```
HEADER    TRANSFERASE/IMMUNE SYSTEM               26-APR-23   8SMN
TITLE     XENOPUS LAEVIS HYALURONAN SYNTHASE 1, NASCENT HA POLYMER BOUND STATE
COMPND    MOL_ID: 1;
COMPND   2 MOLECULE: HYALURONAN SYNTHASE 1;
COMPND   3 CHAIN: A;
COMPND   4 SYNONYM: DG42 PROTEIN,HYALURONATE SYNTHASE 1,HYALURONIC ACID SYNTHASE
COMPND   5 1,HA SYNTHASE 1,XHAS1;
COMPND   6 EC: 2.4.1.212;
COMPND   7 ENGINEERED: YES;
COMPND   8 MOL_ID: 2;
COMPND   9 MOLECULE: FAB15 HEAVY CHAIN;
COMPND  10 CHAIN: H;
COMPND  11 ENGINEERED: YES;
COMPND  12 MOL_ID: 3;
COMPND  13 MOLECULE: FAB15 LIGHT CHAIN;
COMPND  14 CHAIN: L;
COMPND  15 ENGINEERED: YES
SOURCE    MOL_ID: 1;
SOURCE   2 ORGANISM_SCIENTIFIC: XENOPUS LAEVIS;
SOURCE   3 ORGANISM_COMMON: AFRICAN CLAWED FROG;
SOURCE   4 ORGANISM_TAXID: 8355;
SOURCE   5 GENE: HAS1;
SOURCE   6 EXPRESSION_SYSTEM: SPODOPTERA FRUGIPERDA;
SOURCE   7 EXPRESSION_SYSTEM_TAXID: 7108;
SOURCE   8 MOL_ID: 2;
SOURCE   9 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE  10 ORGANISM_TAXID: 9606;
SOURCE  11 EXPRESSION_SYSTEM: SPODOPTERA FRUGIPERDA;
SOURCE  12 EXPRESSION_SYSTEM_TAXID: 7108;
SOURCE  13 MOL_ID: 3;
SOURCE  14 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE  15 ORGANISM_TAXID: 9606;
SOURCE  16 EXPRESSION_SYSTEM: SPODOPTERA FRUGIPERDA;
SOURCE  17 EXPRESSION_SYSTEM_TAXID: 7108
KEYWDS    HYALURONIC ACID, HYALURONAN, HA, HAS, GLYCOSYLTRANSFERASE, GT,
KEYWDS   2 MEMBRANE PROTEIN, FAB, TRANSFERASE-IMMUNE SYSTEM COMPLEX
EXPDTA    ELECTRON MICROSCOPY
AUTHOR    I.GORNIAK,J.ZIMMER
REVDAT   6   04-JUN-25 8SMN    1       REMARK
REVDAT   5   05-FEB-25 8SMN    1       JRNL
REVDAT   4   27-NOV-24 8SMN    1       REMARK
REVDAT   3   13-NOV-24 8SMN    1       JRNL
REVDAT   2   16-OCT-24 8SMN    1       REMARK
REVDAT   1   01-MAY-24 8SMN    0
JRNL        AUTH   I.GORNIAK,Z.STEPHENS,S.K.ERRAMILLI,T.GAWDA,A.A.KOSSIAKOFF,
JRNL        AUTH 2 J.ZIMMER
JRNL        TITL   STRUCTURAL INSIGHTS INTO TRANSLOCATION AND TAILORED
JRNL        TITL 2 SYNTHESIS OF HYALURONAN.
JRNL        REF    NAT.STRUCT.MOL.BIOL.          V.  32   161 2025
JRNL        REFN                   ESSN 1545-9985
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Halozyme EX2181
Merck v. Halozyme
PGR2025-00039

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JRNL        PMID   39322765
JRNL        DOI    10.1038/S41594-024-01389-1
REMARK   2
REMARK   2 RESOLUTION.    3.20 ANGSTROMS.
REMARK   3
REMARK   3 REFINEMENT.
REMARK   3   SOFTWARE PACKAGES      : CRYOSPARC, EPU, CRYOSPARC, PHENIX,
REMARK   3                            CRYOSPARC, CRYOSPARC, CRYOSPARC,
REMARK   3                            CRYOSPARC
REMARK   3   RECONSTRUCTION SCHEMA  : NULL
REMARK   3
REMARK   3 EM MAP-MODEL FITTING AND REFINEMENT
REMARK   3   PDB ENTRY                    : NULL
REMARK   3   REFINEMENT SPACE             : NULL
REMARK   3   REFINEMENT PROTOCOL          : RIGID BODY FIT
REMARK   3   REFINEMENT TARGET            : NULL
REMARK   3   OVERALL ANISOTROPIC B VALUE  : NULL
REMARK   3
REMARK   3 FITTING PROCEDURE : NULL
REMARK   3
REMARK   3 EM IMAGE RECONSTRUCTION STATISTICS
REMARK   3   NOMINAL PIXEL SIZE (ANGSTROMS)    : NULL
REMARK   3   ACTUAL PIXEL SIZE  (ANGSTROMS)    : NULL
REMARK   3   EFFECTIVE RESOLUTION (ANGSTROMS)  : 3.200
REMARK   3   NUMBER OF PARTICLES               : 171641
REMARK   3   CTF CORRECTION METHOD             : PHASE FLIPPING AND AMPLITUDE
REMARK   3                                       CORRECTION
REMARK   3
REMARK   3 EM RECONSTRUCTION MAGNIFICATION CALIBRATION: NULL
REMARK   3
REMARK   3 OTHER DETAILS: NULL
REMARK   4
REMARK   4 8SMN COMPLIES WITH FORMAT V. 3.30, 13-JUL-11
REMARK 100
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY RCSB ON 27-APR-23.
REMARK 100 THE DEPOSITION ID IS D_1000274096.
REMARK 245
REMARK 245 EXPERIMENTAL DETAILS
REMARK 245   RECONSTRUCTION METHOD          : SINGLE PARTICLE
REMARK 245   SPECIMEN TYPE                  : NULL
REMARK 245
REMARK 245 ELECTRON MICROSCOPE SAMPLE
REMARK 245   SAMPLE TYPE                    : PARTICLE
REMARK 245   PARTICLE TYPE                  : POINT
REMARK 245   NAME OF SAMPLE                 : XENOPUS LAEVIS HYALURONAN
REMARK 245                                    SYNTHASE 1 IN COMPLEX WITH A
REMARK 245                                    FAB MOLECULE, NASCENT HA
REMARK 245                                    POLYMER BOUND STATE
REMARK 245   SAMPLE CONCENTRATION (MG ML-1) : 8.00
REMARK 245   SAMPLE SUPPORT DETAILS         : NULL
```

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REMARK 245   SAMPLE VITRIFICATION DETAILS   : NULL
REMARK 245   SAMPLE BUFFER                  : NULL
REMARK 245   PH                             : 7.80
REMARK 245   SAMPLE DETAILS                 : NULL
REMARK 245
REMARK 245 DATA ACQUISITION
REMARK 245   DATE OF EXPERIMENT                : NULL
REMARK 245   NUMBER OF MICROGRAPHS-IMAGES      : NULL
REMARK 245   TEMPERATURE (KELVIN)              : NULL
REMARK 245   MICROSCOPE MODEL                  : FEI TITAN KRIOS
REMARK 245   DETECTOR TYPE                     : GATAN K3 (6K X 4K)
REMARK 245   MINIMUM DEFOCUS (NM)              : 10000.00
REMARK 245   MAXIMUM DEFOCUS (NM)              : 20000.00
REMARK 245   MINIMUM TILT ANGLE (DEGREES)      : NULL
REMARK 245   MAXIMUM TILT ANGLE (DEGREES)      : NULL
REMARK 245   NOMINAL CS                        : 2.70
REMARK 245   IMAGING MODE                      : BRIGHT FIELD
REMARK 245   ELECTRON DOSE (ELECTRONS NM**-2)  : 5000.00
REMARK 245   ILLUMINATION MODE                 : FLOOD BEAM
REMARK 245   NOMINAL MAGNIFICATION             : 81000
REMARK 245   CALIBRATED MAGNIFICATION          : NULL
REMARK 245   SOURCE                            : FIELD EMISSION GUN
REMARK 245   ACCELERATION VOLTAGE (KV)         : 300
REMARK 245   IMAGING DETAILS                   : NULL
REMARK 247
REMARK 247 ELECTRON MICROSCOPY
REMARK 247  THE COORDINATES IN THIS ENTRY WERE GENERATED FROM ELECTRON
REMARK 247  MICROSCOPY DATA. PROTEIN DATA BANK CONVENTIONS REQUIRE
REMARK 247  THAT CRYST1 AND SCALE RECORDS BE INCLUDED, BUT THE VALUES
REMARK 247  ON THESE RECORDS ARE MEANINGLESS EXCEPT FOR THE CALCULATION
REMARK 247  OF THE STRUCTURE FACTORS.
REMARK 300
REMARK 300 BIOMOLECULE: 1
REMARK 300 SEE REMARK 350 FOR THE AUTHOR PROVIDED AND/OR PROGRAM
REMARK 300 GENERATED ASSEMBLY INFORMATION FOR THE STRUCTURE IN
REMARK 300 THIS ENTRY. THE REMARK MAY ALSO PROVIDE INFORMATION ON
REMARK 300 BURIED SURFACE AREA.
REMARK 350
REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN
REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE
REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS
REMARK 350 GIVEN BELOW.  BOTH NON-CRYSTALLOGRAPHIC AND
REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.
REMARK 350
REMARK 350 BIOMOLECULE: 1
REMARK 350 AUTHOR DETERMINED BIOLOGICAL UNIT: TRIMERIC
REMARK 350 SOFTWARE DETERMINED QUATERNARY STRUCTURE: TRIMERIC
REMARK 350 SOFTWARE USED: PISA
REMARK 350 APPLY THE FOLLOWING TO CHAINS: A, H, L, B
REMARK 350   BIOMT1   1  1.000000  0.000000  0.000000        0.00000
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REMARK 350   BIOMT2   1  0.000000  1.000000  0.000000        0.00000
REMARK 350   BIOMT3   1  0.000000  0.000000  1.000000        0.00000
REMARK 465
REMARK 465 MISSING RESIDUES
REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE
REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 465 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)
REMARK 465
REMARK 465   M RES C SSSEQI
REMARK 465     MET A   -12
REMARK 465     HIS A   -11
REMARK 465     HIS A   -10
REMARK 465     HIS A    -9
REMARK 465     HIS A    -8
REMARK 465     HIS A    -7
REMARK 465     HIS A    -6
REMARK 465     HIS A    -5
REMARK 465     HIS A    -4
REMARK 465     HIS A    -3
REMARK 465     HIS A    -2
REMARK 465     HIS A    -1
REMARK 465     HIS A     0
REMARK 465     MET A     1
REMARK 465     LYS A     2
REMARK 465     GLU A     3
REMARK 465     LYS A     4
REMARK 465     ALA A     5
REMARK 465     ALA A     6
REMARK 465     GLU A     7
REMARK 465     THR A     8
REMARK 465     MET A     9
REMARK 465     GLU A    10
REMARK 465     ILE A    11
REMARK 465     PRO A    12
REMARK 465     GLU A    13
REMARK 465     GLY A    14
REMARK 465     VAL A   172
REMARK 465     LYS A   173
REMARK 465     LYS A   174
REMARK 465     PRO A   175
REMARK 465     GLU A   176
REMARK 465     GLU A   177
REMARK 465     THR A   178
REMARK 465     ASN A   179
REMARK 465     LYS A   180
REMARK 465     GLY A   181
REMARK 465     SER A   182
REMARK 465     CYS A   183
REMARK 465     PRO A   184
REMARK 465     GLU A   185
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REMARK 465     VAL A   186
REMARK 465     SER A   187
REMARK 465     LYS A   188
REMARK 465     PRO A   189
REMARK 465     LEU A   190
REMARK 465     ASN A   191
REMARK 465     GLU A   192
REMARK 465     ASP A   193
REMARK 465     THR A   489
REMARK 465     GLY A   490
REMARK 465     TRP A   491
REMARK 465     GLY A   492
REMARK 465     THR A   493
REMARK 465     SER A   494
REMARK 465     GLY A   495
REMARK 465     ARG A   496
REMARK 465     LYS A   497
REMARK 465     LYS A   498
REMARK 465     ILE A   499
REMARK 465     VAL A   500
REMARK 465     GLY A   501
REMARK 465     CYS A   569
REMARK 465     CYS A   570
REMARK 465     ARG A   571
REMARK 465     LYS A   572
REMARK 465     ARG A   573
REMARK 465     SER A   574
REMARK 465     GLN A   575
REMARK 465     THR A   576
REMARK 465     VAL A   577
REMARK 465     THR A   578
REMARK 465     LEU A   579
REMARK 465     VAL A   580
REMARK 465     HIS A   581
REMARK 465     ASP A   582
REMARK 465     ILE A   583
REMARK 465     PRO A   584
REMARK 465     ASP A   585
REMARK 465     MET A   586
REMARK 465     CYS A   587
REMARK 465     VAL A   588
REMARK 465     GLU H     1
REMARK 465     ILE H     2
REMARK 465     ALA H   127
REMARK 465     SER H   128
REMARK 465     THR H   129
REMARK 465     LYS H   130
REMARK 465     GLY H   131
REMARK 465     PRO H   132
REMARK 465     SER H   133
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REMARK 465     VAL H   134
REMARK 465     PHE H   135
REMARK 465     PRO H   136
REMARK 465     LEU H   137
REMARK 465     ALA H   138
REMARK 465     PRO H   139
REMARK 465     SER H   140
REMARK 465     SER H   141
REMARK 465     LYS H   142
REMARK 465     SER H   143
REMARK 465     THR H   144
REMARK 465     SER H   145
REMARK 465     GLY H   146
REMARK 465     GLY H   147
REMARK 465     THR H   148
REMARK 465     ALA H   149
REMARK 465     ALA H   150
REMARK 465     LEU H   151
REMARK 465     GLY H   152
REMARK 465     CYS H   153
REMARK 465     LEU H   154
REMARK 465     VAL H   155
REMARK 465     LYS H   156
REMARK 465     ASP H   157
REMARK 465     TYR H   158
REMARK 465     PHE H   159
REMARK 465     PRO H   160
REMARK 465     GLU H   161
REMARK 465     PRO H   162
REMARK 465     VAL H   163
REMARK 465     THR H   164
REMARK 465     VAL H   165
REMARK 465     SER H   166
REMARK 465     TRP H   167
REMARK 465     ASN H   168
REMARK 465     SER H   169
REMARK 465     GLY H   170
REMARK 465     ALA H   171
REMARK 465     LEU H   172
REMARK 465     THR H   173
REMARK 465     SER H   174
REMARK 465     GLY H   175
REMARK 465     VAL H   176
REMARK 465     HIS H   177
REMARK 465     THR H   178
REMARK 465     PHE H   179
REMARK 465     PRO H   180
REMARK 465     ALA H   181
REMARK 465     VAL H   182
REMARK 465     LEU H   183
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REMARK 465     GLN H   184
REMARK 465     SER H   185
REMARK 465     SER H   186
REMARK 465     GLY H   187
REMARK 465     LEU H   188
REMARK 465     TYR H   189
REMARK 465     SER H   190
REMARK 465     LEU H   191
REMARK 465     SER H   192
REMARK 465     SER H   193
REMARK 465     VAL H   194
REMARK 465     VAL H   195
REMARK 465     THR H   196
REMARK 465     VAL H   197
REMARK 465     PRO H   198
REMARK 465     SER H   199
REMARK 465     SER H   200
REMARK 465     SER H   201
REMARK 465     LEU H   202
REMARK 465     GLY H   203
REMARK 465     THR H   204
REMARK 465     GLN H   205
REMARK 465     THR H   206
REMARK 465     TYR H   207
REMARK 465     ILE H   208
REMARK 465     CYS H   209
REMARK 465     ASN H   210
REMARK 465     VAL H   211
REMARK 465     ASN H   212
REMARK 465     HIS H   213
REMARK 465     LYS H   214
REMARK 465     PRO H   215
REMARK 465     SER H   216
REMARK 465     ASN H   217
REMARK 465     THR H   218
REMARK 465     LYS H   219
REMARK 465     VAL H   220
REMARK 465     ASP H   221
REMARK 465     LYS H   222
REMARK 465     LYS H   223
REMARK 465     VAL H   224
REMARK 465     GLU H   225
REMARK 465     PRO H   226
REMARK 465     LYS H   227
REMARK 465     SER H   228
REMARK 465     CYS H   229
REMARK 465     ASP H   230
REMARK 465     LYS H   231
REMARK 465     THR H   232
REMARK 465     HIS H   233
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REMARK 465     THR H   234
REMARK 465     SER L     1
REMARK 465     ASP L     2
REMARK 465     ARG L   109
REMARK 465     THR L   110
REMARK 465     VAL L   111
REMARK 465     ALA L   112
REMARK 465     ALA L   113
REMARK 465     PRO L   114
REMARK 465     SER L   115
REMARK 465     VAL L   116
REMARK 465     PHE L   117
REMARK 465     ILE L   118
REMARK 465     PHE L   119
REMARK 465     PRO L   120
REMARK 465     PRO L   121
REMARK 465     SER L   122
REMARK 465     ASP L   123
REMARK 465     SER L   124
REMARK 465     GLN L   125
REMARK 465     LEU L   126
REMARK 465     LYS L   127
REMARK 465     SER L   128
REMARK 465     GLY L   129
REMARK 465     THR L   130
REMARK 465     ALA L   131
REMARK 465     SER L   132
REMARK 465     VAL L   133
REMARK 465     VAL L   134
REMARK 465     CYS L   135
REMARK 465     LEU L   136
REMARK 465     LEU L   137
REMARK 465     ASN L   138
REMARK 465     ASN L   139
REMARK 465     PHE L   140
REMARK 465     TYR L   141
REMARK 465     PRO L   142
REMARK 465     ARG L   143
REMARK 465     GLU L   144
REMARK 465     ALA L   145
REMARK 465     LYS L   146
REMARK 465     VAL L   147
REMARK 465     GLN L   148
REMARK 465     TRP L   149
REMARK 465     LYS L   150
REMARK 465     VAL L   151
REMARK 465     ASP L   152
REMARK 465     ASN L   153
REMARK 465     ALA L   154
REMARK 465     LEU L   155
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REMARK 465     GLN L   156
REMARK 465     SER L   157
REMARK 465     GLY L   158
REMARK 465     ASN L   159
REMARK 465     SER L   160
REMARK 465     GLN L   161
REMARK 465     GLU L   162
REMARK 465     SER L   163
REMARK 465     VAL L   164
REMARK 465     THR L   165
REMARK 465     GLU L   166
REMARK 465     GLN L   167
REMARK 465     ASP L   168
REMARK 465     SER L   169
REMARK 465     LYS L   170
REMARK 465     ASP L   171
REMARK 465     SER L   172
REMARK 465     THR L   173
REMARK 465     TYR L   174
REMARK 465     SER L   175
REMARK 465     LEU L   176
REMARK 465     SER L   177
REMARK 465     SER L   178
REMARK 465     THR L   179
REMARK 465     LEU L   180
REMARK 465     THR L   181
REMARK 465     LEU L   182
REMARK 465     SER L   183
REMARK 465     LYS L   184
REMARK 465     ALA L   185
REMARK 465     ASP L   186
REMARK 465     TYR L   187
REMARK 465     GLU L   188
REMARK 465     LYS L   189
REMARK 465     HIS L   190
REMARK 465     LYS L   191
REMARK 465     VAL L   192
REMARK 465     TYR L   193
REMARK 465     ALA L   194
REMARK 465     CYS L   195
REMARK 465     GLU L   196
REMARK 465     VAL L   197
REMARK 465     THR L   198
REMARK 465     HIS L   199
REMARK 465     GLN L   200
REMARK 465     GLY L   201
REMARK 465     LEU L   202
REMARK 465     SER L   203
REMARK 465     SER L   204
REMARK 465     PRO L   205
```

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REMARK 465     VAL L   206
REMARK 465     THR L   207
REMARK 465     LYS L   208
REMARK 465     SER L   209
REMARK 465     PHE L   210
REMARK 465     ASN L   211
REMARK 465     ARG L   212
REMARK 465     GLY L   213
REMARK 465     GLU L   214
REMARK 465     CYS L   215
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: TORSION ANGLES
REMARK 500
REMARK 500 TORSION ANGLES OUTSIDE THE EXPECTED RAMACHANDRAN REGIONS:
REMARK 500 (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER;
REMARK 500 SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT:(10X,I3,1X,A3,1X,A1,I4,A1,4X,F7.2,3X,F7.2)
REMARK 500
REMARK 500 EXPECTED VALUES: GJ KLEYWEGT AND TA JONES (1996). PHI/PSI-
REMARK 500 CHOLOGY: RAMACHANDRAN REVISITED. STRUCTURE 4, 1395 - 1400
REMARK 500
REMARK 500  M RES CSSEQI        PSI       PHI
