8.560	66.510	1.00	56.02	C
ATOM	18348	O	LEU	D	143	-8.048	-7.626	65.729	1.00	57.30	O
ATOM	18350	N	GLU	D	144	-6.605	-8.899	66.913	1.00	54.80	N
ATOM	18351	CA	GLU	D	144	-5.420	-8.371	66.251	1.00	55.99	C
ATOM	18353	CB	GLU	D	144	-4.266	-8.183	67.241	1.00	55.63	C
ATOM	18356	CG	GLU	D	144	-3.362	-7.002	66.890	1.00	60.69	C
ATOM	18359	CD	GLU	D	144	-2.114	-6.926	67.752	1.00	63.94	C
ATOM	18360	OE1	GLU	D	144	-2.146	-7.458	68.887	1.00	72.09	O
ATOM	18361	OE2	GLU	D	144	-1.106	-6.333	67.292	1.00	69.98	O
ATOM	18362	C	GLU	D	144	-5.069	-9.365	65.144	1.00	54.60	C
ATOM	18363	O	GLU	D	144	-4.844	-10.552	65.412	1.00	56.41	O

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ATOM	18365	N	SER	D	145	-5.056	-8.890	63.903	1.00	52.86	N
ATOM	18366	CA	SER	D	145	-4.920	-9.768	62.736	1.00	53.37	C
ATOM	18368	CB	SER	D	145	-6.304	-10.028	62.117	1.00	52.48	C
ATOM	18371	OG	SER	D	145	-6.858	-8.858	61.516	1.00	53.25	O
ATOM	18373	C	SER	D	145	-3.978	-9.148	61.701	1.00	52.37	C
ATOM	18374	O	SER	D	145	-3.958	-7.933	61.554	1.00	54.29	O
ATOM	18376	N	PRO	D	146	-3.210	-9.978	60.968	1.00	51.88	N
ATOM	18377	CA	PRO	D	146	-2.262	-9.416	59.997	1.00	51.04	C
ATOM	18379	CB	PRO	D	146	-1.402	-10.611	59.627	1.00	51.10	C
ATOM	18382	CG	PRO	D	146	-2.321	-11.785	59.786	1.00	50.23	C
ATOM	18385	CD	PRO	D	146	-3.185	-11.453	60.966	1.00	50.99	C
ATOM	18388	C	PRO	D	146	-2.969	-8.894	58.761	1.00	50.82	C
ATOM	18389	O	PRO	D	146	-4.080	-9.315	58.478	1.00	50.19	O
ATOM	18390	N	PRO	D	147	-2.333	-7.976	58.025	1.00	53.17	N
ATOM	18391	CA	PRO	D	147	-2.921	-7.335	56.845	1.00	53.12	C
ATOM	18393	CB	PRO	D	147	-1.728	-6.624	56.223	1.00	53.31	C
ATOM	18396	CG	PRO	D	147	-0.891	-6.266	57.385	1.00	55.28	C
ATOM	18399	CD	PRO	D	147	-0.986	-7.447	58.301	1.00	54.19	C
ATOM	18402	C	PRO	D	147	-3.591	-8.251	55.810	1.00	53.13	C
ATOM	18403	O	PRO	D	147	-4.637	-7.897	55.263	1.00	54.73	O
ATOM	18404	N	GLY	D	148	-3.021	-9.408	55.523	1.00	53.41	N
ATOM	18405	CA	GLY	D	148	-3.678	-10.313	54.567	1.00	55.58	C
ATOM	18408	C	GLY	D	148	-5.009	-10.913	55.038	1.00	55.14	C
ATOM	18409	O	GLY	D	148	-5.930	-11.116	54.251	1.00	50.96	O
ATOM	18411	N	SER	D	149	-5.094	-11.147	56.343	1.00	54.71	N
ATOM	18412	CA	SER	D	149	-6.037	-12.068	56.941	1.00	53.77	C
ATOM	18414	CB	SER	D	149	-5.726	-12.207	58.427	1.00	54.85	C
ATOM	18417	OG	SER	D	149	-6.017	-10.996	59.084	1.00	56.72	O
ATOM	18419	C	SER	D	149	-7.484	-11.671	56.790	1.00	52.08	C
ATOM	18420	O	SER	D	149	-7.798	-10.581	56.317	1.00	50.36	O
ATOM	18422	N	SER	D	150	-8.353	-12.583	57.231	1.00	50.75	N
ATOM	18423	CA	SER	D	150	-9.764	-12.537	56.923	1.00	48.63	C
ATOM	18425	CB	SER	D	150	-9.936	-13.290	55.605	1.00	48.04	C
ATOM	18428	OG	SER	D	150	-11.094	-12.867	54.941	1.00	50.58	O
ATOM	18430	C	SER	D	150	-10.674	-13.168	58.002	1.00	47.91	C
ATOM	18431	O	SER	D	150	-11.739	-13.675	57.675	1.00	47.31	O
ATOM	18433	N	PRO	D	151	-10.292	-13.096	59.294	1.00	46.40	N
ATOM	18434	CA	PRO	D	151	-10.920	-13.946	60.312	1.00	46.91	C
ATOM	18436	CB	PRO	D	151	-10.002	-13.750	61.507	1.00	45.83	C
ATOM	18439	CG	PRO	D	151	-9.565	-12.344	61.370	1.00	46.53	C
ATOM	18442	CD	PRO	D	151	-9.286	-12.207	59.905	1.00	47.48	C
ATOM	18445	C	PRO	D	151	-12.345	-13.588	60.748	1.00	47.44	C
ATOM	18446	O	PRO	D	151	-12.781	-12.453	60.554	1.00	46.11	O
ATOM	18447	N	SER	D	152	-13.038	-14.567	61.343	1.00	47.38	N
ATOM	18448	CA	SER	D	152	-14.302	-14.340	62.069	1.00	49.80	C
ATOM	18450	CB	SER	D	152	-15.513	-14.738	61.218	1.00	49.91	C
ATOM	18453	OG	SER	D	152	-15.484	-16.117	60.872	1.00	57.34	O
ATOM	18455	C	SER	D	152	-14.287	-15.102	63.416	1.00	49.58	C
ATOM	18456	O	SER	D	152	-13.391	-15.889	63.667	1.00	49.21	O
ATOM	18458	N	VAL	D	153	-15.263	-14.859	64.286	1.00	50.80	N
ATOM	18459	CA	VAL	D	153	-15.117	-15.231	65.700	1.00	52.57	C
ATOM	18461	CB	VAL	D	153	-14.724	-14.022	66.570	1.00	51.92	C
ATOM	18463	CG1	VAL	D	153	-14.374	-14.475	67.987	1.00	50.90	C
ATOM	18467	CG2	VAL	D	153	-13.580	-13.278	65.971	1.00	58.01	C
ATOM	18471	C	VAL	D	153	-16.394	-15.718	66.337	1.00	54.01	C
ATOM	18472	O	VAL	D	153	-17.450	-15.115	66.142	1.00	54.00	O
ATOM	18474	N	GLN	D	154	-16.276	-16.761	67.154	1.00	54.05	N
ATOM	18475	CA	GLN	D	154	-17.400	-17.252	67.935	1.00	56.08	C
ATOM	18477	CB	GLN	D	154	-17.918	-18.552	67.327	1.00	55.99	C
ATOM	18480	CG	GLN	D	154	-19.218	-19.058	67.913	1.00	54.19	C
ATOM	18483	CD	GLN	D	154	-19.696	-20.309	67.194	1.00	53.64	C
ATOM	18484	OE1	GLN	D	154	-18.987	-21.308	67.153	1.00	57.94	O
ATOM	18485	NE2	GLN	D	154	-20.884	-20.253	66.611	1.00	37.30	N

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ATOM	18488	C	GLN	D	154	-16.949	-17.482	69.369	1.00	57.47	C
ATOM	18489	O	GLN	D	154	-15.963	-18.170	69.589	1.00	59.08	O
ATOM	18491	N	CYS	D	155	-17.646	-16.887	70.334	1.00	58.37	N
ATOM	18492	CA	CYS	D	155	-17.365	-17.138	71.743	1.00	57.77	C
ATOM	18494	CB	CYS	D	155	-17.093	-15.846	72.494	1.00	57.38	C
ATOM	18497	SG	CYS	D	155	-15.687	-14.948	71.865	1.00	62.04	S
ATOM	18499	C	CYS	D	155	-18.541	-17.855	72.359	1.00	58.98	C
ATOM	18500	O	CYS	D	155	-19.691	-17.628	71.973	1.00	60.03	O
ATOM	18502	N	ARG	D	156	-18.235	-18.724	73.316	1.00	59.42	N
ATOM	18503	CA	ARG	D	156	-19.221	-19.569	73.972	1.00	58.07	C
ATOM	18505	CB	ARG	D	156	-18.858	-21.040	73.762	1.00	57.21	C
ATOM	18508	CG	ARG	D	156	-19.934	-22.026	74.198	1.00	60.46	C
ATOM	18511	CD	ARG	D	156	-19.441	-23.477	74.171	1.00	61.19	C
ATOM	18514	NE	ARG	D	156	-18.865	-23.822	72.873	1.00	64.19	N
ATOM	18516	CZ	ARG	D	156	-19.563	-24.033	71.761	1.00	62.39	C
ATOM	18517	NH1	ARG	D	156	-20.881	-23.951	71.755	1.00	66.24	N
ATOM	18520	NH2	ARG	D	156	-18.936	-24.323	70.635	1.00	65.74	N
ATOM	18523	C	ARG	D	156	-19.231	-19.230	75.463	1.00	57.80	C
ATOM	18524	O	ARG	D	156	-18.180	-19.208	76.103	1.00	56.95	O
ATOM	18526	N	SER	D	157	-20.418	-18.962	76.007	1.00	57.05	N
ATOM	18527	CA	SER	D	157	-20.577	-18.702	77.437	1.00	55.35	C
ATOM	18529	CB	SER	D	157	-21.948	-18.081	77.718	1.00	56.54	C
ATOM	18532	OG	SER	D	157	-22.981	-19.056	77.651	1.00	59.97	O
ATOM	18534	C	SER	D	157	-20.454	-19.990	78.237	1.00	52.36	C
ATOM	18535	O	SER	D	157	-20.618	-21.076	77.699	1.00	49.84	O
ATOM	18537	N	PRO	D	158	-20.173	-19.876	79.536	1.00	52.22	N
ATOM	18538	CA	PRO	D	158	-20.259	-21.030	80.431	1.00	52.39	C
ATOM	18540	CB	PRO	D	158	-20.090	-20.396	81.821	1.00	51.88	C
ATOM	18543	CG	PRO	D	158	-19.241	-19.220	81.584	1.00	50.43	C
ATOM	18546	CD	PRO	D	158	-19.688	-18.678	80.243	1.00	53.67	C
ATOM	18549	C	PRO	D	158	-21.575	-21.836	80.353	1.00	50.69	C
ATOM	18550	O	PRO	D	158	-21.617	-22.982	80.799	1.00	48.48	O
ATOM	18551	N	ARG	D	159	-22.635	-21.247	79.804	1.00	50.89	N
ATOM	18552	CA	ARG	D	159	-23.885	-21.981	79.594	1.00	51.66	C
ATOM	18554	CB	ARG	D	159	-25.085	-21.063	79.813	1.00	51.61	C
ATOM	18557	CG	ARG	D	159	-25.122	-20.441	81.202	1.00	52.14	C
ATOM	18560	CD	ARG	D	159	-26.509	-20.012	81.617	1.00	54.01	C
ATOM	18563	NE	ARG	D	159	-27.332	-19.661	80.465	1.00	58.30	N
ATOM	18565	CZ	ARG	D	159	-27.324	-18.491	79.842	1.00	55.15	C
ATOM	18566	NH1	ARG	D	159	-26.559	-17.490	80.264	1.00	55.94	N
ATOM	18569	NH2	ARG	D	159	-28.112	-18.326	78.795	1.00	57.35	N
ATOM	18572	C	ARG	D	159	-23.964	-22.633	78.212	1.00	50.78	C
ATOM	18573	O	ARG	D	159	-24.993	-23.187	77.847	1.00	50.37	O
ATOM	18575	N	GLY	D	160	-22.871	-22.573	77.458	1.00	51.66	N
ATOM	18576	CA	GLY	D	160	-22.768	-23.246	76.177	1.00	51.11	C
ATOM	18579	C	GLY	D	160	-23.488	-22.524	75.061	1.00	51.24	C
ATOM	18580	O	GLY	D	160	-23.803	-23.139	74.045	1.00	52.19	O
ATOM	18582	N	LYS	D	161	-23.752	-21.230	75.239	1.00	51.67	N
ATOM	18583	CA	LYS	D	161	-24.423	-20.425	74.214	1.00	53.02	C
ATOM	18585	CB	LYS	D	161	-25.511	-19.546	74.839	1.00	54.50	C
ATOM	18588	CG	LYS	D	161	-26.675	-20.326	75.482	1.00	57.95	C
ATOM	18591	CD	LYS	D	161	-27.856	-20.517	74.518	1.00	60.42	C
ATOM	18594	CE	LYS	D	161	-29.018	-21.274	75.167	1.00	57.48	C
ATOM	18597	NZ	LYS	D	161	-28.624	-22.645	75.620	1.00	57.99	N
ATOM	18601	C	LYS	D	161	-23.398	-19.562	73.472	1.00	54.00	C
ATOM	18602	O	LYS	D	161	-22.539	-18.925	74.096	1.00	54.45	O
ATOM	18604	N	ASN	D	162	-23.498	-19.543	72.142	1.00	53.68	N
ATOM	18605	CA	ASN	D	162	-22.518	-18.869	71.288	1.00	52.60	C
ATOM	18607	CB	ASN	D	162	-22.308	-19.636	69.985	1.00	51.64	C
ATOM	18610	CG	ASN	D	162	-21.893	-21.064	70.207	1.00	47.38	C
ATOM	18611	OD1	ASN	D	162	-22.541	-21.978	69.722	1.00	39.51	O
ATOM	18612	ND2	ASN	D	162	-20.808	-21.266	70.947	1.00	53.72	N
ATOM	18615	C	ASN	D	162	-22.954	-17.479	70.910	1.00	51.70	C

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ATOM	18616	O	ASN	D	162	-24.099	-17.280	70.564	1.00	46.95	O
ATOM	18618	N	ILE	D	163	-22.021	-16.534	70.985	1.00	55.12	N
ATOM	18619	CA	ILE	D	163	-22.137	-15.217	70.362	1.00	54.68	C
ATOM	18621	CB	ILE	D	163	-21.825	-14.094	71.388	1.00	54.18	C
ATOM	18623	CG1	ILE	D	163	-22.932	-13.983	72.426	1.00	56.53	C
ATOM	18626	CD1	ILE	D	163	-22.601	-13.031	73.582	1.00	57.98	C
ATOM	18630	CG2	ILE	D	163	-21.678	-12.736	70.714	1.00	57.91	C
ATOM	18634	C	ILE	D	163	-21.090	-15.193	69.246	1.00	54.27	C
ATOM	18635	O	ILE	D	163	-19.995	-15.728	69.422	1.00	55.73	O
ATOM	18637	N	GLN	D	164	-21.386	-14.571	68.113	1.00	53.58	N
ATOM	18638	CA	GLN	D	164	-20.374	-14.477	67.060	1.00	55.90	C
ATOM	18640	CB	GLN	D	164	-20.562	-15.598	66.020	1.00	56.53	C
ATOM	18643	CG	GLN	D	164	-21.976	-15.837	65.517	1.00	57.92	C
ATOM	18646	CD	GLN	D	164	-22.156	-17.247	64.967	1.00	58.23	C
ATOM	18647	OE1	GLN	D	164	-22.159	-18.227	65.721	1.00	55.68	O
ATOM	18648	NE2	GLN	D	164	-22.309	-17.355	63.649	1.00	58.55	N
ATOM	18651	C	GLN	D	164	-20.224	-13.087	66.401	1.00	55.64	C
ATOM	18652	O	GLN	D	164	-21.046	-12.207	66.591	1.00	55.44	O
ATOM	18654	N	GLY	D	165	-19.127	-12.910	65.664	1.00	56.69	N
ATOM	18655	CA	GLY	D	165	-18.803	-11.644	64.996	1.00	55.85	C
ATOM	18658	C	GLY	D	165	-17.638	-11.740	64.008	1.00	55.76	C
ATOM	18659	O	GLY	D	165	-17.093	-12.828	63.751	1.00	55.67	O
ATOM	18661	N	GLY	D	166	-17.262	-10.594	63.451	1.00	53.91	N
ATOM	18662	CA	GLY	D	166	-16.180	-10.524	62.475	1.00	54.74	C
ATOM	18665	C	GLY	D	166	-14.819	-10.374	63.137	1.00	54.81	C
ATOM	18666	O	GLY	D	166	-14.302	-11.332	63.708	1.00	52.62	O
ATOM	18668	N	LYS	D	167	-14.241	-9.173	63.034	1.00	54.46	N
ATOM	18669	CA	LYS	D	167	-13.034	-8.778	63.785	1.00	53.64	C
ATOM	18671	CB	LYS	D	167	-12.273	-7.697	63.027	1.00	52.66	C
ATOM	18674	CG	LYS	D	167	-11.428	-8.210	61.912	1.00	52.86	C
ATOM	18677	CD	LYS	D	167	-10.998	-7.067	61.034	1.00	53.75	C
ATOM	18680	CE	LYS	D	167	-9.838	-7.468	60.147	1.00	57.67	C
ATOM	18683	NZ	LYS	D	167	-9.606	-6.442	59.094	1.00	59.20	N
ATOM	18687	C	LYS	D	167	-13.386	-8.218	65.162	1.00	54.15	C
ATOM	18688	O	LYS	D	167	-12.541	-7.660	65.858	1.00	55.19	O
ATOM	18690	N	THR	D	168	-14.636	-8.383	65.561	1.00	54.22	N
ATOM	18691	CA	THR	D	168	-15.181	-7.681	66.704	1.00	52.82	C
ATOM	18693	CB	THR	D	168	-15.570	-6.232	66.283	1.00	51.78	C
ATOM	18695	OG1	THR	D	168	-14.506	-5.346	66.634	1.00	46.88	O
ATOM	18697	CG2	THR	D	168	-16.886	-5.737	66.921	1.00	50.02	C
ATOM	18701	C	THR	D	168	-16.386	-8.484	67.123	1.00	53.97	C
ATOM	18702	O	THR	D	168	-17.118	-8.984	66.265	1.00	55.63	O
ATOM	18704	N	LEU	D	169	-16.581	-8.643	68.426	1.00	54.93	N
ATOM	18705	CA	LEU	D	169	-17.872	-9.099	68.932	1.00	55.16	C
ATOM	18707	CB	LEU	D	169	-17.999	-10.636	68.888	1.00	56.29	C
ATOM	18710	CG	LEU	D	169	-17.258	-11.596	69.818	1.00	52.07	C
ATOM	18712	CD1	LEU	D	169	-17.574	-11.393	71.281	1.00	57.77	C
ATOM	18716	CD2	LEU	D	169	-17.651	-12.996	69.441	1.00	55.73	C
ATOM	18720	C	LEU	D	169	-18.126	-8.549	70.321	1.00	54.29	C
ATOM	18721	O	LEU	D	169	-17.196	-8.376	71.096	1.00	53.23	O
ATOM	18723	N	SER	D	170	-19.391	-8.269	70.618	1.00	55.77	N
ATOM	18724	CA	SER	D	170	-19.785	-7.758	71.931	1.00	57.83	C
ATOM	18726	CB	SER	D	170	-20.657	-6.500	71.783	1.00	58.00	C
ATOM	18729	OG	SER	D	170	-21.101	-6.046	73.058	1.00	59.15	O
ATOM	18731	C	SER	D	170	-20.526	-8.802	72.782	1.00	57.44	C
ATOM	18732	O	SER	D	170	-21.492	-9.430	72.339	1.00	56.56	O
ATOM	18734	N	VAL	D	171	-20.060	-8.975	74.012	1.00	57.99	N
ATOM	18735	CA	VAL	D	171	-20.802	-9.722	75.016	1.00	57.84	C
ATOM	18737	CB	VAL	D	171	-19.858	-10.498	75.993	1.00	58.86	C
ATOM	18739	CG1	VAL	D	171	-20.653	-11.499	76.791	1.00	60.80	C
ATOM	18743	CG2	VAL	D	171	-18.706	-11.199	75.247	1.00	57.33	C
ATOM	18747	C	VAL	D	171	-21.577	-8.645	75.767	1.00	56.77	C
ATOM	18748	O	VAL	D	171	-20.987	-7.864	76.507	1.00	55.92	O