REMARK 500    SER A  95      -10.00    -57.23
REMARK 500    GLN A 108       32.98   -146.71
REMARK 500    GLU A 142       -7.03     71.64
REMARK 500    VAL A 294      -62.56   -123.30
REMARK 500    LEU A 373      -15.62     72.94
REMARK 500    PRO A 505        5.57    -68.78
REMARK 500    GLN H 118     -168.50    -78.35
REMARK 500    VAL L  30      -62.29    -90.78
REMARK 500    SER L  31       44.00   -140.83
REMARK 500    ALA L  52       -5.07     68.28
REMARK 500    ALA L  85     -168.92   -162.75
REMARK 500    SER L  95       -4.93     72.87
REMARK 500
REMARK 500 REMARK: NULL
REMARK 900
REMARK 900 RELATED ENTRIES
REMARK 900 RELATED ID: EMD-40591   RELATED DB: EMDB
REMARK 900 APO STATE
REMARK 900 RELATED ID: EMD-40594   RELATED DB: EMDB
REMARK 900 XENOPUS LAEVIS HYALURONAN SYNTHASE 1, NASCENT HA POLYMER BOUND STATE
REMARK 900 RELATED ID: EMD-40598   RELATED DB: EMDB
REMARK 900 UDP-BOUND STATE
DBREF  8SMN A    1   588  UNP    P13563   HYAS1_XENLA      1    588
DBREF  8SMN H    1   234  PDB    8SMN     8SMN             1    234
DBREF  8SMN L    1   215  PDB    8SMN     8SMN             1    215
```

```
SEQADV 8SMN MET A  -12  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A  -11  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A  -10  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -9  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -8  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -7  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -6  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -5  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -4  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -3  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -2  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A   -1  UNP  P13563              EXPRESSION TAG
SEQADV 8SMN HIS A    0  UNP  P13563              EXPRESSION TAG
SEQRES   1 A  601  MET HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS
SEQRES   2 A  601  MET LYS GLU LYS ALA ALA GLU THR MET GLU ILE PRO GLU
SEQRES   3 A  601  GLY ILE PRO LYS ASP LEU GLU PRO LYS HIS PRO THR LEU
SEQRES   4 A  601  TRP ARG ILE ILE TYR TYR SER PHE GLY VAL VAL LEU LEU
SEQRES   5 A  601  ALA THR ILE THR ALA ALA TYR VAL ALA GLU PHE GLN VAL
SEQRES   6 A  601  LEU LYS HIS GLU ALA ILE LEU PHE SER LEU GLY LEU TYR
SEQRES   7 A  601  GLY LEU ALA MET LEU LEU HIS LEU MET MET GLN SER LEU
SEQRES   8 A  601  PHE ALA PHE LEU GLU ILE ARG ARG VAL ASN LYS SER GLU
SEQRES   9 A  601  LEU PRO CYS SER PHE LYS LYS THR VAL ALA LEU THR ILE
SEQRES  10 A  601  ALA GLY TYR GLN GLU ASN PRO GLU TYR LEU ILE LYS CYS
SEQRES  11 A  601  LEU GLU SER CYS LYS TYR VAL LYS TYR PRO LYS ASP LYS
SEQRES  12 A  601  LEU LYS ILE ILE LEU VAL ILE ASP GLY ASN THR GLU ASP
SEQRES  13 A  601  ASP ALA TYR MET MET GLU MET PHE LYS ASP VAL PHE HIS
SEQRES  14 A  601  GLY GLU ASP VAL GLY THR TYR VAL TRP LYS GLY ASN TYR
SEQRES  15 A  601  HIS THR VAL LYS LYS PRO GLU GLU THR ASN LYS GLY SER
SEQRES  16 A  601  CYS PRO GLU VAL SER LYS PRO LEU ASN GLU ASP GLU GLY
SEQRES  17 A  601  ILE ASN MET VAL GLU GLU LEU VAL ARG ASN LYS ARG CYS
SEQRES  18 A  601  VAL CYS ILE MET GLN GLN TRP GLY GLY LYS ARG GLU VAL
SEQRES  19 A  601  MET TYR THR ALA PHE GLN ALA ILE GLY THR SER VAL ASP
SEQRES  20 A  601  TYR VAL GLN VAL CYS ASP SER ASP THR LYS LEU ASP GLU
SEQRES  21 A  601  LEU ALA THR VAL GLU MET VAL LYS VAL LEU GLU SER ASN
SEQRES  22 A  601  ASP MET TYR GLY ALA VAL GLY GLY ASP VAL ARG ILE LEU
SEQRES  23 A  601  ASN PRO TYR ASP SER PHE ILE SER PHE MET SER SER LEU
SEQRES  24 A  601  ARG TYR TRP MET ALA PHE ASN VAL GLU ARG ALA CYS GLN
SEQRES  25 A  601  SER TYR PHE ASP CYS VAL SER CYS ILE SER GLY PRO LEU
SEQRES  26 A  601  GLY MET TYR ARG ASN ASN ILE LEU GLN VAL PHE LEU GLU
SEQRES  27 A  601  ALA TRP TYR ARG GLN LYS PHE LEU GLY THR TYR CYS THR
SEQRES  28 A  601  LEU GLY ASP ASP ARG HIS LEU THR ASN ARG VAL LEU SER
SEQRES  29 A  601  MET GLY TYR ARG THR LYS TYR THR HIS LYS SER ARG ALA
SEQRES  30 A  601  PHE SER GLU THR PRO SER LEU TYR LEU ARG TRP LEU ASN
SEQRES  31 A  601  GLN GLN THR ARG TRP THR LYS SER TYR PHE ARG GLU TRP
SEQRES  32 A  601  LEU TYR ASN ALA GLN TRP TRP HIS LYS HIS HIS ILE TRP
SEQRES  33 A  601  MET THR TYR GLU SER VAL VAL SER PHE ILE PHE PRO PHE
SEQRES  34 A  601  PHE ILE THR ALA THR VAL ILE ARG LEU ILE TYR ALA GLY
SEQRES  35 A  601  THR ILE TRP ASN VAL VAL TRP LEU LEU LEU CYS ILE GLN
SEQRES  36 A  601  ILE MET SER LEU PHE LYS SER ILE TYR ALA CYS TRP LEU
SEQRES  37 A  601  ARG GLY ASN PHE ILE MET LEU LEU MET SER LEU TYR SER
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SEQRES  38 A  601  MET LEU TYR MET THR GLY LEU LEU PRO SER LYS TYR PHE
SEQRES  39 A  601  ALA LEU LEU THR LEU ASN LYS THR GLY TRP GLY THR SER
SEQRES  40 A  601  GLY ARG LYS LYS ILE VAL GLY ASN TYR MET PRO ILE LEU
SEQRES  41 A  601  PRO LEU SER ILE TRP ALA ALA VAL LEU CYS GLY GLY VAL
SEQRES  42 A  601  GLY TYR SER ILE TYR MET ASP CYS GLN ASN ASP TRP SER
SEQRES  43 A  601  THR PRO GLU LYS GLN LYS GLU MET TYR HIS LEU LEU TYR
SEQRES  44 A  601  GLY CYS VAL GLY TYR VAL MET TYR TRP VAL ILE MET ALA
SEQRES  45 A  601  VAL MET TYR TRP VAL TRP VAL LYS ARG CYS CYS ARG LYS
SEQRES  46 A  601  ARG SER GLN THR VAL THR LEU VAL HIS ASP ILE PRO ASP
SEQRES  47 A  601  MET CYS VAL
SEQRES   1 H  234  GLU ILE SER GLU VAL GLN LEU VAL GLU SER GLY GLY GLY
SEQRES   2 H  234  LEU VAL GLN PRO GLY GLY SER LEU ARG LEU SER CYS ALA
SEQRES   3 H  234  ALA SER GLY PHE ASN VAL SER SER TYR TYR ILE HIS TRP
SEQRES   4 H  234  VAL ARG GLN ALA PRO GLY LYS GLY LEU GLU TRP VAL ALA
SEQRES   5 H  234  SER ILE SER SER SER SER GLY SER THR SER TYR ALA ASP
SEQRES   6 H  234  SER VAL LYS GLY ARG PHE THR ILE SER ALA ASP THR SER
SEQRES   7 H  234  LYS ASN THR ALA TYR LEU GLN MET ASN SER LEU ARG ALA
SEQRES   8 H  234  GLU ASP THR ALA VAL TYR TYR CYS ALA ARG SER GLY TYR
SEQRES   9 H  234  TYR TRP GLY PRO TYR PHE GLY GLY PHE ASP TYR TRP GLY
SEQRES  10 H  234  GLN GLY THR LEU VAL THR VAL SER SER ALA SER THR LYS
SEQRES  11 H  234  GLY PRO SER VAL PHE PRO LEU ALA PRO SER SER LYS SER
SEQRES  12 H  234  THR SER GLY GLY THR ALA ALA LEU GLY CYS LEU VAL LYS
SEQRES  13 H  234  ASP TYR PHE PRO GLU PRO VAL THR VAL SER TRP ASN SER
SEQRES  14 H  234  GLY ALA LEU THR SER GLY VAL HIS THR PHE PRO ALA VAL
SEQRES  15 H  234  LEU GLN SER SER GLY LEU TYR SER LEU SER SER VAL VAL
SEQRES  16 H  234  THR VAL PRO SER SER SER LEU GLY THR GLN THR TYR ILE
SEQRES  17 H  234  CYS ASN VAL ASN HIS LYS PRO SER ASN THR LYS VAL ASP
SEQRES  18 H  234  LYS LYS VAL GLU PRO LYS SER CYS ASP LYS THR HIS THR
SEQRES   1 L  215  SER ASP ILE GLN MET THR GLN SER PRO SER SER LEU SER
SEQRES   2 L  215  ALA SER VAL GLY ASP ARG VAL THR ILE THR CYS ARG ALA
SEQRES   3 L  215  SER GLN SER VAL SER SER ALA VAL ALA TRP TYR GLN GLN
SEQRES   4 L  215  LYS PRO GLY LYS ALA PRO LYS LEU LEU ILE TYR SER ALA
SEQRES   5 L  215  SER SER LEU TYR SER GLY VAL PRO SER ARG PHE SER GLY
SEQRES   6 L  215  SER ARG SER GLY THR ASP PHE THR LEU THR ILE SER SER
SEQRES   7 L  215  LEU GLN PRO GLU ASP PHE ALA THR TYR TYR CYS GLN GLN
SEQRES   8 L  215  SER SER SER SER LEU ILE THR PHE GLY GLN GLY THR LYS
SEQRES   9 L  215  VAL GLU ILE LYS ARG THR VAL ALA ALA PRO SER VAL PHE
SEQRES  10 L  215  ILE PHE PRO PRO SER ASP SER GLN LEU LYS SER GLY THR
SEQRES  11 L  215  ALA SER VAL VAL CYS LEU LEU ASN ASN PHE TYR PRO ARG
SEQRES  12 L  215  GLU ALA LYS VAL GLN TRP LYS VAL ASP ASN ALA LEU GLN
SEQRES  13 L  215  SER GLY ASN SER GLN GLU SER VAL THR GLU GLN ASP SER
SEQRES  14 L  215  LYS ASP SER THR TYR SER LEU SER SER THR LEU THR LEU
SEQRES  15 L  215  SER LYS ALA ASP TYR GLU LYS HIS LYS VAL TYR ALA CYS
SEQRES  16 L  215  GLU VAL THR HIS GLN GLY LEU SER SER PRO VAL THR LYS
SEQRES  17 L  215  SER PHE ASN ARG GLY GLU CYS
HET    NAG  B   1      15
HET    BDP  B   2      12
HET    NAG  B   3      14
HET    BDP  B   4      12
HET    NAG  B   5      14
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HET    BDP  B   6      12
HET    NAG  B   7      14
HET    BDP  B   8      12
HET    NAG  B   9      14
HETNAM     NAG 2-ACETAMIDO-2-DEOXY-BETA-D-GLUCOPYRANOSE
HETNAM     BDP BETA-D-GLUCOPYRANURONIC ACID
HETSYN     NAG N-ACETYL-BETA-D-GLUCOSAMINE; 2-ACETAMIDO-2-DEOXY-BETA-
HETSYN   2 NAG  D-GLUCOSE; 2-ACETAMIDO-2-DEOXY-D-GLUCOSE; 2-ACETAMIDO-
HETSYN   3 NAG  2-DEOXY-GLUCOSE; N-ACETYL-D-GLUCOSAMINE
HETSYN     BDP BETA-D-GLUCURONIC ACID; D-GLUCURONIC ACID; GLUCURONIC
HETSYN   2 BDP  ACID
FORMUL   4  NAG    5(C8 H15 N O6)
FORMUL   4  BDP    4(C6 H10 O7)
FORMUL   5  HOH   *(H2 O)
HELIX    1 AA1 HIS A   23  GLU A   49  1                                  27
HELIX    2 AA2 LEU A   64  SER A   90  1                                  27
HELIX    3 AA3 GLU A  112  TYR A  123  1                                  12
HELIX    4 AA4 ASP A  144  PHE A  155  1                                  12
HELIX    5 AA5 GLY A  195  LYS A  206  1                                  12
HELIX    6 AA6 GLY A  217  GLY A  230  1                                  14
HELIX    7 AA7 LEU A  248  ASN A  260  1                                  13
HELIX    8 AA8 SER A  278  VAL A  294  1                                  17
HELIX    9 AA9 VAL A  294  PHE A  302  1                                   9
HELIX   10 AB1 ASN A  317  ARG A  329  1                                  13
HELIX   11 AB2 GLY A  340  SER A  351  1                                  12
HELIX   12 AB3 LEU A  373  ALA A  394  1                                  22
HELIX   13 AB4 GLN A  395  TRP A  397  5                                   3
HELIX   14 AB5 HIS A  401  TYR A  427  1                                  27
HELIX   15 AB6 THR A  430  GLY A  457  1                                  28
HELIX   16 AB7 ASN A  458  LEU A  466  5                                   9
HELIX   17 AB8 TYR A  467  MET A  472  1                                   6
HELIX   18 AB9 GLY A  474  THR A  485  1                                  12
HELIX   19 AC1 PRO A  505  GLN A  529  1                                  25
HELIX   20 AC2 THR A  534  ARG A  568  1                                  35
HELIX   21 AC3 ASN H   31  SER H   34  5                                   4
HELIX   22 AC4 ARG H   90  THR H   94  5                                   5
HELIX   23 AC5 GLN L   80  PHE L   84  5                                   5
SHEET    1 AA1 2 GLN A  51  LEU A  53  0
SHEET    2 AA1 2 LEU A  62  GLY A  63 -1  O  LEU A  62   N  VAL A  52
SHEET    1 AA2 9 VAL A 160  VAL A 164  0
SHEET    2 AA2 9 CYS A 208  MET A 212  1  O  CYS A 210   N  GLY A 161
SHEET    3 AA2 9 LEU A 131  ILE A 137  1  N  ILE A 137   O  ILE A 211
SHEET    4 AA2 9 VAL A 100  GLY A 106  1  N  LEU A 102   O  ILE A 134
SHEET    5 AA2 9 TYR A 235  ASP A 240  1  O  GLN A 237   N  THR A 103
SHEET    6 AA2 9 GLY A 313  ARG A 316 -1  O  TYR A 315   N  VAL A 236
SHEET    7 AA2 9 TYR A 263  ILE A 272 -1  N  VAL A 266   O  MET A 314
SHEET    8 AA2 9 ARG A 355  SER A 366  1  O  ALA A 364   N  ARG A 271
SHEET    9 AA2 9 LYS A 244  LEU A 245 -1  N  LYS A 244   O  PHE A 365
SHEET    1 AA3 4 GLN H   6  SER H  10  0
SHEET    2 AA3 4 SER H  20  SER H  28 -1  O  ALA H  26   N  VAL H   8
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SHEET    3 AA3 4 THR H  81  ASN H  87 -1  O  ALA H  82   N  CYS H  25
SHEET    4 AA3 4 PHE H  71  ASP H  76 -1  N  SER H  74   O  TYR H  83
SHEET    1 AA4 6 LEU H  14  VAL H  15  0
SHEET    2 AA4 6 THR H 120  VAL H 124  1  O  THR H 123   N  VAL H  15
SHEET    3 AA4 6 ALA H  95  SER H 102 -1  N  TYR H  97   O  THR H 120
SHEET    4 AA4 6 TYR H  36  GLN H  42 -1  N  VAL H  40   O  TYR H  98
SHEET    5 AA4 6 LEU H  48  SER H  55 -1  O  GLU H  49   N  ARG H  41
SHEET    6 AA4 6 THR H  61  TYR H  63 -1  O  SER H  62   N  SER H  53
SHEET    1 AA5 4 MET L   5  GLN L   7  0
SHEET    2 AA5 4 VAL L  20  ALA L  26 -1  O  ARG L  25   N  THR L   6
SHEET    3 AA5 4 ASP L  71  ILE L  76 -1  O  ILE L  76   N  VAL L  20
SHEET    4 AA5 4 PHE L  63  SER L  68 -1  N  SER L  66   O  THR L  73
SHEET    1 AA6 2 SER L  11  SER L  13  0
SHEET    2 AA6 2 LYS L 104  GLU L 106  1  O  GLU L 106   N  LEU L  12
SHEET    1 AA7 5 SER L  54  LEU L  55  0
SHEET    2 AA7 5 LYS L  46  TYR L  50 -1  N  TYR L  50   O  SER L  54
SHEET    3 AA7 5 ALA L  33  GLN L  39 -1  N  GLN L  38   O  LYS L  46
SHEET    4 AA7 5 THR L  86  SER L  93 -1  O  THR L  86   N  GLN L  39
SHEET    5 AA7 5 LEU L  96  PHE L  99 -1  O  THR L  98   N  GLN L  91
SSBOND   1 CYS H   25    CYS H   99                          1555   1555  2.03
SSBOND   2 CYS L   24    CYS L   89                          1555   1555  2.03
LINK         O3  NAG B   1                 C1  BDP B   2     1555   1555  1.44
LINK         O4  BDP B   2                 C1  NAG B   3     1555   1555  1.44
LINK         O3  NAG B   3                 C1  BDP B   4     1555   1555  1.44
LINK         O4  BDP B   4                 C1  NAG B   5     1555   1555  1.44
LINK         O3  NAG B   5                 C1  BDP B   6     1555   1555  1.44
LINK         O4  BDP B   6                 C1  NAG B   7     1555   1555  1.44
LINK         O3  NAG B   7                 C1  BDP B   8     1555   1555  1.44
LINK         O4  BDP B   8                 C1  NAG B   9     1555   1555  1.44
CRYST1    1.000    1.000    1.000  90.00  90.00  90.00 P 1
ORIGX1      1.000000  0.000000  0.000000        0.00000
ORIGX2      0.000000  1.000000  0.000000        0.00000
ORIGX3      0.000000  0.000000  1.000000        0.00000
SCALE1      1.000000  0.000000  0.000000        0.00000
SCALE2      0.000000  1.000000  0.000000        0.00000
SCALE3      0.000000  0.000000  1.000000        0.00000
ATOM      1  N   ILE A  15     172.380 188.967 199.810  1.00 69.09           N
ATOM      2  CA  ILE A  15     173.670 189.651 199.800  1.00 70.02           C
ATOM      3  C   ILE A  15     174.185 189.941 198.378  1.00 69.92           C
ATOM      4  O   ILE A  15     174.599 191.069 198.108  1.00 67.93           O
ATOM      5  CB  ILE A  15     174.722 188.861 200.614  1.00 69.82           C
ATOM      6  CG1 ILE A  15     174.132 188.406 201.950  1.00 68.18           C
ATOM      7  CG2 ILE A  15     175.966 189.706 200.837  1.00 67.41           C
ATOM      8  CD1 ILE A  15     174.947 187.337 202.643  1.00 67.25           C
ATOM      9  N   PRO A  16     174.179 188.956 197.471  1.00 59.87           N
ATOM     10  CA  PRO A  16     174.615 189.244 196.099  1.00 60.15           C
ATOM     11  C   PRO A  16     173.684 190.227 195.407  1.00 58.13           C
ATOM     12  O   PRO A  16     172.482 190.284 195.681  1.00 58.54           O
ATOM     13  CB  PRO A  16     174.582 187.871 195.417  1.00 55.06           C
ATOM     14  CG  PRO A  16     173.633 187.076 196.219  1.00 54.06           C
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ATOM	15	CD	PRO	A	16	173.850	187.526	197.625	1.00	49.92	C
ATOM	16	N	LYS	A	17	174.258	191.005	194.497	1.00	54.57	N
ATOM	17	CA	LYS	A	17	173.543	192.048	193.775	1.00	56.30	C
ATOM	18	C	LYS	A	17	173.609	191.777	192.271	1.00	58.13	C
ATOM	19	O	LYS	A	17	174.085	190.730	191.825	1.00	56.72	O
ATOM	20	CB	LYS	A	17	174.108	193.425	194.132	1.00	59.44	C
ATOM	21	CG	LYS	A	17	175.626	193.492	194.138	1.00	60.45	C
ATOM	22	CD	LYS	A	17	176.121	194.674	194.956	1.00	57.92	C
ATOM	23	CE	LYS	A	17	177.517	195.093	194.531	1.00	57.57	C
ATOM	24	NZ	LYS	A	17	178.452	193.936	194.484	1.00	59.45	N
ATOM	25	N	ASP	A	18	173.119	192.741	191.487	1.00	57.15	N
ATOM	26	CA	ASP	A	18	173.033	192.567	190.042	1.00	57.89	C
ATOM	27	C	ASP	A	18	174.393	192.620	189.357	1.00	60.04	C
ATOM	28	O	ASP	A	18	174.517	192.132	188.228	1.00	59.64	O
ATOM	29	CB	ASP	A	18	172.111	193.629	189.441	1.00	57.86	C
ATOM	30	CG	ASP	A	18	170.779	193.060	188.997	1.00	61.50	C
ATOM	31	OD1	ASP	A	18	170.696	191.832	188.786	1.00	59.32	O
ATOM	32	OD2	ASP	A	18	169.814	193.840	188.857	1.00	62.72	O
ATOM	33	N	LEU	A	19	175.404	193.202	190.005	1.00	53.75	N
ATOM	34	CA	LEU	A	19	176.764	193.273	189.462	1.00	53.63	C
ATOM	35	C	LEU	A	19	176.777	193.916	188.074	1.00	55.97	C
ATOM	36	O	LEU	A	19	177.421	193.430	187.142	1.00	50.88	O
ATOM	37	CB	LEU	A	19	177.411	191.886	189.432	1.00	46.39	C
ATOM	38	CG	LEU	A	19	178.196	191.465	190.677	1.00	49.97	C
ATOM	39	CD1	LEU	A	19	179.248	190.433	190.318	1.00	49.56	C
ATOM	40	CD2	LEU	A	19	178.835	192.669	191.352	1.00	55.15	C
ATOM	41	N	GLU	A	20	176.052	195.024	187.945	1.00	63.46	N
ATOM	42	CA	GLU	A	20	175.950	195.709	186.668	1.00	61.10	C
ATOM	43	C	GLU	A	20	177.274	196.384	186.307	1.00	64.41	C
ATOM	44	O	GLU	A	20	178.064	196.732	187.189	1.00	61.37	O
ATOM	45	CB	GLU	A	20	174.835	196.751	186.712	1.00	56.56	C
ATOM	46	CG	GLU	A	20	173.435	196.169	186.642	1.00	63.16	C
ATOM	47	CD	GLU	A	20	172.791	196.368	185.284	1.00	65.73	C
ATOM	48	OE1	GLU	A	20	173.402	197.045	184.430	1.00	66.11	O
ATOM	49	OE2	GLU	A	20	171.675	195.850	185.070	1.00	61.85	O
ATOM	50	N	PRO	A	21	177.541	196.575	185.017	1.00	74.05	N
ATOM	51	CA	PRO	A	21	178.734	197.327	184.612	1.00	70.90	C
ATOM	52	C	PRO	A	21	178.590	198.804	184.951	1.00	67.11	C
ATOM	53	O	PRO	A	21	177.511	199.301	185.278	1.00	67.32	O
ATOM	54	CB	PRO	A	21	178.807	197.101	183.099	1.00	66.47	C
ATOM	55	CG	PRO	A	21	177.412	196.759	182.697	1.00	61.61	C
ATOM	56	CD	PRO	A	21	176.810	196.028	183.860	1.00	64.98	C
ATOM	57	N	LYS	A	22	179.720	199.511	184.870	1.00	66.99	N
ATOM	58	CA	LYS	A	22	179.741	200.917	185.263	1.00	71.47	C
ATOM	59	C	LYS	A	22	178.924	201.789	184.316	1.00	72.97	C
ATOM	60	O	LYS	A	22	178.357	202.800	184.745	1.00	71.67	O
ATOM	61	CB	LYS	A	22	181.183	201.420	185.336	1.00	69.38	C
ATOM	62	CG	LYS	A	22	181.458	202.329	186.523	1.00	66.96	C
ATOM	63	CD	LYS	A	22	182.924	202.725	186.592	1.00	68.45	C
ATOM	64	CE	LYS	A	22	183.247	203.821	185.591	1.00	69.40	C

ATOM	65	NZ	LYS	A	22	182.403	205.030	185.797	1.00	67.11	N
ATOM	66	N	HIS	A	23	178.848	201.421	183.039	1.00	66.69	N
ATOM	67	CA	HIS	A	23	178.097	202.176	182.035	1.00	61.17	C
ATOM	68	C	HIS	A	23	177.146	201.227	181.317	1.00	65.94	C
ATOM	69	O	HIS	A	23	177.366	200.865	180.156	1.00	68.04	O
ATOM	70	CB	HIS	A	23	179.038	202.862	181.043	1.00	65.05	C
ATOM	71	CG	HIS	A	23	180.016	203.798	181.682	1.00	68.25	C
ATOM	72	ND1	HIS	A	23	179.950	205.165	181.524	1.00	67.38	N
ATOM	73	CD2	HIS	A	23	181.091	203.562	182.472	1.00	65.99	C
ATOM	74	CE1	HIS	A	23	180.937	205.732	182.194	1.00	64.81	C
ATOM	75	NE2	HIS	A	23	181.644	204.782	182.778	1.00	66.97	N
ATOM	76	N	PRO	A	24	176.068	200.808	181.987	1.00	66.31	N
ATOM	77	CA	PRO	A	24	175.189	199.786	181.388	1.00	62.84	C
ATOM	78	C	PRO	A	24	174.580	200.195	180.057	1.00	60.76	C
ATOM	79	O	PRO	A	24	174.422	199.346	179.171	1.00	60.51	O
ATOM	80	CB	PRO	A	24	174.113	199.581	182.465	1.00	62.72	C
ATOM	81	CG	PRO	A	24	174.134	200.836	183.274	1.00	64.34	C
ATOM	82	CD	PRO	A	24	175.559	201.294	183.280	1.00	62.86	C
ATOM	83	N	THR	A	25	174.233	201.472	179.886	1.00	52.05	N
ATOM	84	CA	THR	A	25	173.569	201.891	178.654	1.00	52.19	C
ATOM	85	C	THR	A	25	174.533	201.901	177.474	1.00	52.61	C
ATOM	86	O	THR	A	25	174.175	201.469	176.371	1.00	56.99	O
ATOM	87	CB	THR	A	25	172.937	203.270	178.839	1.00	51.77	C
ATOM	88	OG1	THR	A	25	172.401	203.377	180.163	1.00	55.42	O
ATOM	89	CG2	THR	A	25	171.820	203.479	177.828	1.00	48.31	C
ATOM	90	N	LEU	A	26	175.756	202.394	177.681	1.00	49.13	N
ATOM	91	CA	LEU	A	26	176.724	202.463	176.590	1.00	51.36	C
ATOM	92	C	LEU	A	26	177.085	201.070	176.088	1.00	54.17	C
ATOM	93	O	LEU	A	26	177.116	200.821	174.875	1.00	53.04	O
ATOM	94	CB	LEU	A	26	177.969	203.229	177.052	1.00	49.94	C
ATOM	95	CG	LEU	A	26	179.251	203.242	176.212	1.00	51.91	C
ATOM	96	CD1	LEU	A	26	179.991	204.547	176.438	1.00	51.38	C
ATOM	97	CD2	LEU	A	26	180.165	202.075	176.561	1.00	52.28	C
ATOM	98	N	TRP	A	27	177.362	200.145	177.011	1.00	41.85	N
ATOM	99	CA	TRP	A	27	177.688	198.781	176.609	1.00	36.68	C
ATOM	100	C	TRP	A	27	176.502	198.109	175.930	1.00	43.46	C
ATOM	101	O	TRP	A	27	176.680	197.379	174.950	1.00	52.64	O
ATOM	102	CB	TRP	A	27	178.160	197.971	177.817	1.00	44.16	C
ATOM	103	CG	TRP	A	27	179.475	198.438	178.372	1.00	51.68	C
ATOM	104	CD1	TRP	A	27	179.671	199.208	179.479	1.00	51.63	C
ATOM	105	CD2	TRP	A	27	180.777	198.163	177.840	1.00	54.43	C
ATOM	106	NE1	TRP	A	27	181.013	199.432	179.671	1.00	50.82	N
ATOM	107	CE2	TRP	A	27	181.714	198.800	178.678	1.00	51.59	C
ATOM	108	CE3	TRP	A	27	181.242	197.439	176.738	1.00	51.22	C
ATOM	109	CZ2	TRP	A	27	183.086	198.736	178.448	1.00	48.58	C
ATOM	110	CZ3	TRP	A	27	182.605	197.378	176.511	1.00	49.95	C
ATOM	111	CH2	TRP	A	27	183.510	198.021	177.362	1.00	47.98	C
ATOM	112	N	ARG	A	28	175.287	198.351	176.428	1.00	37.24	N
ATOM	113	CA	ARG	A	28	174.094	197.811	175.779	1.00	35.45	C
ATOM	114	C	ARG	A	28	173.985	198.299	174.340	1.00	42.56	C

ATOM	115	O	ARG	A	28	173.762	197.506	173.414	1.00	44.58	O
ATOM	116	CB	ARG	A	28	172.847	198.210	176.567	1.00	28.90	C
ATOM	117	CG	ARG	A	28	172.454	197.247	177.667	1.00	41.72	C
ATOM	118	CD	ARG	A	28	171.254	197.768	178.440	1.00	39.32	C
ATOM	119	NE	ARG	A	28	170.009	197.581	177.706	1.00	32.38	N
ATOM	120	CZ	ARG	A	28	169.173	196.571	177.898	1.00	39.34	C
ATOM	121	NH1	ARG	A	28	169.418	195.632	178.798	1.00	41.87	N
ATOM	122	NH2	ARG	A	28	168.062	196.501	177.170	1.00	46.63	N
ATOM	123	N	ILE	A	29	174.146	199.608	174.137	1.00	38.39	N
ATOM	124	CA	ILE	A	29	174.010	200.181	172.802	1.00	36.38	C
ATOM	125	C	ILE	A	29	175.075	199.624	171.868	1.00	33.85	C
ATOM	126	O	ILE	A	29	174.776	199.220	170.737	1.00	43.44	O
ATOM	127	CB	ILE	A	29	174.065	201.719	172.870	1.00	40.69	C
ATOM	128	CG1	ILE	A	29	172.816	202.268	173.565	1.00	40.57	C
ATOM	129	CG2	ILE	A	29	174.216	202.313	171.477	1.00	38.64	C
ATOM	130	CD1	ILE	A	29	171.570	202.236	172.707	1.00	37.92	C
ATOM	131	N	ILE	A	30	176.330	199.579	172.324	1.00	27.40	N
ATOM	132	CA	ILE	A	30	177.389	199.116	171.431	1.00	32.01	C
ATOM	133	C	ILE	A	30	177.271	197.619	171.164	1.00	35.16	C
ATOM	134	O	ILE	A	30	177.598	197.159	170.066	1.00	45.27	O
ATOM	135	CB	ILE	A	30	178.782	199.496	171.970	1.00	32.98	C
ATOM	136	CG1	ILE	A	30	179.161	198.656	173.189	1.00	38.15	C
ATOM	137	CG2	ILE	A	30	178.854	200.988	172.271	1.00	35.17	C
ATOM	138	CD1	ILE	A	30	180.551	198.946	173.702	1.00	39.12	C
ATOM	139	N	TYR	A	31	176.778	196.835	172.127	1.00	35.15	N
ATOM	140	CA	TYR	A	31	176.605	195.406	171.887	1.00	34.63	C
ATOM	141	C	TYR	A	31	175.475	195.144	170.899	1.00	32.78	C
ATOM	142	O	TYR	A	31	175.602	194.289	170.014	1.00	34.89	O
ATOM	143	CB	TYR	A	31	176.347	194.676	173.204	1.00	29.66	C
ATOM	144	CG	TYR	A	31	177.603	194.309	173.964	1.00	23.15	C
ATOM	145	CD1	TYR	A	31	178.714	195.140	173.952	1.00	33.65	C
ATOM	146	CD2	TYR	A	31	177.677	193.130	174.689	1.00	32.78	C
ATOM	147	CE1	TYR	A	31	179.861	194.809	174.645	1.00	31.66	C
ATOM	148	CE2	TYR	A	31	178.820	192.790	175.385	1.00	35.55	C
ATOM	149	CZ	TYR	A	31	179.909	193.633	175.360	1.00	30.43	C
ATOM	150	OH	TYR	A	31	181.050	193.299	176.050	1.00	30.99	O
ATOM	151	N	TYR	A	32	174.361	195.871	171.030	1.00	27.47	N
ATOM	152	CA	TYR	A	32	173.280	195.721	170.061	1.00	29.85	C
ATOM	153	C	TYR	A	32	173.721	196.178	168.675	1.00	28.02	C
ATOM	154	O	TYR	A	32	173.368	195.556	167.664	1.00	27.82	O
ATOM	155	CB	TYR	A	32	172.046	196.492	170.525	1.00	31.88	C
ATOM	156	CG	TYR	A	32	171.369	195.874	171.727	1.00	33.59	C
ATOM	157	CD1	TYR	A	32	171.291	194.495	171.869	1.00	34.33	C
ATOM	158	CD2	TYR	A	32	170.806	196.667	172.717	1.00	40.18	C
ATOM	159	CE1	TYR	A	32	170.674	193.923	172.965	1.00	34.91	C
ATOM	160	CE2	TYR	A	32	170.187	196.103	173.817	1.00	39.20	C
ATOM	161	CZ	TYR	A	32	170.124	194.732	173.935	1.00	37.60	C
ATOM	162	OH	TYR	A	32	169.509	194.167	175.028	1.00	37.07	O
ATOM	163	N	SER	A	33	174.501	197.261	168.609	1.00	24.58	N
ATOM	164	CA	SER	A	33	175.038	197.710	167.330	1.00	23.72	C

ATOM	165	C	SER	A	33	175.962	196.664	166.723	1.00	33.31	C
ATOM	166	O	SER	A	33	175.923	196.421	165.512	1.00	39.61	O
ATOM	167	CB	SER	A	33	175.773	199.038	167.507	1.00	28.53	C
ATOM	168	OG	SER	A	33	176.714	199.241	166.468	1.00	35.97	O
ATOM	169	N	PHE	A	34	176.801	196.033	167.550	1.00	30.43	N
ATOM	170	CA	PHE	A	34	177.676	194.974	167.059	1.00	23.57	C
ATOM	171	C	PHE	A	34	176.872	193.798	166.526	1.00	28.62	C
ATOM	172	O	PHE	A	34	177.210	193.233	165.482	1.00	34.36	O
ATOM	173	CB	PHE	A	34	178.622	194.518	168.170	1.00	22.90	C
ATOM	174	CG	PHE	A	34	179.285	193.196	167.899	1.00	31.10	C
ATOM	175	CD1	PHE	A	34	180.370	193.112	167.044	1.00	28.42	C
ATOM	176	CD2	PHE	A	34	178.828	192.038	168.507	1.00	38.00	C
ATOM	177	CE1	PHE	A	34	180.983	191.898	166.795	1.00	26.81	C
ATOM	178	CE2	PHE	A	34	179.436	190.821	168.261	1.00	33.13	C
ATOM	179	CZ	PHE	A	34	180.515	190.752	167.404	1.00	27.11	C
ATOM	180	N	GLY	A	35	175.808	193.410	167.231	1.00	27.95	N
ATOM	181	CA	GLY	A	35	174.979	192.314	166.749	1.00	24.50	C
ATOM	182	C	GLY	A	35	174.310	192.629	165.424	1.00	26.80	C
ATOM	183	O	GLY	A	35	174.310	191.809	164.498	1.00	35.18	O
ATOM	184	N	VAL	A	36	173.738	193.831	165.312	1.00	24.09	N
ATOM	185	CA	VAL	A	36	173.081	194.227	164.069	1.00	27.45	C
ATOM	186	C	VAL	A	36	174.089	194.294	162.927	1.00	23.26	C
ATOM	187	O	VAL	A	36	173.812	193.841	161.809	1.00	34.39	O
ATOM	188	CB	VAL	A	36	172.342	195.565	164.257	1.00	25.57	C
ATOM	189	CG1	VAL	A	36	171.807	196.071	162.927	1.00	26.12	C
ATOM	190	CG2	VAL	A	36	171.210	195.407	165.258	1.00	24.16	C
ATOM	191	N	VAL	A	37	175.273	194.852	163.189	1.00	14.22	N
ATOM	192	CA	VAL	A	37	176.302	194.952	162.161	1.00	23.60	C
ATOM	193	C	VAL	A	37	176.787	193.570	161.745	1.00	28.84	C
ATOM	194	O	VAL	A	37	177.029	193.325	160.560	1.00	27.77	O
ATOM	195	CB	VAL	A	37	177.458	195.839	162.663	1.00	28.66	C
ATOM	196	CG1	VAL	A	37	178.776	195.449	162.008	1.00	23.96	C
ATOM	197	CG2	VAL	A	37	177.146	197.305	162.410	1.00	34.17	C
ATOM	198	N	LEU	A	38	176.929	192.646	162.698	1.00	29.98	N
ATOM	199	CA	LEU	A	38	177.335	191.285	162.368	1.00	24.43	C
ATOM	200	C	LEU	A	38	176.301	190.602	161.483	1.00	27.31	C
ATOM	201	O	LEU	A	38	176.651	189.955	160.488	1.00	34.92	O
ATOM	202	CB	LEU	A	38	177.556	190.488	163.654	1.00	23.82	C
ATOM	203	CG	LEU	A	38	178.073	189.055	163.526	1.00	27.52	C
ATOM	204	CD1	LEU	A	38	179.527	189.042	163.083	1.00	26.92	C
ATOM	205	CD2	LEU	A	38	177.899	188.317	164.842	1.00	24.55	C
ATOM	206	N	LEU	A	39	175.018	190.741	161.827	1.00	23.39	N
ATOM	207	CA	LEU	A	39	173.972	190.139	161.004	1.00	24.42	C
ATOM	208	C	LEU	A	39	173.960	190.739	159.603	1.00	29.58	C
ATOM	209	O	LEU	A	39	173.859	190.011	158.605	1.00	36.42	O
ATOM	210	CB	LEU	A	39	172.610	190.312	161.677	1.00	22.24	C
ATOM	211	CG	LEU	A	39	171.378	190.059	160.806	1.00	31.28	C
ATOM	212	CD1	LEU	A	39	171.240	188.580	160.483	1.00	31.53	C
ATOM	213	CD2	LEU	A	39	170.122	190.582	161.486	1.00	33.62	C
ATOM	214	N	ALA	A	40	174.078	192.067	159.507	1.00	29.89	N

ATOM	215	CA	ALA	A	40	174.077	192.720	158.202	1.00	28.65	C
ATOM	216	C	ALA	A	40	175.285	192.304	157.372	1.00	30.35	C
ATOM	217	O	ALA	A	40	175.164	192.069	156.166	1.00	37.63	O
ATOM	218	CB	ALA	A	40	174.039	194.238	158.375	1.00	30.50	C
ATOM	219	N	THR	A	41	176.459	192.211	158.000	1.00	23.41	N
ATOM	220	CA	THR	A	41	177.662	191.795	157.286	1.00	28.14	C
ATOM	221	C	THR	A	41	177.544	190.358	156.794	1.00	32.84	C
ATOM	222	O	THR	A	41	177.937	190.051	155.662	1.00	41.43	O
ATOM	223	CB	THR	A	41	178.886	191.953	158.189	1.00	30.60	C
ATOM	224	OG1	THR	A	41	179.133	193.345	158.422	1.00	43.56	O
ATOM	225	CG2	THR	A	41	180.115	191.327	157.547	1.00	28.01	C
ATOM	226	N	ILE	A	42	177.009	189.464	157.629	1.00	32.80	N
ATOM	227	CA	ILE	A	42	176.845	188.074	157.214	1.00	28.21	C
ATOM	228	C	ILE	A	42	175.879	187.981	156.040	1.00	27.62	C
ATOM	229	O	ILE	A	42	176.137	187.272	155.058	1.00	32.23	O
ATOM	230	CB	ILE	A	42	176.386	187.215	158.406	1.00	29.69	C
ATOM	231	CG1	ILE	A	42	177.576	186.883	159.309	1.00	27.16	C
ATOM	232	CG2	ILE	A	42	175.721	185.938	157.924	1.00	33.25	C
ATOM	233	CD1	ILE	A	42	178.490	185.814	158.751	1.00	31.69	C
ATOM	234	N	THR	A	43	174.758	188.707	156.112	1.00	28.50	N
ATOM	235	CA	THR	A	43	173.800	188.689	155.010	1.00	29.40	C
ATOM	236	C	THR	A	43	174.404	189.271	153.737	1.00	31.26	C
ATOM	237	O	THR	A	43	174.176	188.751	152.638	1.00	29.80	O
ATOM	238	CB	THR	A	43	172.534	189.451	155.397	1.00	26.26	C
ATOM	239	OG1	THR	A	43	172.156	189.104	156.735	1.00	31.09	O
ATOM	240	CG2	THR	A	43	171.396	189.105	154.450	1.00	25.85	C
ATOM	241	N	ALA	A	44	175.173	190.356	153.863	1.00	33.79	N
ATOM	242	CA	ALA	A	44	175.799	190.968	152.696	1.00	30.00	C
ATOM	243	C	ALA	A	44	176.821	190.036	152.061	1.00	32.58	C
ATOM	244	O	ALA	A	44	176.910	189.952	150.832	1.00	42.51	O
ATOM	245	CB	ALA	A	44	176.450	192.294	153.085	1.00	25.61	C
ATOM	246	N	ALA	A	45	177.610	189.337	152.880	1.00	30.12	N
ATOM	247	CA	ALA	A	45	178.562	188.373	152.340	1.00	26.03	C
ATOM	248	C	ALA	A	45	177.855	187.203	151.671	1.00	33.12	C
ATOM	249	O	ALA	A	45	178.321	186.707	150.639	1.00	30.32	O
ATOM	250	CB	ALA	A	45	179.490	187.873	153.446	1.00	25.52	C
ATOM	251	N	TYR	A	46	176.740	186.744	152.245	1.00	28.49	N
ATOM	252	CA	TYR	A	46	175.971	185.673	151.619	1.00	22.87	C
ATOM	253	C	TYR	A	46	175.404	186.108	150.272	1.00	32.40	C
ATOM	254	O	TYR	A	46	175.448	185.346	149.299	1.00	38.30	O
ATOM	255	CB	TYR	A	46	174.849	185.227	152.557	1.00	31.31	C
ATOM	256	CG	TYR	A	46	173.901	184.211	151.962	1.00	33.71	C
ATOM	257	CD1	TYR	A	46	174.304	182.901	151.740	1.00	39.02	C
ATOM	258	CD2	TYR	A	46	172.601	184.561	151.626	1.00	31.98	C
ATOM	259	CE1	TYR	A	46	173.440	181.970	151.199	1.00	36.38	C
ATOM	260	CE2	TYR	A	46	171.729	183.637	151.084	1.00	35.11	C
ATOM	261	CZ	TYR	A	46	172.154	182.344	150.873	1.00	39.59	C
ATOM	262	OH	TYR	A	46	171.288	181.422	150.333	1.00	41.25	O
ATOM	263	N	VAL	A	47	174.866	187.327	150.197	1.00	31.73	N
ATOM	264	CA	VAL	A	47	174.238	187.794	148.964	1.00	34.04	C

ATOM	265	C	VAL	A	47	175.285	188.092	147.895	1.00	34.54	C
ATOM	266	O	VAL	A	47	175.103	187.756	146.719	1.00	36.18	O
ATOM	267	CB	VAL	A	47	173.354	189.021	149.253	1.00	27.45	C
ATOM	268	CG1	VAL	A	47	173.113	189.826	147.985	1.00	32.76	C
ATOM	269	CG2	VAL	A	47	172.035	188.587	149.869	1.00	33.43	C
ATOM	270	N	ALA	A	48	176.399	188.715	148.286	1.00	31.71	N
ATOM	271	CA	ALA	A	48	177.357	189.229	147.311	1.00	30.08	C
ATOM	272	C	ALA	A	48	177.958	188.108	146.472	1.00	36.68	C
ATOM	273	O	ALA	A	48	178.141	188.259	145.258	1.00	39.50	O
ATOM	274	CB	ALA	A	48	178.457	190.016	148.025	1.00	33.64	C
ATOM	275	N	GLU	A	49	178.274	186.978	147.106	1.00	49.00	N
ATOM	276	CA	GLU	A	49	178.931	185.855	146.444	1.00	50.76	C
ATOM	277	C	GLU	A	49	180.230	186.304	145.788	1.00	52.02	C
ATOM	278	O	GLU	A	49	180.417	186.121	144.581	1.00	54.52	O
ATOM	279	CB	GLU	A	49	178.008	185.211	145.405	1.00	47.02	C
ATOM	280	CG	GLU	A	49	176.856	184.415	145.988	1.00	51.80	C
ATOM	281	CD	GLU	A	49	175.757	184.162	144.974	1.00	57.36	C
ATOM	282	OE1	GLU	A	49	175.989	184.408	143.772	1.00	52.18	O
ATOM	283	OE2	GLU	A	49	174.663	183.715	145.379	1.00	57.80	O
ATOM	284	N	PHE	A	50	181.135	186.880	146.576	1.00	45.34	N
ATOM	285	CA	PHE	A	50	182.408	187.390	146.076	1.00	40.06	C
ATOM	286	C	PHE	A	50	183.437	186.280	146.221	1.00	43.22	C
ATOM	287	O	PHE	A	50	183.688	185.797	147.330	1.00	50.41	O
ATOM	288	CB	PHE	A	50	182.839	188.649	146.829	1.00	44.16	C
ATOM	289	CG	PHE	A	50	184.242	189.092	146.520	1.00	47.14	C
ATOM	290	CD1	PHE	A	50	184.510	189.832	145.381	1.00	46.52	C
ATOM	291	CD2	PHE	A	50	185.289	188.781	147.371	1.00	43.93	C
ATOM	292	CE1	PHE	A	50	185.796	190.245	145.092	1.00	44.38	C
ATOM	293	CE2	PHE	A	50	186.578	189.193	147.087	1.00	43.59	C
ATOM	294	CZ	PHE	A	50	186.831	189.926	145.946	1.00	44.65	C
ATOM	295	N	GLN	A	51	184.020	185.873	145.101	1.00	46.30	N
ATOM	296	CA	GLN	A	51	184.920	184.728	145.086	1.00	48.35	C
ATOM	297	C	GLN	A	51	186.341	185.160	145.442	1.00	47.22	C
ATOM	298	O	GLN	A	51	186.851	186.158	144.920	1.00	51.72	O
ATOM	299	CB	GLN	A	51	184.836	184.046	143.721	1.00	42.40	C
ATOM	300	CG	GLN	A	51	185.673	184.648	142.622	1.00	47.58	C
ATOM	301	CD	GLN	A	51	185.627	183.822	141.361	1.00	49.23	C
ATOM	302	OE1	GLN	A	51	185.837	182.612	141.389	1.00	50.02	O
ATOM	303	NE2	GLN	A	51	185.328	184.472	140.243	1.00	48.67	N
ATOM	304	N	VAL	A	52	186.960	184.429	146.371	1.00	38.95	N
ATOM	305	CA	VAL	A	52	188.275	184.771	146.903	1.00	38.06	C
ATOM	306	C	VAL	A	52	189.356	183.944	146.220	1.00	43.48	C
ATOM	307	O	VAL	A	52	190.277	184.494	145.606	1.00	42.95	O
ATOM	308	CB	VAL	A	52	188.321	184.573	148.430	1.00	41.95	C
ATOM	309	CG1	VAL	A	52	189.756	184.584	148.921	1.00	42.57	C
ATOM	310	CG2	VAL	A	52	187.518	185.655	149.127	1.00	44.76	C
ATOM	311	N	LEU	A	53	189.263	182.621	146.335	1.00	44.64	N
ATOM	312	CA	LEU	A	53	190.207	181.710	145.699	1.00	37.92	C
ATOM	313	C	LEU	A	53	189.517	180.978	144.558	1.00	43.97	C
ATOM	314	O	LEU	A	53	188.443	180.397	144.743	1.00	50.18	O

ATOM	315	CB	LEU	A	53	190.779	180.708	146.701	1.00	32.40	C
ATOM	316	CG	LEU	A	53	191.178	181.271	148.063	1.00	36.70	C
ATOM	317	CD1	LEU	A	53	191.224	180.169	149.103	1.00	39.62	C
ATOM	318	CD2	LEU	A	53	192.523	181.968	147.959	1.00	41.48	C
ATOM	319	N	LYS	A	54	190.142	181.003	143.385	1.00	45.52	N
ATOM	320	CA	LYS	A	54	189.535	180.448	142.188	1.00	43.88	C
ATOM	321	C	LYS	A	54	190.597	179.721	141.379	1.00	46.99	C
ATOM	322	O	LYS	A	54	191.784	180.052	141.432	1.00	49.94	O
ATOM	323	CB	LYS	A	54	188.864	181.551	141.352	1.00	43.13	C
ATOM	324	CG	LYS	A	54	189.099	181.456	139.848	1.00	49.42	C
ATOM	325	CD	LYS	A	54	188.197	182.389	139.060	1.00	49.97	C
ATOM	326	CE	LYS	A	54	188.800	182.726	137.705	1.00	51.33	C
ATOM	327	NZ	LYS	A	54	190.122	183.401	137.839	1.00	49.75	N
ATOM	328	N	HIS	A	55	190.150	178.718	140.632	1.00	49.96	N
ATOM	329	CA	HIS	A	55	190.966	178.078	139.613	1.00	51.20	C
ATOM	330	C	HIS	A	55	190.041	177.581	138.509	1.00	51.33	C