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ATOM	18750	N	SER	D	172	-22.890	-8.595	75.572	1.00	56.82	N
ATOM	18751	CA	SER	D	172	-23.690	-7.482	76.072	1.00	56.26	C
ATOM	18753	CB	SER	D	172	-24.436	-6.838	74.912	1.00	57.11	C
ATOM	18756	OG	SER	D	172	-25.679	-7.482	74.702	1.00	56.59	O
ATOM	18758	C	SER	D	172	-24.695	-7.874	77.148	1.00	55.50	C
ATOM	18759	O	SER	D	172	-25.156	-9.005	77.188	1.00	55.73	O
ATOM	18761	N	GLN	D	173	-25.060	-6.901	77.984	1.00	56.13	N
ATOM	18762	CA	GLN	D	173	-25.981	-7.108	79.106	1.00	55.53	C
ATOM	18764	CB	GLN	D	173	-27.444	-7.202	78.630	1.00	57.06	C
ATOM	18767	CG	GLN	D	173	-28.321	-5.996	79.001	1.00	60.28	C
ATOM	18770	CD	GLN	D	173	-28.110	-4.790	78.103	1.00	64.40	C
ATOM	18771	OE1	GLN	D	173	-28.261	-3.644	78.536	1.00	65.46	O
ATOM	18772	NE2	GLN	D	173	-27.767	-5.040	76.846	1.00	64.55	N
ATOM	18775	C	GLN	D	173	-25.581	-8.346	79.891	1.00	54.22	C
ATOM	18776	O	GLN	D	173	-26.398	-9.218	80.162	1.00	55.87	O
ATOM	18778	N	LEU	D	174	-24.310	-8.410	80.259	1.00	52.91	N
ATOM	18779	CA	LEU	D	174	-23.783	-9.560	80.979	1.00	51.93	C
ATOM	18781	CB	LEU	D	174	-22.326	-9.320	81.362	1.00	50.97	C
ATOM	18784	CG	LEU	D	174	-21.354	-9.712	80.254	1.00	46.31	C
ATOM	18786	CD1	LEU	D	174	-20.065	-8.945	80.373	1.00	49.23	C
ATOM	18790	CD2	LEU	D	174	-21.096	-11.210	80.299	1.00	43.88	C
ATOM	18794	C	LEU	D	174	-24.592	-9.907	82.224	1.00	51.33	C
ATOM	18795	O	LEU	D	174	-24.772	-9.068	83.105	1.00	51.12	O
ATOM	18797	N	GLU	D	175	-25.070	-11.153	82.269	1.00	51.60	N
ATOM	18798	CA	GLU	D	175	-25.774	-11.722	83.425	1.00	50.66	C
ATOM	18800	CB	GLU	D	175	-26.857	-12.668	82.939	1.00	50.66	C
ATOM	18803	CG	GLU	D	175	-27.846	-12.049	81.972	1.00	51.22	C
ATOM	18806	CD	GLU	D	175	-28.754	-13.087	81.336	1.00	51.50	C
ATOM	18807	OE1	GLU	D	175	-29.535	-12.724	80.442	1.00	62.90	O
ATOM	18808	OE2	GLU	D	175	-28.679	-14.272	81.710	1.00	53.40	O
ATOM	18809	C	GLU	D	175	-24.824	-12.509	84.332	1.00	49.28	C
ATOM	18810	O	GLU	D	175	-23.757	-12.939	83.901	1.00	49.68	O
ATOM	18812	N	LEU	D	176	-25.231	-12.718	85.580	1.00	49.05	N
ATOM	18813	CA	LEU	D	176	-24.399	-13.426	86.570	1.00	49.29	C
ATOM	18815	CB	LEU	D	176	-24.979	-13.255	87.977	1.00	47.46	C
ATOM	18818	CG	LEU	D	176	-24.242	-13.947	89.124	1.00	48.17	C
ATOM	18820	CD1	LEU	D	176	-22.794	-13.504	89.185	1.00	50.38	C
ATOM	18824	CD2	LEU	D	176	-24.944	-13.680	90.454	1.00	49.98	C
ATOM	18828	C	LEU	D	176	-24.252	-14.918	86.243	1.00	49.36	C
ATOM	18829	O	LEU	D	176	-23.218	-15.530	86.531	1.00	48.38	O
ATOM	18831	N	GLN	D	177	-25.286	-15.495	85.637	1.00	49.89	N
ATOM	18832	CA	GLN	D	177	-25.223	-16.873	85.168	1.00	50.51	C
ATOM	18834	CB	GLN	D	177	-26.621	-17.376	84.774	1.00	50.29	C
ATOM	18837	CG	GLN	D	177	-27.297	-16.643	83.600	1.00	52.73	C
ATOM	18840	CD	GLN	D	177	-28.427	-17.463	82.946	1.00	53.51	C
ATOM	18841	OE1	GLN	D	177	-28.711	-17.296	81.754	1.00	44.77	O
ATOM	18842	NE2	GLN	D	177	-29.056	-18.368	83.720	1.00	53.31	N
ATOM	18845	C	GLN	D	177	-24.226	-17.095	84.011	1.00	51.74	C
ATOM	18846	O	GLN	D	177	-24.220	-18.162	83.411	1.00	54.21	O
ATOM	18848	N	ASP	D	178	-23.398	-16.098	83.699	1.00	51.17	N
ATOM	18849	CA	ASP	D	178	-22.345	-16.230	82.691	1.00	49.75	C
ATOM	18851	CB	ASP	D	178	-22.690	-15.383	81.470	1.00	49.64	C
ATOM	18854	CG	ASP	D	178	-23.642	-16.069	80.549	1.00	48.02	C
ATOM	18855	OD1	ASP	D	178	-23.647	-17.320	80.521	1.00	42.77	O
ATOM	18856	OD2	ASP	D	178	-24.372	-15.344	79.846	1.00	48.01	O
ATOM	18857	C	ASP	D	178	-20.966	-15.804	83.182	1.00	50.41	C
ATOM	18858	O	ASP	D	178	-20.039	-15.671	82.371	1.00	50.02	O
ATOM	18860	N	SER	D	179	-20.824	-15.573	84.486	1.00	48.29	N
ATOM	18861	CA	SER	D	179	-19.514	-15.338	85.058	1.00	46.97	C
ATOM	18863	CB	SER	D	179	-19.610	-15.039	86.562	1.00	48.08	C
ATOM	18866	OG	SER	D	179	-18.618	-14.113	86.975	1.00	46.52	O
ATOM	18868	C	SER	D	179	-18.773	-16.636	84.805	1.00	45.33	C
ATOM	18869	O	SER	D	179	-19.289	-17.696	85.103	1.00	44.47	O

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ATOM	18871	N	GLY	D	180	-17.601	-16.563	84.197	1.00	45.37	N
ATOM	18872	CA	GLY	D	180	-16.788	-17.751	84.000	1.00	46.81	C
ATOM	18875	C	GLY	D	180	-15.836	-17.664	82.831	1.00	47.08	C
ATOM	18876	O	GLY	D	180	-15.576	-16.591	82.298	1.00	43.84	O
ATOM	18878	N	THR	D	181	-15.318	-18.823	82.440	1.00	49.78	N
ATOM	18879	CA	THR	D	181	-14.489	-18.922	81.258	1.00	50.28	C
ATOM	18881	CB	THR	D	181	-13.657	-20.206	81.265	1.00	50.54	C
ATOM	18883	OG1	THR	D	181	-12.930	-20.290	82.494	1.00	53.85	O
ATOM	18885	CG2	THR	D	181	-12.676	-20.217	80.089	1.00	50.79	C
ATOM	18889	C	THR	D	181	-15.359	-18.927	80.013	1.00	50.94	C
ATOM	18890	O	THR	D	181	-16.294	-19.720	79.904	1.00	51.44	O
ATOM	18892	N	TRP	D	182	-15.047	-18.025	79.088	1.00	51.77	N
ATOM	18893	CA	TRP	D	182	-15.644	-18.023	77.762	1.00	50.98	C
ATOM	18895	CB	TRP	D	182	-16.042	-16.615	77.338	1.00	50.58	C
ATOM	18898	CG	TRP	D	182	-17.226	-16.064	78.063	1.00	50.41	C
ATOM	18899	CD1	TRP	D	182	-17.333	-15.856	79.396	1.00	51.75	C
ATOM	18901	NE1	TRP	D	182	-18.562	-15.327	79.694	1.00	53.78	N
ATOM	18903	CE2	TRP	D	182	-19.272	-15.170	78.537	1.00	47.89	C
ATOM	18904	CD2	TRP	D	182	-18.458	-15.619	77.484	1.00	48.06	C
ATOM	18905	CE3	TRP	D	182	-18.959	-15.579	76.176	1.00	50.74	C
ATOM	18907	CZ3	TRP	D	182	-20.234	-15.085	75.968	1.00	50.92	C
ATOM	18909	CH2	TRP	D	182	-21.020	-14.638	77.046	1.00	51.67	C
ATOM	18911	CZ2	TRP	D	182	-20.555	-14.669	78.333	1.00	49.51	C
ATOM	18913	C	TRP	D	182	-14.614	-18.563	76.798	1.00	50.96	C
ATOM	18914	O	TRP	D	182	-13.423	-18.292	76.952	1.00	51.34	O
ATOM	18916	N	THR	D	183	-15.084	-19.326	75.811	1.00	51.16	N
ATOM	18917	CA	THR	D	183	-14.224	-19.966	74.828	1.00	51.23	C
ATOM	18919	CB	THR	D	183	-14.473	-21.474	74.759	1.00	49.60	C
ATOM	18921	OG1	THR	D	183	-14.146	-22.052	76.022	1.00	51.62	O
ATOM	18923	CG2	THR	D	183	-13.616	-22.127	73.681	1.00	49.58	C
ATOM	18927	C	THR	D	183	-14.467	-19.367	73.463	1.00	51.31	C
ATOM	18928	O	THR	D	183	-15.477	-19.642	72.821	1.00	51.31	O
ATOM	18930	N	CYS	D	184	-13.520	-18.554	73.022	1.00	52.73	N
ATOM	18931	CA	CYS	D	184	-13.556	-18.012	71.683	1.00	54.51	C
ATOM	18933	CB	CYS	D	184	-13.089	-16.568	71.701	1.00	54.89	C
ATOM	18936	SG	CYS	D	184	-14.059	-15.677	72.890	1.00	61.88	S
ATOM	18938	C	CYS	D	184	-12.747	-18.851	70.696	1.00	54.85	C
ATOM	18939	O	CYS	D	184	-11.627	-19.284	70.973	1.00	54.27	O
ATOM	18941	N	THR	D	185	-13.361	-19.080	69.541	1.00	55.56	N
ATOM	18942	CA	THR	D	185	-12.731	-19.745	68.418	1.00	55.00	C
ATOM	18944	CB	THR	D	185	-13.581	-20.936	67.996	1.00	54.27	C
ATOM	18946	OG1	THR	D	185	-13.714	-21.824	69.111	1.00	52.72	O
ATOM	18948	CG2	THR	D	185	-12.957	-21.661	66.827	1.00	54.50	C
ATOM	18952	C	THR	D	185	-12.624	-18.737	67.274	1.00	54.26	C
ATOM	18953	O	THR	D	185	-13.630	-18.164	66.863	1.00	54.65	O
ATOM	18955	N	VAL	D	186	-11.403	-18.511	66.790	1.00	54.25	N
ATOM	18956	CA	VAL	D	186	-11.143	-17.616	65.656	1.00	54.15	C
ATOM	18958	CB	VAL	D	186	-9.885	-16.759	65.880	1.00	53.88	C
ATOM	18960	CG1	VAL	D	186	-9.613	-15.890	64.659	1.00	54.27	C
ATOM	18964	CG2	VAL	D	186	-10.032	-15.904	67.135	1.00	54.96	C
ATOM	18968	C	VAL	D	186	-10.934	-18.435	64.388	1.00	53.99	C
ATOM	18969	O	VAL	D	186	-10.098	-19.339	64.357	1.00	58.08	O
ATOM	18971	N	LEU	D	187	-11.668	-18.090	63.340	1.00	52.20	N
ATOM	18972	CA	LEU	D	187	-11.724	-18.886	62.121	1.00	52.50	C
ATOM	18974	CB	LEU	D	187	-13.188	-19.191	61.782	1.00	53.49	C
ATOM	18977	CG	LEU	D	187	-13.543	-20.514	61.106	1.00	50.97	C
ATOM	18979	CD1	LEU	D	187	-15.009	-20.458	60.738	1.00	52.54	C
ATOM	18983	CD2	LEU	D	187	-12.701	-20.774	59.889	1.00	50.31	C
ATOM	18987	C	LEU	D	187	-11.095	-18.114	60.972	1.00	51.90	C
ATOM	18988	O	LEU	D	187	-11.479	-16.970	60.713	1.00	51.92	O
ATOM	18990	N	GLN	D	188	-10.135	-18.753	60.301	1.00	51.71	N
ATOM	18991	CA	GLN	D	188	-9.542	-18.260	59.056	1.00	51.97	C
ATOM	18993	CB	GLN	D	188	-8.104	-17.776	59.290	1.00	51.88	C

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ATOM	18996	CG	GLN	D	188	-7.305	-17.428	58.032	1.00	51.87	C
ATOM	18999	CD	GLN	D	188	-7.774	-16.159	57.340	1.00	52.45	C
ATOM	19000	OE1	GLN	D	188	-7.811	-15.086	57.939	1.00	49.99	O
ATOM	19001	NE2	GLN	D	188	-8.109	-16.274	56.060	1.00	51.18	N
ATOM	19004	C	GLN	D	188	-9.580	-19.408	58.049	1.00	51.58	C
ATOM	19005	O	GLN	D	188	-8.986	-20.464	58.271	1.00	51.04	O
ATOM	19007	N	ASN	D	189	-10.275	-19.173	56.942	1.00	52.77	N
ATOM	19008	CA	ASN	D	189	-10.585	-20.195	55.943	1.00	52.62	C
ATOM	19010	CB	ASN	D	189	-9.323	-20.728	55.258	1.00	53.17	C
ATOM	19013	CG	ASN	D	189	-8.532	-19.638	54.566	1.00	52.86	C
ATOM	19014	OD1	ASN	D	189	-9.057	-18.569	54.258	1.00	43.61	O
ATOM	19015	ND2	ASN	D	189	-7.249	-19.903	54.326	1.00	61.59	N
ATOM	19018	C	ASN	D	189	-11.413	-21.280	56.598	1.00	52.19	C
ATOM	19019	O	ASN	D	189	-12.591	-21.048	56.875	1.00	55.59	O
ATOM	19021	N	GLN	D	190	-10.822	-22.446	56.836	1.00	50.92	N
ATOM	19022	CA	GLN	D	190	-11.444	-23.471	57.669	1.00	52.44	C
ATOM	19024	CB	GLN	D	190	-11.651	-24.767	56.883	1.00	53.07	C
ATOM	19027	CG	GLN	D	190	-10.454	-25.730	56.849	1.00	53.28	C
ATOM	19030	CD	GLN	D	190	-9.400	-25.349	55.829	1.00	56.43	C
ATOM	19031	OE1	GLN	D	190	-9.136	-24.168	55.595	1.00	61.17	O
ATOM	19032	NE2	GLN	D	190	-8.786	-26.353	55.217	1.00	59.00	N
ATOM	19035	C	GLN	D	190	-10.619	-23.768	58.907	1.00	52.71	C
ATOM	19036	O	GLN	D	190	-11.057	-24.509	59.769	1.00	53.18	O
ATOM	19038	N	LYS	D	191	-9.416	-23.215	58.975	1.00	53.72	N
ATOM	19039	CA	LYS	D	191	-8.512	-23.477	60.083	1.00	54.18	C
ATOM	19041	CB	LYS	D	191	-7.066	-23.170	59.657	1.00	55.20	C
ATOM	19044	CG	LYS	D	191	-6.186	-24.396	59.362	1.00	57.49	C
ATOM	19047	CD	LYS	D	191	-6.532	-25.122	58.058	1.00	56.87	C
ATOM	19050	CE	LYS	D	191	-5.260	-25.485	57.235	1.00	57.44	C
ATOM	19053	NZ	LYS	D	191	-4.248	-26.381	57.913	1.00	55.07	N
ATOM	19057	C	LYS	D	191	-8.926	-22.639	61.306	1.00	53.32	C
ATOM	19058	O	LYS	D	191	-9.389	-21.514	61.151	1.00	53.16	O
ATOM	19060	N	LYS	D	192	-8.751	-23.186	62.511	1.00	52.86	N
ATOM	19061	CA	LYS	D	192	-9.222	-22.530	63.739	1.00	53.91	C
ATOM	19063	CB	LYS	D	192	-10.485	-23.231	64.289	1.00	54.14	C
ATOM	19066	CG	LYS	D	192	-11.578	-23.484	63.243	1.00	56.41	C
ATOM	19069	CD	LYS	D	192	-12.966	-23.785	63.836	1.00	55.44	C
ATOM	19072	CE	LYS	D	192	-13.208	-25.259	64.121	1.00	57.49	C
ATOM	19075	NZ	LYS	D	192	-14.683	-25.573	64.184	1.00	54.24	N
ATOM	19079	C	LYS	D	192	-8.155	-22.468	64.836	1.00	53.61	C
ATOM	19080	O	LYS	D	192	-7.221	-23.275	64.865	1.00	53.61	O
ATOM	19082	N	VAL	D	193	-8.314	-21.500	65.739	1.00	53.25	N
ATOM	19083	CA	VAL	D	193	-7.480	-21.391	66.932	1.00	52.90	C
ATOM	19085	CB	VAL	D	193	-6.271	-20.508	66.646	1.00	51.67	C
ATOM	19087	CG1	VAL	D	193	-6.695	-19.172	66.048	1.00	56.14	C
ATOM	19091	CG2	VAL	D	193	-5.466	-20.312	67.888	1.00	52.21	C
ATOM	19095	C	VAL	D	193	-8.295	-20.876	68.145	1.00	53.74	C
ATOM	19096	O	VAL	D	193	-9.103	-19.961	68.009	1.00	53.84	O
ATOM	19098	N	GLU	D	194	-8.089	-21.481	69.318	1.00	54.42	N
ATOM	19099	CA	GLU	D	194	-8.884	-21.165	70.516	1.00	54.34	C
ATOM	19101	CB	GLU	D	194	-9.088	-22.400	71.392	1.00	54.97	C
ATOM	19104	CG	GLU	D	194	-10.533	-22.866	71.489	1.00	58.46	C
ATOM	19107	CD	GLU	D	194	-10.708	-24.031	72.459	1.00	59.84	C
ATOM	19108	OE1	GLU	D	194	-9.897	-24.159	73.408	1.00	64.41	O
ATOM	19109	OE2	GLU	D	194	-11.664	-24.818	72.273	1.00	65.48	O
ATOM	19110	C	GLU	D	194	-8.285	-20.090	71.401	1.00	53.11	C
ATOM	19111	O	GLU	D	194	-7.075	-19.979	71.545	1.00	49.11	O
ATOM	19113	N	PHE	D	195	-9.178	-19.318	72.009	1.00	55.14	N
ATOM	19114	CA	PHE	D	195	-8.841	-18.333	73.024	1.00	54.95	C
ATOM	19116	CB	PHE	D	195	-9.022	-16.912	72.479	1.00	53.77	C
ATOM	19119	CG	PHE	D	195	-7.913	-16.471	71.567	1.00	52.09	C
ATOM	19120	CD1	PHE	D	195	-6.778	-15.867	72.077	1.00	49.99	C
ATOM	19122	CE1	PHE	D	195	-5.742	-15.474	71.241	1.00	53.83	C