ATOM	331	O	HIS	A	55	188.813	177.616	138.640	1.00	53.54	O
ATOM	332	CB	HIS	A	55	191.812	176.944	140.204	1.00	51.90	C
ATOM	333	CG	HIS	A	55	193.031	176.625	139.397	1.00	53.33	C
ATOM	334	ND1	HIS	A	55	194.112	177.475	139.312	1.00	54.98	N
ATOM	335	CD2	HIS	A	55	193.332	175.555	138.623	1.00	52.91	C
ATOM	336	CE1	HIS	A	55	195.030	176.939	138.528	1.00	54.92	C
ATOM	337	NE2	HIS	A	55	194.582	175.774	138.097	1.00	53.71	N
ATOM	338	N	GLU	A	56	190.635	177.118	137.417	1.00	59.20	N
ATOM	339	CA	GLU	A	56	189.897	176.538	136.308	1.00	60.03	C
ATOM	340	C	GLU	A	56	189.906	175.021	136.432	1.00	61.04	C
ATOM	341	O	GLU	A	56	190.634	174.448	137.248	1.00	65.06	O
ATOM	342	CB	GLU	A	56	190.486	176.973	134.961	1.00	58.16	C
ATOM	343	CG	GLU	A	56	191.828	176.345	134.626	1.00	61.33	C
ATOM	344	CD	GLU	A	56	192.998	177.141	135.173	1.00	63.72	C
ATOM	345	OE1	GLU	A	56	192.891	177.667	136.301	1.00	61.91	O
ATOM	346	OE2	GLU	A	56	194.026	177.244	134.473	1.00	64.83	O
ATOM	347	N	ALA	A	57	189.066	174.378	135.619	1.00	55.33	N
ATOM	348	CA	ALA	A	57	188.791	172.946	135.694	1.00	56.92	C
ATOM	349	C	ALA	A	57	188.198	172.539	137.038	1.00	57.60	C
ATOM	350	O	ALA	A	57	188.193	171.353	137.381	1.00	61.08	O
ATOM	351	CB	ALA	A	57	190.044	172.111	135.398	1.00	60.13	C
ATOM	352	N	ILE	A	58	187.701	173.505	137.810	1.00	49.51	N
ATOM	353	CA	ILE	A	58	187.039	173.240	139.082	1.00	47.36	C
ATOM	354	C	ILE	A	58	185.750	174.049	139.135	1.00	47.67	C
ATOM	355	O	ILE	A	58	185.773	175.280	139.032	1.00	44.31	O
ATOM	356	CB	ILE	A	58	187.953	173.573	140.275	1.00	49.33	C
ATOM	357	CG1	ILE	A	58	189.143	172.612	140.328	1.00	48.60	C
ATOM	358	CG2	ILE	A	58	187.177	173.505	141.572	1.00	53.73	C
ATOM	359	CD1	ILE	A	58	190.137	172.930	141.424	1.00	48.95	C
ATOM	360	N	LEU	A	59	184.618	173.367	139.296	1.00	48.67	N
ATOM	361	CA	LEU	A	59	183.313	174.029	139.293	1.00	45.24	C
ATOM	362	C	LEU	A	59	182.865	174.472	140.680	1.00	47.62	C
ATOM	363	O	LEU	A	59	181.665	174.589	140.941	1.00	46.34	O
ATOM	364	CB	LEU	A	59	182.273	173.110	138.656	1.00	45.04	C

ATOM	365	CG	LEU	A	59	182.377	172.885	137.145	1.00	45.47	C
ATOM	366	CD1	LEU	A	59	181.000	172.679	136.543	1.00	49.01	C
ATOM	367	CD2	LEU	A	59	183.089	174.041	136.461	1.00	47.07	C
ATOM	368	N	PHE	A	60	183.807	174.711	141.589	1.00	44.40	N
ATOM	369	CA	PHE	A	60	183.481	175.253	142.898	1.00	40.44	C
ATOM	370	C	PHE	A	60	184.619	176.155	143.352	1.00	48.20	C
ATOM	371	O	PHE	A	60	185.774	175.976	142.958	1.00	45.33	O
ATOM	372	CB	PHE	A	60	183.217	174.144	143.925	1.00	38.42	C
ATOM	373	CG	PHE	A	60	184.189	172.998	143.855	1.00	40.43	C
ATOM	374	CD1	PHE	A	60	185.329	172.991	144.642	1.00	42.29	C
ATOM	375	CD2	PHE	A	60	183.953	171.920	143.019	1.00	44.46	C
ATOM	376	CE1	PHE	A	60	186.221	171.937	144.585	1.00	42.16	C
ATOM	377	CE2	PHE	A	60	184.841	170.864	142.958	1.00	44.31	C
ATOM	378	CZ	PHE	A	60	185.976	170.873	143.742	1.00	41.77	C
ATOM	379	N	SER	A	61	184.280	177.130	144.190	1.00	54.24	N
ATOM	380	CA	SER	A	61	185.249	178.101	144.678	1.00	44.98	C
ATOM	381	C	SER	A	61	185.002	178.312	146.167	1.00	42.54	C
ATOM	382	O	SER	A	61	184.197	177.612	146.788	1.00	40.53	O
ATOM	383	CB	SER	A	61	185.156	179.409	143.880	1.00	40.80	C
ATOM	384	OG	SER	A	61	183.808	179.806	143.706	1.00	47.09	O
ATOM	385	N	LEU	A	62	185.700	179.285	146.744	1.00	30.78	N
ATOM	386	CA	LEU	A	62	185.588	179.608	148.165	1.00	35.27	C
ATOM	387	C	LEU	A	62	185.121	181.055	148.284	1.00	38.22	C
ATOM	388	O	LEU	A	62	185.903	181.988	148.074	1.00	39.56	O
ATOM	389	CB	LEU	A	62	186.915	179.384	148.884	1.00	35.93	C
ATOM	390	CG	LEU	A	62	186.866	179.372	150.413	1.00	35.49	C
ATOM	391	CD1	LEU	A	62	185.957	178.265	150.916	1.00	36.44	C
ATOM	392	CD2	LEU	A	62	188.261	179.211	150.985	1.00	33.64	C
ATOM	393	N	GLY	A	63	183.845	181.238	148.615	1.00	38.11	N
ATOM	394	CA	GLY	A	63	183.298	182.566	148.774	1.00	32.71	C
ATOM	395	C	GLY	A	63	183.591	183.166	150.136	1.00	34.97	C
ATOM	396	O	GLY	A	63	184.149	182.529	151.031	1.00	43.27	O
ATOM	397	N	LEU	A	64	183.199	184.434	150.282	1.00	27.44	N
ATOM	398	CA	LEU	A	64	183.380	185.124	151.555	1.00	27.53	C
ATOM	399	C	LEU	A	64	182.547	184.478	152.654	1.00	25.55	C
ATOM	400	O	LEU	A	64	183.000	184.355	153.798	1.00	33.91	O
ATOM	401	CB	LEU	A	64	183.020	186.601	151.401	1.00	25.84	C
ATOM	402	CG	LEU	A	64	184.181	187.554	151.107	1.00	29.89	C
ATOM	403	CD1	LEU	A	64	183.732	189.000	151.235	1.00	28.42	C
ATOM	404	CD2	LEU	A	64	185.366	187.271	152.017	1.00	31.93	C
ATOM	405	N	TYR	A	65	181.322	184.060	152.325	1.00	21.64	N
ATOM	406	CA	TYR	A	65	180.486	183.365	153.298	1.00	26.92	C
ATOM	407	C	TYR	A	65	181.133	182.064	153.755	1.00	30.74	C
ATOM	408	O	TYR	A	65	181.163	181.762	154.955	1.00	42.06	O
ATOM	409	CB	TYR	A	65	179.107	183.096	152.696	1.00	29.42	C
ATOM	410	CG	TYR	A	65	178.094	182.558	153.677	1.00	21.81	C
ATOM	411	CD1	TYR	A	65	177.475	183.393	154.596	1.00	27.33	C
ATOM	412	CD2	TYR	A	65	177.756	181.213	153.683	1.00	25.09	C
ATOM	413	CE1	TYR	A	65	176.548	182.902	155.494	1.00	32.46	C
ATOM	414	CE2	TYR	A	65	176.831	180.713	154.575	1.00	29.03	C

ATOM	415	CZ	TYR	A	65	176.230	181.561	155.478	1.00	33.84		C
ATOM	416	OH	TYR	A	65	175.307	181.065	156.370	1.00	37.75		O
ATOM	417	N	GLY	A	66	181.657	181.280	152.810	1.00	28.62		N
ATOM	418	CA	GLY	A	66	182.332	180.048	153.179	1.00	30.95		C
ATOM	419	C	GLY	A	66	183.564	180.294	154.025	1.00	35.95		C
ATOM	420	O	GLY	A	66	183.829	179.564	154.983	1.00	44.19		O
ATOM	421	N	LEU	A	67	184.334	181.331	153.684	1.00	24.24		N
ATOM	422	CA	LEU	A	67	185.498	181.682	154.490	1.00	22.60		C
ATOM	423	C	LEU	A	67	185.089	182.061	155.908	1.00	25.65		C
ATOM	424	O	LEU	A	67	185.754	181.676	156.877	1.00	36.94		O
ATOM	425	CB	LEU	A	67	186.268	182.823	153.828	1.00	25.39		C
ATOM	426	CG	LEU	A	67	187.771	182.886	154.106	1.00	26.68		C
ATOM	427	CD1	LEU	A	67	188.427	181.550	153.809	1.00	25.61		C
ATOM	428	CD2	LEU	A	67	188.418	183.993	153.291	1.00	33.17		C
ATOM	429	N	ALA	A	68	183.996	182.813	156.050	1.00	22.99		N
ATOM	430	CA	ALA	A	68	183.528	183.207	157.376	1.00	27.61		C
ATOM	431	C	ALA	A	68	183.090	181.996	158.193	1.00	30.79		C
ATOM	432	O	ALA	A	68	183.410	181.886	159.384	1.00	39.68		O
ATOM	433	CB	ALA	A	68	182.386	184.215	157.249	1.00	26.80		C
ATOM	434	N	MET	A	69	182.351	181.073	157.569	1.00	24.90		N
ATOM	435	CA	MET	A	69	181.943	179.861	158.280	1.00	30.75		C
ATOM	436	C	MET	A	69	183.148	179.021	158.692	1.00	30.77		C
ATOM	437	O	MET	A	69	183.193	178.493	159.811	1.00	39.15		O
ATOM	438	CB	MET	A	69	180.982	179.033	157.424	1.00	32.80		C
ATOM	439	CG	MET	A	69	179.779	179.746	156.779	1.00	37.05		C
ATOM	440	SD	MET	A	69	178.629	180.683	157.828	1.00	48.77		S
ATOM	441	CE	MET	A	69	179.471	182.226	158.168	1.00	33.40		C
ATOM	442	N	LEU	A	70	184.129	178.878	157.798	1.00	25.71		N
ATOM	443	CA	LEU	A	70	185.322	178.108	158.133	1.00	28.43		C
ATOM	444	C	LEU	A	70	186.092	178.756	159.276	1.00	29.02		C
ATOM	445	O	LEU	A	70	186.591	178.063	160.171	1.00	37.31		O
ATOM	446	CB	LEU	A	70	186.209	177.956	156.899	1.00	24.48		C
ATOM	447	CG	LEU	A	70	185.687	177.001	155.825	1.00	22.68		C
ATOM	448	CD1	LEU	A	70	186.456	177.186	154.529	1.00	23.95		C
ATOM	449	CD2	LEU	A	70	185.761	175.558	156.299	1.00	33.40		C
ATOM	450	N	LEU	A	71	186.200	180.087	159.264	1.00	25.10		N
ATOM	451	CA	LEU	A	71	186.869	180.788	160.355	1.00	23.51		C
ATOM	452	C	LEU	A	71	186.129	180.593	161.672	1.00	21.10		C
ATOM	453	O	LEU	A	71	186.755	180.411	162.723	1.00	28.23		O
ATOM	454	CB	LEU	A	71	186.996	182.274	160.025	1.00	28.41		C
ATOM	455	CG	LEU	A	71	187.896	183.097	160.948	1.00	31.48		C
ATOM	456	CD1	LEU	A	71	189.336	182.613	160.866	1.00	23.32		C
ATOM	457	CD2	LEU	A	71	187.801	184.579	160.616	1.00	32.23		C
ATOM	458	N	HIS	A	72	184.794	180.642	161.638	1.00	21.21		N
ATOM	459	CA	HIS	A	72	184.018	180.407	162.853	1.00	24.56		C
ATOM	460	C	HIS	A	72	184.255	179.004	163.397	1.00	27.50		C
ATOM	461	O	HIS	A	72	184.451	178.821	164.606	1.00	37.78		O
ATOM	462	CB	HIS	A	72	182.532	180.632	162.577	1.00	21.76		C
ATOM	463	CG	HIS	A	72	181.628	180.051	163.619	1.00	21.48		C
ATOM	464	ND1	HIS	A	72	181.359	180.689	164.811	1.00	27.88		N

ATOM	465	CD2	HIS	A	72	180.928	178.892	163.647	1.00	30.69	C
ATOM	466	CE1	HIS	A	72	180.534	179.947	165.528	1.00	33.94	C
ATOM	467	NE2	HIS	A	72	180.257	178.852	164.845	1.00	36.46	N
ATOM	468	N	LEU	A	73	184.247	178.001	162.516	1.00	28.38	N
ATOM	469	CA	LEU	A	73	184.512	176.632	162.951	1.00	28.04	C
ATOM	470	C	LEU	A	73	185.910	176.505	163.546	1.00	30.77	C
ATOM	471	O	LEU	A	73	186.095	175.867	164.592	1.00	35.55	O
ATOM	472	CB	LEU	A	73	184.337	175.669	161.776	1.00	25.73	C
ATOM	473	CG	LEU	A	73	184.608	174.186	162.032	1.00	36.13	C
ATOM	474	CD1	LEU	A	73	183.457	173.340	161.520	1.00	36.49	C
ATOM	475	CD2	LEU	A	73	185.916	173.758	161.382	1.00	33.21	C
ATOM	476	N	MET	A	74	186.903	177.118	162.898	1.00	30.25	N
ATOM	477	CA	MET	A	74	188.276	177.041	163.383	1.00	23.26	C
ATOM	478	C	MET	A	74	188.411	177.681	164.758	1.00	25.52	C
ATOM	479	O	MET	A	74	189.059	177.126	165.654	1.00	36.94	O
ATOM	480	CB	MET	A	74	189.218	177.712	162.384	1.00	20.06	C
ATOM	481	CG	MET	A	74	190.511	176.957	162.139	1.00	31.90	C
ATOM	482	SD	MET	A	74	190.310	175.616	160.951	1.00	63.05	S
ATOM	483	CE	MET	A	74	190.084	176.542	159.435	1.00	30.46	C
ATOM	484	N	MET	A	75	187.801	178.854	164.946	1.00	17.93	N
ATOM	485	CA	MET	A	75	187.923	179.542	166.227	1.00	20.90	C
ATOM	486	C	MET	A	75	187.189	178.788	167.331	1.00	20.23	C
ATOM	487	O	MET	A	75	187.682	178.707	168.463	1.00	27.36	O
ATOM	488	CB	MET	A	75	187.427	180.987	166.105	1.00	24.50	C
ATOM	489	CG	MET	A	75	185.920	181.180	166.163	1.00	31.43	C
ATOM	490	SD	MET	A	75	185.397	182.845	165.705	1.00	33.09	S
ATOM	491	CE	MET	A	75	186.893	183.777	166.017	1.00	30.84	C
ATOM	492	N	GLN	A	76	186.025	178.207	167.019	1.00	16.94	N
ATOM	493	CA	GLN	A	76	185.321	177.407	168.016	1.00	21.67	C
ATOM	494	C	GLN	A	76	186.149	176.197	168.430	1.00	25.36	C
ATOM	495	O	GLN	A	76	186.273	175.897	169.626	1.00	25.74	O
ATOM	496	CB	GLN	A	76	183.961	176.968	167.472	1.00	18.67	C
ATOM	497	CG	GLN	A	76	183.326	175.822	168.240	1.00	27.63	C
ATOM	498	CD	GLN	A	76	181.849	175.666	167.939	1.00	35.18	C
ATOM	499	OE1	GLN	A	76	180.999	176.209	168.644	1.00	39.56	O
ATOM	500	NE2	GLN	A	76	181.536	174.922	166.885	1.00	30.33	N
ATOM	501	N	SER	A	77	186.740	175.502	167.454	1.00	24.87	N
ATOM	502	CA	SER	A	77	187.570	174.343	167.768	1.00	14.90	C
ATOM	503	C	SER	A	77	188.780	174.736	168.606	1.00	19.77	C
ATOM	504	O	SER	A	77	189.111	174.061	169.592	1.00	25.35	O
ATOM	505	CB	SER	A	77	188.010	173.660	166.474	1.00	17.41	C
ATOM	506	OG	SER	A	77	186.946	173.610	165.540	1.00	24.19	O
ATOM	507	N	LEU	A	78	189.450	175.831	168.234	1.00	18.04	N
ATOM	508	CA	LEU	A	78	190.631	176.266	168.972	1.00	12.04	C
ATOM	509	C	LEU	A	78	190.281	176.643	170.405	1.00	16.64	C
ATOM	510	O	LEU	A	78	191.001	176.279	171.342	1.00	19.82	O
ATOM	511	CB	LEU	A	78	191.292	177.442	168.254	1.00	17.32	C
ATOM	512	CG	LEU	A	78	192.277	178.293	169.060	1.00	21.03	C
ATOM	513	CD1	LEU	A	78	193.495	177.479	169.470	1.00	20.86	C
ATOM	514	CD2	LEU	A	78	192.694	179.525	168.272	1.00	17.04	C

ATOM	515	N	PHE	A	79	189.178	177.371	170.597	1.00	18.78	N
ATOM	516	CA	PHE	A	79	188.794	177.774	171.945	1.00	14.22	C
ATOM	517	C	PHE	A	79	188.393	176.572	172.791	1.00	23.10	C
ATOM	518	O	PHE	A	79	188.721	176.510	173.983	1.00	21.10	O
ATOM	519	CB	PHE	A	79	187.666	178.800	171.883	1.00	9.36	C
ATOM	520	CG	PHE	A	79	188.103	180.145	171.378	1.00	23.23	C
ATOM	521	CD1	PHE	A	79	189.410	180.569	171.546	1.00	19.13	C
ATOM	522	CD2	PHE	A	79	187.210	180.982	170.731	1.00	26.97	C
ATOM	523	CE1	PHE	A	79	189.819	181.803	171.082	1.00	10.38	C
ATOM	524	CE2	PHE	A	79	187.614	182.218	170.264	1.00	24.34	C
ATOM	525	CZ	PHE	A	79	188.920	182.629	170.440	1.00	23.68	C
ATOM	526	N	ALA	A	80	187.688	175.604	172.197	1.00	34.49	N
ATOM	527	CA	ALA	A	80	187.347	174.392	172.935	1.00	18.32	C
ATOM	528	C	ALA	A	80	188.600	173.639	173.365	1.00	15.66	C
ATOM	529	O	ALA	A	80	188.702	173.193	174.516	1.00	15.70	O
ATOM	530	CB	ALA	A	80	186.446	173.495	172.087	1.00	10.79	C
ATOM	531	N	PHE	A	81	189.571	173.498	172.457	1.00	15.89	N
ATOM	532	CA	PHE	A	81	190.813	172.817	172.810	1.00	15.33	C
ATOM	533	C	PHE	A	81	191.555	173.558	173.915	1.00	17.97	C
ATOM	534	O	PHE	A	81	192.079	172.936	174.849	1.00	28.80	O
ATOM	535	CB	PHE	A	81	191.703	172.669	171.577	1.00	20.76	C
ATOM	536	CG	PHE	A	81	193.159	172.487	171.899	1.00	25.29	C
ATOM	537	CD1	PHE	A	81	193.621	171.295	172.430	1.00	27.52	C
ATOM	538	CD2	PHE	A	81	194.065	173.509	171.672	1.00	29.69	C
ATOM	539	CE1	PHE	A	81	194.959	171.125	172.729	1.00	26.04	C
ATOM	540	CE2	PHE	A	81	195.404	173.345	171.969	1.00	27.08	C
ATOM	541	CZ	PHE	A	81	195.851	172.152	172.497	1.00	27.11	C
ATOM	542	N	LEU	A	82	191.613	174.890	173.824	1.00	25.92	N
ATOM	543	CA	LEU	A	82	192.303	175.675	174.842	1.00	26.53	C
ATOM	544	C	LEU	A	82	191.643	175.515	176.205	1.00	24.76	C
ATOM	545	O	LEU	A	82	192.331	175.344	177.219	1.00	24.69	O
ATOM	546	CB	LEU	A	82	192.335	177.148	174.436	1.00	22.16	C
ATOM	547	CG	LEU	A	82	193.417	177.570	173.441	1.00	21.64	C
ATOM	548	CD1	LEU	A	82	193.367	179.070	173.206	1.00	15.86	C
ATOM	549	CD2	LEU	A	82	194.791	177.147	173.931	1.00	23.78	C
ATOM	550	N	GLU	A	83	190.309	175.566	176.251	1.00	22.63	N
ATOM	551	CA	GLU	A	83	189.612	175.409	177.523	1.00	19.35	C
ATOM	552	C	GLU	A	83	189.824	174.016	178.104	1.00	23.74	C
ATOM	553	O	GLU	A	83	190.038	173.870	179.314	1.00	23.65	O
ATOM	554	CB	GLU	A	83	188.121	175.697	177.349	1.00	23.78	C
ATOM	555	CG	GLU	A	83	187.225	174.964	178.339	1.00	28.67	C
ATOM	556	CD	GLU	A	83	187.198	175.616	179.710	1.00	36.91	C
ATOM	557	OE1	GLU	A	83	187.932	176.604	179.922	1.00	30.95	O
ATOM	558	OE2	GLU	A	83	186.440	175.138	180.579	1.00	40.79	O
ATOM	559	N	ILE	A	84	189.769	172.981	177.261	1.00	40.21	N
ATOM	560	CA	ILE	A	84	189.982	171.621	177.752	1.00	37.94	C
ATOM	561	C	ILE	A	84	191.389	171.472	178.317	1.00	27.91	C
ATOM	562	O	ILE	A	84	191.584	170.890	179.392	1.00	33.68	O
ATOM	563	CB	ILE	A	84	189.705	170.595	176.637	1.00	35.53	C
ATOM	564	CG1	ILE	A	84	188.217	170.578	176.282	1.00	29.42	C

ATOM	565	CG2	ILE	A	84	190.161	169.209	177.061	1.00	28.64	C
ATOM	566	CD1	ILE	A	84	187.301	170.494	177.482	1.00	35.62	C
ATOM	567	N	ARG	A	85	192.390	172.005	177.610	1.00	22.67	N
ATOM	568	CA	ARG	A	85	193.763	171.925	178.099	1.00	26.61	C
ATOM	569	C	ARG	A	85	193.929	172.677	179.415	1.00	30.56	C
ATOM	570	O	ARG	A	85	194.591	172.188	180.340	1.00	37.32	O
ATOM	571	CB	ARG	A	85	194.726	172.469	177.045	1.00	39.10	C
ATOM	572	CG	ARG	A	85	196.185	172.132	177.300	1.00	35.97	C
ATOM	573	CD	ARG	A	85	197.050	172.510	176.110	1.00	36.98	C
ATOM	574	NE	ARG	A	85	197.369	173.933	176.099	1.00	41.02	N
ATOM	575	CZ	ARG	A	85	198.600	174.425	176.134	1.00	42.69	C
ATOM	576	NH1	ARG	A	85	199.659	173.634	176.185	1.00	43.71	N
ATOM	577	NH2	ARG	A	85	198.772	175.744	176.119	1.00	35.94	N
ATOM	578	N	ARG	A	86	193.336	173.870	179.517	1.00	35.61	N
ATOM	579	CA	ARG	A	86	193.447	174.651	180.744	1.00	33.47	C
ATOM	580	C	ARG	A	86	192.802	173.930	181.920	1.00	32.31	C
ATOM	581	O	ARG	A	86	193.348	173.924	183.029	1.00	31.35	O
ATOM	582	CB	ARG	A	86	192.810	176.027	180.550	1.00	29.43	C
ATOM	583	CG	ARG	A	86	193.443	177.128	181.383	1.00	32.21	C
ATOM	584	CD	ARG	A	86	192.981	178.499	180.921	1.00	38.67	C
ATOM	585	NE	ARG	A	86	191.527	178.589	180.871	1.00	38.34	N
ATOM	586	CZ	ARG	A	86	190.853	179.701	180.611	1.00	36.16	C
ATOM	587	NH1	ARG	A	86	191.472	180.843	180.362	1.00	33.30	N
ATOM	588	NH2	ARG	A	86	189.524	179.666	180.603	1.00	32.25	N
ATOM	589	N	VAL	A	87	191.634	173.321	181.699	1.00	33.85	N
ATOM	590	CA	VAL	A	87	190.968	172.589	182.772	1.00	25.65	C
ATOM	591	C	VAL	A	87	191.793	171.373	183.178	1.00	24.52	C
ATOM	592	O	VAL	A	87	191.932	171.069	184.370	1.00	33.68	O
ATOM	593	CB	VAL	A	87	189.540	172.198	182.347	1.00	27.77	C
ATOM	594	CG1	VAL	A	87	189.061	170.976	183.115	1.00	25.03	C
ATOM	595	CG2	VAL	A	87	188.588	173.366	182.553	1.00	27.44	C
ATOM	596	N	ASN	A	88	192.360	170.665	182.198	1.00	30.19	N
ATOM	597	CA	ASN	A	88	193.169	169.489	182.506	1.00	28.74	C
ATOM	598	C	ASN	A	88	194.408	169.855	183.314	1.00	31.25	C
ATOM	599	O	ASN	A	88	194.774	169.144	184.257	1.00	36.35	O
ATOM	600	CB	ASN	A	88	193.569	168.775	181.215	1.00	25.90	C
ATOM	601	CG	ASN	A	88	192.593	167.687	180.822	1.00	29.43	C
ATOM	602	OD1	ASN	A	88	191.826	167.198	181.651	1.00	32.02	O
ATOM	603	ND2	ASN	A	88	192.615	167.301	179.552	1.00	34.49	N
ATOM	604	N	LYS	A	89	195.069	170.959	182.959	1.00	36.39	N
ATOM	605	CA	LYS	A	89	196.338	171.294	183.598	1.00	38.86	C
ATOM	606	C	LYS	A	89	196.145	171.714	185.052	1.00	44.23	C
ATOM	607	O	LYS	A	89	196.899	171.290	185.936	1.00	44.42	O
ATOM	608	CB	LYS	A	89	197.043	172.398	182.810	1.00	41.36	C
ATOM	609	CG	LYS	A	89	198.402	172.787	183.368	1.00	41.25	C
ATOM	610	CD	LYS	A	89	199.370	173.152	182.256	1.00	43.89	C
ATOM	611	CE	LYS	A	89	199.510	172.019	181.251	1.00	45.44	C
ATOM	612	NZ	LYS	A	89	199.809	170.719	181.914	1.00	44.72	N
ATOM	613	N	SER	A	90	195.143	172.546	185.321	1.00	53.11	N
ATOM	614	CA	SER	A	90	194.991	173.141	186.641	1.00	50.93	C

ATOM	615	C	SER	A	90	194.487	172.126	187.664	1.00	53.11	C
ATOM	616	O	SER	A	90	193.724	171.210	187.345	1.00	50.82	O
ATOM	617	CB	SER	A	90	194.035	174.332	186.580	1.00	48.42	C
ATOM	618	OG	SER	A	90	194.164	175.149	187.730	1.00	52.59	O
ATOM	619	N	GLU	A	91	194.927	172.304	188.910	1.00	60.49	N
ATOM	620	CA	GLU	A	91	194.464	171.515	190.042	1.00	60.99	C
ATOM	621	C	GLU	A	91	194.098	172.451	191.186	1.00	62.11	C
ATOM	622	O	GLU	A	91	194.705	173.510	191.360	1.00	63.79	O
ATOM	623	CB	GLU	A	91	195.523	170.505	190.503	1.00	58.09	C
ATOM	624	CG	GLU	A	91	195.604	169.259	189.636	1.00	63.03	C
ATOM	625	CD	GLU	A	91	196.728	168.330	190.051	1.00	65.88	C
ATOM	626	OE1	GLU	A	91	197.754	168.827	190.563	1.00	67.46	O
ATOM	627	OE2	GLU	A	91	196.586	167.103	189.866	1.00	63.92	O
ATOM	628	N	LEU	A	92	193.099	172.049	191.969	1.00	53.74	N
ATOM	629	CA	LEU	A	92	192.522	172.906	192.992	1.00	52.81	C
ATOM	630	C	LEU	A	92	192.471	172.188	194.334	1.00	54.06	C
ATOM	631	O	LEU	A	92	192.403	170.956	194.383	1.00	53.74	O
ATOM	632	CB	LEU	A	92	191.111	173.357	192.584	1.00	54.00	C
ATOM	633	CG	LEU	A	92	190.937	173.764	191.118	1.00	53.89	C
ATOM	634	CD1	LEU	A	92	189.467	173.894	190.757	1.00	51.55	C
ATOM	635	CD2	LEU	A	92	191.678	175.060	190.830	1.00	49.71	C
ATOM	636	N	PRO	A	93	192.506	172.942	195.449	1.00	57.35	N
ATOM	637	CA	PRO	A	93	192.632	172.314	196.776	1.00	55.86	C
ATOM	638	C	PRO	A	93	191.429	171.498	197.234	1.00	54.11	C
ATOM	639	O	PRO	A	93	191.602	170.368	197.701	1.00	52.20	O
ATOM	640	CB	PRO	A	93	192.864	173.513	197.706	1.00	56.52	C
ATOM	641	CG	PRO	A	93	192.302	174.681	196.976	1.00	56.78	C
ATOM	642	CD	PRO	A	93	192.570	174.412	195.530	1.00	55.65	C
ATOM	643	N	CYS	A	94	190.218	172.054	197.123	1.00	51.90	N
ATOM	644	CA	CYS	A	94	188.998	171.448	197.666	1.00	48.12	C
ATOM	645	C	CYS	A	94	189.108	171.262	199.184	1.00	49.39	C
ATOM	646	O	CYS	A	94	189.179	170.149	199.709	1.00	47.47	O
ATOM	647	CB	CYS	A	94	188.672	170.117	196.979	1.00	46.72	C
ATOM	648	SG	CYS	A	94	187.036	169.465	197.386	1.00	45.84	S
ATOM	649	N	SER	A	95	189.131	172.406	199.875	1.00	46.37	N
ATOM	650	CA	SER	A	95	189.289	172.443	201.326	1.00	46.16	C
ATOM	651	C	SER	A	95	188.227	171.650	202.083	1.00	48.03	C
ATOM	652	O	SER	A	95	188.370	171.474	203.298	1.00	42.12	O
ATOM	653	CB	SER	A	95	189.279	173.895	201.809	1.00	43.84	C
ATOM	654	OG	SER	A	95	188.007	174.487	201.610	1.00	41.37	O
ATOM	655	N	PHE	A	96	187.170	171.184	201.411	1.00	48.64	N
ATOM	656	CA	PHE	A	96	186.152	170.318	202.014	1.00	39.51	C
ATOM	657	C	PHE	A	96	185.415	171.003	203.162	1.00	41.57	C
ATOM	658	O	PHE	A	96	185.043	170.357	204.145	1.00	42.60	O
ATOM	659	CB	PHE	A	96	186.759	168.996	202.499	1.00	35.57	C
ATOM	660	CG	PHE	A	96	186.861	167.945	201.433	1.00	39.90	C
ATOM	661	CD1	PHE	A	96	185.752	167.582	200.688	1.00	43.94	C
ATOM	662	CD2	PHE	A	96	188.067	167.313	201.180	1.00	41.67	C
ATOM	663	CE1	PHE	A	96	185.845	166.612	199.709	1.00	39.63	C
ATOM	664	CE2	PHE	A	96	188.166	166.342	200.203	1.00	45.23	C

ATOM	665	CZ	PHE	A	96	187.053	165.992	199.466	1.00	40.88		C
ATOM	666	N	LYS	A	97	185.193	172.314	203.055	1.00	39.10		N
ATOM	667	CA	LYS	A	97	184.516	173.075	204.098	1.00	34.61		C
ATOM	668	C	LYS	A	97	183.188	173.662	203.630	1.00	40.29		C
ATOM	669	O	LYS	A	97	182.655	174.568	204.277	1.00	47.10		O
ATOM	670	CB	LYS	A	97	185.428	174.185	204.620	1.00	39.60		C
ATOM	671	CG	LYS	A	97	186.191	173.819	205.882	1.00	42.49		C
ATOM	672	CD	LYS	A	97	187.202	174.893	206.245	1.00	40.72		C
ATOM	673	CE	LYS	A	97	188.336	174.945	205.235	1.00	40.63		C
ATOM	674	NZ	LYS	A	97	189.171	173.713	205.277	1.00	43.61		N
ATOM	675	N	LYS	A	98	182.641	173.164	202.525	1.00	35.78		N
ATOM	676	CA	LYS	A	98	181.403	173.681	201.960	1.00	29.04		C
ATOM	677	C	LYS	A	98	180.315	172.618	202.011	1.00	27.05		C
ATOM	678	O	LYS	A	98	180.578	171.433	201.785	1.00	28.43		O
ATOM	679	CB	LYS	A	98	181.611	174.147	200.517	1.00	24.50		C
ATOM	680	CG	LYS	A	98	182.643	175.250	200.365	1.00	25.78		C
ATOM	681	CD	LYS	A	98	182.121	176.572	200.900	1.00	28.69		C
ATOM	682	CE	LYS	A	98	183.201	177.639	200.884	1.00	30.99		C
ATOM	683	NZ	LYS	A	98	182.629	179.003	200.717	1.00	31.24		N
ATOM	684	N	THR	A	99	179.093	173.051	202.309	1.00	17.64		N
ATOM	685	CA	THR	A	99	177.945	172.159	202.380	1.00	13.76		C
ATOM	686	C	THR	A	99	177.253	172.082	201.026	1.00	18.88		C
ATOM	687	O	THR	A	99	177.118	173.088	200.325	1.00	30.51		O
ATOM	688	CB	THR	A	99	176.957	172.634	203.445	1.00	26.17		C
ATOM	689	OG1	THR	A	99	177.676	173.193	204.551	1.00	29.81		O
ATOM	690	CG2	THR	A	99	176.110	171.475	203.937	1.00	27.12		C
ATOM	691	N	VAL	A	100	176.815	170.878	200.663	1.00	13.09		N
ATOM	692	CA	VAL	A	100	176.196	170.613	199.370	1.00	13.35		C
ATOM	693	C	VAL	A	100	174.855	169.929	199.599	1.00	15.57		C
ATOM	694	O	VAL	A	100	174.720	169.090	200.497	1.00	25.07		O
ATOM	695	CB	VAL	A	100	177.105	169.746	198.471	1.00	20.23		C
ATOM	696	CG1	VAL	A	100	176.489	169.567	197.092	1.00	20.07		C
ATOM	697	CG2	VAL	A	100	178.486	170.364	198.363	1.00	14.63		C
ATOM	698	N	ALA	A	101	173.860	170.300	198.794	1.00	13.54		N
ATOM	699	CA	ALA	A	101	172.528	169.707	198.860	1.00	8.65		C
ATOM	700	C	ALA	A	101	172.201	169.070	197.516	1.00	15.97		C
ATOM	701	O	ALA	A	101	172.044	169.773	196.514	1.00	31.68		O
ATOM	702	CB	ALA	A	101	171.481	170.753	199.235	1.00	12.04		C
ATOM	703	N	LEU	A	102	172.092	167.743	197.502	1.00	14.77		N
ATOM	704	CA	LEU	A	102	171.724	166.992	196.305	1.00	11.19		C
ATOM	705	C	LEU	A	102	170.205	166.931	196.200	1.00	11.05		C
ATOM	706	O	LEU	A	102	169.545	166.290	197.024	1.00	20.62		O
ATOM	707	CB	LEU	A	102	172.322	165.589	196.355	1.00	11.63		C
ATOM	708	CG	LEU	A	102	173.459	165.273	195.385	1.00	18.42		C
ATOM	709	CD1	LEU	A	102	174.110	163.948	195.740	1.00	17.51		C
ATOM	710	CD2	LEU	A	102	172.935	165.242	193.962	1.00	19.26		C
ATOM	711	N	THR	A	103	169.652	167.564	195.167	1.00	9.94		N
ATOM	712	CA	THR	A	103	168.213	167.704	194.981	1.00	9.77		C
ATOM	713	C	THR	A	103	167.765	166.831	193.815	1.00	19.47		C
ATOM	714	O	THR	A	103	168.183	167.054	192.673	1.00	28.97		O

ATOM	715	CB	THR	A	103	167.849	169.164	194.728	1.00	14.36	C
ATOM	716	OG1	THR	A	103	168.459	169.995	195.724	1.00	19.09	O
ATOM	717	CG2	THR	A	103	166.353	169.347	194.748	1.00	27.15	C
ATOM	718	N	ILE	A	104	166.892	165.865	194.098	1.00	18.26	N
ATOM	719	CA	ILE	A	104	166.362	164.960	193.086	1.00	23.90	C
ATOM	720	C	ILE	A	104	164.849	165.124	193.016	1.00	33.03	C
ATOM	721	O	ILE	A	104	164.169	165.282	194.037	1.00	36.80	O
ATOM	722	CB	ILE	A	104	166.745	163.493	193.378	1.00	21.74	C
ATOM	723	CG1	ILE	A	104	168.226	163.392	193.744	1.00	25.97	C
ATOM	724	CG2	ILE	A	104	166.440	162.611	192.180	1.00	18.22	C
ATOM	725	CD1	ILE	A	104	168.504	162.488	194.922	1.00	25.38	C
ATOM	726	N	ALA	A	105	164.325	165.103	191.792	1.00	36.33	N
ATOM	727	CA	ALA	A	105	162.897	165.229	191.532	1.00	35.59	C
ATOM	728	C	ALA	A	105	162.407	163.992	190.793	1.00	38.63	C
ATOM	729	O	ALA	A	105	163.061	163.529	189.853	1.00	50.01	O
ATOM	730	CB	ALA	A	105	162.597	166.488	190.716	1.00	28.24	C
ATOM	731	N	GLY	A	106	161.267	163.465	191.212	1.00	37.03	N
ATOM	732	CA	GLY	A	106	160.712	162.268	190.601	1.00	34.26	C
ATOM	733	C	GLY	A	106	159.228	162.391	190.336	1.00	46.36	C
ATOM	734	O	GLY	A	106	158.493	163.000	191.113	1.00	50.84	O
ATOM	735	N	TYR	A	107	158.799	161.820	189.209	1.00	57.50	N
ATOM	736	CA	TYR	A	107	157.383	161.729	188.864	1.00	57.92	C
ATOM	737	C	TYR	A	107	156.920	160.277	188.829	1.00	60.04	C
ATOM	738	O	TYR	A	107	156.012	159.902	189.573	1.00	56.58	O
ATOM	739	CB	TYR	A	107	157.135	162.416	187.517	1.00	50.92	C
ATOM	740	CG	TYR	A	107	155.719	162.305	186.985	1.00	54.78	C
ATOM	741	CD1	TYR	A	107	154.626	162.243	187.841	1.00	58.11	C
ATOM	742	CD2	TYR	A	107	155.481	162.244	185.618	1.00	55.11	C
ATOM	743	CE1	TYR	A	107	153.338	162.132	187.349	1.00	57.38	C
ATOM	744	CE2	TYR	A	107	154.198	162.135	185.118	1.00	54.77	C
ATOM	745	CZ	TYR	A	107	153.131	162.080	185.986	1.00	55.71	C
ATOM	746	OH	TYR	A	107	151.852	161.971	185.491	1.00	54.80	O
ATOM	747	N	GLN	A	108	157.522	159.442	187.977	1.00	61.93	N
ATOM	748	CA	GLN	A	108	157.140	158.040	187.862	1.00	58.60	C
ATOM	749	C	GLN	A	108	158.336	157.156	187.533	1.00	59.49	C
ATOM	750	O	GLN	A	108	158.191	156.161	186.813	1.00	60.86	O
ATOM	751	CB	GLN	A	108	156.045	157.849	186.812	1.00	57.32	C
ATOM	752	CG	GLN	A	108	154.653	157.712	187.400	1.00	58.35	C
ATOM	753	CD	GLN	A	108	153.607	158.464	186.604	1.00	62.57	C
ATOM	754	OE1	GLN	A	108	153.841	158.852	185.459	1.00	62.08	O
ATOM	755	NE2	GLN	A	108	152.444	158.676	187.207	1.00	60.82	N
ATOM	756	N	GLU	A	109	159.521	157.515	188.028	1.00	55.59	N
ATOM	757	CA	GLU	A	109	160.768	156.883	187.606	1.00	54.41	C
ATOM	758	C	GLU	A	109	160.694	155.365	187.705	1.00	54.94	C
ATOM	759	O	GLU	A	109	160.071	154.814	188.615	1.00	60.16	O
ATOM	760	CB	GLU	A	109	161.934	157.399	188.450	1.00	51.51	C
ATOM	761	CG	GLU	A	109	163.296	157.108	187.845	1.00	53.46	C
ATOM	762	CD	GLU	A	109	163.416	157.621	186.421	1.00	59.80	C
ATOM	763	OE1	GLU	A	109	162.955	158.751	186.154	1.00	58.10	O
ATOM	764	OE2	GLU	A	109	163.967	156.895	185.568	1.00	60.48	O

ATOM	765	N	ASN	A	110	161.329	154.702	186.745	1.00	49.94	N
ATOM	766	CA	ASN	A	110	161.356	153.249	186.713	1.00	50.44	C
ATOM	767	C	ASN	A	110	162.007	152.719	187.990	1.00	51.66	C
ATOM	768	O	ASN	A	110	162.994	153.295	188.466	1.00	54.14	O
ATOM	769	CB	ASN	A	110	162.132	152.772	185.481	1.00	50.93	C
ATOM	770	CG	ASN	A	110	161.839	151.328	185.117	1.00	55.89	C
ATOM	771	OD1	ASN	A	110	160.714	150.853	185.260	1.00	58.10	O
ATOM	772	ND2	ASN	A	110	162.856	150.624	184.634	1.00	54.16	N
ATOM	773	N	PRO	A	111	161.483	151.638	188.581	1.00	47.52	N
ATOM	774	CA	PRO	A	111	162.100	151.089	189.798	1.00	49.62	C
ATOM	775	C	PRO	A	111	163.499	150.540	189.566	1.00	50.09	C
ATOM	776	O	PRO	A	111	164.154	150.081	190.507	1.00	51.32	O
ATOM	777	CB	PRO	A	111	161.128	149.974	190.209	1.00	51.71	C
ATOM	778	CG	PRO	A	111	159.829	150.357	189.590	1.00	51.00	C
ATOM	779	CD	PRO	A	111	160.189	150.999	188.286	1.00	47.85	C
ATOM	780	N	GLU	A	112	163.966	150.577	188.319	1.00	51.22	N
ATOM	781	CA	GLU	A	112	165.297	150.107	187.967	1.00	51.37	C
ATOM	782	C	GLU	A	112	166.295	151.248	187.833	1.00	53.49	C
ATOM	783	O	GLU	A	112	167.469	151.071	188.149	1.00	54.63	O
ATOM	784	CB	GLU	A	112	165.231	149.324	186.646	1.00	54.91	C
ATOM	785	CG	GLU	A	112	166.518	148.687	186.107	1.00	58.41	C
ATOM	786	CD	GLU	A	112	167.440	148.143	187.188	1.00	60.22	C
ATOM	787	OE1	GLU	A	112	168.432	148.810	187.535	1.00	58.72	O
ATOM	788	OE2	GLU	A	112	167.156	147.041	187.706	1.00	59.15	O
ATOM	789	N	TYR	A	113	165.844	152.428	187.411	1.00	47.62	N
ATOM	790	CA	TYR	A	113	166.716	153.589	187.291	1.00	44.04	C
ATOM	791	C	TYR	A	113	166.810	154.386	188.584	1.00	48.99	C
ATOM	792	O	TYR	A	113	167.882	154.919	188.900	1.00	52.00	O
ATOM	793	CB	TYR	A	113	166.216	154.502	186.169	1.00	47.68	C
ATOM	794	CG	TYR	A	113	166.314	153.898	184.787	1.00	54.58	C
ATOM	795	CD1	TYR	A	113	165.222	153.909	183.933	1.00	51.10	C
ATOM	796	CD2	TYR	A	113	167.502	153.343	184.325	1.00	54.62	C
ATOM	797	CE1	TYR	A	113	165.294	153.364	182.670	1.00	51.86	C
ATOM	798	CE2	TYR	A	113	167.587	152.797	183.055	1.00	50.16	C
ATOM	799	CZ	TYR	A	113	166.478	152.812	182.233	1.00	51.59	C
ATOM	800	OH	TYR	A	113	166.546	152.274	180.968	1.00	49.72	O
ATOM	801	N	LEU	A	114	165.710	154.481	189.335	1.00	46.00	N
ATOM	802	CA	LEU	A	114	165.725	155.234	190.584	1.00	44.35	C
ATOM	803	C	LEU	A	114	166.657	154.593	191.602	1.00	41.09	C
ATOM	804	O	LEU	A	114	167.339	155.297	192.355	1.00	51.25	O
ATOM	805	CB	LEU	A	114	164.311	155.347	191.152	1.00	45.61	C
ATOM	806	CG	LEU	A	114	164.145	156.272	192.358	1.00	47.41	C
ATOM	807	CD1	LEU	A	114	164.747	157.638	192.073	1.00	40.77	C
ATOM	808	CD2	LEU	A	114	162.680	156.396	192.737	1.00	41.94	C
ATOM	809	N	ILE	A	115	166.695	153.260	191.646	1.00	31.81	N
ATOM	810	CA	ILE	A	115	167.596	152.579	192.570	1.00	38.22	C
ATOM	811	C	ILE	A	115	169.048	152.872	192.209	1.00	39.73	C
ATOM	812	O	ILE	A	115	169.879	153.126	193.088	1.00	44.42	O
ATOM	813	CB	ILE	A	115	167.297	151.066	192.599	1.00	39.67	C
ATOM	814	CG1	ILE	A	115	168.283	150.333	193.511	1.00	37.15	C

ATOM	815	CG2	ILE	A	115	167.308	150.472	191.202	1.00	41.53	C
ATOM	816	CD1	ILE	A	115	168.341	150.887	194.916	1.00	41.68	C
ATOM	817	N	LYS	A	116	169.376	152.855	190.913	1.00	38.52	N
ATOM	818	CA	LYS	A	116	170.733	153.191	190.491	1.00	40.07	C
ATOM	819	C	LYS	A	116	171.083	154.624	190.871	1.00	39.25	C
ATOM	820	O	LYS	A	116	172.184	154.899	191.362	1.00	42.05	O
ATOM	821	CB	LYS	A	116	170.892	152.987	188.984	1.00	39.84	C
ATOM	822	CG	LYS	A	116	171.095	151.544	188.554	1.00	36.56	C
ATOM	823	CD	LYS	A	116	170.502	151.289	187.175	1.00	41.29	C
ATOM	824	CE	LYS	A	116	170.882	152.392	186.197	1.00	46.30	C
ATOM	825	NZ	LYS	A	116	170.871	151.920	184.784	1.00	42.75	N
ATOM	826	N	CYS	A	117	170.150	155.553	190.649	1.00	36.55	N
ATOM	827	CA	CYS	A	117	170.386	156.951	190.998	1.00	30.77	C
ATOM	828	C	CYS	A	117	170.632	157.112	192.493	1.00	37.56	C
ATOM	829	O	CYS	A	117	171.557	157.813	192.918	1.00	43.44	O
ATOM	830	CB	CYS	A	117	169.196	157.805	190.554	1.00	29.68	C
ATOM	831	SG	CYS	A	117	169.373	159.569	190.905	1.00	45.89	S
ATOM	832	N	LEU	A	118	169.804	156.455	193.310	1.00	36.80	N
ATOM	833	CA	LEU	A	118	169.930	156.586	194.757	1.00	31.19	C
ATOM	834	C	LEU	A	118	171.226	155.965	195.262	1.00	31.02	C
ATOM	835	O	LEU	A	118	171.894	156.534	196.133	1.00	37.89	O
ATOM	836	CB	LEU	A	118	168.720	155.958	195.446	1.00	35.23	C
ATOM	837	CG	LEU	A	118	167.403	156.717	195.264	1.00	32.65	C
ATOM	838	CD1	LEU	A	118	166.289	156.076	196.075	1.00	33.37	C
ATOM	839	CD2	LEU	A	118	167.569	158.183	195.636	1.00	29.43	C
ATOM	840	N	GLU	A	119	171.605	154.800	194.729	1.00	24.29	N
ATOM	841	CA	GLU	A	119	172.868	154.191	195.135	1.00	25.91	C
ATOM	842	C	GLU	A	119	174.057	155.047	194.714	1.00	32.96	C
ATOM	843	O	GLU	A	119	175.028	155.181	195.469	1.00	35.91	O
ATOM	844	CB	GLU	A	119	172.992	152.779	194.564	1.00	27.03	C
ATOM	845	CG	GLU	A	119	171.899	151.824	195.010	1.00	33.17	C
ATOM	846	CD	GLU	A	119	172.170	151.219	196.372	1.00	42.91	C
ATOM	847	OE1	GLU	A	119	173.337	150.870	196.647	1.00	41.84	O
ATOM	848	OE2	GLU	A	119	171.216	151.091	197.168	1.00	45.59	O
ATOM	849	N	SER	A	120	174.004	155.631	193.514	1.00	37.83	N
ATOM	850	CA	SER	A	120	175.086	156.507	193.075	1.00	34.92	C
ATOM	851	C	SER	A	120	175.193	157.738	193.964	1.00	32.39	C
ATOM	852	O	SER	A	120	176.299	158.175	194.302	1.00	32.33	O
ATOM	853	CB	SER	A	120	174.876	156.911	191.617	1.00	28.91	C
ATOM	854	OG	SER	A	120	173.717	157.713	191.472	1.00	30.10	O
ATOM	855	N	CYS	A	121	174.052	158.317	194.348	1.00	34.17	N
ATOM	856	CA	CYS	A	121	174.073	159.452	195.267	1.00	31.25	C
ATOM	857	C	CYS	A	121	174.636	159.051	196.625	1.00	33.15	C
ATOM	858	O	CYS	A	121	175.402	159.805	197.236	1.00	44.12	O
ATOM	859	CB	CYS	A	121	172.667	160.031	195.419	1.00	30.81	C
ATOM	860	SG	CYS	A	121	172.063	160.925	193.970	1.00	48.25	S
ATOM	861	N	LYS	A	122	174.259	157.868	197.116	1.00	33.30	N
ATOM	862	CA	LYS	A	122	174.739	157.407	198.415	1.00	27.81	C
ATOM	863	C	LYS	A	122	176.244	157.170	198.407	1.00	27.80	C
ATOM	864	O	LYS	A	122	176.937	157.517	199.370	1.00	32.18	O

ATOM	865	CB	LYS	A	122	173.999	156.132	198.819	1.00	26.17	C
ATOM	866	CG	LYS	A	122	174.627	155.385	199.982	1.00	28.68	C
ATOM	867	CD	LYS	A	122	173.660	154.378	200.579	1.00	30.62	C
ATOM	868	CE	LYS	A	122	173.909	152.985	200.028	1.00	30.82	C
ATOM	869	NZ	LYS	A	122	173.319	151.928	200.894	1.00	31.06	N
ATOM	870	N	TYR	A	123	176.769	156.586	197.330	1.00	28.64	N
ATOM	871	CA	TYR	A	123	178.163	156.169	197.271	1.00	29.44	C
ATOM	872	C	TYR	A	123	179.071	157.222	196.643	1.00	32.58	C
ATOM	873	O	TYR	A	123	180.181	156.893	196.211	1.00	39.90	O
ATOM	874	CB	TYR	A	123	178.282	154.847	196.512	1.00	32.99	C
ATOM	875	CG	TYR	A	123	177.885	153.639	197.329	1.00	37.46	C
ATOM	876	CD1	TYR	A	123	178.529	153.343	198.523	1.00	35.88	C
ATOM	877	CD2	TYR	A	123	176.865	152.797	196.909	1.00	35.04	C
ATOM	878	CE1	TYR	A	123	178.170	152.242	199.274	1.00	33.73	C
ATOM	879	CE2	TYR	A	123	176.498	151.693	197.654	1.00	36.17	C
ATOM	880	CZ	TYR	A	123	177.154	151.421	198.835	1.00	38.66	C
ATOM	881	OH	TYR	A	123	176.792	150.322	199.581	1.00	36.30	O
ATOM	882	N	VAL	A	124	178.626	158.479	196.582	1.00	27.68	N
ATOM	883	CA	VAL	A	124	179.477	159.532	196.040	1.00	28.09	C
ATOM	884	C	VAL	A	124	180.627	159.817	197.004	1.00	24.69	C
ATOM	885	O	VAL	A	124	180.572	159.509	198.201	1.00	28.40	O
ATOM	886	CB	VAL	A	124	178.660	160.802	195.750	1.00	26.67	C
ATOM	887	CG1	VAL	A	124	178.528	161.652	197.000	1.00	24.94	C
ATOM	888	CG2	VAL	A	124	179.284	161.597	194.611	1.00	28.00	C
ATOM	889	N	LYS	A	125	181.694	160.408	196.466	1.00	25.89	N
ATOM	890	CA	LYS	A	125	182.903	160.688	197.239	1.00	29.07	C
ATOM	891	C	LYS	A	125	182.848	162.134	197.725	1.00	33.05	C
ATOM	892	O	LYS	A	125	183.322	163.065	197.074	1.00	33.67	O