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ATOM	19124	CZ	PHE	D	195	-5.842	-15.673	69.880	1.00	54.06	C
ATOM	19126	CE2	PHE	D	195	-6.972	-16.277	69.359	1.00	56.31	C
ATOM	19128	CD2	PHE	D	195	-7.998	-16.675	70.202	1.00	52.62	C
ATOM	19130	C	PHE	D	195	-9.775	-18.567	74.195	1.00	56.67	C
ATOM	19131	O	PHE	D	195	-10.992	-18.571	74.013	1.00	60.11	O
ATOM	19133	N	LYS	D	196	-9.222	-18.790	75.386	1.00	56.89	N
ATOM	19134	CA	LYS	D	196	-10.038	-18.836	76.594	1.00	55.67	C
ATOM	19136	CB	LYS	D	196	-9.568	-19.948	77.514	1.00	56.02	C
ATOM	19139	CG	LYS	D	196	-9.764	-21.320	76.892	1.00	57.44	C
ATOM	19142	CD	LYS	D	196	-10.317	-22.332	77.867	1.00	55.86	C
ATOM	19145	CE	LYS	D	196	-10.967	-23.483	77.118	1.00	60.28	C
ATOM	19148	NZ	LYS	D	196	-11.462	-24.566	78.016	1.00	64.78	N
ATOM	19152	C	LYS	D	196	-9.954	-17.493	77.278	1.00	54.92	C
ATOM	19153	O	LYS	D	196	-8.906	-16.861	77.251	1.00	55.80	O
ATOM	19155	N	ILE	D	197	-11.066	-17.036	77.847	1.00	55.38	N
ATOM	19156	CA	ILE	D	197	-11.101	-15.771	78.593	1.00	56.16	C
ATOM	19158	CB	ILE	D	197	-11.613	-14.609	77.738	1.00	55.35	C
ATOM	19160	CG1	ILE	D	197	-10.706	-14.353	76.543	1.00	56.60	C
ATOM	19163	CD1	ILE	D	197	-11.281	-13.324	75.585	1.00	59.10	C
ATOM	19167	CG2	ILE	D	197	-11.698	-13.339	78.578	1.00	57.87	C
ATOM	19171	C	ILE	D	197	-12.043	-15.837	79.790	1.00	56.32	C
ATOM	19172	O	ILE	D	197	-13.218	-16.151	79.634	1.00	58.26	O
ATOM	19174	N	ASP	D	198	-11.541	-15.487	80.969	1.00	56.33	N
ATOM	19175	CA	ASP	D	198	-12.382	-15.371	82.158	1.00	56.33	C
ATOM	19177	CB	ASP	D	198	-11.550	-15.677	83.400	1.00	55.36	C
ATOM	19180	CG	ASP	D	198	-11.030	-17.106	83.402	1.00	60.37	C
ATOM	19181	OD1	ASP	D	198	-11.799	-18.020	83.025	1.00	58.17	O
ATOM	19182	OD2	ASP	D	198	-9.852	-17.322	83.769	1.00	69.19	O
ATOM	19183	C	ASP	D	198	-13.075	-13.995	82.254	1.00	55.23	C
ATOM	19184	O	ASP	D	198	-12.421	-12.956	82.331	1.00	54.15	O
ATOM	19186	N	ILE	D	199	-14.405	-14.003	82.206	1.00	56.57	N
ATOM	19187	CA	ILE	D	199	-15.201	-12.797	82.397	1.00	57.69	C
ATOM	19189	CB	ILE	D	199	-16.273	-12.590	81.301	1.00	60.29	C
ATOM	19191	CG1	ILE	D	199	-15.626	-12.451	79.917	1.00	61.74	C
ATOM	19194	CD1	ILE	D	199	-16.630	-12.390	78.780	1.00	60.16	C
ATOM	19198	CG2	ILE	D	199	-17.113	-11.329	81.614	1.00	59.93	C
ATOM	19202	C	ILE	D	199	-15.915	-12.897	83.727	1.00	57.55	C
ATOM	19203	O	ILE	D	199	-16.868	-13.663	83.879	1.00	56.29	O
ATOM	19205	N	VAL	D	200	-15.451	-12.101	84.681	1.00	57.25	N
ATOM	19206	CA	VAL	D	200	-16.000	-12.078	86.019	1.00	55.36	C
ATOM	19208	CB	VAL	D	200	-14.883	-11.799	87.032	1.00	55.51	C
ATOM	19210	CG1	VAL	D	200	-15.409	-11.884	88.468	1.00	54.19	C
ATOM	19214	CG2	VAL	D	200	-13.722	-12.773	86.798	1.00	55.91	C
ATOM	19218	C	VAL	D	200	-17.064	-10.982	86.083	1.00	54.74	C
ATOM	19219	O	VAL	D	200	-16.771	-9.811	85.834	1.00	55.37	O
ATOM	19221	N	VAL	D	201	-18.300	-11.369	86.390	1.00	53.29	N
ATOM	19222	CA	VAL	D	201	-19.396	-10.417	86.495	1.00	53.18	C
ATOM	19224	CB	VAL	D	201	-20.620	-10.767	85.569	1.00	52.12	C
ATOM	19226	CG1	VAL	D	201	-20.939	-12.205	85.598	1.00	55.63	C
ATOM	19230	CG2	VAL	D	201	-21.852	-9.967	85.951	1.00	53.67	C
ATOM	19234	C	VAL	D	201	-19.783	-10.281	87.960	1.00	53.05	C
ATOM	19235	O	VAL	D	201	-20.197	-11.246	88.606	1.00	54.54	O
ATOM	19237	N	LEU	D	202	-19.622	-9.064	88.472	1.00	53.67	N
ATOM	19238	CA	LEU	D	202	-19.914	-8.743	89.863	1.00	53.57	C
ATOM	19240	CB	LEU	D	202	-19.071	-7.558	90.329	1.00	54.33	C
ATOM	19243	CG	LEU	D	202	-17.573	-7.621	90.015	1.00	55.39	C
ATOM	19245	CD1	LEU	D	202	-16.893	-6.356	90.508	1.00	57.32	C
ATOM	19249	CD2	LEU	D	202	-16.942	-8.854	90.640	1.00	55.32	C
ATOM	19253	C	LEU	D	202	-21.378	-8.393	89.973	1.00	53.25	C
ATOM	19254	O	LEU	D	202	-21.896	-7.634	89.154	1.00	53.35	O
ATOM	19256	N	ALA	D	203	-22.044	-8.941	90.983	1.00	53.14	N
ATOM	19257	CA	ALA	D	203	-23.487	-8.803	91.100	1.00	51.68	C
ATOM	19259	CB	ALA	D	203	-24.159	-9.716	90.112	1.00	51.77	C

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ATOM	19263	C	ALA	D	203	-23.964	-9.145	92.482	1.00	50.63	C
ATOM	19264	O	ALA	D	203	-23.250	-9.776	93.252	1.00	50.94	O
ATOM	19266	N	PHE	D	204	-25.180	-8.715	92.790	1.00	51.21	N
ATOM	19267	CA	PHE	D	204	-25.920	-9.279	93.907	1.00	52.04	C
ATOM	19269	CB	PHE	D	204	-27.061	-8.350	94.333	1.00	51.17	C
ATOM	19272	CG	PHE	D	204	-26.613	-7.128	95.115	1.00	53.91	C
ATOM	19273	CD1	PHE	D	204	-26.036	-7.260	96.380	1.00	54.70	C
ATOM	19275	CE1	PHE	D	204	-25.637	-6.135	97.110	1.00	50.70	C
ATOM	19277	CZ	PHE	D	204	-25.833	-4.867	96.585	1.00	52.31	C
ATOM	19279	CE2	PHE	D	204	-26.422	-4.718	95.327	1.00	50.85	C
ATOM	19281	CD2	PHE	D	204	-26.812	-5.841	94.608	1.00	53.80	C
ATOM	19283	C	PHE	D	204	-26.470	-10.659	93.479	1.00	52.33	C
ATOM	19284	O	PHE	D	204	-26.861	-10.855	92.319	1.00	50.22	O
ATOM	19286	N	GLN	D	205	-26.499	-11.617	94.407	1.00	53.43	N
ATOM	19287	CA	GLN	D	205	-27.111	-12.924	94.120	1.00	54.28	C
ATOM	19289	CB	GLN	D	205	-27.053	-13.857	95.335	1.00	53.60	C
ATOM	19292	CG	GLN	D	205	-25.652	-14.326	95.670	1.00	53.48	C
ATOM	19295	CD	GLN	D	205	-25.592	-15.311	96.816	1.00	49.76	C
ATOM	19296	OE1	GLN	D	205	-26.521	-16.081	97.059	1.00	40.19	O
ATOM	19297	NE2	GLN	D	205	-24.479	-15.297	97.520	1.00	42.54	N
ATOM	19300	C	GLN	D	205	-28.561	-12.740	93.707	1.00	56.68	C
ATOM	19301	O	GLN	D	205	-29.081	-13.513	92.898	1.00	57.95	O
ATOM	19303	N	LYS	D	206	-29.186	-11.700	94.266	1.00	58.26	N
ATOM	19304	CA	LYS	D	206	-30.613	-11.461	94.154	1.00	58.72	C
ATOM	19306	CB	LYS	D	206	-31.237	-11.589	95.545	1.00	59.92	C
ATOM	19309	CG	LYS	D	206	-32.640	-12.164	95.539	1.00	64.22	C
ATOM	19312	CD	LYS	D	206	-32.661	-13.680	95.295	1.00	62.70	C
ATOM	19315	CE	LYS	D	206	-34.081	-14.153	95.008	1.00	62.49	C
ATOM	19318	NZ	LYS	D	206	-34.322	-15.524	95.512	1.00	64.99	N
ATOM	19322	C	LYS	D	206	-30.927	-10.081	93.556	1.00	59.53	C
ATOM	19323	O	LYS	D	206	-30.213	-9.105	93.797	1.00	60.41	O
ATOM	19325	N	ALA	D	207	-32.010	-10.014	92.787	1.00	58.87	N
ATOM	19326	CA	ALA	D	207	-32.402	-8.796	92.081	1.00	58.07	C
ATOM	19328	CB	ALA	D	207	-33.087	-9.165	90.786	1.00	58.28	C
ATOM	19332	C	ALA	D	207	-33.324	-7.911	92.919	1.00	57.62	C
ATOM	19333	O	ALA	D	207	-33.273	-6.683	92.831	1.00	56.63	O
ATOM	19335	N	SER	D	208	-34.176	-8.544	93.719	1.00	57.90	N
ATOM	19336	CA	SER	D	208	-35.167	-7.834	94.517	1.00	57.38	C
ATOM	19338	CB	SER	D	208	-36.352	-7.428	93.639	1.00	58.01	C
ATOM	19341	OG	SER	D	208	-37.377	-6.819	94.408	1.00	61.64	O
ATOM	19343	C	SER	D	208	-35.666	-8.721	95.647	1.00	57.23	C
ATOM	19344	O	SER	D	208	-35.524	-9.945	95.597	1.00	56.70	O
ATOM	19346	N	SER	D	209	-36.260	-8.094	96.661	1.00	56.62	N
ATOM	19347	CA	SER	D	209	-36.893	-8.826	97.751	1.00	55.04	C
ATOM	19349	CB	SER	D	209	-35.844	-9.312	98.746	1.00	54.48	C
ATOM	19352	OG	SER	D	209	-35.068	-8.233	99.226	1.00	52.23	O
ATOM	19354	C	SER	D	209	-37.939	-7.976	98.460	1.00	55.00	C
ATOM	19355	O	SER	D	209	-37.902	-6.745	98.404	1.00	56.00	O
ATOM	19357	N	ILE	D	210	-38.862	-8.660	99.134	1.00	54.81	N
ATOM	19358	CA	ILE	D	210	-40.025	-8.042	99.785	1.00	52.89	C
ATOM	19360	CB	ILE	D	210	-41.270	-8.012	98.829	1.00	52.32	C
ATOM	19362	CG1	ILE	D	210	-42.583	-7.896	99.618	1.00	47.17	C
ATOM	19365	CD1	ILE	D	210	-43.756	-7.465	98.781	1.00	48.25	C
ATOM	19369	CG2	ILE	D	210	-41.289	-9.245	97.913	1.00	53.11	C
ATOM	19373	C	ILE	D	210	-40.335	-8.805	101.074	1.00	53.18	C
ATOM	19374	O	ILE	D	210	-40.351	-10.039	101.085	1.00	52.55	O
ATOM	19376	N	VAL	D	211	-40.586	-8.063	102.152	1.00	53.22	N
ATOM	19377	CA	VAL	D	211	-40.730	-8.646	103.489	1.00	52.62	C
ATOM	19379	CB	VAL	D	211	-39.474	-8.323	104.352	1.00	53.09	C
ATOM	19381	CG1	VAL	D	211	-39.696	-8.653	105.830	1.00	53.12	C
ATOM	19385	CG2	VAL	D	211	-38.247	-9.067	103.814	1.00	50.71	C
ATOM	19389	C	VAL	D	211	-42.005	-8.155	104.184	1.00	52.33	C
ATOM	19390	O	VAL	D	211	-42.456	-7.028	103.960	1.00	51.82	O

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ATOM	19392	N	TYR	D	212	-42.571	-9.025	105.023	1.00	52.90	N
ATOM	19393	CA	TYR	D	212	-43.779	-8.738	105.815	1.00	51.43	C
ATOM	19395	CB	TYR	D	212	-44.965	-9.565	105.297	1.00	49.88	C
ATOM	19398	CG	TYR	D	212	-45.073	-9.663	103.774	1.00	48.56	C
ATOM	19399	CD1	TYR	D	212	-45.818	-8.735	103.051	1.00	46.68	C
ATOM	19401	CE1	TYR	D	212	-45.934	-8.819	101.663	1.00	47.38	C
ATOM	19403	CZ	TYR	D	212	-45.302	-9.838	100.979	1.00	47.61	C
ATOM	19404	OH	TYR	D	212	-45.426	-9.896	99.611	1.00	42.73	O
ATOM	19406	CE2	TYR	D	212	-44.554	-10.782	101.673	1.00	49.03	C
ATOM	19408	CD2	TYR	D	212	-44.445	-10.692	103.068	1.00	46.32	C
ATOM	19410	C	TYR	D	212	-43.535	-9.077	107.287	1.00	50.42	C
ATOM	19411	O	TYR	D	212	-43.717	-8.238	108.175	1.00	52.05	O
ATOM	19413	N	GLU	D	220	-35.213	-7.841	109.543	1.00	59.95	N
ATOM	19414	CA	GLU	D	220	-33.879	-8.124	109.015	1.00	59.74	C
ATOM	19416	CB	GLU	D	220	-33.315	-9.397	109.647	1.00	59.82	C
ATOM	19419	CG	GLU	D	220	-32.987	-9.251	111.125	1.00	61.25	C
ATOM	19422	CD	GLU	D	220	-32.245	-10.450	111.680	1.00	60.21	C
ATOM	19423	OE1	GLU	D	220	-31.459	-10.264	112.631	1.00	60.22	O
ATOM	19424	OE2	GLU	D	220	-32.443	-11.572	111.164	1.00	60.18	O
ATOM	19425	C	GLU	D	220	-33.889	-8.289	107.503	1.00	58.67	C
ATOM	19426	O	GLU	D	220	-34.517	-9.211	106.990	1.00	57.22	O
ATOM	19428	N	PHE	D	221	-33.204	-7.387	106.799	1.00	58.96	N
ATOM	19429	CA	PHE	D	221	-32.934	-7.561	105.367	1.00	58.57	C
ATOM	19431	CB	PHE	D	221	-32.969	-6.227	104.609	1.00	58.00	C
ATOM	19434	CG	PHE	D	221	-34.318	-5.561	104.601	1.00	58.68	C
ATOM	19435	CD1	PHE	D	221	-35.425	-6.215	104.078	1.00	59.95	C
ATOM	19437	CE1	PHE	D	221	-36.672	-5.599	104.068	1.00	60.49	C
ATOM	19439	CZ	PHE	D	221	-36.816	-4.311	104.578	1.00	58.43	C
ATOM	19441	CE2	PHE	D	221	-35.720	-3.651	105.090	1.00	54.01	C
ATOM	19443	CD2	PHE	D	221	-34.481	-4.271	105.099	1.00	55.40	C
ATOM	19445	C	PHE	D	221	-31.572	-8.221	105.177	1.00	57.72	C
ATOM	19446	O	PHE	D	221	-30.665	-8.055	105.992	1.00	56.05	O
ATOM	19448	N	SER	D	222	-31.450	-8.978	104.092	1.00	58.51	N
ATOM	19449	CA	SER	D	222	-30.214	-9.666	103.745	1.00	58.79	C
ATOM	19451	CB	SER	D	222	-30.399	-11.172	103.949	1.00	59.48	C
ATOM	19454	OG	SER	D	222	-29.224	-11.894	103.631	1.00	62.22	O
ATOM	19456	C	SER	D	222	-29.879	-9.350	102.284	1.00	59.36	C
ATOM	19457	O	SER	D	222	-30.756	-9.425	101.426	1.00	61.66	O
ATOM	19459	N	PHE	D	223	-28.623	-8.984	102.008	1.00	58.05	N
ATOM	19460	CA	PHE	D	223	-28.178	-8.624	100.650	1.00	54.78	C
ATOM	19462	CB	PHE	D	223	-27.819	-7.141	100.586	1.00	53.03	C
ATOM	19465	CG	PHE	D	223	-28.917	-6.233	101.035	1.00	54.85	C
ATOM	19466	CD1	PHE	D	223	-29.821	-5.712	100.119	1.00	56.51	C
ATOM	19468	CE1	PHE	D	223	-30.838	-4.861	100.524	1.00	51.18	C
ATOM	19470	CZ	PHE	D	223	-30.959	-4.527	101.853	1.00	50.43	C
ATOM	19472	CE2	PHE	D	223	-30.060	-5.039	102.783	1.00	52.05	C
ATOM	19474	CD2	PHE	D	223	-29.047	-5.888	102.371	1.00	53.39	C
ATOM	19476	C	PHE	D	223	-26.967	-9.448	100.216	1.00	52.76	C
ATOM	19477	O	PHE	D	223	-25.878	-8.909	100.037	1.00	51.25	O
ATOM	19479	N	PRO	D	224	-27.151	-10.764	100.030	1.00	51.69	N
ATOM	19480	CA	PRO	D	224	-26.022	-11.597	99.628	1.00	51.38	C
ATOM	19482	CB	PRO	D	224	-26.621	-13.004	99.599	1.00	51.22	C
ATOM	19485	CG	PRO	D	224	-28.071	-12.789	99.378	1.00	51.52	C
ATOM	19488	CD	PRO	D	224	-28.392	-11.546	100.144	1.00	51.23	C
ATOM	19491	C	PRO	D	224	-25.527	-11.214	98.244	1.00	50.88	C
ATOM	19492	O	PRO	D	224	-26.333	-10.894	97.370	1.00	52.45	O
ATOM	19493	N	LEU	D	225	-24.217	-11.239	98.045	1.00	49.76	N
ATOM	19494	CA	LEU	D	225	-23.653	-10.877	96.750	1.00	49.29	C
ATOM	19496	CB	LEU	D	225	-22.898	-9.538	96.815	1.00	49.61	C
ATOM	19499	CG	LEU	D	225	-22.060	-9.198	98.040	1.00	50.65	C
ATOM	19501	CD1	LEU	D	225	-20.981	-10.259	98.286	1.00	52.33	C
ATOM	19505	CD2	LEU	D	225	-21.462	-7.796	97.869	1.00	49.70	C
ATOM	19509	C	LEU	D	225	-22.788	-11.994	96.201	1.00	46.53	C

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ATOM	19510	O	LEU	D	225	-22.506	-12.958	96.902	1.00	43.14	O
ATOM	19512	N	ALA	D	226	-22.401	-11.858	94.936	1.00	45.37	N
ATOM	19513	CA	ALA	D	226	-21.691	-12.909	94.229	1.00	48.01	C
ATOM	19515	CB	ALA	D	226	-21.555	-12.563	92.771	1.00	49.85	C
ATOM	19519	C	ALA	D	226	-20.327	-13.140	94.845	1.00	48.44	C
ATOM	19520	O	ALA	D	226	-19.714	-12.217	95.368	1.00	50.48	O
ATOM	19522	N	PHE	D	227	-19.856	-14.380	94.780	1.00	48.73	N
ATOM	19523	CA	PHE	D	227	-18.635	-14.778	95.481	1.00	49.94	C
ATOM	19525	CB	PHE	D	227	-18.272	-16.219	95.144	1.00	45.83	C
ATOM	19528	CG	PHE	D	227	-16.941	-16.639	95.681	1.00	45.36	C
ATOM	19529	CD1	PHE	D	227	-16.726	-16.702	97.054	1.00	38.84	C
ATOM	19531	CE1	PHE	D	227	-15.507	-17.093	97.561	1.00	38.85	C
ATOM	19533	CZ	PHE	D	227	-14.476	-17.423	96.694	1.00	40.38	C
ATOM	19535	CE2	PHE	D	227	-14.672	-17.365	95.324	1.00	40.67	C
ATOM	19537	CD2	PHE	D	227	-15.901	-16.972	94.820	1.00	41.54	C
ATOM	19539	C	PHE	D	227	-17.450	-13.881	95.146	1.00	52.47	C
ATOM	19540	O	PHE	D	227	-16.638	-13.553	96.016	1.00	53.85	O
ATOM	19542	N	THR	D	228	-17.371	-13.478	93.883	1.00	54.11	N
ATOM	19543	CA	THR	D	228	-16.200	-12.780	93.362	1.00	55.71	C
ATOM	19545	CB	THR	D	228	-16.258	-12.767	91.826	1.00	56.84	C
ATOM	19547	OG1	THR	D	228	-17.429	-12.061	91.386	1.00	60.35	O
ATOM	19549	CG2	THR	D	228	-16.313	-14.218	91.288	1.00	58.07	C
ATOM	19553	C	THR	D	228	-16.017	-11.354	93.929	1.00	56.66	C
ATOM	19554	O	THR	D	228	-14.903	-10.813	93.931	1.00	55.94	O
ATOM	19556	N	VAL	D	229	-17.103	-10.770	94.432	1.00	57.65	N
ATOM	19557	CA	VAL	D	229	-17.066	-9.433	95.028	1.00	58.31	C
ATOM	19559	CB	VAL	D	229	-18.338	-8.581	94.632	1.00	59.53	C
ATOM	19561	CG1	VAL	D	229	-19.633	-9.274	95.010	1.00	59.43	C
ATOM	19565	CG2	VAL	D	229	-18.294	-7.171	95.237	1.00	58.88	C
ATOM	19569	C	VAL	D	229	-16.863	-9.463	96.553	1.00	58.58	C
ATOM	19570	O	VAL	D	229	-16.675	-8.411	97.159	1.00	57.87	O
ATOM	19572	N	GLU	D	230	-16.872	-10.652	97.164	1.00	58.66	N
ATOM	19573	CA	GLU	D	230	-16.688	-10.780	98.623	1.00	58.69	C
ATOM	19575	CB	GLU	D	230	-16.587	-12.249	99.041	1.00	59.30	C
ATOM	19578	CG	GLU	D	230	-17.917	-12.993	99.104	1.00	59.66	C
ATOM	19581	CD	GLU	D	230	-17.836	-14.286	99.913	1.00	59.55	C
ATOM	19582	OE1	GLU	D	230	-16.879	-14.455	100.706	1.00	56.54	O
ATOM	19583	OE2	GLU	D	230	-18.741	-15.134	99.754	1.00	62.58	O
ATOM	19584	C	GLU	D	230	-15.448	-10.047	99.137	1.00	58.44	C
ATOM	19585	O	GLU	D	230	-15.510	-9.310	100.127	1.00	58.12	O
ATOM	19587	N	LYS	D	231	-14.327	-10.267	98.458	1.00	58.50	N
ATOM	19588	CA	LYS	D	231	-13.040	-9.660	98.832	1.00	58.91	C
ATOM	19590	CB	LYS	D	231	-11.896	-10.390	98.108	1.00	59.75	C
ATOM	19593	CG	LYS	D	231	-11.933	-10.283	96.568	1.00	63.26	C
ATOM	19596	CD	LYS	D	231	-11.281	-11.484	95.868	1.00	61.99	C
ATOM	19599	CE	LYS	D	231	-9.782	-11.571	96.160	1.00	63.05	C
ATOM	19602	NZ	LYS	D	231	-9.486	-12.136	97.506	1.00	59.26	N
ATOM	19606	C	LYS	D	231	-12.967	-8.147	98.552	1.00	57.11	C
ATOM	19607	O	LYS	D	231	-12.388	-7.388	99.330	1.00	56.09	O
ATOM	19609	N	LEU	D	232	-13.585	-7.734	97.447	1.00	56.22	N
ATOM	19610	CA	LEU	D	232	-13.487	-6.370	96.906	1.00	55.70	C
ATOM	19612	CB	LEU	D	232	-14.411	-6.222	95.688	1.00	54.72	C
ATOM	19615	CG	LEU	D	232	-13.782	-6.484	94.317	1.00	53.00	C
ATOM	19617	CD1	LEU	D	232	-12.892	-7.721	94.302	1.00	53.46	C
ATOM	19621	CD2	LEU	D	232	-14.865	-6.587	93.261	1.00	53.75	C
ATOM	19625	C	LEU	D	232	-13.784	-5.228	97.872	1.00	55.81	C
ATOM	19626	O	LEU	D	232	-14.479	-5.399	98.874	1.00	55.92	O
ATOM	19628	N	THR	D	233	-13.241	-4.059	97.531	1.00	55.71	N
ATOM	19629	CA	THR	D	233	-13.449	-2.830	98.283	1.00	55.68	C
ATOM	19631	CB	THR	D	233	-12.124	-2.059	98.484	1.00	55.16	C
ATOM	19633	OG1	THR	D	233	-11.240	-2.832	99.304	1.00	55.37	O
ATOM	19635	CG2	THR	D	233	-12.355	-0.708	99.150	1.00	55.13	C
ATOM	19639	C	THR	D	233	-14.461	-1.956	97.548	1.00	56.35	C

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ATOM	19640	O	THR	D	233	-14.484	-1.922	96.315	1.00	58.15	O
ATOM	19642	N	GLY	D	234	-15.299	-1.259	98.312	1.00	55.46	N
ATOM	19643	CA	GLY	D	234	-16.335	-0.403	97.742	1.00	53.89	C
ATOM	19646	C	GLY	D	234	-17.175	0.280	98.805	1.00	52.41	C
ATOM	19647	O	GLY	D	234	-16.973	0.056	100.000	1.00	51.52	O
ATOM	19649	N	SER	D	235	-18.117	1.112	98.368	1.00	50.70	N
ATOM	19650	CA	SER	D	235	-19.027	1.795	99.286	1.00	51.48	C
ATOM	19652	CB	SER	D	235	-18.413	3.125	99.755	1.00	51.85	C
ATOM	19655	OG	SER	D	235	-17.958	3.920	98.671	1.00	51.16	O
ATOM	19657	C	SER	D	235	-20.418	2.002	98.667	1.00	50.36	C
ATOM	19658	O	SER	D	235	-20.557	2.020	97.446	1.00	48.75	O
ATOM	19660	N	GLY	D	236	-21.438	2.150	99.517	1.00	50.07	N
ATOM	19661	CA	GLY	D	236	-22.830	2.221	99.055	1.00	50.59	C
ATOM	19664	C	GLY	D	236	-23.830	2.842	100.024	1.00	50.40	C
ATOM	19665	O	GLY	D	236	-23.447	3.375	101.071	1.00	48.99	O
ATOM	19667	N	GLU	D	237	-25.117	2.778	99.661	1.00	49.95	N
ATOM	19668	CA	GLU	D	237	-26.188	3.358	100.483	1.00	50.06	C
ATOM	19670	CB	GLU	D	237	-26.135	4.891	100.413	1.00	51.02	C
ATOM	19673	CG	GLU	D	237	-26.434	5.461	99.041	1.00	51.07	C
ATOM	19676	CD	GLU	D	237	-26.503	6.962	99.049	1.00	49.31	C
ATOM	19677	OE1	GLU	D	237	-26.995	7.520	98.052	1.00	51.35	O
ATOM	19678	OE2	GLU	D	237	-26.072	7.582	100.046	1.00	47.04	O
ATOM	19679	C	GLU	D	237	-27.609	2.885	100.121	1.00	49.51	C
ATOM	19680	O	GLU	D	237	-27.807	2.203	99.115	1.00	48.94	O
ATOM	19682	N	LEU	D	238	-28.582	3.285	100.951	1.00	48.63	N
ATOM	19683	CA	LEU	D	238	-29.997	2.922	100.800	1.00	47.11	C
ATOM	19685	CB	LEU	D	238	-30.387	1.929	101.900	1.00	46.77	C
ATOM	19688	CG	LEU	D	238	-31.740	1.214	101.808	1.00	46.51	C
ATOM	19690	CD1	LEU	D	238	-31.775	0.217	100.665	1.00	48.67	C
ATOM	19694	CD2	LEU	D	238	-32.046	0.506	103.111	1.00	44.88	C
ATOM	19698	C	LEU	D	238	-30.875	4.171	100.895	1.00	46.43	C
ATOM	19699	O	LEU	D	238	-31.580	4.530	99.949	1.00	45.31	O
ATOM	19701	N	TRP	D	251	-32.641	5.527	104.561	1.00	50.37	N
ATOM	19702	CA	TRP	D	251	-31.384	6.174	104.211	1.00	51.69	C
ATOM	19704	CB	TRP	D	251	-31.554	7.699	104.243	1.00	51.63	C
ATOM	19707	CG	TRP	D	251	-32.285	8.266	103.072	1.00	52.07	C
ATOM	19708	CD1	TRP	D	251	-31.855	8.288	101.783	1.00	54.18	C
ATOM	19710	NE1	TRP	D	251	-32.786	8.902	100.977	1.00	54.39	N
ATOM	19712	CE2	TRP	D	251	-33.845	9.305	101.746	1.00	54.58	C
ATOM	19713	CD2	TRP	D	251	-33.563	8.925	103.080	1.00	54.77	C
ATOM	19714	CE3	TRP	D	251	-34.497	9.234	104.083	1.00	56.49	C
ATOM	19716	CZ3	TRP	D	251	-35.676	9.900	103.723	1.00	53.81	C
ATOM	19718	CH2	TRP	D	251	-35.925	10.260	102.381	1.00	54.06	C
ATOM	19720	CZ2	TRP	D	251	-35.025	9.973	101.383	1.00	53.59	C
ATOM	19722	C	TRP	D	251	-30.250	5.773	105.167	1.00	52.25	C
ATOM	19723	O	TRP	D	251	-30.239	6.208	106.312	1.00	53.10	O
ATOM	19725	N	ILE	D	252	-29.314	4.936	104.710	1.00	53.39	N
ATOM	19726	CA	ILE	D	252	-28.028	4.730	105.424	1.00	52.95	C
ATOM	19728	CB	ILE	D	252	-28.052	3.542	106.480	1.00	52.07	C
ATOM	19730	CG1	ILE	D	252	-27.723	2.183	105.847	1.00	51.34	C
ATOM	19733	CD1	ILE	D	252	-26.320	1.684	106.165	1.00	51.08	C
ATOM	19737	CG2	ILE	D	252	-29.382	3.488	107.262	1.00	51.29	C
ATOM	19741	C	ILE	D	252	-26.858	4.583	104.427	1.00	52.71	C
ATOM	19742	O	ILE	D	252	-27.076	4.408	103.230	1.00	49.06	O
ATOM	19744	N	THR	D	253	-25.631	4.681	104.944	1.00	54.71	N
ATOM	19745	CA	THR	D	253	-24.398	4.687	104.137	1.00	56.15	C
ATOM	19747	CB	THR	D	253	-23.882	6.144	103.904	1.00	56.24	C
ATOM	19749	OG1	THR	D	253	-24.964	7.000	103.515	1.00	55.03	O
ATOM	19751	CG2	THR	D	253	-22.817	6.189	102.820	1.00	56.29	C
ATOM	19755	C	THR	D	253	-23.295	3.874	104.845	1.00	57.36	C
ATOM	19756	O	THR	D	253	-23.275	3.790	106.070	1.00	57.59	O
ATOM	19758	N	PHE	D	254	-22.381	3.284	104.073	1.00	58.47	N
ATOM	19759	CA	PHE	D	254	-21.344	2.399	104.622	1.00	58.61	C

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ATOM	19761	CB	PHE	D	254	-21.974	1.061	105.015	1.00	59.53	C
ATOM	19764	CG	PHE	D	254	-22.626	0.348	103.864	1.00	59.96	C
ATOM	19765	CD1	PHE	D	254	-21.960	-0.672	103.191	1.00	62.00	C
ATOM	19767	CE1	PHE	D	254	-22.553	-1.329	102.110	1.00	60.92	C
ATOM	19769	CZ	PHE	D	254	-23.824	-0.958	101.688	1.00	60.76	C
ATOM	19771	CE2	PHE	D	254	-24.496	0.068	102.347	1.00	62.46	C
ATOM	19773	CD2	PHE	D	254	-23.894	0.717	103.429	1.00	61.56	C
ATOM	19775	C	PHE	D	254	-20.228	2.138	103.603	1.00	59.14	C
ATOM	19776	O	PHE	D	254	-20.462	2.195	102.392	1.00	58.60	O
ATOM	19778	N	ASP	D	255	-19.025	1.840	104.097	1.00	59.15	N
ATOM	19779	CA	ASP	D	255	-17.902	1.427	103.238	1.00	59.33	C
ATOM	19781	CB	ASP	D	255	-16.601	2.121	103.680	1.00	59.88	C
ATOM	19784	CG	ASP	D	255	-16.630	3.630	103.457	1.00	61.43	C
ATOM	19785	OD1	ASP	D	255	-15.959	4.360	104.219	1.00	64.65	O
ATOM	19786	OD2	ASP	D	255	-17.319	4.093	102.524	1.00	61.56	O
ATOM	19787	C	ASP	D	255	-17.754	-0.105	103.267	1.00	58.94	C
ATOM	19788	O	ASP	D	255	-18.566	-0.794	103.883	1.00	59.47	O
ATOM	19790	N	LEU	D	256	-16.738	-0.636	102.589	1.00	58.57	N
ATOM	19791	CA	LEU	D	256	-16.494	-2.080	102.572	1.00	58.36	C
ATOM	19793	CB	LEU	D	256	-17.392	-2.742	101.514	1.00	59.64	C
ATOM	19796	CG	LEU	D	256	-17.652	-4.255	101.579	1.00	59.62	C
ATOM	19798	CD1	LEU	D	256	-18.794	-4.625	100.639	1.00	57.95	C
ATOM	19802	CD2	LEU	D	256	-16.403	-5.070	101.253	1.00	61.83	C
ATOM	19806	C	LEU	D	256	-15.025	-2.391	102.290	1.00	57.63	C
ATOM	19807	O	LEU	D	256	-14.608	-2.389	101.142	1.00	58.03	O
ATOM	19809	N	LYS	D	257	-14.245	-2.635	103.340	1.00	57.23	N
ATOM	19810	CA	LYS	D	257	-12.860	-3.101	103.199	1.00	58.22	C
ATOM	19812	CB	LYS	D	257	-11.878	-2.333	104.110	1.00	58.63	C
ATOM	19815	CG	LYS	D	257	-12.244	-2.284	105.619	1.00	59.20	C
ATOM	19818	CD	LYS	D	257	-11.267	-1.432	106.449	1.00	57.85	C
ATOM	19821	CE	LYS	D	257	-10.304	-2.277	107.281	1.00	56.77	C
ATOM	19824	NZ	LYS	D	257	-9.670	-3.373	106.496	1.00	57.61	N
ATOM	19828	C	LYS	D	257	-12.874	-4.573	103.550	1.00	59.25	C
ATOM	19829	O	LYS	D	257	-13.511	-4.962	104.533	1.00	59.96	O
ATOM	19831	N	ASN	D	258	-12.186	-5.382	102.742	1.00	59.93	N
ATOM	19832	CA	ASN	D	258	-12.192	-6.855	102.859	1.00	60.28	C
ATOM	19834	CB	ASN	D	258	-10.762	-7.392	103.032	1.00	60.48	C
ATOM	19837	CG	ASN	D	258	-9.912	-6.534	103.955	1.00	62.15	C
ATOM	19838	OD1	ASN	D	258	-10.395	-5.975	104.950	1.00	62.50	O
ATOM	19839	ND2	ASN	D	258	-8.630	-6.431	103.628	1.00	61.36	N
ATOM	19842	C	ASN	D	258	-13.121	-7.449	103.936	1.00	61.13	C
ATOM	19843	O	ASN	D	258	-12.721	-7.646	105.094	1.00	61.04	O
ATOM	19845	N	LYS	D	259	-14.370	-7.701	103.535	1.00	60.67	N
ATOM	19846	CA	LYS	D	259	-15.369	-8.388	104.364	1.00	59.67	C
ATOM	19848	CB	LYS	D	259	-14.845	-9.762	104.817	1.00	60.46	C
ATOM	19851	CG	LYS	D	259	-14.222	-10.634	103.717	1.00	60.39	C
ATOM	19854	CD	LYS	D	259	-15.054	-11.876	103.418	1.00	63.03	C
ATOM	19857	CE	LYS	D	259	-14.284	-12.876	102.557	1.00	63.79	C
ATOM	19860	NZ	LYS	D	259	-13.810	-12.267	101.282	1.00	65.00	N
ATOM	19864	C	LYS	D	259	-15.858	-7.599	105.594	1.00	58.60	C
ATOM	19865	O	LYS	D	259	-16.675	-8.110	106.365	1.00	58.04	O
ATOM	19867	N	GLU	D	260	-15.388	-6.367	105.769	1.00	57.41	N
ATOM	19868	CA	GLU	D	260	-15.715	-5.584	106.958	1.00	58.11	C
ATOM	19870	CB	GLU	D	260	-14.436	-5.189	107.699	1.00	58.58	C
ATOM	19873	CG	GLU	D	260	-13.694	-6.372	108.326	1.00	57.98	C
ATOM	19876	CD	GLU	D	260	-12.214	-6.098	108.524	1.00	57.61	C
ATOM	19877	OE1	GLU	D	260	-11.422	-6.519	107.652	1.00	58.27	O
ATOM	19878	OE2	GLU	D	260	-11.846	-5.452	109.532	1.00	50.23	O
ATOM	19879	C	GLU	D	260	-16.510	-4.352	106.561	1.00	57.37	C
ATOM	19880	O	GLU	D	260	-16.196	-3.716	105.561	1.00	57.22	O
ATOM	19882	N	VAL	D	261	-17.532	-4.024	107.354	1.00	57.46	N
ATOM	19883	CA	VAL	D	261	-18.516	-2.998	106.992	1.00	58.84	C
ATOM	19885	CB	VAL	D	261	-19.905	-3.628	106.734	1.00	59.86	C

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ATOM	19887	CG1	VAL	D	261	-20.892	-2.575	106.212	1.00	59.81	C
ATOM	19891	CG2	VAL	D	261	-19.795	-4.811	105.764	1.00	60.30	C
ATOM	19895	C	VAL	D	261	-18.671	-1.968	108.102	1.00	59.18	C
ATOM	19896	O	VAL	D	261	-18.868	-2.338	109.258	1.00	59.42	O
ATOM	19898	N	SER	D	262	-18.629	-0.683	107.740	1.00	60.00	N
ATOM	19899	CA	SER	D	262	-18.540	0.413	108.720	1.00	60.19	C
ATOM	19901	CB	SER	D	262	-17.399	1.363	108.324	1.00	60.71	C
ATOM	19904	OG	SER	D	262	-16.147	0.701	108.372	1.00	62.28	O
ATOM	19906	C	SER	D	262	-19.858	1.188	108.957	1.00	60.12	C
ATOM	19907	O	SER	D	262	-20.755	0.682	109.635	1.00	59.04	O
ATOM	19909	N	VAL	D	263	-19.954	2.409	108.418	1.00	60.68	N
ATOM	19910	CA	VAL	D	263	-21.081	3.340	108.644	1.00	60.35	C
ATOM	19912	CB	VAL	D	263	-21.686	3.248	110.079	1.00	61.17	C
ATOM	19914	CG1	VAL	D	263	-20.632	3.592	111.146	1.00	62.38	C
ATOM	19918	CG2	VAL	D	263	-22.924	4.153	110.212	1.00	61.75	C
ATOM	19922	C	VAL	D	263	-20.611	4.783	108.403	1.00	59.28	C
ATOM	19923	O	VAL	D	263	-19.452	5.103	108.658	1.00	58.59	O
ATOM	19925	N	LYS	D	264	-21.509	5.643	107.920	1.00	58.75	N
ATOM	19926	CA	LYS	D	264	-21.179	7.048	107.660	1.00	59.03	C
ATOM	19928	CB	LYS	D	264	-20.917	7.266	106.163	1.00	59.18	C
ATOM	19931	CG	LYS	D	264	-20.205	6.100	105.469	1.00	59.90	C
ATOM	19934	CD	LYS	D	264	-19.627	6.481	104.105	1.00	59.76	C
ATOM	19937	CE	LYS	D	264	-18.284	7.192	104.226	1.00	60.91	C
ATOM	19940	NZ	LYS	D	264	-17.578	7.263	102.920	1.00	60.55	N
ATOM	19944	C	LYS	D	264	-22.278	7.997	108.154	1.00	57.70	C
ATOM	19945	O	LYS	D	264	-23.445	7.617	108.277	1.00	56.11	O
ATOM	19947	N	PRO	D	270	-35.407	6.986	112.279	1.00	52.14	N
ATOM	19948	CA	PRO	D	270	-35.719	5.757	111.528	1.00	51.34	C
ATOM	19950	CB	PRO	D	270	-35.743	6.253	110.079	1.00	50.54	C
ATOM	19953	CG	PRO	D	270	-34.703	7.356	110.054	1.00	51.18	C
ATOM	19956	CD	PRO	D	270	-34.683	7.971	111.452	1.00	51.93	C
ATOM	19959	C	PRO	D	270	-34.663	4.659	111.685	1.00	50.66	C
ATOM	19960	O	PRO	D	270	-34.636	3.737	110.887	1.00	51.03	O
ATOM	19961	N	LYS	D	271	-33.860	4.733	112.747	1.00	51.49	N
ATOM	19962	CA	LYS	D	271	-32.496	4.174	112.765	1.00	51.51	C
ATOM	19964	CB	LYS	D	271	-31.701	4.719	113.964	1.00	51.04	C
ATOM	19967	CG	LYS	D	271	-31.364	6.212	113.893	1.00	49.35	C
ATOM	19970	CD	LYS	D	271	-32.364	7.076	114.659	1.00	45.19	C
ATOM	19973	CE	LYS	D	271	-32.011	8.551	114.566	1.00	45.44	C
ATOM	19976	NZ	LYS	D	271	-30.663	8.858	115.121	1.00	39.79	N
ATOM	19980	C	LYS	D	271	-32.373	2.648	112.742	1.00	51.79	C
ATOM	19981	O	LYS	D	271	-32.695	1.970	113.721	1.00	50.08	O
ATOM	19983	N	LEU	D	272	-31.875	2.144	111.607	1.00	53.53	N
ATOM	19984	CA	LEU	D	272	-31.443	0.751	111.437	1.00	54.28	C
ATOM	19986	CB	LEU	D	272	-31.143	0.445	109.949	1.00	55.19	C
ATOM	19989	CG	LEU	D	272	-32.233	0.095	108.919	1.00	57.39	C
ATOM	19991	CD1	LEU	D	272	-32.691	1.328	108.125	1.00	57.44	C
ATOM	19995	CD2	LEU	D	272	-33.420	-0.646	109.553	1.00	60.69	C
ATOM	19999	C	LEU	D	272	-30.172	0.467	112.241	1.00	54.31	C
ATOM	20000	O	LEU	D	272	-29.619	1.352	112.889	1.00	53.68	O
ATOM	20002	N	GLN	D	273	-29.730	-0.787	112.193	1.00	55.02	N
ATOM	20003	CA	GLN	D	273	-28.418	-1.192	112.694	1.00	55.43	C
ATOM	20005	CB	GLN	D	273	-28.537	-1.885	114.065	1.00	55.59	C
ATOM	20008	CG	GLN	D	273	-27.211	-2.393	114.682	1.00	55.17	C
ATOM	20011	CD	GLN	D	273	-26.427	-1.319	115.438	1.00	52.93	C
ATOM	20012	OE1	GLN	D	273	-26.852	-0.847	116.493	1.00	46.57	O
ATOM	20013	NE2	GLN	D	273	-25.264	-0.952	114.907	1.00	52.07	N
ATOM	20016	C	GLN	D	273	-27.824	-2.130	111.645	1.00	55.53	C
ATOM	20017	O	GLN	D	273	-28.423	-3.156	111.311	1.00	53.97	O
ATOM	20019	N	MET	D	274	-26.649	-1.759	111.135	1.00	56.56	N
ATOM	20020	CA	MET	D	274	-25.996	-2.452	110.018	1.00	56.36	C
ATOM	20022	CB	MET	D	274	-25.139	-1.457	109.232	1.00	56.51	C
ATOM	20025	CG	MET	D	274	-24.377	-2.029	108.049	1.00	57.12	C