ATOM	893	CB	LYS	A	125	184.151	160.411	196.405	1.00	33.23	C
ATOM	894	CG	LYS	A	125	185.459	160.734	197.110	1.00	32.90	C
ATOM	895	CD	LYS	A	125	186.590	159.857	196.601	1.00	32.66	C
ATOM	896	CE	LYS	A	125	186.198	158.388	196.615	1.00	32.19	C
ATOM	897	NZ	LYS	A	125	185.811	157.931	197.978	1.00	29.95	N
ATOM	898	N	TYR	A	126	182.241	162.313	198.901	1.00	28.34	N
ATOM	899	CA	TYR	A	126	182.156	163.604	199.568	1.00	20.81	C
ATOM	900	C	TYR	A	126	181.781	163.335	201.014	1.00	29.85	C
ATOM	901	O	TYR	A	126	181.047	162.372	201.272	1.00	33.80	O
ATOM	902	CB	TYR	A	126	181.120	164.519	198.904	1.00	15.18	C
ATOM	903	CG	TYR	A	126	181.353	165.992	199.157	1.00	17.43	C
ATOM	904	CD1	TYR	A	126	182.494	166.625	198.684	1.00	22.72	C
ATOM	905	CD2	TYR	A	126	180.437	166.747	199.875	1.00	24.05	C
ATOM	906	CE1	TYR	A	126	182.714	167.967	198.916	1.00	24.27	C
ATOM	907	CE2	TYR	A	126	180.649	168.090	200.112	1.00	20.93	C
ATOM	908	CZ	TYR	A	126	181.788	168.695	199.631	1.00	23.61	C
ATOM	909	OH	TYR	A	126	182.003	170.033	199.864	1.00	21.42	O
ATOM	910	N	PRO	A	127	182.266	164.128	201.971	1.00	24.65	N
ATOM	911	CA	PRO	A	127	181.946	163.861	203.379	1.00	14.42	C
ATOM	912	C	PRO	A	127	180.445	163.861	203.628	1.00	18.47	C
ATOM	913	O	PRO	A	127	179.701	164.669	203.068	1.00	22.49	O
ATOM	914	CB	PRO	A	127	182.641	165.006	204.122	1.00	10.93	C

ATOM	915	CG	PRO	A	127	183.760	165.402	203.228	1.00	18.58	C
ATOM	916	CD	PRO	A	127	183.258	165.207	201.826	1.00	22.03	C
ATOM	917	N	LYS	A	128	180.005	162.933	204.481	1.00	19.98	N
ATOM	918	CA	LYS	A	128	178.582	162.785	204.762	1.00	10.93	C
ATOM	919	C	LYS	A	128	178.039	163.913	205.628	1.00	15.26	C
ATOM	920	O	LYS	A	128	176.829	164.164	205.606	1.00	26.53	O
ATOM	921	CB	LYS	A	128	178.317	161.439	205.435	1.00	14.19	C
ATOM	922	CG	LYS	A	128	178.066	160.301	204.461	1.00	16.69	C
ATOM	923	CD	LYS	A	128	178.294	158.952	205.119	1.00	25.71	C
ATOM	924	CE	LYS	A	128	177.420	158.782	206.349	1.00	23.82	C
ATOM	925	NZ	LYS	A	128	177.609	157.448	206.979	1.00	23.85	N
ATOM	926	N	ASP	A	129	178.895	164.592	206.388	1.00	11.74	N
ATOM	927	CA	ASP	A	129	178.464	165.729	207.189	1.00	7.99	C
ATOM	928	C	ASP	A	129	178.387	167.019	206.385	1.00	23.30	C
ATOM	929	O	ASP	A	129	177.969	168.046	206.930	1.00	34.65	O
ATOM	930	CB	ASP	A	129	179.398	165.914	208.388	1.00	13.29	C
ATOM	931	CG	ASP	A	129	180.855	165.993	207.985	1.00	22.20	C
ATOM	932	OD1	ASP	A	129	181.321	165.090	207.260	1.00	26.12	O
ATOM	933	OD2	ASP	A	129	181.537	166.954	208.398	1.00	36.77	O
ATOM	934	N	LYS	A	130	178.777	166.991	205.110	1.00	19.64	N
ATOM	935	CA	LYS	A	130	178.668	168.145	204.232	1.00	13.61	C
ATOM	936	C	LYS	A	130	177.693	167.938	203.083	1.00	15.74	C
ATOM	937	O	LYS	A	130	177.458	168.879	202.317	1.00	30.11	O
ATOM	938	CB	LYS	A	130	180.046	168.511	203.660	1.00	21.13	C
ATOM	939	CG	LYS	A	130	181.173	168.456	204.674	1.00	18.94	C
ATOM	940	CD	LYS	A	130	181.103	169.628	205.635	1.00	17.56	C
ATOM	941	CE	LYS	A	130	182.382	169.752	206.443	1.00	20.58	C
ATOM	942	NZ	LYS	A	130	182.250	170.754	207.534	1.00	24.01	N
ATOM	943	N	LEU	A	131	177.122	166.745	202.939	1.00	13.25	N
ATOM	944	CA	LEU	A	131	176.195	166.437	201.860	1.00	14.61	C
ATOM	945	C	LEU	A	131	174.839	166.072	202.444	1.00	14.98	C
ATOM	946	O	LEU	A	131	174.748	165.200	203.315	1.00	16.26	O
ATOM	947	CB	LEU	A	131	176.720	165.291	200.992	1.00	5.59	C
ATOM	948	CG	LEU	A	131	175.949	165.031	199.697	1.00	18.75	C
ATOM	949	CD1	LEU	A	131	176.075	166.205	198.742	1.00	12.92	C
ATOM	950	CD2	LEU	A	131	176.427	163.751	199.042	1.00	19.77	C
ATOM	951	N	LYS	A	132	173.793	166.737	201.962	1.00	11.15	N
ATOM	952	CA	LYS	A	132	172.425	166.484	202.393	1.00	1.62	C
ATOM	953	C	LYS	A	132	171.577	166.172	201.169	1.00	11.57	C
ATOM	954	O	LYS	A	132	171.589	166.931	200.197	1.00	23.95	O
ATOM	955	CB	LYS	A	132	171.866	167.689	203.157	1.00	8.83	C
ATOM	956	CG	LYS	A	132	170.377	167.921	202.986	1.00	16.56	C
ATOM	957	CD	LYS	A	132	169.990	169.322	203.429	1.00	16.29	C
ATOM	958	CE	LYS	A	132	170.360	169.559	204.883	1.00	15.69	C
ATOM	959	NZ	LYS	A	132	169.560	170.656	205.487	1.00	15.92	N
ATOM	960	N	ILE	A	133	170.839	165.066	201.219	1.00	18.59	N
ATOM	961	CA	ILE	A	133	170.115	164.542	200.065	1.00	12.44	C
ATOM	962	C	ILE	A	133	168.623	164.763	200.273	1.00	16.57	C
ATOM	963	O	ILE	A	133	168.074	164.387	201.316	1.00	24.63	O
ATOM	964	CB	ILE	A	133	170.424	163.052	199.840	1.00	1.27	C

ATOM	965	CG1	ILE	A	133	171.932	162.842	199.699	1.00	10.23	C
ATOM	966	CG2	ILE	A	133	169.691	162.533	198.615	1.00	11.70	C
ATOM	967	CD1	ILE	A	133	172.351	161.394	199.712	1.00	19.38	C
ATOM	968	N	ILE	A	134	167.973	165.378	199.286	1.00	16.48	N
ATOM	969	CA	ILE	A	134	166.538	165.636	199.311	1.00	19.13	C
ATOM	970	C	ILE	A	134	165.930	165.092	198.027	1.00	17.13	C
ATOM	971	O	ILE	A	134	166.460	165.331	196.935	1.00	21.89	O
ATOM	972	CB	ILE	A	134	166.226	167.138	199.458	1.00	11.00	C
ATOM	973	CG1	ILE	A	134	167.033	167.743	200.607	1.00	16.33	C
ATOM	974	CG2	ILE	A	134	164.738	167.357	199.677	1.00	15.02	C
ATOM	975	CD1	ILE	A	134	168.202	168.574	200.147	1.00	17.80	C
ATOM	976	N	LEU	A	135	164.827	164.357	198.159	1.00	12.26	N
ATOM	977	CA	LEU	A	135	164.093	163.820	197.021	1.00	12.38	C
ATOM	978	C	LEU	A	135	162.636	164.243	197.129	1.00	20.51	C
ATOM	979	O	LEU	A	135	161.992	164.010	198.159	1.00	19.81	O
ATOM	980	CB	LEU	A	135	164.200	162.293	196.956	1.00	23.52	C
ATOM	981	CG	LEU	A	135	163.227	161.586	196.010	1.00	21.92	C
ATOM	982	CD1	LEU	A	135	163.729	161.647	194.576	1.00	17.46	C
ATOM	983	CD2	LEU	A	135	163.006	160.145	196.440	1.00	14.86	C
ATOM	984	N	VAL	A	136	162.120	164.853	196.064	1.00	30.67	N
ATOM	985	CA	VAL	A	136	160.751	165.355	196.018	1.00	25.07	C
ATOM	986	C	VAL	A	136	159.991	164.586	194.947	1.00	24.85	C
ATOM	987	O	VAL	A	136	160.448	164.486	193.802	1.00	32.96	O
ATOM	988	CB	VAL	A	136	160.710	166.868	195.746	1.00	17.66	C
ATOM	989	CG1	VAL	A	136	159.315	167.410	196.003	1.00	15.64	C
ATOM	990	CG2	VAL	A	136	161.731	167.587	196.606	1.00	19.90	C
ATOM	991	N	ILE	A	137	158.827	164.061	195.319	1.00	25.47	N
ATOM	992	CA	ILE	A	137	158.034	163.174	194.477	1.00	21.01	C
ATOM	993	C	ILE	A	137	156.716	163.863	194.153	1.00	29.22	C
ATOM	994	O	ILE	A	137	156.076	164.446	195.037	1.00	35.39	O
ATOM	995	CB	ILE	A	137	157.794	161.820	195.167	1.00	24.95	C
ATOM	996	CG1	ILE	A	137	159.090	161.009	195.214	1.00	29.34	C
ATOM	997	CG2	ILE	A	137	156.711	161.031	194.453	1.00	26.00	C
ATOM	998	CD1	ILE	A	137	159.170	160.066	196.390	1.00	25.41	C
ATOM	999	N	ASP	A	138	156.331	163.823	192.880	1.00	40.32	N
ATOM	1000	CA	ASP	A	138	155.040	164.340	192.454	1.00	38.57	C
ATOM	1001	C	ASP	A	138	153.945	163.304	192.676	1.00	42.67	C
ATOM	1002	O	ASP	A	138	154.195	162.096	192.680	1.00	53.80	O
ATOM	1003	CB	ASP	A	138	155.078	164.733	190.976	1.00	38.95	C
ATOM	1004	CG	ASP	A	138	155.496	166.171	190.765	1.00	46.81	C
ATOM	1005	OD1	ASP	A	138	154.952	167.058	191.455	1.00	46.69	O
ATOM	1006	OD2	ASP	A	138	156.369	166.416	189.905	1.00	50.86	O
ATOM	1007	N	GLY	A	139	152.720	163.788	192.859	1.00	33.12	N
ATOM	1008	CA	GLY	A	139	151.573	162.904	192.900	1.00	40.97	C
ATOM	1009	C	GLY	A	139	151.475	162.015	194.123	1.00	42.46	C
ATOM	1010	O	GLY	A	139	151.669	160.800	194.027	1.00	46.22	O
ATOM	1011	N	ASN	A	140	151.180	162.602	195.282	1.00	37.80	N
ATOM	1012	CA	ASN	A	140	150.988	161.820	196.498	1.00	40.11	C
ATOM	1013	C	ASN	A	140	149.632	161.122	196.498	1.00	45.33	C
ATOM	1014	O	ASN	A	140	148.811	161.347	197.393	1.00	48.57	O

ATOM	1015	CB	ASN	A	140	151.126	162.715	197.731	1.00	38.05	C
ATOM	1016	CG	ASN	A	140	150.287	163.979	197.637	1.00	37.83	C
ATOM	1017	OD1	ASN	A	140	149.278	164.025	196.933	1.00	35.50	O
ATOM	1018	ND2	ASN	A	140	150.701	165.012	198.356	1.00	40.74	N
ATOM	1019	N	THR	A	141	149.393	160.261	195.508	1.00	50.92	N
ATOM	1020	CA	THR	A	141	148.101	159.614	195.319	1.00	49.57	C
ATOM	1021	C	THR	A	141	148.141	158.128	195.670	1.00	51.99	C
ATOM	1022	O	THR	A	141	147.395	157.332	195.092	1.00	53.70	O
ATOM	1023	CB	THR	A	141	147.615	159.803	193.883	1.00	51.19	C
ATOM	1024	OG1	THR	A	141	148.535	159.177	192.980	1.00	51.12	O
ATOM	1025	CG2	THR	A	141	147.515	161.283	193.549	1.00	51.32	C
ATOM	1026	N	GLU	A	142	149.039	157.743	196.581	1.00	53.94	N
ATOM	1027	CA	GLU	A	142	149.134	156.390	197.128	1.00	53.85	C
ATOM	1028	C	GLU	A	142	149.681	155.410	196.093	1.00	54.40	C
ATOM	1029	O	GLU	A	142	149.973	154.254	196.415	1.00	49.42	O
ATOM	1030	CB	GLU	A	142	147.770	155.928	197.661	1.00	54.02	C
ATOM	1031	CG	GLU	A	142	147.797	154.657	198.499	1.00	55.88	C
ATOM	1032	CD	GLU	A	142	146.505	153.869	198.400	1.00	62.09	C
ATOM	1033	OE1	GLU	A	142	145.662	154.214	197.545	1.00	62.99	O
ATOM	1034	OE2	GLU	A	142	146.331	152.907	199.177	1.00	59.26	O
ATOM	1035	N	ASP	A	143	149.846	155.866	194.853	1.00	55.86	N
ATOM	1036	CA	ASP	A	143	150.484	155.072	193.813	1.00	51.84	C
ATOM	1037	C	ASP	A	143	151.954	155.417	193.629	1.00	55.80	C
ATOM	1038	O	ASP	A	143	152.636	154.753	192.840	1.00	58.68	O
ATOM	1039	CB	ASP	A	143	149.748	155.248	192.479	1.00	51.29	C
ATOM	1040	CG	ASP	A	143	148.357	154.646	192.496	1.00	59.13	C
ATOM	1041	OD1	ASP	A	143	147.792	154.420	191.406	1.00	57.98	O
ATOM	1042	OD2	ASP	A	143	147.829	154.398	193.600	1.00	62.16	O
ATOM	1043	N	ASP	A	144	152.454	156.432	194.331	1.00	47.04	N
ATOM	1044	CA	ASP	A	144	153.845	156.850	194.235	1.00	42.95	C
ATOM	1045	C	ASP	A	144	154.625	156.581	195.515	1.00	45.52	C
ATOM	1046	O	ASP	A	144	155.745	157.081	195.663	1.00	52.16	O
ATOM	1047	CB	ASP	A	144	153.923	158.333	193.871	1.00	44.87	C
ATOM	1048	CG	ASP	A	144	153.264	158.640	192.540	1.00	49.38	C
ATOM	1049	OD1	ASP	A	144	152.026	158.513	192.445	1.00	48.96	O
ATOM	1050	OD2	ASP	A	144	153.984	159.012	191.590	1.00	53.20	O
ATOM	1051	N	ALA	A	145	154.062	155.806	196.445	1.00	38.28	N
ATOM	1052	CA	ALA	A	145	154.767	155.474	197.676	1.00	40.66	C
ATOM	1053	C	ALA	A	145	155.877	154.455	197.461	1.00	39.91	C
ATOM	1054	O	ALA	A	145	156.729	154.296	198.345	1.00	46.19	O
ATOM	1055	CB	ALA	A	145	153.779	154.951	198.721	1.00	37.61	C
ATOM	1056	N	TYR	A	146	155.884	153.764	196.321	1.00	34.18	N
ATOM	1057	CA	TYR	A	146	156.940	152.815	195.996	1.00	39.40	C
ATOM	1058	C	TYR	A	146	158.294	153.481	195.798	1.00	40.18	C
ATOM	1059	O	TYR	A	146	159.320	152.798	195.886	1.00	44.13	O
ATOM	1060	CB	TYR	A	146	156.546	152.013	194.749	1.00	37.51	C
ATOM	1061	CG	TYR	A	146	156.838	152.692	193.426	1.00	36.67	C
ATOM	1062	CD1	TYR	A	146	158.050	152.509	192.771	1.00	35.02	C
ATOM	1063	CD2	TYR	A	146	155.890	153.512	192.827	1.00	36.88	C
ATOM	1064	CE1	TYR	A	146	158.311	153.128	191.564	1.00	33.44	C

ATOM	1065	CE2	TYR	A	146	156.142	154.134	191.621	1.00	38.77	C
ATOM	1066	CZ	TYR	A	146	157.353	153.939	190.993	1.00	39.03	C
ATOM	1067	OH	TYR	A	146	157.607	154.558	189.791	1.00	39.78	O
ATOM	1068	N	MET	A	147	158.324	154.788	195.537	1.00	30.44	N
ATOM	1069	CA	MET	A	147	159.575	155.528	195.472	1.00	31.46	C
ATOM	1070	C	MET	A	147	160.062	155.988	196.838	1.00	35.31	C
ATOM	1071	O	MET	A	147	161.267	155.917	197.105	1.00	41.05	O
ATOM	1072	CB	MET	A	147	159.425	156.741	194.547	1.00	31.18	C
ATOM	1073	CG	MET	A	147	158.929	156.388	193.155	1.00	38.05	C
ATOM	1074	SD	MET	A	147	159.007	157.771	192.005	1.00	44.92	S
ATOM	1075	CE	MET	A	147	157.306	158.321	192.046	1.00	37.44	C
ATOM	1076	N	MET	A	148	159.157	156.434	197.712	1.00	33.74	N
ATOM	1077	CA	MET	A	148	159.546	156.764	199.077	1.00	32.49	C
ATOM	1078	C	MET	A	148	160.019	155.528	199.831	1.00	35.61	C
ATOM	1079	O	MET	A	148	160.962	155.606	200.627	1.00	36.83	O
ATOM	1080	CB	MET	A	148	158.379	157.417	199.819	1.00	29.45	C
ATOM	1081	CG	MET	A	148	158.677	157.711	201.280	1.00	36.06	C
ATOM	1082	SD	MET	A	148	157.634	159.005	201.971	1.00	47.46	S
ATOM	1083	CE	MET	A	148	156.066	158.148	202.041	1.00	41.30	C
ATOM	1084	N	GLU	A	149	159.374	154.381	199.599	1.00	37.08	N
ATOM	1085	CA	GLU	A	149	159.809	153.149	200.250	1.00	31.55	C
ATOM	1086	C	GLU	A	149	161.227	152.780	199.833	1.00	29.54	C
ATOM	1087	O	GLU	A	149	162.054	152.403	200.672	1.00	35.93	O
ATOM	1088	CB	GLU	A	149	158.839	152.014	199.920	1.00	32.33	C
ATOM	1089	CG	GLU	A	149	158.399	151.197	201.124	1.00	40.37	C
ATOM	1090	CD	GLU	A	149	157.639	152.020	202.146	1.00	42.77	C
ATOM	1091	OE1	GLU	A	149	157.687	151.673	203.345	1.00	42.59	O
ATOM	1092	OE2	GLU	A	149	156.983	153.008	201.752	1.00	39.84	O
ATOM	1093	N	MET	A	150	161.532	152.899	198.539	1.00	30.99	N
ATOM	1094	CA	MET	A	150	162.881	152.612	198.067	1.00	32.25	C
ATOM	1095	C	MET	A	150	163.887	153.630	198.590	1.00	35.78	C
ATOM	1096	O	MET	A	150	165.024	153.265	198.910	1.00	38.89	O
ATOM	1097	CB	MET	A	150	162.900	152.569	196.539	1.00	28.11	C
ATOM	1098	CG	MET	A	150	164.272	152.340	195.932	1.00	33.96	C
ATOM	1099	SD	MET	A	150	164.267	152.387	194.128	1.00	53.37	S
ATOM	1100	CE	MET	A	150	162.510	152.387	193.777	1.00	37.53	C
ATOM	1101	N	PHE	A	151	163.490	154.902	198.689	1.00	29.36	N
ATOM	1102	CA	PHE	A	151	164.372	155.908	199.274	1.00	19.88	C
ATOM	1103	C	PHE	A	151	164.697	155.573	200.724	1.00	25.29	C
ATOM	1104	O	PHE	A	151	165.848	155.701	201.157	1.00	25.97	O
ATOM	1105	CB	PHE	A	151	163.727	157.291	199.169	1.00	22.96	C
ATOM	1106	CG	PHE	A	151	164.581	158.408	199.707	1.00	24.67	C
ATOM	1107	CD1	PHE	A	151	164.504	158.780	201.040	1.00	20.73	C
ATOM	1108	CD2	PHE	A	151	165.454	159.090	198.878	1.00	29.71	C
ATOM	1109	CE1	PHE	A	151	165.285	159.807	201.533	1.00	22.63	C
ATOM	1110	CE2	PHE	A	151	166.238	160.118	199.367	1.00	24.00	C
ATOM	1111	CZ	PHE	A	151	166.153	160.476	200.695	1.00	19.60	C
ATOM	1112	N	LYS	A	152	163.690	155.147	201.490	1.00	35.14	N
ATOM	1113	CA	LYS	A	152	163.926	154.737	202.871	1.00	28.54	C
ATOM	1114	C	LYS	A	152	164.836	153.517	202.935	1.00	29.00	C

ATOM	1115	O	LYS	A	152	165.714	153.432	203.802	1.00	39.67	O
ATOM	1116	CB	LYS	A	152	162.596	154.446	203.565	1.00	28.39	C
ATOM	1117	CG	LYS	A	152	161.936	155.663	204.186	1.00	32.42	C
ATOM	1118	CD	LYS	A	152	160.739	155.265	205.034	1.00	37.00	C
ATOM	1119	CE	LYS	A	152	159.493	155.093	204.182	1.00	35.24	C
ATOM	1120	NZ	LYS	A	152	158.261	155.499	204.911	1.00	32.65	N
ATOM	1121	N	ASP	A	153	164.634	152.558	202.029	1.00	32.00	N
ATOM	1122	CA	ASP	A	153	165.451	151.348	202.029	1.00	27.39	C
ATOM	1123	C	ASP	A	153	166.909	151.655	201.708	1.00	28.06	C
ATOM	1124	O	ASP	A	153	167.818	151.058	202.297	1.00	30.50	O
ATOM	1125	CB	ASP	A	153	164.884	150.336	201.034	1.00	31.62	C
ATOM	1126	CG	ASP	A	153	163.562	149.751	201.488	1.00	42.30	C
ATOM	1127	OD1	ASP	A	153	162.991	148.923	200.748	1.00	46.17	O
ATOM	1128	OD2	ASP	A	153	163.092	150.121	202.585	1.00	38.04	O
ATOM	1129	N	VAL	A	154	167.154	152.575	200.772	1.00	28.56	N
ATOM	1130	CA	VAL	A	154	168.523	152.874	200.360	1.00	23.95	C
ATOM	1131	C	VAL	A	154	169.299	153.538	201.493	1.00	26.04	C
ATOM	1132	O	VAL	A	154	170.488	153.262	201.695	1.00	25.58	O
ATOM	1133	CB	VAL	A	154	168.516	153.742	199.087	1.00	23.43	C
ATOM	1134	CG1	VAL	A	154	169.898	154.318	198.818	1.00	21.98	C
ATOM	1135	CG2	VAL	A	154	168.040	152.931	197.898	1.00	24.95	C
ATOM	1136	N	PHE	A	155	168.639	154.403	202.261	1.00	22.45	N
ATOM	1137	CA	PHE	A	155	169.314	155.191	203.285	1.00	18.78	C
ATOM	1138	C	PHE	A	155	168.843	154.800	204.680	1.00	22.63	C
ATOM	1139	O	PHE	A	155	168.568	155.671	205.509	1.00	22.15	O
ATOM	1140	CB	PHE	A	155	169.075	156.685	203.056	1.00	21.38	C
ATOM	1141	CG	PHE	A	155	169.595	157.190	201.741	1.00	22.99	C
ATOM	1142	CD1	PHE	A	155	170.927	157.535	201.593	1.00	20.75	C
ATOM	1143	CD2	PHE	A	155	168.748	157.329	200.654	1.00	22.79	C
ATOM	1144	CE1	PHE	A	155	171.406	158.001	200.386	1.00	18.82	C
ATOM	1145	CE2	PHE	A	155	169.222	157.795	199.444	1.00	16.36	C
ATOM	1146	CZ	PHE	A	155	170.552	158.131	199.310	1.00	16.95	C
ATOM	1147	N	HIS	A	156	168.756	153.495	204.949	1.00	33.35	N
ATOM	1148	CA	HIS	A	156	168.125	153.023	206.179	1.00	31.66	C
ATOM	1149	C	HIS	A	156	168.825	153.555	207.425	1.00	40.16	C
ATOM	1150	O	HIS	A	156	168.164	153.969	208.385	1.00	35.45	O
ATOM	1151	CB	HIS	A	156	168.101	151.495	206.197	1.00	28.17	C
ATOM	1152	CG	HIS	A	156	167.437	150.916	207.407	1.00	40.62	C
ATOM	1153	ND1	HIS	A	156	168.093	150.084	208.289	1.00	41.57	N
ATOM	1154	CD2	HIS	A	156	166.177	151.050	207.882	1.00	41.06	C
ATOM	1155	CE1	HIS	A	156	167.265	149.731	209.256	1.00	36.94	C
ATOM	1156	NE2	HIS	A	156	166.096	150.303	209.032	1.00	43.14	N
ATOM	1157	N	GLY	A	157	170.155	153.556	207.435	1.00	38.30	N
ATOM	1158	CA	GLY	A	157	170.883	153.895	208.644	1.00	30.10	C
ATOM	1159	C	GLY	A	157	171.402	155.317	208.731	1.00	34.66	C
ATOM	1160	O	GLY	A	157	172.515	155.540	209.217	1.00	37.16	O
ATOM	1161	N	GLU	A	158	170.616	156.289	208.274	1.00	29.67	N
ATOM	1162	CA	GLU	A	158	170.997	157.696	208.322	1.00	25.96	C
ATOM	1163	C	GLU	A	158	169.845	158.518	208.891	1.00	31.25	C
ATOM	1164	O	GLU	A	158	168.814	157.982	209.309	1.00	31.57	O

ATOM	1165	CB	GLU	A	158	171.396	158.215	206.933	1.00	18.47	C
ATOM	1166	CG	GLU	A	158	172.247	157.255	206.119	1.00	23.88	C
ATOM	1167	CD	GLU	A	158	173.702	157.675	206.056	1.00	32.53	C
ATOM	1168	OE1	GLU	A	158	173.987	158.870	206.278	1.00	33.45	O
ATOM	1169	OE2	GLU	A	158	174.561	156.809	205.787	1.00	29.20	O