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ATOM	20028	SD	MET	D	274	-25.394	-2.146	106.575	1.00	62.31	S
ATOM	20029	CE	MET	D	274	-26.064	-3.793	106.744	1.00	61.34	C
ATOM	20033	C	MET	D	274	-25.111	-3.590	110.505	1.00	56.37	C
ATOM	20034	O	MET	D	274	-24.346	-3.433	111.458	1.00	56.65	O
ATOM	20036	N	GLY	D	275	-25.213	-4.736	109.842	1.00	56.02	N
ATOM	20037	CA	GLY	D	275	-24.317	-5.845	110.108	1.00	56.13	C
ATOM	20040	C	GLY	D	275	-22.872	-5.409	109.977	1.00	55.95	C
ATOM	20041	O	GLY	D	275	-22.506	-4.696	109.042	1.00	56.24	O
ATOM	20043	N	LYS	D	276	-22.063	-5.833	110.939	1.00	55.59	N
ATOM	20044	CA	LYS	D	276	-20.625	-5.551	110.972	1.00	56.11	C
ATOM	20046	CB	LYS	D	276	-20.015	-6.060	112.294	1.00	57.11	C
ATOM	20049	CG	LYS	D	276	-20.541	-7.441	112.778	1.00	59.85	C
ATOM	20052	CD	LYS	D	276	-21.743	-7.331	113.755	1.00	59.41	C
ATOM	20055	CE	LYS	D	276	-22.885	-8.312	113.417	1.00	56.36	C
ATOM	20058	NZ	LYS	D	276	-22.535	-9.734	113.671	1.00	53.48	N
ATOM	20062	C	LYS	D	276	-19.857	-6.148	109.785	1.00	55.14	C
ATOM	20063	O	LYS	D	276	-18.850	-5.585	109.343	1.00	52.28	O
ATOM	20065	N	LYS	D	277	-20.339	-7.283	109.277	1.00	56.31	N
ATOM	20066	CA	LYS	D	277	-19.621	-8.057	108.259	1.00	57.40	C
ATOM	20068	CB	LYS	D	277	-18.921	-9.249	108.927	1.00	57.72	C
ATOM	20071	CG	LYS	D	277	-17.927	-8.868	110.022	1.00	57.34	C
ATOM	20074	CD	LYS	D	277	-17.523	-10.071	110.859	1.00	57.47	C
ATOM	20077	CE	LYS	D	277	-18.669	-10.561	111.737	1.00	58.38	C
ATOM	20080	NZ	LYS	D	277	-18.193	-11.388	112.879	1.00	59.61	N
ATOM	20084	C	LYS	D	277	-20.542	-8.558	107.133	1.00	56.99	C
ATOM	20085	O	LYS	D	277	-21.741	-8.262	107.116	1.00	55.31	O
ATOM	20087	N	LEU	D	278	-19.955	-9.299	106.191	1.00	57.67	N
ATOM	20088	CA	LEU	D	278	-20.701	-9.944	105.104	1.00	58.46	C
ATOM	20090	CB	LEU	D	278	-19.786	-10.222	103.909	1.00	57.52	C
ATOM	20093	CG	LEU	D	278	-19.118	-9.015	103.258	1.00	56.25	C
ATOM	20095	CD1	LEU	D	278	-18.172	-9.487	102.182	1.00	56.25	C
ATOM	20099	CD2	LEU	D	278	-20.146	-8.045	102.688	1.00	55.60	C
ATOM	20103	C	LEU	D	278	-21.323	-11.268	105.562	1.00	59.86	C
ATOM	20104	O	LEU	D	278	-20.766	-11.941	106.432	1.00	61.13	O
ATOM	20106	N	PRO	D	279	-22.480	-11.648	104.982	1.00	60.00	N
ATOM	20107	CA	PRO	D	279	-23.243	-10.880	104.006	1.00	60.12	C
ATOM	20109	CB	PRO	D	279	-24.357	-11.848	103.593	1.00	59.18	C
ATOM	20112	CG	PRO	D	279	-24.513	-12.754	104.738	1.00	58.92	C
ATOM	20115	CD	PRO	D	279	-23.133	-12.934	105.284	1.00	60.28	C
ATOM	20118	C	PRO	D	279	-23.833	-9.600	104.606	1.00	60.74	C
ATOM	20119	O	PRO	D	279	-24.045	-9.517	105.826	1.00	59.77	O
ATOM	20120	N	LEU	D	280	-24.067	-8.609	103.747	1.00	60.94	N
ATOM	20121	CA	LEU	D	280	-24.668	-7.347	104.167	1.00	61.98	C
ATOM	20123	CB	LEU	D	280	-24.756	-6.373	102.990	1.00	61.28	C
ATOM	20126	CG	LEU	D	280	-23.447	-5.924	102.340	1.00	59.59	C
ATOM	20128	CD1	LEU	D	280	-23.741	-5.124	101.080	1.00	57.60	C
ATOM	20132	CD2	LEU	D	280	-22.595	-5.117	103.310	1.00	56.93	C
ATOM	20136	C	LEU	D	280	-26.064	-7.627	104.707	1.00	63.30	C
ATOM	20137	O	LEU	D	280	-26.843	-8.331	104.060	1.00	63.78	O
ATOM	20139	N	HIS	D	281	-26.375	-7.089	105.885	1.00	63.81	N
ATOM	20140	CA	HIS	D	281	-27.627	-7.413	106.569	1.00	64.50	C
ATOM	20142	CB	HIS	D	281	-27.597	-8.897	106.978	1.00	65.93	C
ATOM	20145	CG	HIS	D	281	-28.273	-9.200	108.278	1.00	68.64	C
ATOM	20146	ND1	HIS	D	281	-27.635	-9.073	109.495	1.00	71.30	N
ATOM	20148	CE1	HIS	D	281	-28.466	-9.416	110.463	1.00	72.61	C
ATOM	20150	NE2	HIS	D	281	-29.616	-9.774	109.918	1.00	73.03	N
ATOM	20152	CD2	HIS	D	281	-29.519	-9.653	108.552	1.00	71.01	C
ATOM	20154	C	HIS	D	281	-27.847	-6.497	107.771	1.00	64.93	C
ATOM	20155	O	HIS	D	281	-26.887	-6.139	108.448	1.00	66.37	O
ATOM	20157	N	LEU	D	282	-29.100	-6.127	108.044	1.00	65.18	N
ATOM	20158	CA	LEU	D	282	-29.414	-5.207	109.165	1.00	64.94	C
ATOM	20160	CB	LEU	D	282	-29.504	-3.742	108.675	1.00	64.93	C
ATOM	20163	CG	LEU	D	282	-30.179	-3.317	107.364	1.00	59.82	C

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ATOM	20165	CD1	LEU	D	282	-31.439	-4.116	107.110	1.00	58.97	C
ATOM	20169	CD2	LEU	D	282	-29.237	-3.396	106.181	1.00	55.65	C
ATOM	20173	C	LEU	D	282	-30.663	-5.571	109.995	1.00	64.05	C
ATOM	20174	O	LEU	D	282	-30.873	-5.047	111.103	1.00	60.91	O
ATOM	20176	N	ASN	D	296	-34.359	0.575	97.016	1.00	50.09	N
ATOM	20177	CA	ASN	D	296	-33.094	0.452	96.299	1.00	52.29	C
ATOM	20179	CB	ASN	D	296	-32.986	1.533	95.214	1.00	52.45	C
ATOM	20182	CG	ASN	D	296	-33.804	1.211	93.976	1.00	54.86	C
ATOM	20183	OD1	ASN	D	296	-33.879	0.060	93.548	1.00	60.19	O
ATOM	20184	ND2	ASN	D	296	-34.407	2.236	93.383	1.00	54.83	N
ATOM	20187	C	ASN	D	296	-31.865	0.540	97.217	1.00	53.06	C
ATOM	20188	O	ASN	D	296	-31.675	1.540	97.909	1.00	53.59	O
ATOM	20190	N	LEU	D	297	-31.044	-0.512	97.221	1.00	53.69	N
ATOM	20191	CA	LEU	D	297	-29.697	-0.461	97.799	1.00	53.19	C
ATOM	20193	CB	LEU	D	297	-29.409	-1.701	98.647	1.00	53.44	C
ATOM	20196	CG	LEU	D	297	-27.965	-1.842	99.152	1.00	53.87	C
ATOM	20198	CD1	LEU	D	297	-27.598	-0.706	100.107	1.00	56.29	C
ATOM	20202	CD2	LEU	D	297	-27.756	-3.189	99.822	1.00	53.90	C
ATOM	20206	C	LEU	D	297	-28.678	-0.379	96.668	1.00	53.65	C
ATOM	20207	O	LEU	D	297	-28.705	-1.199	95.745	1.00	52.72	O
ATOM	20209	N	THR	D	298	-27.778	0.602	96.748	1.00	53.30	N
ATOM	20210	CA	THR	D	298	-26.740	0.802	95.731	1.00	52.65	C
ATOM	20212	CB	THR	D	298	-26.712	2.261	95.243	1.00	52.96	C
ATOM	20214	OG1	THR	D	298	-26.732	3.144	96.376	1.00	56.56	O
ATOM	20216	CG2	THR	D	298	-27.909	2.547	94.337	1.00	51.36	C
ATOM	20220	C	THR	D	298	-25.354	0.444	96.267	1.00	51.63	C
ATOM	20221	O	THR	D	298	-25.083	0.608	97.462	1.00	50.50	O
ATOM	20223	N	LEU	D	299	-24.489	-0.051	95.378	1.00	50.62	N
ATOM	20224	CA	LEU	D	299	-23.102	-0.371	95.728	1.00	50.11	C
ATOM	20226	CB	LEU	D	299	-22.945	-1.867	96.060	1.00	49.91	C
ATOM	20229	CG	LEU	D	299	-21.560	-2.321	96.554	1.00	50.78	C
ATOM	20231	CD1	LEU	D	299	-21.170	-1.562	97.813	1.00	53.29	C
ATOM	20235	CD2	LEU	D	299	-21.500	-3.822	96.807	1.00	49.65	C
ATOM	20239	C	LEU	D	299	-22.137	0.029	94.608	1.00	48.19	C
ATOM	20240	O	LEU	D	299	-22.326	-0.337	93.447	1.00	46.34	O
ATOM	20242	N	ALA	D	300	-21.109	0.786	94.984	1.00	47.98	N
ATOM	20243	CA	ALA	D	300	-20.029	1.176	94.086	1.00	49.39	C
ATOM	20245	CB	ALA	D	300	-19.774	2.683	94.180	1.00	47.97	C
ATOM	20249	C	ALA	D	300	-18.775	0.398	94.469	1.00	50.12	C
ATOM	20250	O	ALA	D	300	-18.525	0.174	95.652	1.00	51.97	O
ATOM	20252	N	LEU	D	301	-18.000	-0.018	93.469	1.00	50.08	N
ATOM	20253	CA	LEU	D	301	-16.776	-0.784	93.688	1.00	51.34	C
ATOM	20255	CB	LEU	D	301	-16.918	-2.185	93.089	1.00	51.28	C
ATOM	20258	CG	LEU	D	301	-18.125	-2.982	93.590	1.00	52.15	C
ATOM	20260	CD1	LEU	D	301	-18.308	-4.257	92.782	1.00	53.40	C
ATOM	20264	CD2	LEU	D	301	-17.987	-3.295	95.072	1.00	52.51	C
ATOM	20268	C	LEU	D	301	-15.616	-0.063	93.028	1.00	51.47	C
ATOM	20269	O	LEU	D	301	-15.746	0.413	91.904	1.00	51.57	O
ATOM	20271	N	GLU	D	302	-14.478	0.004	93.709	1.00	52.24	N
ATOM	20272	CA	GLU	D	302	-13.358	0.795	93.210	1.00	55.43	C
ATOM	20274	CB	GLU	D	302	-12.157	0.733	94.163	1.00	56.01	C
ATOM	20277	CG	GLU	D	302	-11.478	-0.629	94.254	1.00	58.92	C
ATOM	20280	CD	GLU	D	302	-10.312	-0.636	95.228	1.00	58.20	C
ATOM	20281	OE1	GLU	D	302	-9.570	0.365	95.278	1.00	58.05	O
ATOM	20282	OE2	GLU	D	302	-10.132	-1.647	95.939	1.00	63.10	O
ATOM	20283	C	GLU	D	302	-12.950	0.355	91.808	1.00	56.22	C
ATOM	20284	O	GLU	D	302	-13.007	-0.832	91.485	1.00	56.96	O
ATOM	20286	N	ALA	D	303	-12.569	1.330	90.981	1.00	57.46	N
ATOM	20287	CA	ALA	D	303	-12.082	1.089	89.619	1.00	57.59	C
ATOM	20289	CB	ALA	D	303	-10.791	0.272	89.665	1.00	57.43	C
ATOM	20293	C	ALA	D	303	-13.108	0.406	88.711	1.00	58.66	C
ATOM	20294	O	ALA	D	303	-12.739	-0.287	87.760	1.00	59.28	O
ATOM	20296	N	LYS	D	304	-14.392	0.592	89.001	1.00	59.63	N

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ATOM	20297	CA	LYS	D	304	-15.438	-0.130	88.281	1.00	60.18	C
ATOM	20299	CB	LYS	D	304	-15.705	-1.484	88.940	1.00	59.91	C
ATOM	20302	CG	LYS	D	304	-14.534	-2.431	88.804	1.00	59.97	C
ATOM	20305	CD	LYS	D	304	-14.854	-3.829	89.269	1.00	61.17	C
ATOM	20308	CE	LYS	D	304	-13.582	-4.652	89.400	1.00	61.13	C
ATOM	20311	NZ	LYS	D	304	-12.779	-4.644	88.141	1.00	61.23	N
ATOM	20315	C	LYS	D	304	-16.717	0.688	88.167	1.00	60.58	C
ATOM	20316	O	LYS	D	304	-17.590	0.634	89.037	1.00	60.60	O
ATOM	20318	N	THR	D	305	-16.804	1.446	87.075	1.00	61.86	N
ATOM	20319	CA	THR	D	305	-18.008	2.193	86.720	1.00	61.96	C
ATOM	20321	CB	THR	D	305	-17.870	2.912	85.349	1.00	62.82	C
ATOM	20323	OG1	THR	D	305	-17.327	2.007	84.376	1.00	52.48	O
ATOM	20325	CG2	THR	D	305	-16.981	4.167	85.474	1.00	61.48	C
ATOM	20329	C	THR	D	305	-19.231	1.282	86.671	1.00	63.59	C
ATOM	20330	O	THR	D	305	-19.127	0.053	86.502	1.00	66.14	O
ATOM	20332	N	GLY	D	306	-20.391	1.912	86.806	1.00	62.32	N
ATOM	20333	CA	GLY	D	306	-21.633	1.204	87.038	1.00	61.13	C
ATOM	20336	C	GLY	D	306	-21.986	1.308	88.505	1.00	59.96	C
ATOM	20337	O	GLY	D	306	-21.334	2.010	89.277	1.00	57.92	O
ATOM	20339	N	LYS	D	307	-23.027	0.592	88.890	1.00	60.51	N
ATOM	20340	CA	LYS	D	307	-23.532	0.661	90.242	1.00	59.65	C
ATOM	20342	CB	LYS	D	307	-24.377	1.935	90.399	1.00	59.54	C
ATOM	20345	CG	LYS	D	307	-24.531	2.440	91.829	1.00	61.32	C
ATOM	20348	CD	LYS	D	307	-23.604	3.621	92.159	1.00	62.72	C
ATOM	20351	CE	LYS	D	307	-24.082	4.353	93.422	1.00	62.70	C
ATOM	20354	NZ	LYS	D	307	-23.276	5.553	93.777	1.00	61.79	N
ATOM	20358	C	LYS	D	307	-24.368	-0.599	90.479	1.00	58.73	C
ATOM	20359	O	LYS	D	307	-25.383	-0.800	89.803	1.00	59.90	O
ATOM	20361	N	LEU	D	308	-23.938	-1.458	91.402	1.00	56.19	N
ATOM	20362	CA	LEU	D	308	-24.768	-2.601	91.793	1.00	55.13	C
ATOM	20364	CB	LEU	D	308	-24.016	-3.577	92.695	1.00	53.12	C
ATOM	20367	CG	LEU	D	308	-22.843	-4.301	92.045	1.00	51.17	C
ATOM	20369	CD1	LEU	D	308	-22.174	-5.246	93.039	1.00	50.36	C
ATOM	20373	CD2	LEU	D	308	-23.292	-5.048	90.796	1.00	50.21	C
ATOM	20377	C	LEU	D	308	-26.023	-2.086	92.486	1.00	53.53	C
ATOM	20378	O	LEU	D	308	-26.006	-1.055	93.145	1.00	51.81	O
ATOM	20380	N	HIS	D	309	-27.108	-2.824	92.330	1.00	53.59	N
ATOM	20381	CA	HIS	D	309	-28.424	-2.320	92.649	1.00	55.00	C
ATOM	20383	CB	HIS	D	309	-28.987	-1.629	91.395	1.00	56.99	C
ATOM	20386	CG	HIS	D	309	-30.480	-1.511	91.368	1.00	64.50	C
ATOM	20387	ND1	HIS	D	309	-31.286	-2.422	90.719	1.00	69.23	N
ATOM	20389	CE1	HIS	D	309	-32.552	-2.064	90.856	1.00	73.67	C
ATOM	20391	NE2	HIS	D	309	-32.596	-0.949	91.565	1.00	74.96	N
ATOM	20393	CD2	HIS	D	309	-31.313	-0.579	91.895	1.00	72.98	C
ATOM	20395	C	HIS	D	309	-29.307	-3.474	93.123	1.00	53.81	C
ATOM	20396	O	HIS	D	309	-29.231	-4.572	92.583	1.00	52.54	O
ATOM	20398	N	GLN	D	310	-30.115	-3.229	94.154	1.00	54.03	N
ATOM	20399	CA	GLN	D	310	-31.121	-4.201	94.603	1.00	54.20	C
ATOM	20401	CB	GLN	D	310	-30.525	-5.207	95.592	1.00	53.57	C
ATOM	20404	CG	GLN	D	310	-31.569	-6.159	96.165	1.00	51.93	C
ATOM	20407	CD	GLN	D	310	-30.979	-7.313	96.947	1.00	51.98	C
ATOM	20408	OE1	GLN	D	310	-29.793	-7.622	96.840	1.00	51.04	O
ATOM	20409	NE2	GLN	D	310	-31.817	-7.963	97.745	1.00	45.49	N
ATOM	20412	C	GLN	D	310	-32.324	-3.526	95.250	1.00	54.35	C
ATOM	20413	O	GLN	D	310	-32.176	-2.733	96.173	1.00	54.20	O
ATOM	20415	N	GLU	D	311	-33.513	-3.874	94.772	1.00	55.20	N
ATOM	20416	CA	GLU	D	311	-34.751	-3.402	95.378	1.00	56.10	C
ATOM	20418	CB	GLU	D	311	-35.941	-3.694	94.463	1.00	56.72	C
ATOM	20421	CG	GLU	D	311	-36.211	-2.636	93.410	1.00	57.24	C
ATOM	20424	CD	GLU	D	311	-37.690	-2.541	93.072	1.00	57.45	C
ATOM	20425	OE1	GLU	D	311	-38.048	-2.680	91.883	1.00	60.36	O
ATOM	20426	OE2	GLU	D	311	-38.499	-2.346	94.004	1.00	55.98	O
ATOM	20427	C	GLU	D	311	-35.012	-4.050	96.743	1.00	57.13	C

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ATOM	20428	O	GLU	D	311	-34.667	-5.212	96.969	1.00	59.32	O
ATOM	20430	N	VAL	D	312	-35.628	-3.282	97.642	1.00	56.10	N
ATOM	20431	CA	VAL	D	312	-36.108	-3.791	98.925	1.00	54.35	C
ATOM	20433	CB	VAL	D	312	-35.258	-3.293	100.107	1.00	55.79	C
ATOM	20435	CG1	VAL	D	312	-35.394	-4.253	101.295	1.00	55.16	C
ATOM	20439	CG2	VAL	D	312	-33.797	-3.124	99.698	1.00	58.54	C
ATOM	20443	C	VAL	D	312	-37.519	-3.274	99.139	1.00	52.65	C
ATOM	20444	O	VAL	D	312	-37.829	-2.152	98.747	1.00	51.46	O
ATOM	20446	N	ASN	D	313	-38.368	-4.088	99.761	1.00	51.15	N
ATOM	20447	CA	ASN	D	313	-39.753	-3.699	100.019	1.00	49.70	C
ATOM	20449	CB	ASN	D	313	-40.677	-4.254	98.923	1.00	49.29	C
ATOM	20452	CG	ASN	D	313	-40.109	-4.077	97.511	1.00	47.00	C
ATOM	20453	OD1	ASN	D	313	-40.574	-3.240	96.738	1.00	43.93	O
ATOM	20454	ND2	ASN	D	313	-39.104	-4.872	97.175	1.00	47.81	N
ATOM	20457	C	ASN	D	313	-40.223	-4.171	101.403	1.00	48.99	C
ATOM	20458	O	ASN	D	313	-39.804	-5.227	101.879	1.00	50.76	O
ATOM	20460	N	LEU	D	314	-41.089	-3.384	102.040	1.00	46.64	N
ATOM	20461	CA	LEU	D	314	-41.621	-3.715	103.361	1.00	45.22	C
ATOM	20463	CB	LEU	D	314	-40.802	-3.006	104.438	1.00	45.62	C
ATOM	20466	CG	LEU	D	314	-41.099	-3.282	105.923	1.00	46.54	C
ATOM	20468	CD1	LEU	D	314	-40.589	-4.654	106.338	1.00	47.51	C
ATOM	20472	CD2	LEU	D	314	-40.489	-2.194	106.823	1.00	43.11	C
ATOM	20476	C	LEU	D	314	-43.087	-3.310	103.462	1.00	42.59	C
ATOM	20477	O	LEU	D	314	-43.925	-4.084	103.920	1.00	40.19	O
ATOM	20479	O	HOH	S	1	23.900	8.091	67.594	1.00	36.83	O
ATOM	20482	O	HOH	S	2	5.912	4.439	54.558	1.00	29.49	O
ATOM	20485	O	HOH	S	3	-16.003	-21.359	70.559	1.00	31.23	O
ATOM	20488	O	HOH	S	4	13.033	-10.043	57.159	1.00	50.76	O
ATOM	20491	O	HOH	S	5	-16.929	-1.491	61.333	1.00	38.50	O
ATOM	20494	O	HOH	S	6	-22.626	-6.539	63.353	1.00	50.27	O
ATOM	20497	O	HOH	S	7	16.630	-9.251	65.143	1.00	45.50	O
ATOM	20500	O	HOH	S	8	44.030	7.432	44.731	1.00	37.27	O
ATOM	20503	O	HOH	S	9	31.788	-5.318	53.301	1.00	35.07	O
ATOM	20506	O	HOH	S	10	-30.206	-7.085	50.788	1.00	46.69	O
ATOM	20509	O	HOH	S	11	2.607	-8.285	67.630	1.00	33.72	O
ATOM	20512	O	HOH	S	12	2.236	1.490	38.087	1.00	44.75	O
ATOM	20515	O	HOH	S	13	37.064	-22.971	76.347	1.00	43.10	O
ATOM	20518	O	HOH	S	14	29.806	-11.612	69.475	1.00	31.98	O
ATOM	20521	O	HOH	S	15	-15.188	2.660	97.916	1.00	45.05	O
ATOM	20524	O	HOH	S	16	-5.607	-22.673	71.013	1.00	41.14	O
ATOM	20527	O	HOH	S	17	-0.264	5.022	34.615	1.00	53.08	O
ATOM	20530	O	HOH	S	18	5.673	8.372	50.771	1.00	41.06	O
ATOM	20533	O	HOH	S	19	8.805	14.650	55.069	1.00	36.37	O
ATOM	20536	O	HOH	S	20	-5.379	-16.793	52.803	1.00	34.32	O
ATOM	20539	O	HOH	S	21	-6.797	-11.277	35.837	1.00	52.95	O
ATOM	20542	O	HOH	S	22	37.201	11.338	80.658	1.00	70.53	O
ATOM	20545	O	HOH	S	23	43.835	13.822	42.909	1.00	61.88	O
ATOM	20548	O	HOH	S	24	13.385	-2.184	19.956	1.00	45.10	O
ATOM	20551	O	HOH	S	25	3.200	-26.115	65.629	1.00	29.75	O
ATOM	20554	O	HOH	S	26	-20.435	-19.113	31.054	1.00	30.05	O
ATOM	20557	O	HOH	S	27	29.310	-15.968	54.370	1.00	41.89	O
ATOM	20560	O	HOH	S	28	-28.905	-11.538	89.618	1.00	44.37	O
ATOM	20563	O	HOH	S	29	-6.444	-19.644	75.505	1.00	34.88	O
ATOM	20566	O	HOH	S	30	-3.930	-24.054	62.231	1.00	46.15	O
ATOM	20569	O	HOH	S	31	-26.525	-18.165	54.874	1.00	32.11	O
ATOM	20572	O	HOH	S	32	-16.859	-33.447	52.129	1.00	52.93	O
ATOM	20575	O	HOH	S	33	24.707	-2.954	31.853	1.00	37.36	O
ATOM	20578	O	HOH	S	34	-37.527	-9.583	49.990	1.00	45.23	O
ATOM	20581	O	HOH	S	35	-21.289	-9.902	61.681	1.00	34.17	O
ATOM	20584	O	HOH	S	36	18.763	5.020	61.136	1.00	35.70	O
ATOM	20587	O	HOH	S	37	31.828	-25.589	50.936	1.00	38.57	O
ATOM	20590	O	HOH	S	38	35.516	-4.398	50.634	1.00	85.69	O
ATOM	20593	O	HOH	S	39	35.516	-4.398	50.634	1.00	85.69	O

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ATOM 20596 O HOH S 40 -12.682 4.430 47.461 1.00 46.60 O

CLAIMS:

1. A method for screening for a molecule capable of binding to CD4 comprising:
 - (a) providing one or more candidate molecules;
 - (b) determining whether the one or more candidate molecules is capable of binding to one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168 and amino acids 185 to 192; and
 - (c) selecting a molecule determined in step (b) to be capable of binding to CD4.
2. A method according to claim 1 wherein the step (b) further comprises determining whether the one or more candidate molecules binds to at least one of the following amino acid of human CD4: 26, 156, 159, and 161.
3. A method according to claim 1 or claim 2 wherein step (b) comprises determining whether the one or more candidate molecules is capable of binding to CD4 without a salt bridge.
4. A method according to any preceding claim wherein the one or more candidate molecules is an antibody, an antibody derived molecule, a peptide, an oligonucleotide, a siRNA, a mimotope, a peptidomimetic, a foldamer, a small molecule, a recognition protein based on a natural or an engineered lipocalin, a DARPin, a fibronectin, an affibody, a Kunitz-type inhibitor, a peptidic aptamer, a ribozyme, or a toxin.
5. A method according to claim 4 wherein the antibody is a humanized antibody or a camelid antibody.
6. A method according to any preceding claim wherein the one or more candidate molecules are antibodies or antibody fragments comprising CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:
 - (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;
 - (ii) the light chain CDR2 comprises: Leu54; and Ile57;
 - (iii) the heavy chain CDR1 comprises: Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and

- (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110.
7. A method according to claim 6 wherein the amino acid substitutions in the sequence of CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain are selected from those set out in Table 4 and Table 5.
8. A method according to claim 6 or claim 7 wherein the antibody or antibody fragment comprises a light chain comprising Tyr 53 or Phe 53 and a heavy chain comprising Ser 28.
9. A method according to any one of claims 6 to 8 wherein the antibody or antibody fragment comprises a light chain comprising Asp64 and/or a heavy chain comprising Glu 56.
10. A method according to any one of claims 6 to 9 wherein the antibody or antibody fragment further comprises the CDR3 of BT061 light chain and/or the CDR2 of BT061 heavy chain optionally with amino acid substitutions in the sequences of these CDRs wherein the substitutions are selected from those set out in Table 4 and Table 5.
11. A method according to any preceding claim wherein steps (a) to (c) are conducted on a computer system.
12. A method according to claim 11 further comprising a step (d) of producing the molecule selected in step (c).
13. A method according to claim 12 further comprising a step (e) of contacting in vitro the molecule produced in step (d) with a CD4⁺ cell or with a peptide or polypeptide comprising one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168 and amino acids 185 to 192.
14. A method according to claim 13 wherein step (e) comprises determining whether the molecule produced in step (d):

(i) binds to a peptide comprising one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168, and amino acids 185 to 192;

(ii) activates CD4+CD25+ regulatory T cells; and/or

(iii) reduces CD4 receptor expression on a CD4 expressing cell.

15. A method according to any one of claims 1 to 10 wherein steps (a) to (c) are conducted in vitro and step (b) comprises contacting the one or more candidate molecules with a peptide or polypeptide comprising one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168 and amino acids 185 to 192.

16. A method according to claim 15 wherein the one or more candidate molecules are a library of molecules.

17. A method according to claim 16 wherein the library is a phage display library.

18. A method according to anyone of claims 14 to 17 wherein the step of determining comprises performing X ray crystallography or NMR and selecting a molecule which binds to the peptide or polypeptide without a salt bridge.

19. A method according to any one of claims 15 to 18 further comprising a step (d) of screening a molecule selected in step (c) for its ability to activate CD4+CD25+ regulatory T cells, and/or a step (e) of screening a molecule selected in step (c) for its ability to reduce CD4 receptor expression on a CD4 expressing cell.

20. A method according to any one of claims 13 to 19 wherein the peptide or the polypeptide is fixed to a membrane or an equivalent suitable surface, or is coupled to a magnetic bead.

21. A method according to any one of claims 13 to 20 wherein the peptide or polypeptide comprises the Ig-like C2-type 1 domain of human CD4 or comprises the Ig-like V-type domain and the Ig-like C2-type 1 domain of human CD4.

22. A method according to any one of claims 13 to 21 wherein the peptide or polypeptide mimics the conformation of the wild-type CD4 epitope.
23. A method according to any one of claims 14 to 22 wherein the contacting step comprises contacting the peptide and the molecule with a competitor antibody or antibody fragment having the heavy and light chain variable domains of BT061 to determine if the candidate or selected molecule is able to block binding of the competitor antibody or antibody fragment to the regions of the peptide or polypeptide.
24. A method for producing a therapeutic composition comprising:
- (a) selecting a molecule determined as being capable of activating CD4+CD25+ regulatory T cells using the method of claim 14 or claim 19: and
 - (b) producing a therapeutic composition comprising the selected molecule.
25. A therapeutic composition obtainable by a method according to claim 24, wherein the molecule does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CD3 of BT061 light chain.
26. A method for screening for an antibody or antibody fragment capable of binding CD4 comprising:
- (a) providing an antibody or antibody fragment comprising CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:
 - (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;
 - (ii) the light chain CDR2 comprises: Leu54; and Ile57;
 - (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
 - (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110,
 - (b) determining whether the antibody or antibody fragment is capable of binding to CD4, and
 - (c) selecting the antibody or antibody fragment determined in step (b) to be capable of binding to CD4,

wherein the antibody or antibody fragment does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.

27. A method according to claim 26 wherein the amino acid substitutions in the sequences of CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain are selected from those set out in Table 4 and Table 5.

28. A method according to claim 26 or claim 27 wherein the antibody or antibody fragment comprises a light chain comprising Tyr53 or Phe53 and a heavy chain comprising Ser28.

29. A method according to any one of claims 26 to 28 wherein the antibody or antibody fragment comprises a light chain comprising Asp64 and/or a heavy chain comprising Glu 56.

30. A method according to any one of claims 26 to 29 wherein the antibody or antibody fragment further comprises the CDR3 of BT061 light chain and/or the CDR2 of BT061 heavy chain optionally with amino acid substitutions in the sequences of these CDRs wherein the substitutions are selected from those set out in Table 4 and Table 5.

31. A method according to any one of claims 26 to 30 wherein steps (a) to (c) are conducted on a computer system.

32. A method according to claim 31 further comprising a step (d) of producing the antibody or antibody fragment selected in step (c).

33. A method according to claim 32 further comprising determining whether the antibody or antibody fragment produced in step (d):

- (i) activates CD4+CD25+ regulatory T cells;
- (ii) binds to one or more of the following regions of CD4: amino acids 148 to 154; amino acids 164 to 168 and amino acids 185 to 192; and/or
- (iii) down-regulates expression of CD4 on CD4 expressing cell.

34. A method according to any one of claims 26 to 31 wherein steps (a) to (c) are conducted in vitro.
35. A method according to claim 34 wherein step (b) comprises determining whether the antibody or antibody fragment:
- (i) activates CD4+CD25+ regulatory T cells;
 - (ii) binds to one or more of the following regions of CD4: amino acids 148 to 154; amino acids 164 to 168 and amino acids 185 to 192; and/or
 - (iii) down-regulates expression of CD4 on CD4 expressing cell.
36. A method according to any one of claims 14, 19, 33 and 35 wherein the CD4 expressing cells are PBMC.
37. A method for producing a therapeutic composition comprising:
- (a) selecting the antibody or antibody fragment identified according to claim 33 or 35 as being capable of activating CD4+CD25+ regulatory T cells; and
 - (b) producing a therapeutic composition comprising the selected molecule.
38. A therapeutic composition obtainable by a method according to claim 37.
39. An antibody or antibody fragment capable of activating CD4+CD25+ regulatory T cells comprising CDR1 and CDR2 of BT061 light chain and CDR1 and CDR3 of BT061 heavy chain optionally with amino acid substitutions in the sequences of the CDRs provided:
- (i) the light chain CDR1 comprises: Ser32; Gly33; and Tyr 34;
 - (ii) the light chain CDR2 comprises: Leu54; and Ile57;
 - (iii) the heavy chain CDR1 comprises Asp31, Glu31, Thr31, Cys31, Pro31, Met31 or Tyr31; and
 - (iv) the heavy chain CDR3 comprises Tyr103, Phe103 or His103; Arg104; Tyr105; Asp106; and Trp110, Phe110, His 110 or Tyr110,
- and wherein the antibody or antibody fragment does not comprise CDR1, CDR2 and CDR3 of BT061 heavy chain and CDR1, CDR2 and CDR3 of BT061 light chain.
40. An antibody or antibody fragment according to claim 39 comprising the sequence:

10	20	30	40	50	60
DIVMTQSPDS	LAVSLGERAT	INCXXXXXXXXS	XSGYSYXYWY	QOKPGQPPKL	LIYLASILEX
70	80	90	100	110	120
GVPDRFSGSG	SGTDFTLTIS	SLQAEDVAVY	YCQHSXXXPW	XFGQGTKVEI	KRTVAAPSVF
130	140	150	160	170	180
IFPPSDEQLK	SGTASVVCLL	NNFYBREAKV	QWKVDNALQS	GNSQESVTEQ	DSKDSTYSLS
190	200	210	218		
STLTLSKADY	EKHKVYACEV	THQGLSSPVT	KSFNRGEC		

wherein the amino acids at positions 24 to 29, 31, 37, 60, 96 to 98 and 101 are selected from those shown at the corresponding positions in Table 4,
and further comprising the sequence:

10	20	30	40	50	60
EEQLVESGGG	LVKPGGSLRL	SCAASGFSFS	XXXXYWLRQA	PGKGLEWIGV	XXXXXXXXXX
70	80	90	100	110	120
XXXXXXXXGRF	TISRDDSKNT	VYLQMNSLKT	EDTAVYYCSA	SYXRYDXXXX	FXXWGQGLTV
130	140	150	160	170	180
TVSSASTKGP	SVFPLAPSSK	STSGGTAALG	CLVKDYFPEP	VTVSWNSGAL	TSGVHTFPAV
190	200	210	220	230	240
LQSSGLYSL	SVVTVPSSSL	GTQTYICNVN	HKPSNTKVDK	KVEPKSCDKT	HTCPPCPAPE
250	260	270	280	290	300
LLGGPSVFLF	PPKPKDTLMI	SRTPEVTCVV	VDVSHEDPEV	KFNWYVDGVE	VHNAKTKPRE
310	320	330	340	350	360
EQYNSTYRVV	SVLTVLHQDW	LNGKEYKCKV	SNKALPAPIE	KTISKAKGQP	REPQVYTLPP
370	380	390	400	410	420
SRDELTKNQV	SLTCLVKGFY	PSDIAVEWES	NGQPENNYKT	TPPVLDSDGS	FFLYSKLTVD
430	440	450	454		
KSRWQQGNVF	SCSVMHEALH	NHYTQKSLSL	SPGK		

wherein the amino acids at positions 31 to 34, 51 to 67, 103, 107 to 110, 111 and 112 are selected from those shown at the corresponding positions in Table 5.

41. An antibody or antibody fragment according to claim 39 comprising the sequence SGYSY from CDR1 of BT061 light chain and/or the sequence LASILE from CDR2 of BT061 light chain and/or the sequence YYRYD from CDR3 of BT061 heavy chain.
42. An antibody or antibody fragment according to claim 39 wherein the amino acids substitutions in the sequences of the CDRs are isosteric variations
43. An antibody or antibody fragment capable of activating CD4+CD25+ regulatory T cells comprising V domains that are at least 80% identical to the V domains of the antibody BT061, the V domains comprising:
- (i) the sequence motif SGYSY in CDR1 of the light chain V domain;
 - (ii) the sequence motif LASILE in CDR2 of the light chain V domain; and
 - (iii) the sequence motif SYXRYD in CDR3 of the heavy chain V domain where X is Y, F or H, with the proviso that the antibody or antibody fragment does not comprise V domains that are 100% identical to the V domains of the antibody BT061.
44. An antibody or antibody fragment according to claim 39 wherein the amino acid substitutions in the sequence of CDR1 and CDR2 of BT061 light chain and/or CDR1 and CDR3 of BT061 heavy chain are selected from those set out in Table 4 and Table 5.
45. An antibody or antibody fragment according to claim 39 or claim 44 wherein the antibody or antibody fragment comprises a light chain comprising Tyr53 or Phe 53 and/or a heavy chain comprising Ser28.
46. An antibody or antibody fragment according to any one of claims 39, 44 or 45 wherein the antibody or antibody fragment comprises a light chain containing Asp64.
47. An antibody or antibody fragment according to any one of claims 39, or 44 to 46 wherein the antibody or antibody fragment comprises a heavy chain comprising Glu 56.
48. An antibody or antibody fragment according to any one of claims 39, or 44 to 47 wherein the antibody or antibody fragment further comprises the CDR3 of BT061 light chain and/or the CDR2

of BT061 heavy chain optionally with amino acid substitutions in the sequences of these CDRs wherein the substitutions are selected from those set out in Table 4 and Table 5.

49. An antibody or antibody fragment according to any one of claims 39 or 44 to 48, comprising the CDR sequences of BT061 light chain and the CDR sequences of BT061 heavy chain with a single amino acid substitution wherein the substitution is:

- (i) A63G in the heavy chain;
- (ii) R33K in the heavy chain; or
- (iii) L98I in the light chain.

50. An antibody or antibody fragment according to any one of claims 39 or 44 to 48, comprising the CDR sequences of BT061 light chain and the CDR sequences of BT061 heavy chain and a double amino acid substitution wherein the substitutions are:

- (iv) R33K and A63G in the heavy chain; or
- (v) L98I in the light chain and R33K in the heavy chain.

51. An antibody or antibody fragment according to claim 49 and 50 further comprising the remaining variable domain sequences of BT061.

52. An antibody or antibody fragment according to any one of claims 39 to 51, further comprising an Fc receptor capable of binding to CD64.

53. An antibody according to any one of claims 39 to 52 wherein the antibody is an IgG antibody.

54. An isolated peptide comprising less than 50 amino acids of human CD4 protein and including two or three of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168, and amino acids 185 to 192.

55. An isolated peptide comprising less than 20 amino acids of human CD4 protein and including one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168, and amino acids 185 to 192.

56. A mimotope of an isolated peptide comprising less than 50 amino acids of human CD4 protein and including one or more of the following regions of human CD4: amino acids 148 to 154, amino acids 164 to 168, and amino acids 185 to 192.
57. A nucleic acid encoding the antibody or antibody fragment according to any one of claims 39 to 53.
58. A vector comprising the nucleic acid of claim 57.
59. A host cell or hybridoma comprising the nucleic acid of claim 57 or the vector of claim 58.
60. A method for the production of an antibody or antibody fragment according to any one of claims 39 to 53 comprising a step of culturing the host cell according to claim 60 in a culture medium under conditions allowing the expression of the antibody or antibody fragment and separating the antibody or fragment from the culture medium.
61. A pharmaceutical composition comprising the antibody or antibody fragment according to any one of claims 39 to 53 and further comprising a pharmaceutically acceptable carrier.
62. An antibody or antibody fragment according to any one of claims 39 to 53 further comprising a label.
63. An in vitro method for the activation of CD4+CD25+ regulatory T cells comprising contacting the cells with the antibody or antibody fragment according to any one of claims 39 to 53.
64. A method of treating a subject suffering from or preventing a subject suffering from an autoimmune disease or transplant rejection comprising administering to said subject an antibody or antibody fragment according to any one of claims 39 to 53.
65. An antibody or antibody fragment according to any one of claims 39 to 53 for use in medicine.