ATOM	1170	N	ASP	A	159	170.032	159.838	208.906	1.00	25.69	N
ATOM	1171	CA	ASP	A	159	168.988	160.765	209.328	1.00	25.95	C
ATOM	1172	C	ASP	A	159	167.921	160.882	208.249	1.00	26.66	C
ATOM	1173	O	ASP	A	159	168.081	161.647	207.292	1.00	30.59	O
ATOM	1174	CB	ASP	A	159	169.582	162.142	209.635	1.00	28.40	C
ATOM	1175	CG	ASP	A	159	169.530	162.486	211.108	1.00	34.17	C
ATOM	1176	OD1	ASP	A	159	168.833	161.776	211.862	1.00	37.85	O
ATOM	1177	OD2	ASP	A	159	170.183	163.471	211.512	1.00	27.29	O
ATOM	1178	N	VAL	A	160	166.829	160.136	208.391	1.00	18.92	N
ATOM	1179	CA	VAL	A	160	165.803	160.033	207.361	1.00	18.07	C
ATOM	1180	C	VAL	A	160	164.536	160.717	207.848	1.00	23.40	C
ATOM	1181	O	VAL	A	160	164.029	160.409	208.934	1.00	32.13	O
ATOM	1182	CB	VAL	A	160	165.524	158.567	206.990	1.00	22.69	C
ATOM	1183	CG1	VAL	A	160	164.422	158.485	205.947	1.00	27.50	C
ATOM	1184	CG2	VAL	A	160	166.783	157.921	206.479	1.00	25.63	C
ATOM	1185	N	GLY	A	161	164.031	161.646	207.043	1.00	14.82	N
ATOM	1186	CA	GLY	A	161	162.757	162.281	207.304	1.00	17.59	C
ATOM	1187	C	GLY	A	161	161.840	162.194	206.103	1.00	20.24	C
ATOM	1188	O	GLY	A	161	162.140	162.754	205.044	1.00	33.38	O
ATOM	1189	N	THR	A	162	160.721	161.494	206.250	1.00	20.13	N
ATOM	1190	CA	THR	A	162	159.781	161.273	205.160	1.00	22.23	C
ATOM	1191	C	THR	A	162	158.465	161.962	205.483	1.00	24.94	C
ATOM	1192	O	THR	A	162	157.940	161.818	206.592	1.00	24.71	O
ATOM	1193	CB	THR	A	162	159.548	159.779	204.923	1.00	30.17	C
ATOM	1194	OG1	THR	A	162	158.492	159.317	205.774	1.00	32.37	O
ATOM	1195	CG2	THR	A	162	160.813	158.989	205.217	1.00	29.12	C
ATOM	1196	N	TYR	A	163	157.937	162.709	204.517	1.00	28.79	N
ATOM	1197	CA	TYR	A	163	156.668	163.398	204.697	1.00	30.30	C
ATOM	1198	C	TYR	A	163	155.802	163.230	203.458	1.00	27.58	C
ATOM	1199	O	TYR	A	163	156.306	163.230	202.330	1.00	29.70	O
ATOM	1200	CB	TYR	A	163	156.871	164.889	204.993	1.00	20.18	C
ATOM	1201	CG	TYR	A	163	155.612	165.591	205.447	1.00	26.50	C
ATOM	1202	CD1	TYR	A	163	154.833	165.066	206.468	1.00	28.95	C
ATOM	1203	CD2	TYR	A	163	155.197	166.771	204.849	1.00	31.34	C
ATOM	1204	CE1	TYR	A	163	153.679	165.701	206.885	1.00	27.86	C
ATOM	1205	CE2	TYR	A	163	154.045	167.413	205.259	1.00	27.63	C
ATOM	1206	CZ	TYR	A	163	153.290	166.873	206.277	1.00	25.22	C
ATOM	1207	OH	TYR	A	163	152.143	167.508	206.689	1.00	29.04	O
ATOM	1208	N	VAL	A	164	154.501	163.080	203.683	1.00	30.57	N
ATOM	1209	CA	VAL	A	164	153.503	163.023	202.622	1.00	31.07	C
ATOM	1210	C	VAL	A	164	152.664	164.287	202.751	1.00	29.74	C
ATOM	1211	O	VAL	A	164	151.799	164.387	203.629	1.00	31.88	O
ATOM	1212	CB	VAL	A	164	152.636	161.764	202.712	1.00	30.56	C
ATOM	1213	CG1	VAL	A	164	151.682	161.698	201.533	1.00	27.04	C
ATOM	1214	CG2	VAL	A	164	153.505	160.525	202.769	1.00	31.55	C

ATOM	1215	N	TRP	A	165	152.912	165.256	201.877	1.00	25.96	N
ATOM	1216	CA	TRP	A	165	152.281	166.567	201.968	1.00	25.46	C
ATOM	1217	C	TRP	A	165	151.023	166.571	201.107	1.00	26.22	C
ATOM	1218	O	TRP	A	165	151.105	166.605	199.876	1.00	26.36	O
ATOM	1219	CB	TRP	A	165	153.260	167.654	201.530	1.00	24.27	C
ATOM	1220	CG	TRP	A	165	152.765	169.056	201.717	1.00	27.91	C
ATOM	1221	CD1	TRP	A	165	151.591	169.446	202.293	1.00	26.93	C
ATOM	1222	CD2	TRP	A	165	153.437	170.258	201.323	1.00	28.03	C
ATOM	1223	NE1	TRP	A	165	151.491	170.816	202.281	1.00	23.70	N
ATOM	1224	CE2	TRP	A	165	152.612	171.337	201.691	1.00	27.77	C
ATOM	1225	CE3	TRP	A	165	154.657	170.525	200.695	1.00	17.76	C
ATOM	1226	CZ2	TRP	A	165	152.965	172.661	201.450	1.00	24.77	C
ATOM	1227	CZ3	TRP	A	165	155.006	171.840	200.459	1.00	17.71	C
ATOM	1228	CH2	TRP	A	165	154.165	172.891	200.836	1.00	22.41	C
ATOM	1229	N	LYS	A	166	149.858	166.549	201.756	1.00	33.86	N
ATOM	1230	CA	LYS	A	166	148.573	166.652	201.063	1.00	31.32	C
ATOM	1231	C	LYS	A	166	148.340	168.107	200.656	1.00	37.52	C
ATOM	1232	O	LYS	A	166	147.487	168.819	201.189	1.00	43.91	O
ATOM	1233	CB	LYS	A	166	147.445	166.127	201.941	1.00	32.82	C
ATOM	1234	CG	LYS	A	166	146.872	164.789	201.500	1.00	35.88	C
ATOM	1235	CD	LYS	A	166	147.815	163.635	201.791	1.00	39.50	C
ATOM	1236	CE	LYS	A	166	147.476	162.431	200.926	1.00	36.86	C
ATOM	1237	NZ	LYS	A	166	148.466	161.330	201.073	1.00	38.81	N
ATOM	1238	N	GLY	A	167	149.129	168.544	199.683	1.00	30.82	N
ATOM	1239	CA	GLY	A	167	149.069	169.917	199.222	1.00	25.64	C
ATOM	1240	C	GLY	A	167	150.344	170.277	198.479	1.00	25.44	C
ATOM	1241	O	GLY	A	167	151.082	169.404	198.028	1.00	32.34	O
ATOM	1242	N	ASN	A	168	150.578	171.581	198.370	1.00	24.70	N
ATOM	1243	CA	ASN	A	168	151.745	172.091	197.665	1.00	16.84	C
ATOM	1244	C	ASN	A	168	152.002	173.520	198.121	1.00	32.36	C
ATOM	1245	O	ASN	A	168	151.210	174.110	198.859	1.00	38.88	O
ATOM	1246	CB	ASN	A	168	151.552	172.023	196.148	1.00	16.01	C
ATOM	1247	CG	ASN	A	168	152.841	171.743	195.410	1.00	29.22	C
ATOM	1248	OD1	ASN	A	168	153.830	172.457	195.573	1.00	35.40	O
ATOM	1249	ND2	ASN	A	168	152.840	170.696	194.594	1.00	37.58	N
ATOM	1250	N	TYR	A	169	153.132	174.070	197.671	1.00	20.59	N
ATOM	1251	CA	TYR	A	169	153.475	175.447	198.010	1.00	14.07	C
ATOM	1252	C	TYR	A	169	152.543	176.455	197.354	1.00	24.03	C
ATOM	1253	O	TYR	A	169	152.455	177.595	197.823	1.00	23.29	O
ATOM	1254	CB	TYR	A	169	154.919	175.745	197.607	1.00	15.58	C
ATOM	1255	CG	TYR	A	169	155.912	175.639	198.740	1.00	16.31	C
ATOM	1256	CD1	TYR	A	169	155.802	176.445	199.864	1.00	21.76	C
ATOM	1257	CD2	TYR	A	169	156.960	174.732	198.686	1.00	20.44	C
ATOM	1258	CE1	TYR	A	169	156.708	176.349	200.902	1.00	25.94	C
ATOM	1259	CE2	TYR	A	169	157.871	174.630	199.718	1.00	14.63	C
ATOM	1260	CZ	TYR	A	169	157.740	175.440	200.823	1.00	16.94	C
ATOM	1261	OH	TYR	A	169	158.647	175.339	201.852	1.00	16.09	O
ATOM	1262	N	HIS	A	170	151.848	176.067	196.288	1.00	32.73	N
ATOM	1263	CA	HIS	A	170	150.947	176.946	195.550	1.00	27.20	C
ATOM	1264	C	HIS	A	170	149.587	176.286	195.378	1.00	27.99	C

ATOM	1265	O	HIS	A	170	148.997	176.281	194.295	1.00	31.40	O
ATOM	1266	CB	HIS	A	170	151.544	177.320	194.197	1.00	23.24	C
ATOM	1267	CG	HIS	A	170	152.841	178.061	194.294	1.00	24.55	C
ATOM	1268	ND1	HIS	A	170	152.912	179.394	194.634	1.00	30.90	N
ATOM	1269	CD2	HIS	A	170	154.117	177.653	194.101	1.00	23.15	C
ATOM	1270	CE1	HIS	A	170	154.176	179.777	194.643	1.00	31.92	C
ATOM	1271	NE2	HIS	A	170	154.928	178.740	194.323	1.00	30.79	N
ATOM	1272	N	THR	A	171	149.070	175.715	196.460	1.00	28.02	N
ATOM	1273	CA	THR	A	171	147.767	175.063	196.430	1.00	34.42	C
ATOM	1274	C	THR	A	171	146.697	175.949	197.059	1.00	37.52	C
ATOM	1275	O	THR	A	171	145.689	176.265	196.427	1.00	36.10	O
ATOM	1276	CB	THR	A	171	147.796	173.710	197.162	1.00	33.34	C
ATOM	1277	OG1	THR	A	171	146.626	172.956	196.822	1.00	39.76	O
ATOM	1278	CG2	THR	A	171	147.839	173.921	198.666	1.00	30.14	C
ATOM	1279	N	GLU	A	194	151.415	173.833	209.653	1.00	45.04	N
ATOM	1280	CA	GLU	A	194	150.816	172.988	208.627	1.00	45.86	C
ATOM	1281	C	GLU	A	194	151.881	172.181	207.891	1.00	48.73	C
ATOM	1282	O	GLU	A	194	152.927	171.859	208.452	1.00	49.53	O
ATOM	1283	CB	GLU	A	194	150.016	173.834	207.635	1.00	43.49	C
ATOM	1284	CG	GLU	A	194	150.742	175.078	207.151	1.00	43.14	C
ATOM	1285	CD	GLU	A	194	149.960	175.835	206.095	1.00	48.08	C
ATOM	1286	OE1	GLU	A	194	149.363	175.182	205.214	1.00	45.00	O
ATOM	1287	OE2	GLU	A	194	149.943	177.082	206.147	1.00	45.73	O
ATOM	1288	N	GLY	A	195	151.599	171.853	206.629	1.00	38.94	N
ATOM	1289	CA	GLY	A	195	152.551	171.083	205.846	1.00	33.23	C
ATOM	1290	C	GLY	A	195	153.830	171.843	205.550	1.00	32.84	C
ATOM	1291	O	GLY	A	195	154.913	171.255	205.499	1.00	36.61	O
ATOM	1292	N	ILE	A	196	153.722	173.159	205.342	1.00	29.07	N
ATOM	1293	CA	ILE	A	196	154.891	173.958	204.982	1.00	24.65	C
ATOM	1294	C	ILE	A	196	155.927	173.927	206.097	1.00	30.76	C
ATOM	1295	O	ILE	A	196	157.123	173.733	205.848	1.00	42.10	O
ATOM	1296	CB	ILE	A	196	154.469	175.402	204.649	1.00	29.83	C
ATOM	1297	CG1	ILE	A	196	153.583	175.432	203.403	1.00	27.21	C
ATOM	1298	CG2	ILE	A	196	155.691	176.283	204.453	1.00	24.84	C
ATOM	1299	CD1	ILE	A	196	153.177	176.824	202.978	1.00	26.61	C
ATOM	1300	N	ASN	A	197	155.486	174.120	207.343	1.00	26.49	N
ATOM	1301	CA	ASN	A	197	156.420	174.147	208.464	1.00	25.72	C
ATOM	1302	C	ASN	A	197	157.112	172.802	208.642	1.00	30.09	C
ATOM	1303	O	ASN	A	197	158.330	172.746	208.852	1.00	34.58	O
ATOM	1304	CB	ASN	A	197	155.686	174.545	209.744	1.00	30.66	C
ATOM	1305	CG	ASN	A	197	155.146	175.960	209.689	1.00	39.15	C
ATOM	1306	OD1	ASN	A	197	153.935	176.176	209.735	1.00	40.63	O
ATOM	1307	ND2	ASN	A	197	156.043	176.933	209.589	1.00	38.75	N
ATOM	1308	N	MET	A	198	156.351	171.708	208.563	1.00	31.84	N
ATOM	1309	CA	MET	A	198	156.944	170.383	208.705	1.00	29.58	C
ATOM	1310	C	MET	A	198	157.936	170.101	207.586	1.00	28.28	C
ATOM	1311	O	MET	A	198	159.031	169.582	207.834	1.00	33.85	O
ATOM	1312	CB	MET	A	198	155.848	169.318	208.733	1.00	28.86	C
ATOM	1313	CG	MET	A	198	156.189	168.104	209.581	1.00	34.41	C
ATOM	1314	SD	MET	A	198	154.727	167.197	210.118	1.00	62.70	S

ATOM	1315	CE	MET	A	198	153.680	168.540	210.670	1.00	34.79	C
ATOM	1316	N	VAL	A	199	157.577	170.450	206.348	1.00	25.80	N
ATOM	1317	CA	VAL	A	199	158.475	170.225	205.219	1.00	19.09	C
ATOM	1318	C	VAL	A	199	159.769	171.005	205.411	1.00	25.46	C
ATOM	1319	O	VAL	A	199	160.872	170.468	205.244	1.00	31.75	O
ATOM	1320	CB	VAL	A	199	157.780	170.604	203.898	1.00	17.14	C
ATOM	1321	CG1	VAL	A	199	158.808	170.876	202.811	1.00	22.09	C
ATOM	1322	CG2	VAL	A	199	156.825	169.509	203.467	1.00	22.95	C
ATOM	1323	N	GLU	A	200	159.652	172.284	205.779	1.00	21.19	N
ATOM	1324	CA	GLU	A	200	160.838	173.118	205.928	1.00	15.73	C
ATOM	1325	C	GLU	A	200	161.728	172.626	207.062	1.00	19.88	C
ATOM	1326	O	GLU	A	200	162.950	172.544	206.900	1.00	30.73	O
ATOM	1327	CB	GLU	A	200	160.430	174.574	206.150	1.00	17.36	C
ATOM	1328	CG	GLU	A	200	159.786	175.218	204.933	1.00	25.57	C
ATOM	1329	CD	GLU	A	200	159.721	176.728	205.032	1.00	33.90	C
ATOM	1330	OE1	GLU	A	200	158.769	177.244	205.653	1.00	33.51	O
ATOM	1331	OE2	GLU	A	200	160.619	177.400	204.482	1.00	39.30	O
ATOM	1332	N	GLU	A	201	161.141	172.284	208.212	1.00	19.76	N
ATOM	1333	CA	GLU	A	201	161.958	171.825	209.330	1.00	22.38	C
ATOM	1334	C	GLU	A	201	162.620	170.487	209.020	1.00	20.72	C
ATOM	1335	O	GLU	A	201	163.788	170.273	209.368	1.00	25.31	O
ATOM	1336	CB	GLU	A	201	161.121	171.749	210.611	1.00	25.63	C
ATOM	1337	CG	GLU	A	201	160.075	170.648	210.649	1.00	27.41	C
ATOM	1338	CD	GLU	A	201	159.652	170.299	212.062	1.00	34.43	C
ATOM	1339	OE1	GLU	A	201	160.204	170.892	213.012	1.00	31.93	O
ATOM	1340	OE2	GLU	A	201	158.767	169.432	212.222	1.00	35.89	O
ATOM	1341	N	LEU	A	202	161.904	169.582	208.344	1.00	21.10	N
ATOM	1342	CA	LEU	A	202	162.495	168.300	207.979	1.00	16.24	C
ATOM	1343	C	LEU	A	202	163.646	168.482	207.000	1.00	15.97	C
ATOM	1344	O	LEU	A	202	164.691	167.835	207.137	1.00	20.16	O
ATOM	1345	CB	LEU	A	202	161.429	167.380	207.387	1.00	20.40	C
ATOM	1346	CG	LEU	A	202	160.687	166.481	208.376	1.00	15.84	C
ATOM	1347	CD1	LEU	A	202	159.415	165.937	207.749	1.00	24.11	C
ATOM	1348	CD2	LEU	A	202	161.583	165.352	208.851	1.00	12.46	C
ATOM	1349	N	VAL	A	203	163.478	169.358	206.007	1.00	16.25	N
ATOM	1350	CA	VAL	A	203	164.531	169.551	205.015	1.00	13.45	C
ATOM	1351	C	VAL	A	203	165.743	170.234	205.638	1.00	14.71	C
ATOM	1352	O	VAL	A	203	166.890	169.861	205.364	1.00	28.58	O
ATOM	1353	CB	VAL	A	203	163.990	170.340	203.808	1.00	5.20	C
ATOM	1354	CG1	VAL	A	203	165.129	170.765	202.897	1.00	14.72	C
ATOM	1355	CG2	VAL	A	203	162.983	169.502	203.039	1.00	15.90	C
ATOM	1356	N	ARG	A	204	165.515	171.231	206.496	1.00	13.81	N
ATOM	1357	CA	ARG	A	204	166.621	172.031	207.007	1.00	8.89	C
ATOM	1358	C	ARG	A	204	167.335	171.373	208.182	1.00	13.59	C
ATOM	1359	O	ARG	A	204	168.507	171.678	208.430	1.00	18.93	O
ATOM	1360	CB	ARG	A	204	166.117	173.417	207.407	1.00	6.33	C
ATOM	1361	CG	ARG	A	204	165.531	174.206	206.249	1.00	8.80	C
ATOM	1362	CD	ARG	A	204	165.274	175.652	206.625	1.00	18.79	C
ATOM	1363	NE	ARG	A	204	164.627	176.387	205.544	1.00	20.33	N
ATOM	1364	CZ	ARG	A	204	163.549	177.143	205.694	1.00	21.45	C

ATOM	1365	NH1	ARG	A	204	162.965	177.289	206.872	1.00	16.09	N
ATOM	1366	NH2	ARG	A	204	163.044	177.769	204.635	1.00	22.03	N
ATOM	1367	N	ASN	A	205	166.670	170.480	208.914	1.00	21.25	N
ATOM	1368	CA	ASN	A	205	167.279	169.871	210.091	1.00	9.11	C
ATOM	1369	C	ASN	A	205	167.853	168.485	209.829	1.00	25.35	C
ATOM	1370	O	ASN	A	205	168.919	168.156	210.358	1.00	27.43	O
ATOM	1371	CB	ASN	A	205	166.260	169.792	211.232	1.00	11.76	C
ATOM	1372	CG	ASN	A	205	166.080	171.119	211.941	1.00	22.71	C
ATOM	1373	OD1	ASN	A	205	166.545	171.303	213.065	1.00	29.18	O
ATOM	1374	ND2	ASN	A	205	165.401	172.053	211.287	1.00	23.65	N
ATOM	1375	N	LYS	A	206	167.179	167.661	209.031	1.00	22.90	N
ATOM	1376	CA	LYS	A	206	167.652	166.312	208.763	1.00	11.05	C
ATOM	1377	C	LYS	A	206	168.691	166.322	207.643	1.00	17.08	C
ATOM	1378	O	LYS	A	206	169.036	167.366	207.083	1.00	19.58	O
ATOM	1379	CB	LYS	A	206	166.480	165.398	208.413	1.00	10.57	C
ATOM	1380	CG	LYS	A	206	165.358	165.407	209.434	1.00	16.94	C
ATOM	1381	CD	LYS	A	206	165.790	164.749	210.731	1.00	14.15	C
ATOM	1382	CE	LYS	A	206	164.849	163.622	211.114	1.00	20.59	C
ATOM	1383	NZ	LYS	A	206	165.056	163.182	212.520	1.00	29.34	N
ATOM	1384	N	ARG	A	207	169.199	165.135	207.311	1.00	13.87	N
ATOM	1385	CA	ARG	A	207	170.171	164.970	206.238	1.00	16.56	C
ATOM	1386	C	ARG	A	207	169.543	164.360	204.992	1.00	14.27	C
ATOM	1387	O	ARG	A	207	169.646	164.930	203.903	1.00	16.90	O
ATOM	1388	CB	ARG	A	207	171.347	164.109	206.717	1.00	10.57	C
ATOM	1389	CG	ARG	A	207	172.465	163.984	205.700	1.00	6.47	C
ATOM	1390	CD	ARG	A	207	173.492	162.949	206.120	1.00	0.00	C
ATOM	1391	NE	ARG	A	207	174.500	162.742	205.088	1.00	19.47	N
ATOM	1392	CZ	ARG	A	207	174.338	161.962	204.028	1.00	16.99	C
ATOM	1393	NH1	ARG	A	207	173.217	161.288	203.831	1.00	20.84	N
ATOM	1394	NH2	ARG	A	207	175.326	161.855	203.144	1.00	12.97	N
ATOM	1395	N	CYS	A	208	168.891	163.208	205.122	1.00	11.90	N
ATOM	1396	CA	CYS	A	208	168.180	162.577	204.018	1.00	11.45	C
ATOM	1397	C	CYS	A	208	166.690	162.836	204.197	1.00	15.47	C
ATOM	1398	O	CYS	A	208	166.121	162.507	205.242	1.00	24.47	O
ATOM	1399	CB	CYS	A	208	168.469	161.077	203.966	1.00	15.22	C
ATOM	1400	SG	CYS	A	208	170.221	160.652	204.081	1.00	22.08	S
ATOM	1401	N	VAL	A	209	166.068	163.439	203.188	1.00	21.42	N
ATOM	1402	CA	VAL	A	209	164.675	163.862	203.266	1.00	12.91	C
ATOM	1403	C	VAL	A	209	163.943	163.394	202.017	1.00	11.11	C
ATOM	1404	O	VAL	A	209	164.469	163.490	200.903	1.00	13.48	O
ATOM	1405	CB	VAL	A	209	164.551	165.394	203.425	1.00	14.00	C
ATOM	1406	CG1	VAL	A	209	163.096	165.796	203.572	1.00	11.73	C
ATOM	1407	CG2	VAL	A	209	165.356	165.877	204.619	1.00	16.45	C
ATOM	1408	N	CYS	A	210	162.731	162.875	202.207	1.00	17.22	N
ATOM	1409	CA	CYS	A	210	161.865	162.463	201.110	1.00	14.06	C
ATOM	1410	C	CYS	A	210	160.494	163.087	201.311	1.00	16.85	C
ATOM	1411	O	CYS	A	210	159.781	162.731	202.256	1.00	16.78	O
ATOM	1412	CB	CYS	A	210	161.754	160.939	201.032	1.00	17.33	C
ATOM	1413	SG	CYS	A	210	160.921	160.329	199.550	1.00	19.95	S
ATOM	1414	N	ILE	A	211	160.120	164.000	200.419	1.00	22.35	N

ATOM	1415	CA	ILE	A	211	158.845	164.703	200.493	1.00	23.23	C
ATOM	1416	C	ILE	A	211	158.014	164.321	199.279	1.00	24.16	C
ATOM	1417	O	ILE	A	211	158.486	164.427	198.143	1.00	23.14	O
ATOM	1418	CB	ILE	A	211	159.041	166.228	200.559	1.00	14.60	C
ATOM	1419	CG1	ILE	A	211	160.060	166.594	201.639	1.00	20.82	C
ATOM	1420	CG2	ILE	A	211	157.713	166.926	200.810	1.00	12.65	C
ATOM	1421	CD1	ILE	A	211	159.544	166.424	203.048	1.00	26.84	C
ATOM	1422	N	MET	A	212	156.782	163.880	199.516	1.00	24.45	N
ATOM	1423	CA	MET	A	212	155.824	163.619	198.449	1.00	14.97	C
ATOM	1424	C	MET	A	212	154.743	164.688	198.487	1.00	27.71	C
ATOM	1425	O	MET	A	212	154.159	164.946	199.544	1.00	36.95	O
ATOM	1426	CB	MET	A	212	155.204	162.227	198.583	1.00	23.21	C
ATOM	1427	CG	MET	A	212	156.215	161.104	198.731	1.00	38.11	C
ATOM	1428	SD	MET	A	212	155.479	159.456	198.680	1.00	52.15	S
ATOM	1429	CE	MET	A	212	153.730	159.840	198.697	1.00	33.72	C
ATOM	1430	N	GLN	A	213	154.479	165.308	197.339	1.00	27.48	N
ATOM	1431	CA	GLN	A	213	153.530	166.408	197.259	1.00	21.67	C
ATOM	1432	C	GLN	A	213	152.582	166.192	196.088	1.00	26.27	C
ATOM	1433	O	GLN	A	213	152.759	165.286	195.271	1.00	39.23	O
ATOM	1434	CB	GLN	A	213	154.244	167.757	197.115	1.00	23.20	C
ATOM	1435	CG	GLN	A	213	155.030	167.904	195.827	1.00	24.71	C
ATOM	1436	CD	GLN	A	213	155.690	169.259	195.704	1.00	23.76	C
ATOM	1437	OE1	GLN	A	213	155.890	169.956	196.697	1.00	21.18	O
ATOM	1438	NE2	GLN	A	213	156.027	169.644	194.480	1.00	28.81	N
ATOM	1439	N	GLN	A	214	151.562	167.044	196.019	1.00	16.64	N
ATOM	1440	CA	GLN	A	214	150.590	166.972	194.940	1.00	24.86	C
ATOM	1441	C	GLN	A	214	151.242	167.328	193.608	1.00	32.37	C
ATOM	1442	O	GLN	A	214	152.208	168.093	193.547	1.00	35.75	O
ATOM	1443	CB	GLN	A	214	149.414	167.907	195.217	1.00	25.04	C