66. An antibody or antibody fragment for use in medicine according to claim 65 wherein the use is the treatment of an autoimmune disease or transplant rejection.
67. Use of an antibody or antibody fragment according to claim 65 for the manufacture of a medicament for treating autoimmune disease or transplant rejection.
68. Use of an antibody or antibody fragment according to any one of claims 39 to 53 for activating CD4+CD25+ regulatory T cells in vitro.
69. Use of an antibody or antibody fragment according to any one of claims 39 to 53 for identifying CD4+CD25+ regulatory T cells in vitro.
70. Use of the isolated peptide of claim 54 or claim 55 or the mimotope of claim 56 for screening for molecules capable of binding to CD4 and/or activating CD4+CD25+ regulatory T cells.
71. A method of screening for the presence of CD4+CD25+ T regulatory cells in a sample comprising a step of contacting a labeled antibody or antibody fragment according to claim 62 with the sample, washing the sample to remove unbound antibody and detecting the presence of the label in the sample.
72. A method of screening according to claim 71 wherein the CD4+CD25+ T regulatory cells are activated.
73. A method of screening according to claim 71 or claim 72 wherein the sample is a biological sample taken from a subject suffering from an autoimmune disease or from transplant rejection.
74. A method of treating a subject suffering from or preventing a subject suffering from an autoimmune disease or transplant rejection comprising removing a sample comprising CD4+CD25+ regulatory T cells from the subject, contacting the sample with an antibody or antibody fragment

according to any one of claims 39 to 53 to activate CD4+CD25+ regulatory T cells and administering the activated cells to the subject.

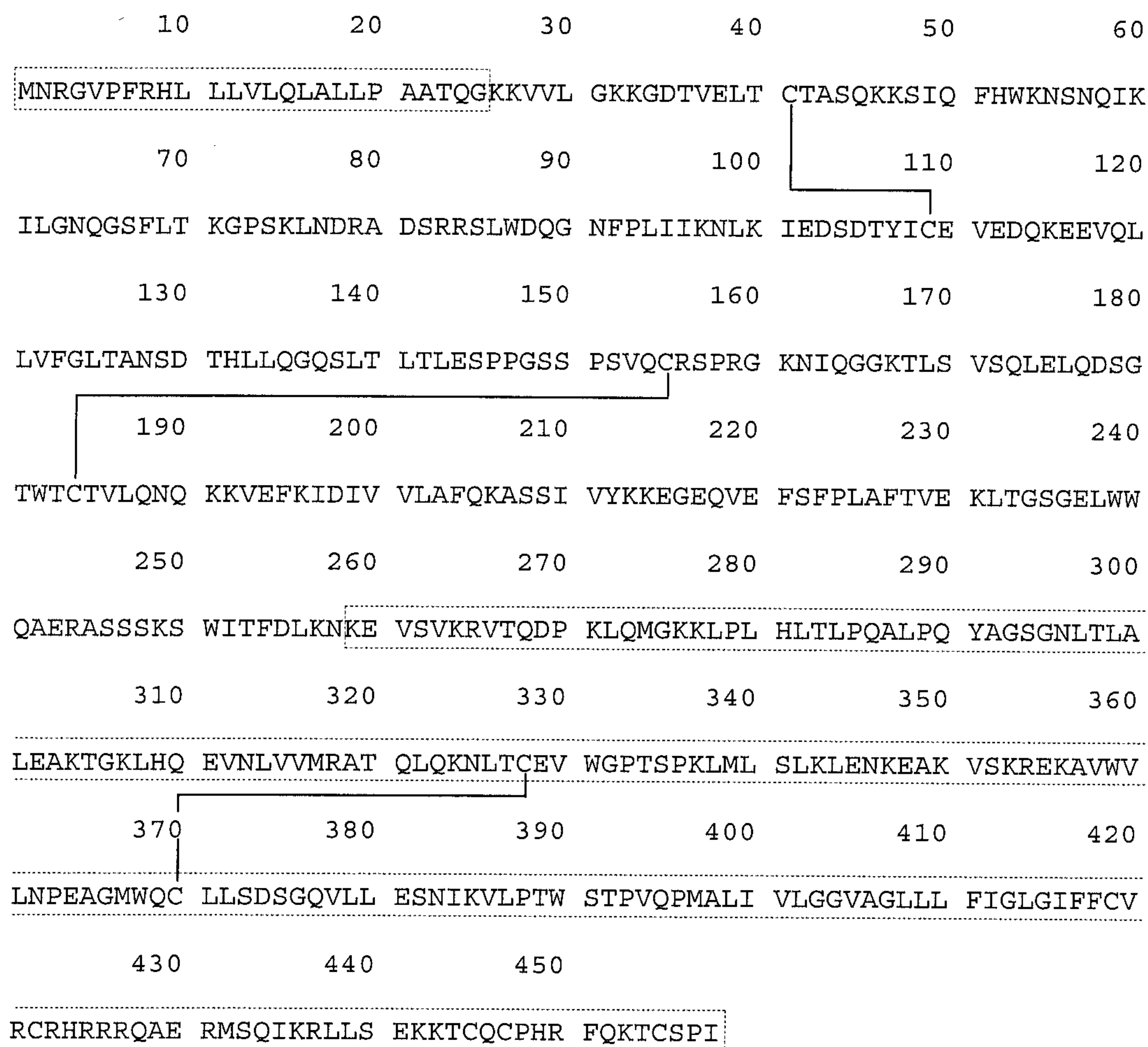
75. A CD4+CD25+ regulatory T cell activated with an antibody or antibody fragment according to any one of claims 39 to 53 for use in medicine.

76. A CD4+CD25+ regulatory T cell for use according to claim 75 wherein the use is the treatment of an autoimmune disease.

77. Use of a CD4+CD25+ regulatory T cell activated with an antibody or antibody fragment according to any one of claims 39 to 53 for the manufacture of a medicament for the treatment of an autoimmune disease or transplant rejection.

78. A kit for isolating CD4+CD25+ regulatory T cells comprising magnetic beads coated with the antibody or antibody fragment of any one of claims 39 to 53 and a second anti-CD4 antibody or an anti-CD25 antibody.

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not represented by
the crystal structure

Figure 1

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A. Light chain.

10	20	30	40	50	60
DIVMTQSPDS	LAVSLGERAT	INCRASKSVS	TSGYSYIYWY	QOKPGQPPKL	LIYLASILES
		CDR1			CDR2
70	80	90	100	110	120
GVPDRFSGSG	SGTDFTLTIS	SLQAEDVAVY	YCOHSRELPW	TFGQGTKVEI	KRTVAAPSVF
			CDR3		
130	140	150	160	170	180
IFPPSDEQLK	SGTASVVCLL	NNFYBREAKV	QWKVDNALQS	GNSQESVTEQ	DSKDSTYSLS
190	200	210			
STLTLSKADY	EKHKVYACEV	THQGLSSPVT	KSFNRGEC		

Figure 2A

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B. Heavy chain.

10	20	30	40	50	60
EEQLVESGGG	LVKPGGSLRL	SCAASGFSFS	DCRMYWLRQA	PGKGLEWIGV	ISVKSENYGA
70	80	90	100	110	120
NYAESVRGRF	TISRDDSKNT	VYLQMNSLKT	EDTAVYYCSA	SYRYDVGAW	FAYWGQGLV
130	140	150	160	170	180
TVSSASTKGP	SVFPLAPSSK	STSGGTAALG	CLVKDYFPEP	VTVSWNSGAL	TSGVHTFPAV
190	200	210	220	230	240
LQSSGLYSL	SVVTVPSSSL	GTQTYICNVN	HKPSNTKVDK	KVEPKSCDKT	HTCPPCPAPE
250	260	270	280	290	300
LLGGPSVFLF	PPKPKDTLMI	SRTPEVTCVV	VDVSHEDPEV	KFNWYVDGVE	VHNAKTKPRE
310	320	330	340	350	360
EQYNSTYRVV	SVLTVLHQDW	LNGKEYKCKV	SNKALPAPIE	KTISKAKGQP	REPQVYTLPP
370	380	390	400	410	420
SRDELTKNQV	SLTCLVKGFY	PSDIAVEWES	NGQPENNYKT	TPPVLDSDGS	FFLYSKLTVD
430	440	450			
KSRWQQGNVF	SCSVMHEALH	NHYTQKSLSL	SPGK		

not represented by
the crystal structure

Figure 2B

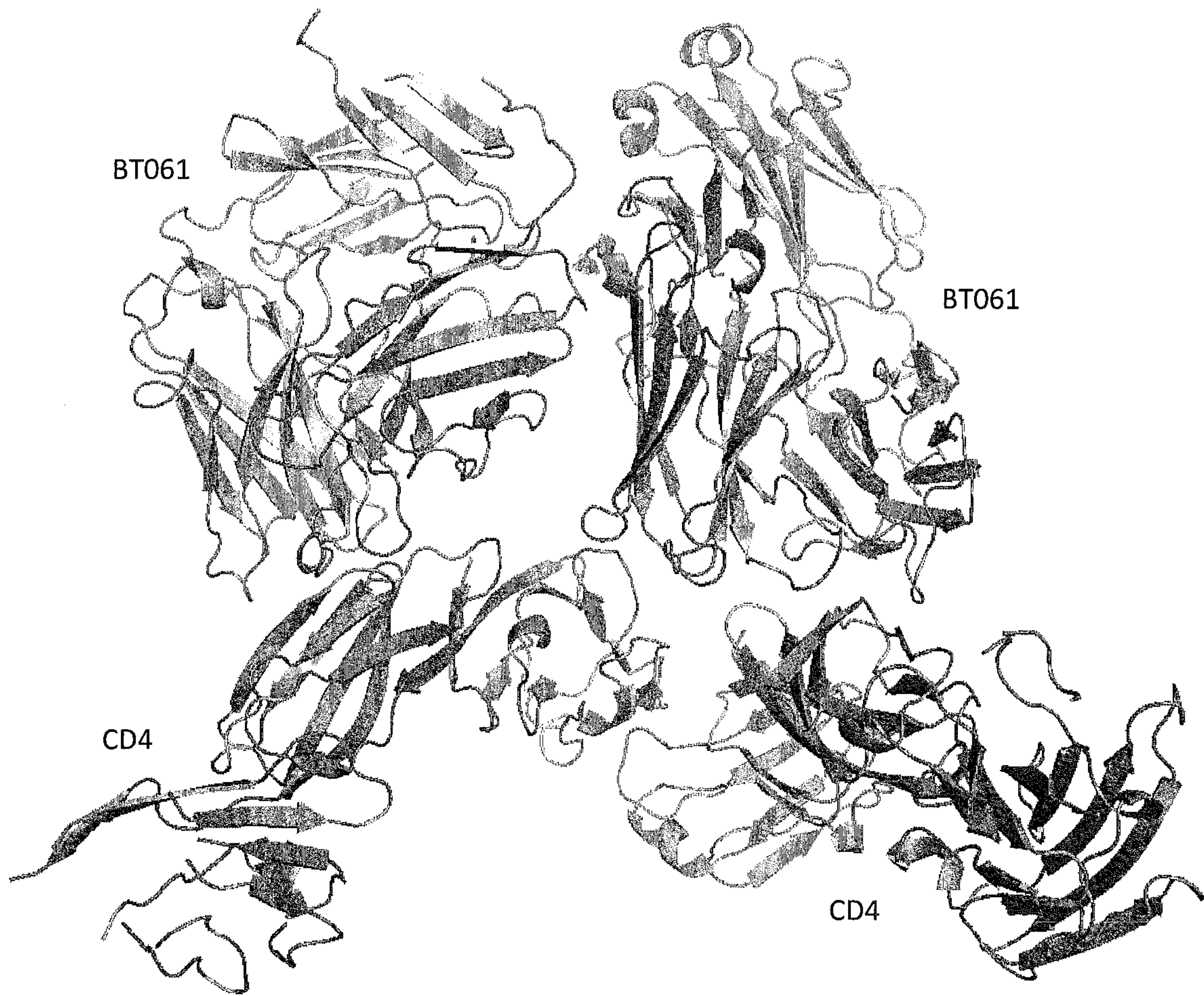


FIGURE 3

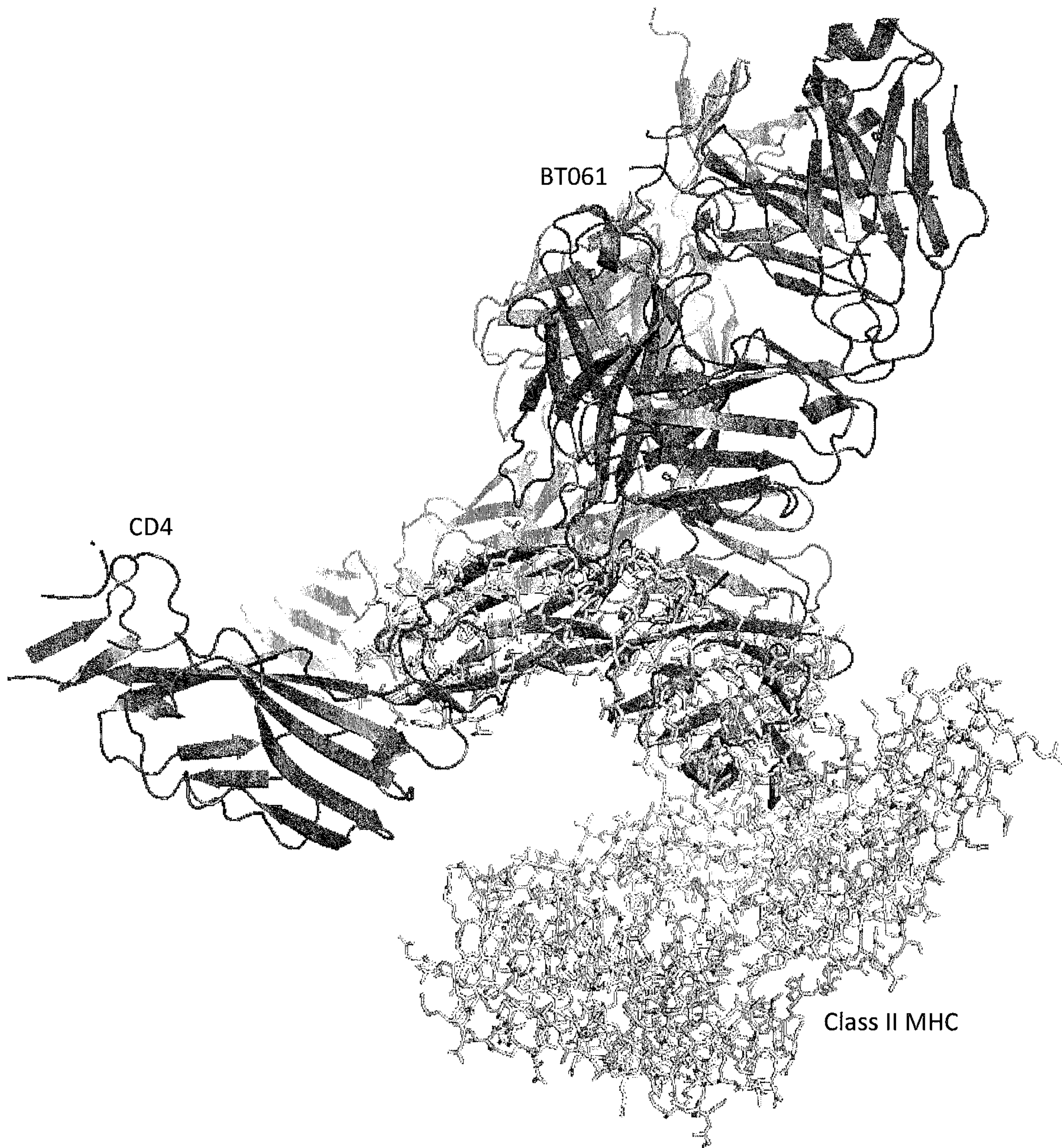


Figure 4

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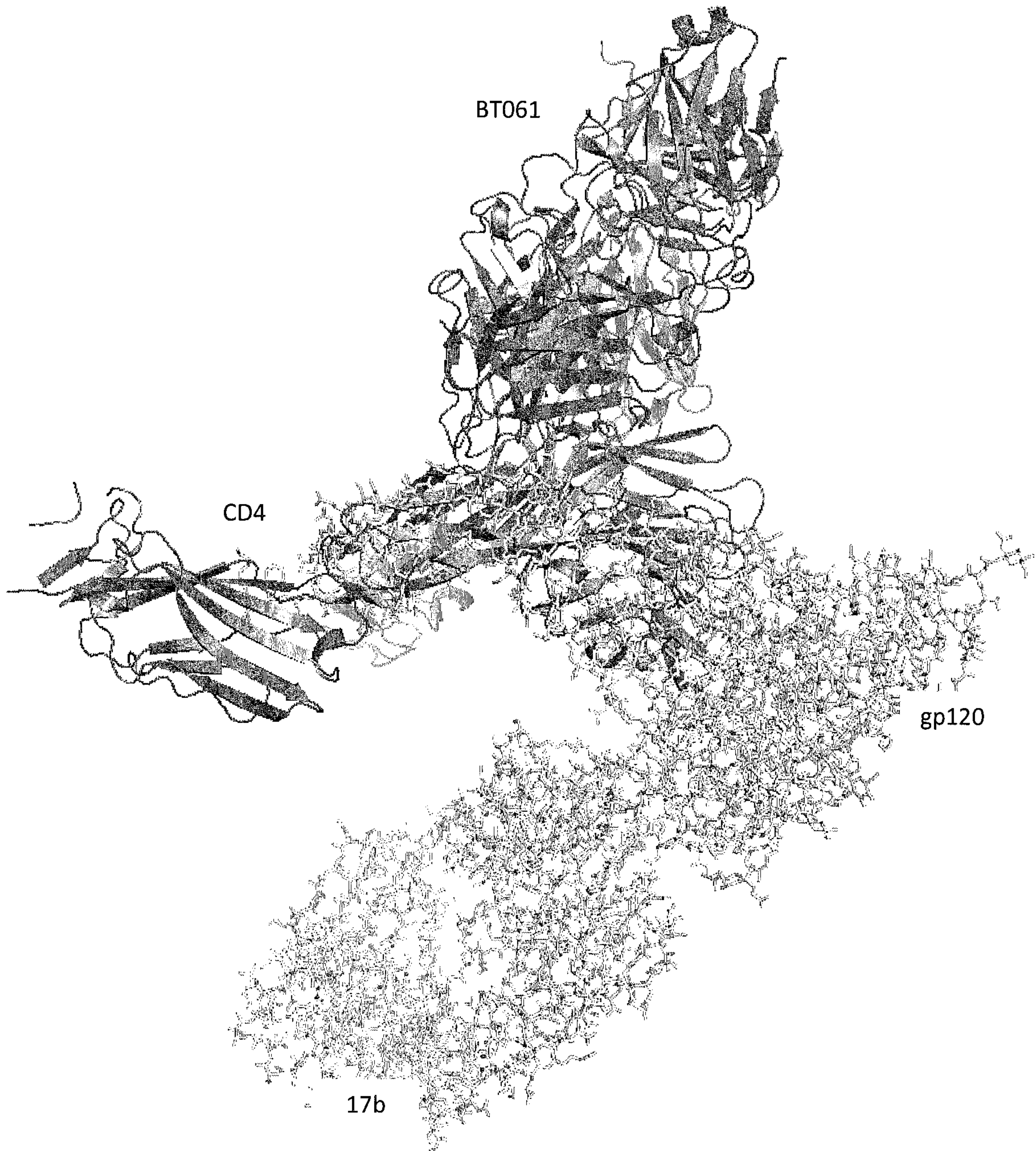
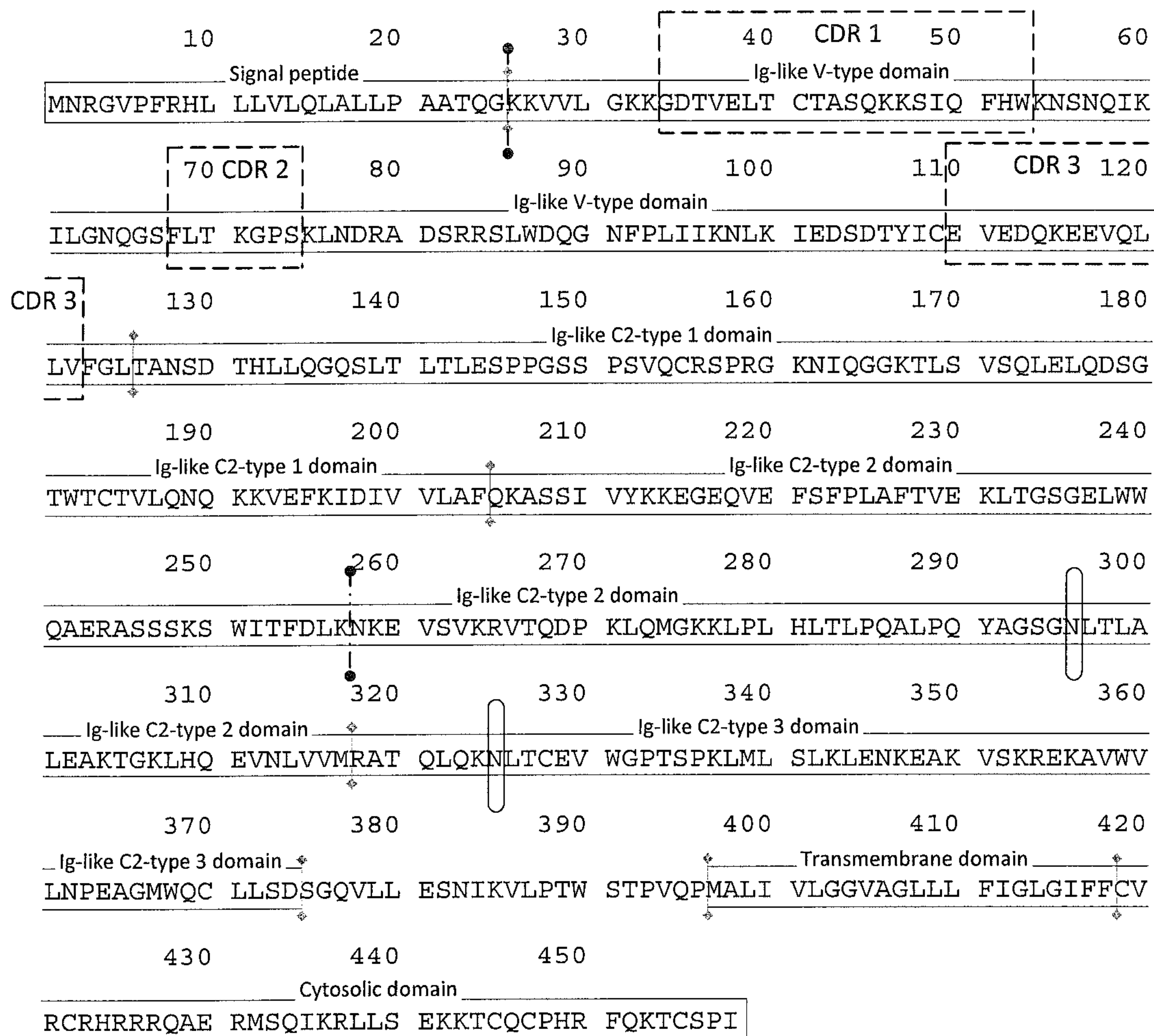


Figure 5

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Domain boundary Glycosylation site

← Proteros crystal structure →

Figure 6

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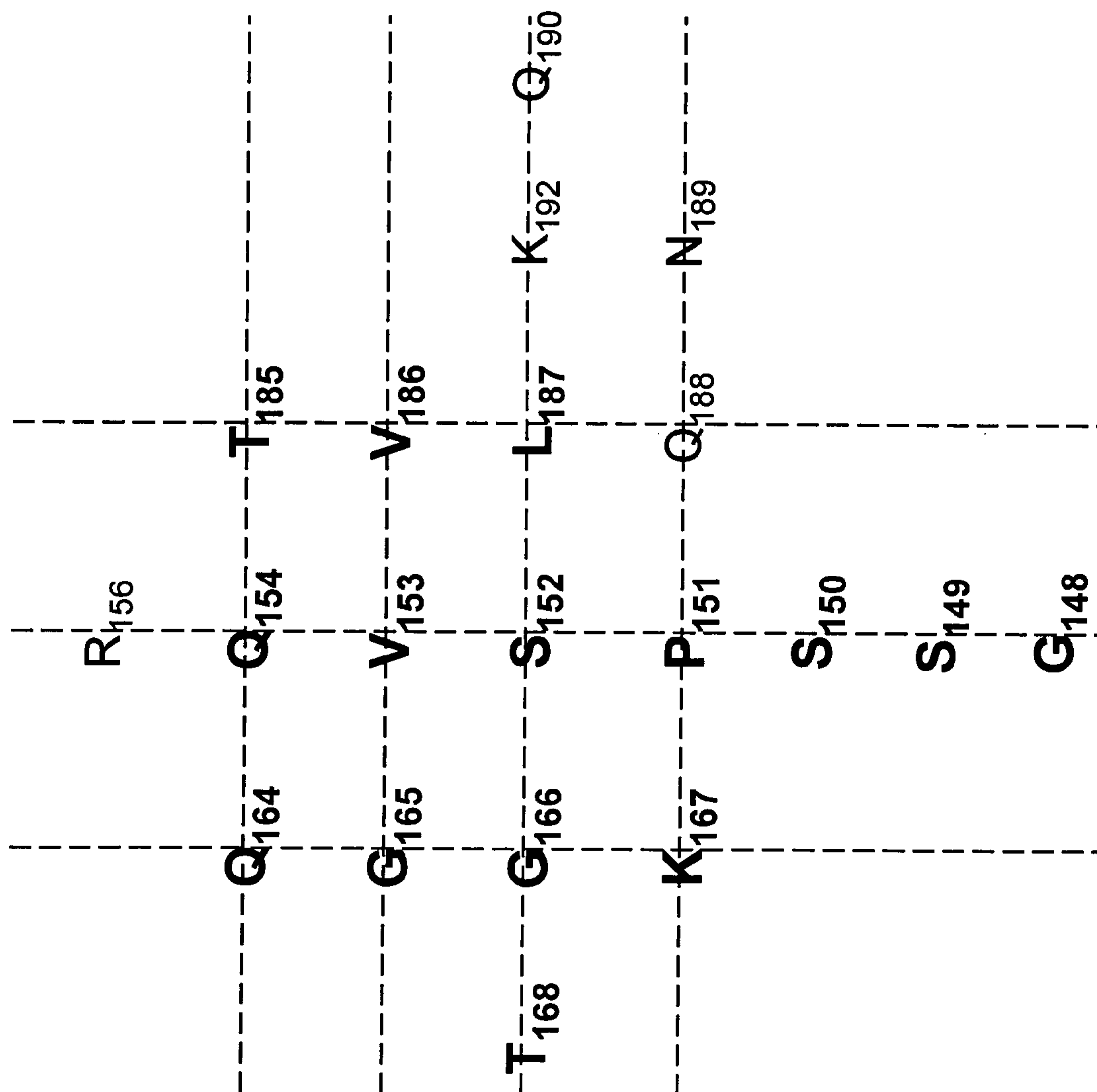


Figure 7

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10 20 30 40 50 60
 DIVMTQSPDS LAVSLGERAT INCRAASKSVS TSGYSYIYWY QOKPGQPPKL LIYLLASILES
 70 80 90 100 110 120
 GVPDRFSGSG SGTDFTLTIS SLQAEDVAVY YCOHSREL PW TFGQGTKVEI KRTVAAPSVF
 130 140 150 160 170 180
 IFPPSDEQLK SGTASVVCLL NNFYPREAKV QWKVDNALQS GNSQESVTEQ DSKDSTYSLS
 190 200 210
 STLTLKADY EKHKVYACEV THQGLSSPVT KSFNRGEC

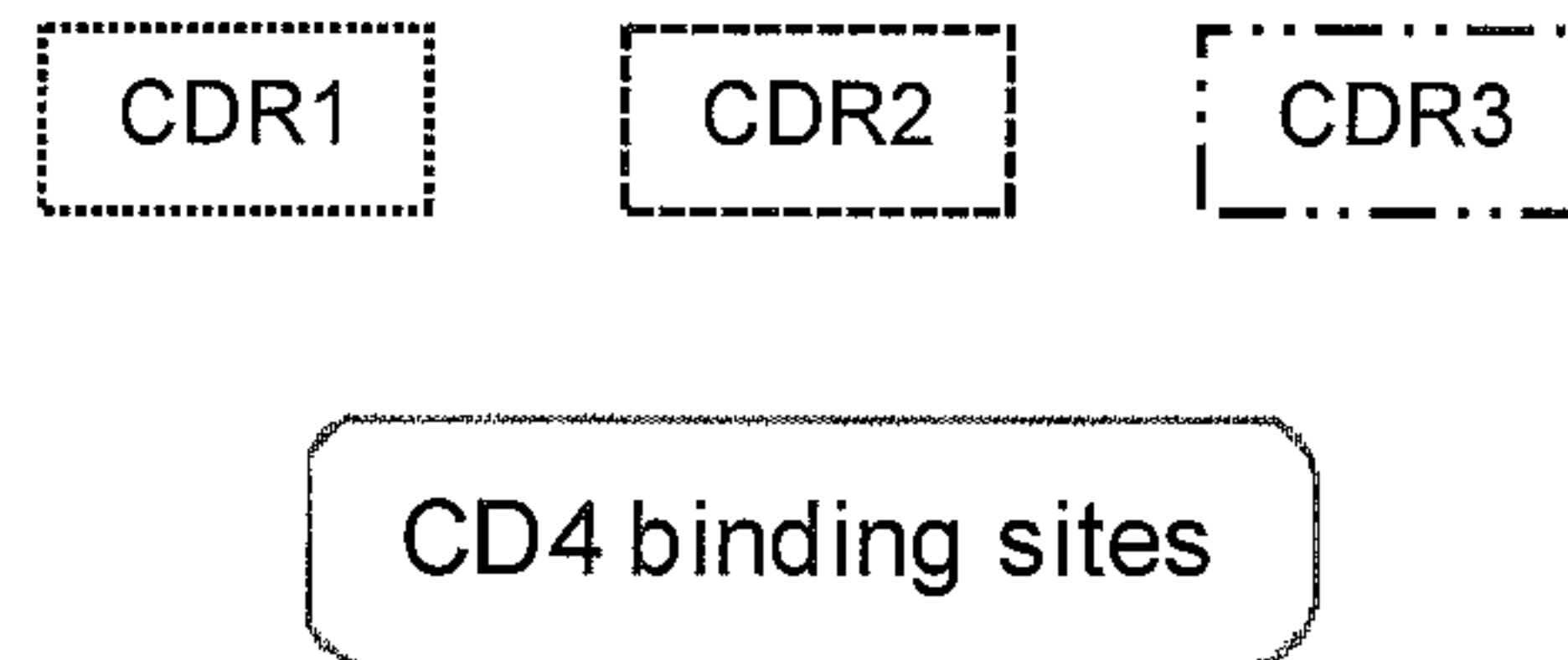


Figure 8

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10 20 30 40 50 60
 EEQLVESGGG LVKPGGSLRL SCAASGFSFS DCRMYWLRQA PGKGLEWIGV ISVKSENYGA

70 80 90 100 110 120
 NYAESVRGRF TISRDDSKNT VYLQMNSLKT EDTAVYYCSA SYRYDVGAW FAYWGQGLV

130 140 150 160 170 180
 TVSSASTKGP SVFPLAPSSK STSGGTAALG CLVKDYFPEP VTVSWNSGAL TSGVHTFPAV

190 200 210 220 230 240
 LQSSGLYSLV SVVTVPSSSL GTQTYICNVN HKPSNTKVDK KVEPKSCDKT HTCPPCPAPE

250 260 270 280 290 300
 LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE

310 320 330 340 350 360
 EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP

370 380 390 400 410 420
 SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSDGS FFLYSKLTVD

430 440 450
 KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGK



Figure 9

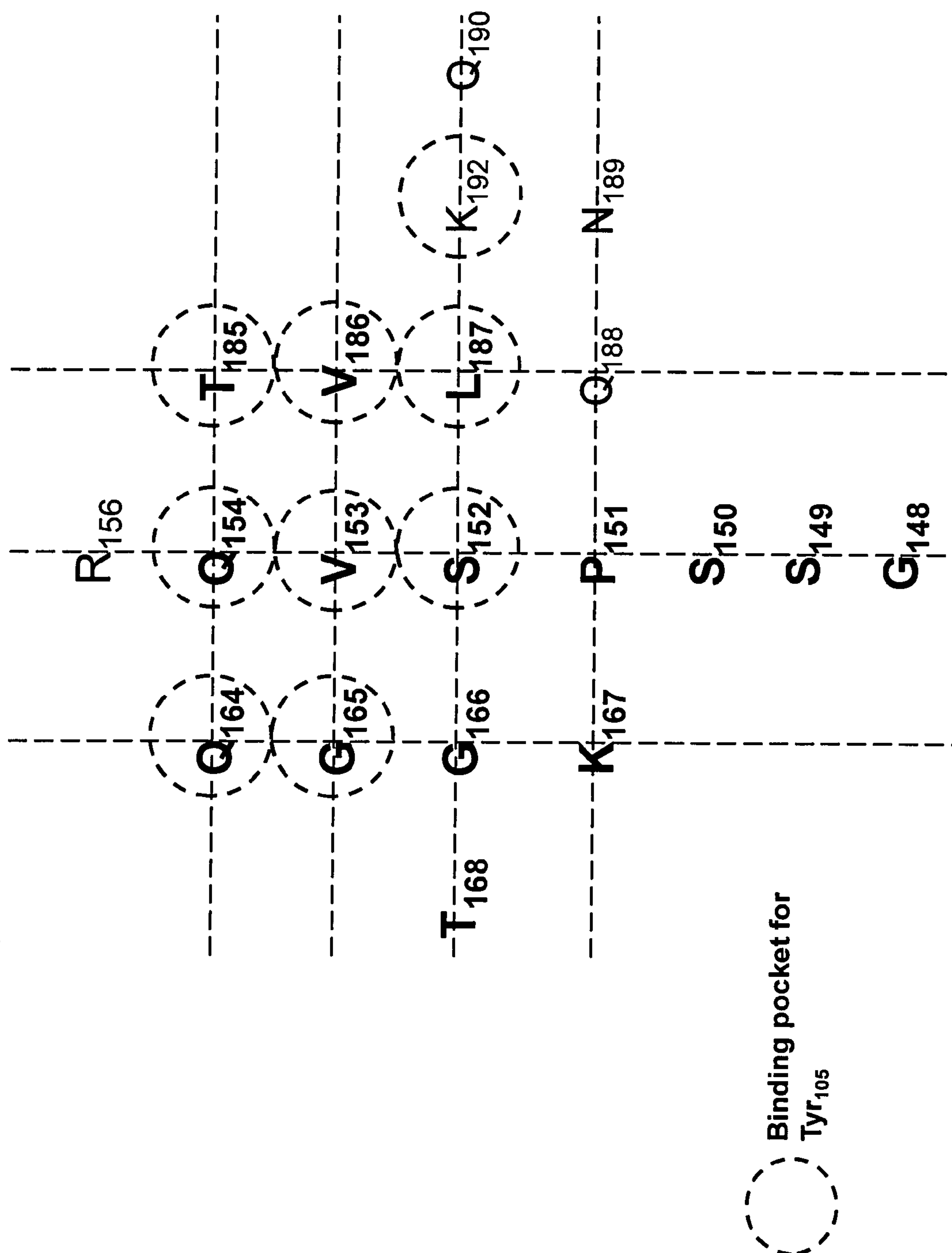


Figure 10

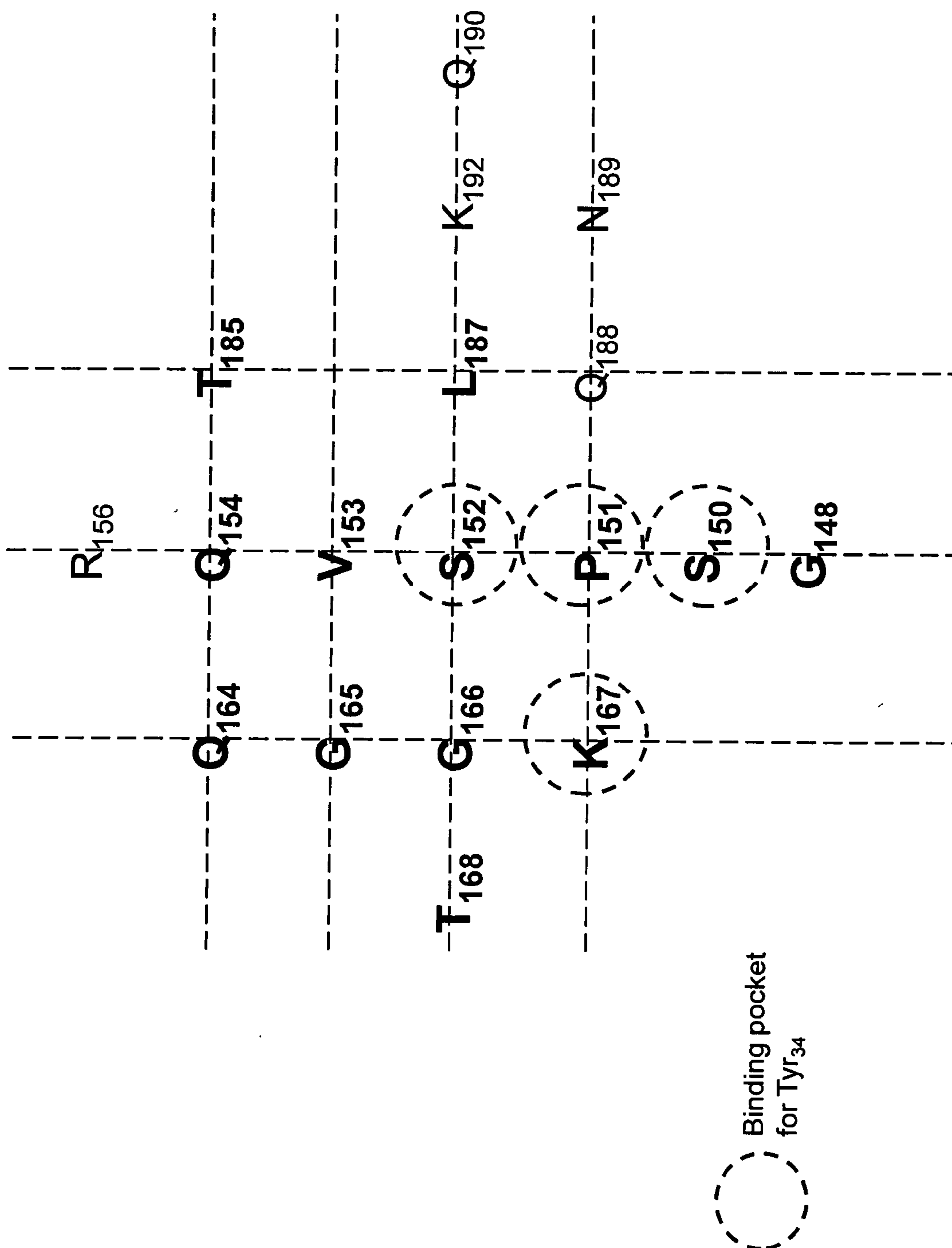


Figure 12

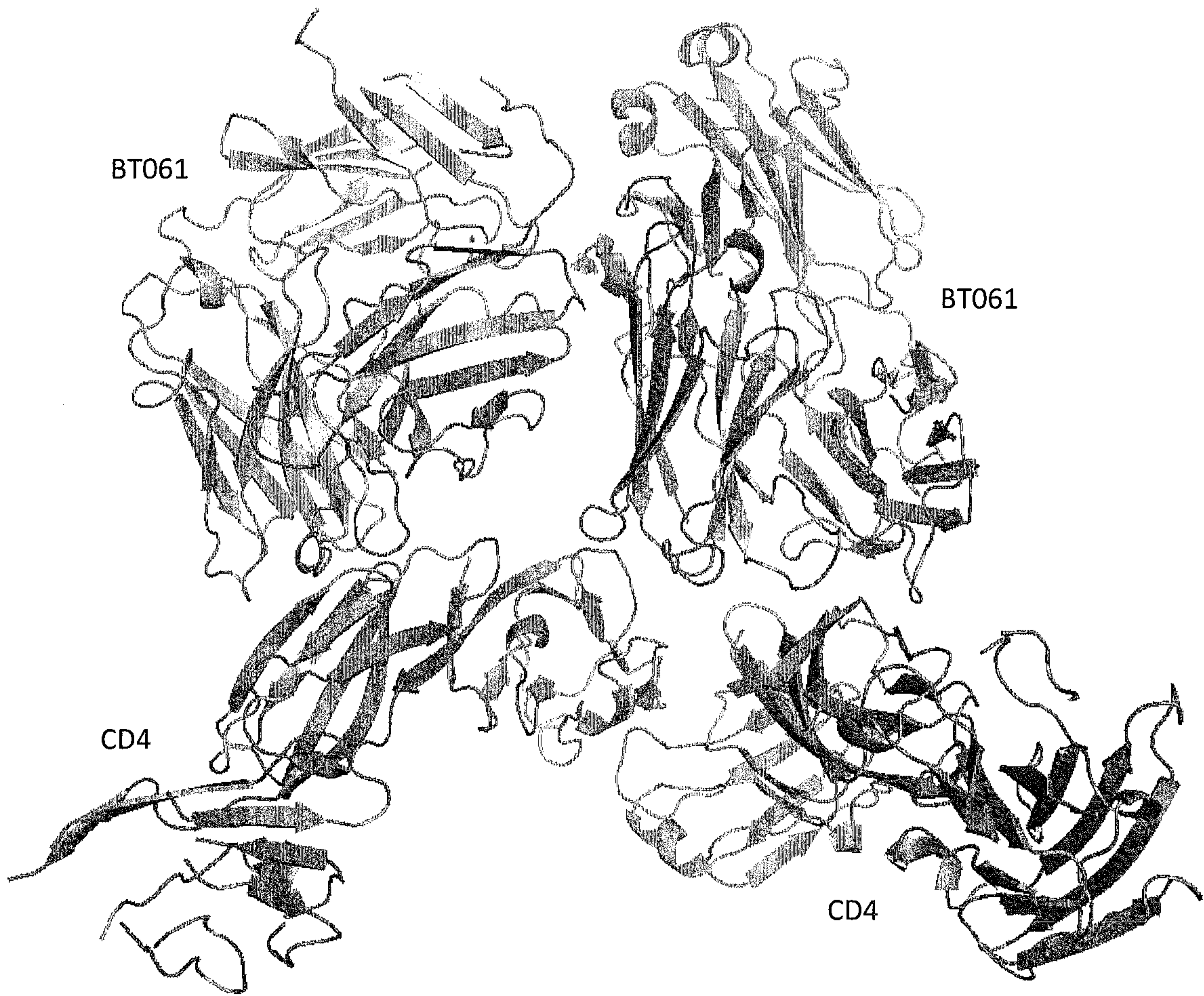


FIGURE 3