ATOM	1444	CG	GLN	A	214	148.061	167.323	194.852	1.00	31.05	C
ATOM	1445	CD	GLN	A	214	146.957	168.360	194.860	1.00	41.38	C
ATOM	1446	OE1	GLN	A	214	147.133	169.467	195.367	1.00	41.86	O
ATOM	1447	NE2	GLN	A	214	145.808	168.004	194.298	1.00	41.67	N
ATOM	1448	N	TRP	A	215	150.701	166.759	192.534	1.00	35.20	N
ATOM	1449	CA	TRP	A	215	151.299	166.916	191.214	1.00	34.11	C
ATOM	1450	C	TRP	A	215	151.163	168.357	190.734	1.00	37.98	C
ATOM	1451	O	TRP	A	215	150.053	168.890	190.647	1.00	41.31	O
ATOM	1452	CB	TRP	A	215	150.645	165.960	190.221	1.00	35.91	C
ATOM	1453	CG	TRP	A	215	151.366	165.891	188.914	1.00	40.17	C
ATOM	1454	CD1	TRP	A	215	152.403	165.067	188.593	1.00	40.09	C
ATOM	1455	CD2	TRP	A	215	151.107	166.682	187.748	1.00	40.56	C
ATOM	1456	NE1	TRP	A	215	152.807	165.295	187.300	1.00	40.45	N
ATOM	1457	CE2	TRP	A	215	152.026	166.282	186.759	1.00	42.22	C
ATOM	1458	CE3	TRP	A	215	150.186	167.690	187.444	1.00	34.38	C
ATOM	1459	CZ2	TRP	A	215	152.052	166.852	185.489	1.00	37.19	C
ATOM	1460	CZ3	TRP	A	215	150.214	168.256	186.184	1.00	38.58	C
ATOM	1461	CH2	TRP	A	215	151.140	167.835	185.222	1.00	39.59	C
ATOM	1462	N	GLY	A	216	152.296	168.982	190.425	1.00	31.59	N
ATOM	1463	CA	GLY	A	216	152.305	170.325	189.881	1.00	29.16	C
ATOM	1464	C	GLY	A	216	153.230	170.471	188.691	1.00	28.33	C

ATOM	1465	O	GLY	A	216	153.210	171.494	188.001	1.00	34.80	O
ATOM	1466	N	GLY	A	217	154.045	169.455	188.441	1.00	25.47	N
ATOM	1467	CA	GLY	A	217	154.990	169.457	187.344	1.00	25.36	C
ATOM	1468	C	GLY	A	217	156.425	169.435	187.835	1.00	25.32	C
ATOM	1469	O	GLY	A	217	156.706	169.435	189.033	1.00	32.22	O
ATOM	1470	N	LYS	A	218	157.343	169.410	186.865	1.00	26.04	N
ATOM	1471	CA	LYS	A	218	158.766	169.412	187.188	1.00	28.40	C
ATOM	1472	C	LYS	A	218	159.190	170.712	187.859	1.00	32.58	C
ATOM	1473	O	LYS	A	218	160.059	170.700	188.739	1.00	29.67	O
ATOM	1474	CB	LYS	A	218	159.591	169.171	185.923	1.00	34.11	C
ATOM	1475	CG	LYS	A	218	161.094	169.261	186.132	1.00	38.31	C
ATOM	1476	CD	LYS	A	218	161.672	167.929	186.577	1.00	33.07	C
ATOM	1477	CE	LYS	A	218	163.190	167.948	186.539	1.00	33.49	C
ATOM	1478	NZ	LYS	A	218	163.705	168.475	185.247	1.00	31.53	N
ATOM	1479	N	ARG	A	219	158.600	171.838	187.455	1.00	37.50	N
ATOM	1480	CA	ARG	A	219	158.911	173.108	188.102	1.00	35.32	C
ATOM	1481	C	ARG	A	219	158.456	173.123	189.555	1.00	33.71	C
ATOM	1482	O	ARG	A	219	159.121	173.724	190.407	1.00	40.19	O
ATOM	1483	CB	ARG	A	219	158.261	174.256	187.331	1.00	33.17	C
ATOM	1484	CG	ARG	A	219	158.835	175.626	187.641	1.00	36.02	C
ATOM	1485	CD	ARG	A	219	158.122	176.701	186.839	1.00	36.54	C
ATOM	1486	NE	ARG	A	219	156.678	176.501	186.841	1.00	39.61	N
ATOM	1487	CZ	ARG	A	219	155.785	177.480	186.837	1.00	42.69	C
ATOM	1488	NH1	ARG	A	219	156.153	178.751	186.830	1.00	43.30	N
ATOM	1489	NH2	ARG	A	219	154.490	177.178	186.840	1.00	42.82	N
ATOM	1490	N	GLU	A	220	157.333	172.468	189.855	1.00	26.42	N
ATOM	1491	CA	GLU	A	220	156.771	172.522	191.201	1.00	20.51	C
ATOM	1492	C	GLU	A	220	157.679	171.837	192.216	1.00	29.78	C
ATOM	1493	O	GLU	A	220	157.955	172.389	193.286	1.00	32.14	O
ATOM	1494	CB	GLU	A	220	155.381	171.890	191.210	1.00	19.80	C
ATOM	1495	CG	GLU	A	220	154.484	172.389	192.324	1.00	25.73	C
ATOM	1496	CD	GLU	A	220	154.446	173.900	192.409	1.00	34.69	C
ATOM	1497	OE1	GLU	A	220	154.093	174.543	191.399	1.00	43.90	O
ATOM	1498	OE2	GLU	A	220	154.770	174.444	193.485	1.00	30.50	O
ATOM	1499	N	VAL	A	221	158.149	170.627	191.901	1.00	27.52	N
ATOM	1500	CA	VAL	A	221	158.999	169.897	192.837	1.00	17.88	C
ATOM	1501	C	VAL	A	221	160.325	170.620	193.035	1.00	20.95	C
ATOM	1502	O	VAL	A	221	160.835	170.717	194.160	1.00	34.71	O
ATOM	1503	CB	VAL	A	221	159.203	168.448	192.357	1.00	18.11	C
ATOM	1504	CG1	VAL	A	221	157.970	167.618	192.651	1.00	26.23	C
ATOM	1505	CG2	VAL	A	221	159.511	168.414	190.874	1.00	25.34	C
ATOM	1506	N	MET	A	222	160.907	171.134	191.949	1.00	24.73	N
ATOM	1507	CA	MET	A	222	162.167	171.860	192.057	1.00	24.60	C
ATOM	1508	C	MET	A	222	162.007	173.118	192.900	1.00	23.32	C
ATOM	1509	O	MET	A	222	162.853	173.415	193.751	1.00	30.62	O
ATOM	1510	CB	MET	A	222	162.693	172.205	190.664	1.00	26.28	C
ATOM	1511	CG	MET	A	222	163.910	171.396	190.248	1.00	32.77	C
ATOM	1512	SD	MET	A	222	164.338	171.601	188.509	1.00	46.46	S
ATOM	1513	CE	MET	A	222	164.317	173.384	188.362	1.00	27.09	C
ATOM	1514	N	TYR	A	223	160.920	173.866	192.687	1.00	17.12	N

ATOM	1515	CA	TYR	A	223	160.674	175.049	193.505	1.00	11.81	C
ATOM	1516	C	TYR	A	223	160.471	174.680	194.966	1.00	17.99	C
ATOM	1517	O	TYR	A	223	160.975	175.368	195.860	1.00	28.53	O
ATOM	1518	CB	TYR	A	223	159.461	175.820	192.989	1.00	16.55	C
ATOM	1519	CG	TYR	A	223	159.009	176.900	193.948	1.00	23.32	C
ATOM	1520	CD1	TYR	A	223	159.656	178.127	193.998	1.00	23.55	C
ATOM	1521	CD2	TYR	A	223	157.945	176.686	194.815	1.00	21.30	C
ATOM	1522	CE1	TYR	A	223	159.253	179.112	194.878	1.00	17.66	C
ATOM	1523	CE2	TYR	A	223	157.537	177.663	195.699	1.00	21.49	C
ATOM	1524	CZ	TYR	A	223	158.193	178.874	195.725	1.00	20.49	C
ATOM	1525	OH	TYR	A	223	157.786	179.852	196.603	1.00	29.29	O
ATOM	1526	N	THR	A	224	159.716	173.611	195.231	1.00	26.42	N
ATOM	1527	CA	THR	A	224	159.471	173.203	196.610	1.00	22.26	C
ATOM	1528	C	THR	A	224	160.776	172.852	197.309	1.00	14.40	C
ATOM	1529	O	THR	A	224	161.024	173.282	198.442	1.00	32.16	O
ATOM	1530	CB	THR	A	224	158.507	172.017	196.644	1.00	17.80	C
ATOM	1531	OG1	THR	A	224	157.185	172.463	196.316	1.00	24.68	O
ATOM	1532	CG2	THR	A	224	158.493	171.379	198.025	1.00	10.12	C
ATOM	1533	N	ALA	A	225	161.635	172.085	196.636	1.00	10.66	N
ATOM	1534	CA	ALA	A	225	162.913	171.715	197.233	1.00	14.79	C
ATOM	1535	C	ALA	A	225	163.806	172.932	197.443	1.00	25.12	C
ATOM	1536	O	ALA	A	225	164.435	173.071	198.499	1.00	33.33	O
ATOM	1537	CB	ALA	A	225	163.613	170.678	196.363	1.00	13.52	C
ATOM	1538	N	PHE	A	226	163.869	173.829	196.454	1.00	21.93	N
ATOM	1539	CA	PHE	A	226	164.708	175.017	196.585	1.00	12.83	C
ATOM	1540	C	PHE	A	226	164.234	175.905	197.728	1.00	16.49	C
ATOM	1541	O	PHE	A	226	165.051	176.450	198.479	1.00	17.18	O
ATOM	1542	CB	PHE	A	226	164.721	175.799	195.271	1.00	16.89	C
ATOM	1543	CG	PHE	A	226	165.492	175.128	194.171	1.00	18.34	C
ATOM	1544	CD1	PHE	A	226	166.468	174.190	194.462	1.00	20.73	C
ATOM	1545	CD2	PHE	A	226	165.240	175.436	192.845	1.00	17.36	C
ATOM	1546	CE1	PHE	A	226	167.178	173.573	193.451	1.00	25.89	C
ATOM	1547	CE2	PHE	A	226	165.947	174.822	191.830	1.00	17.57	C
ATOM	1548	CZ	PHE	A	226	166.917	173.890	192.133	1.00	21.47	C
ATOM	1549	N	GLN	A	227	162.918	176.067	197.873	1.00	11.69	N
ATOM	1550	CA	GLN	A	227	162.386	176.901	198.943	1.00	9.06	C
ATOM	1551	C	GLN	A	227	162.609	176.256	200.305	1.00	24.84	C
ATOM	1552	O	GLN	A	227	162.988	176.933	201.268	1.00	34.31	O
ATOM	1553	CB	GLN	A	227	160.901	177.170	198.706	1.00	1.46	C
ATOM	1554	CG	GLN	A	227	160.205	177.863	199.862	1.00	17.39	C
ATOM	1555	CD	GLN	A	227	160.261	179.373	199.751	1.00	24.93	C
ATOM	1556	OE1	GLN	A	227	159.877	179.946	198.731	1.00	33.78	O
ATOM	1557	NE2	GLN	A	227	160.744	180.026	200.800	1.00	26.11	N
ATOM	1558	N	ALA	A	228	162.381	174.943	200.408	1.00	18.76	N
ATOM	1559	CA	ALA	A	228	162.586	174.253	201.674	1.00	6.01	C
ATOM	1560	C	ALA	A	228	164.057	174.160	202.051	1.00	15.81	C
ATOM	1561	O	ALA	A	228	164.367	173.933	203.225	1.00	24.83	O
ATOM	1562	CB	ALA	A	228	161.976	172.853	201.616	1.00	4.54	C
ATOM	1563	N	ILE	A	229	164.965	174.323	201.087	1.00	19.23	N
ATOM	1564	CA	ILE	A	229	166.393	174.289	201.395	1.00	20.38	C

ATOM	1565	C	ILE	A	229	166.766	175.438	202.325	1.00	24.32	C
ATOM	1566	O	ILE	A	229	167.477	175.249	203.319	1.00	26.33	O
ATOM	1567	CB	ILE	A	229	167.220	174.312	200.097	1.00	18.51	C
ATOM	1568	CG1	ILE	A	229	167.464	172.888	199.608	1.00	22.28	C
ATOM	1569	CG2	ILE	A	229	168.542	175.029	200.306	1.00	12.72	C
ATOM	1570	CD1	ILE	A	229	168.386	172.109	200.506	1.00	21.97	C
ATOM	1571	N	GLY	A	230	166.281	176.642	202.025	1.00	19.83	N
ATOM	1572	CA	GLY	A	230	166.628	177.788	202.842	1.00	13.31	C
ATOM	1573	C	GLY	A	230	168.107	178.125	202.747	1.00	16.47	C
ATOM	1574	O	GLY	A	230	168.750	177.957	201.707	1.00	24.31	O
ATOM	1575	N	THR	A	231	168.653	178.615	203.859	1.00	15.84	N
ATOM	1576	CA	THR	A	231	170.066	178.958	203.959	1.00	21.08	C
ATOM	1577	C	THR	A	231	170.875	177.877	204.668	1.00	17.56	C
ATOM	1578	O	THR	A	231	171.889	178.178	205.307	1.00	20.98	O
ATOM	1579	CB	THR	A	231	170.238	180.299	204.672	1.00	22.51	C
ATOM	1580	OG1	THR	A	231	169.357	180.358	205.801	1.00	23.88	O
ATOM	1581	CG2	THR	A	231	169.918	181.448	203.728	1.00	19.25	C
ATOM	1582	N	SER	A	232	170.445	176.620	204.566	1.00	12.66	N
ATOM	1583	CA	SER	A	232	171.099	175.528	205.275	1.00	11.83	C
ATOM	1584	C	SER	A	232	172.287	174.941	204.523	1.00	19.70	C
ATOM	1585	O	SER	A	232	173.023	174.137	205.102	1.00	29.07	O
ATOM	1586	CB	SER	A	232	170.089	174.417	205.572	1.00	15.81	C
ATOM	1587	OG	SER	A	232	169.277	174.150	204.443	1.00	19.96	O
ATOM	1588	N	VAL	A	233	172.491	175.304	203.256	1.00	23.68	N
ATOM	1589	CA	VAL	A	233	173.598	174.779	202.467	1.00	22.44	C
ATOM	1590	C	VAL	A	233	174.238	175.912	201.677	1.00	20.45	C
ATOM	1591	O	VAL	A	233	173.647	176.975	201.476	1.00	23.51	O
ATOM	1592	CB	VAL	A	233	173.159	173.650	201.508	1.00	17.55	C
ATOM	1593	CG1	VAL	A	233	172.797	172.396	202.288	1.00	14.32	C
ATOM	1594	CG2	VAL	A	233	171.999	174.108	200.649	1.00	17.79	C
ATOM	1595	N	ASP	A	234	175.468	175.666	201.229	1.00	15.92	N
ATOM	1596	CA	ASP	A	234	176.206	176.626	200.417	1.00	19.49	C
ATOM	1597	C	ASP	A	234	175.990	176.407	198.925	1.00	16.52	C
ATOM	1598	O	ASP	A	234	175.824	177.376	198.176	1.00	13.48	O
ATOM	1599	CB	ASP	A	234	177.700	176.547	200.739	1.00	15.20	C
ATOM	1600	CG	ASP	A	234	178.036	177.138	202.090	1.00	23.85	C
ATOM	1601	OD1	ASP	A	234	177.099	177.490	202.836	1.00	31.75	O
ATOM	1602	OD2	ASP	A	234	179.238	177.250	202.409	1.00	31.17	O
ATOM	1603	N	TYR	A	235	175.994	175.154	198.479	1.00	20.52	N
ATOM	1604	CA	TYR	A	235	175.826	174.809	197.075	1.00	11.24	C
ATOM	1605	C	TYR	A	235	174.650	173.857	196.917	1.00	15.11	C
ATOM	1606	O	TYR	A	235	174.432	172.977	197.757	1.00	30.69	O
ATOM	1607	CB	TYR	A	235	177.095	174.166	196.508	1.00	11.66	C
ATOM	1608	CG	TYR	A	235	178.332	175.023	196.646	1.00	15.85	C
ATOM	1609	CD1	TYR	A	235	178.280	176.392	196.425	1.00	20.07	C
ATOM	1610	CD2	TYR	A	235	179.549	174.463	197.004	1.00	23.16	C
ATOM	1611	CE1	TYR	A	235	179.407	177.178	196.552	1.00	15.82	C
ATOM	1612	CE2	TYR	A	235	180.681	175.241	197.134	1.00	27.08	C
ATOM	1613	CZ	TYR	A	235	180.605	176.597	196.906	1.00	20.88	C
ATOM	1614	OH	TYR	A	235	181.730	177.377	197.035	1.00	28.49	O

ATOM	1615	N	VAL	A	236	173.894	174.036	195.837	1.00	9.13	N
ATOM	1616	CA	VAL	A	236	172.761	173.178	195.518	1.00	10.33	C
ATOM	1617	C	VAL	A	236	173.064	172.475	194.205	1.00	13.76	C
ATOM	1618	O	VAL	A	236	173.219	173.129	193.166	1.00	30.46	O
ATOM	1619	CB	VAL	A	236	171.448	173.972	195.424	1.00	13.36	C
ATOM	1620	CG1	VAL	A	236	170.258	173.026	195.404	1.00	11.24	C
ATOM	1621	CG2	VAL	A	236	171.337	174.952	196.579	1.00	14.18	C
ATOM	1622	N	GLN	A	237	173.162	171.151	194.251	1.00	7.48	N
ATOM	1623	CA	GLN	A	237	173.325	170.332	193.062	1.00	12.24	C
ATOM	1624	C	GLN	A	237	171.966	169.791	192.646	1.00	14.33	C
ATOM	1625	O	GLN	A	237	171.192	169.325	193.485	1.00	23.18	O
ATOM	1626	CB	GLN	A	237	174.294	169.177	193.320	1.00	8.49	C
ATOM	1627	CG	GLN	A	237	174.303	168.122	192.230	1.00	13.12	C
ATOM	1628	CD	GLN	A	237	175.491	167.189	192.331	1.00	20.49	C
ATOM	1629	OE1	GLN	A	237	176.278	167.268	193.272	1.00	24.26	O
ATOM	1630	NE2	GLN	A	237	175.622	166.292	191.361	1.00	25.88	N
ATOM	1631	N	VAL	A	238	171.674	169.876	191.352	1.00	19.49	N
ATOM	1632	CA	VAL	A	238	170.410	169.415	190.791	1.00	19.25	C
ATOM	1633	C	VAL	A	238	170.656	168.111	190.046	1.00	25.19	C
ATOM	1634	O	VAL	A	238	171.671	167.958	189.357	1.00	27.60	O
ATOM	1635	CB	VAL	A	238	169.771	170.475	189.871	1.00	25.77	C
ATOM	1636	CG1	VAL	A	238	169.488	171.748	190.651	1.00	19.96	C
ATOM	1637	CG2	VAL	A	238	170.670	170.777	188.682	1.00	28.46	C
ATOM	1638	N	CYS	A	239	169.742	167.157	190.213	1.00	33.81	N
ATOM	1639	CA	CYS	A	239	169.820	165.877	189.529	1.00	32.75	C
ATOM	1640	C	CYS	A	239	168.424	165.468	189.076	1.00	32.76	C
ATOM	1641	O	CYS	A	239	167.419	166.083	189.446	1.00	38.19	O
ATOM	1642	CB	CYS	A	239	170.438	164.804	190.434	1.00	33.14	C
ATOM	1643	SG	CYS	A	239	172.238	164.688	190.334	1.00	55.20	S
ATOM	1644	N	ASP	A	240	168.368	164.417	188.265	1.00	38.28	N
ATOM	1645	CA	ASP	A	240	167.116	163.812	187.842	1.00	41.35	C
ATOM	1646	C	ASP	A	240	166.979	162.454	188.516	1.00	45.09	C
ATOM	1647	O	ASP	A	240	167.902	161.964	189.171	1.00	49.46	O
ATOM	1648	CB	ASP	A	240	167.041	163.668	186.315	1.00	42.09	C
ATOM	1649	CG	ASP	A	240	167.182	164.994	185.596	1.00	48.00	C
ATOM	1650	OD1	ASP	A	240	167.293	166.035	186.277	1.00	45.34	O
ATOM	1651	OD2	ASP	A	240	167.181	164.997	184.347	1.00	51.37	O
ATOM	1652	N	SER	A	241	165.804	161.847	188.359	1.00	39.33	N
ATOM	1653	CA	SER	A	241	165.562	160.558	188.996	1.00	42.01	C
ATOM	1654	C	SER	A	241	166.235	159.416	188.243	1.00	45.90	C
ATOM	1655	O	SER	A	241	166.335	158.303	188.771	1.00	51.04	O
ATOM	1656	CB	SER	A	241	164.060	160.309	189.117	1.00	43.52	C
ATOM	1657	OG	SER	A	241	163.553	160.866	190.316	1.00	50.49	O
ATOM	1658	N	ASP	A	242	166.696	159.665	187.018	1.00	42.28	N
ATOM	1659	CA	ASP	A	242	167.304	158.626	186.197	1.00	40.55	C
ATOM	1660	C	ASP	A	242	168.826	158.699	186.143	1.00	40.07	C
ATOM	1661	O	ASP	A	242	169.461	157.708	185.767	1.00	42.73	O
ATOM	1662	CB	ASP	A	242	166.731	158.686	184.773	1.00	42.56	C
ATOM	1663	CG	ASP	A	242	167.018	160.007	184.072	1.00	47.74	C
ATOM	1664	OD1	ASP	A	242	168.201	160.369	183.905	1.00	52.07	O

ATOM	1665	OD2	ASP	A	242	166.046	160.689	183.684	1.00	48.46	O
ATOM	1666	N	THR	A	243	169.423	159.833	186.502	1.00	36.28	N
ATOM	1667	CA	THR	A	243	170.857	160.024	186.308	1.00	36.74	C
ATOM	1668	C	THR	A	243	171.658	159.146	187.267	1.00	34.21	C
ATOM	1669	O	THR	A	243	171.339	159.049	188.456	1.00	37.69	O
ATOM	1670	CB	THR	A	243	171.227	161.498	186.485	1.00	31.42	C
ATOM	1671	OG1	THR	A	243	172.644	161.659	186.340	1.00	29.08	O
ATOM	1672	CG2	THR	A	243	170.795	162.017	187.848	1.00	29.18	C
ATOM	1673	N	LYS	A	244	172.684	158.488	186.736	1.00	23.53	N
ATOM	1674	CA	LYS	A	244	173.656	157.763	187.539	1.00	24.07	C
ATOM	1675	C	LYS	A	244	174.893	158.634	187.704	1.00	21.72	C
ATOM	1676	O	LYS	A	244	175.471	159.095	186.714	1.00	30.10	O
ATOM	1677	CB	LYS	A	244	174.017	156.430	186.882	1.00	29.55	C
ATOM	1678	CG	LYS	A	244	175.162	155.692	187.549	1.00	32.66	C
ATOM	1679	CD	LYS	A	244	175.418	154.356	186.874	1.00	31.73	C
ATOM	1680	CE	LYS	A	244	176.772	153.791	187.265	1.00	39.71	C
ATOM	1681	NZ	LYS	A	244	177.103	154.082	188.687	1.00	36.43	N
ATOM	1682	N	LEU	A	245	175.294	158.856	188.951	1.00	28.06	N
ATOM	1683	CA	LEU	A	245	176.304	159.849	189.290	1.00	27.97	C
ATOM	1684	C	LEU	A	245	177.666	159.191	189.464	1.00	30.80	C
ATOM	1685	O	LEU	A	245	177.786	158.170	190.148	1.00	41.26	O
ATOM	1686	CB	LEU	A	245	175.918	160.591	190.570	1.00	29.59	C
ATOM	1687	CG	LEU	A	245	176.063	162.112	190.569	1.00	32.61	C
ATOM	1688	CD1	LEU	A	245	175.298	162.725	189.408	1.00	30.07	C
ATOM	1689	CD2	LEU	A	245	175.587	162.688	191.892	1.00	32.11	C
ATOM	1690	N	ASP	A	246	178.685	159.779	188.844	1.00	25.40	N
ATOM	1691	CA	ASP	A	246	180.053	159.371	189.112	1.00	26.80	C
ATOM	1692	C	ASP	A	246	180.458	159.805	190.518	1.00	37.84	C
ATOM	1693	O	ASP	A	246	179.914	160.756	191.085	1.00	46.72	O
ATOM	1694	CB	ASP	A	246	181.006	159.966	188.075	1.00	31.93	C
ATOM	1695	CG	ASP	A	246	182.351	159.267	188.051	1.00	39.73	C
ATOM	1696	OD1	ASP	A	246	182.392	158.045	188.303	1.00	34.63	O
ATOM	1697	OD2	ASP	A	246	183.367	159.940	187.780	1.00	45.00	O
ATOM	1698	N	GLU	A	247	181.428	159.086	191.086	1.00	33.34	N
ATOM	1699	CA	GLU	A	247	181.814	159.334	192.469	1.00	27.92	C
ATOM	1700	C	GLU	A	247	182.530	160.666	192.655	1.00	37.25	C
ATOM	1701	O	GLU	A	247	182.534	161.199	193.769	1.00	41.42	O
ATOM	1702	CB	GLU	A	247	182.697	158.194	192.980	1.00	28.38	C
ATOM	1703	CG	GLU	A	247	184.032	158.072	192.267	1.00	36.16	C
ATOM	1704	CD	GLU	A	247	184.970	157.096	192.951	1.00	43.29	C
ATOM	1705	OE1	GLU	A	247	184.606	156.576	194.027	1.00	44.61	O
ATOM	1706	OE2	GLU	A	247	186.069	156.850	192.414	1.00	41.26	O
ATOM	1707	N	LEU	A	248	183.124	161.221	191.600	1.00	36.74	N
ATOM	1708	CA	LEU	A	248	183.910	162.443	191.704	1.00	27.73	C
ATOM	1709	C	LEU	A	248	183.167	163.679	191.208	1.00	22.72	C
ATOM	1710	O	LEU	A	248	183.740	164.774	191.211	1.00	28.42	O
ATOM	1711	CB	LEU	A	248	185.226	162.286	190.940	1.00	25.70	C
ATOM	1712	CG	LEU	A	248	186.484	162.076	191.785	1.00	23.44	C
ATOM	1713	CD1	LEU	A	248	186.273	160.971	192.806	1.00	27.83	C
ATOM	1714	CD2	LEU	A	248	187.679	161.767	190.899	1.00	27.49	C

ATOM	1715	N	ALA	A	249	181.906	163.535	190.797	1.00	19.83	N
ATOM	1716	CA	ALA	A	249	181.183	164.661	190.212	1.00	28.91	C
ATOM	1717	C	ALA	A	249	181.013	165.796	191.215	1.00	34.45	C
ATOM	1718	O	ALA	A	249	181.334	166.956	190.921	1.00	37.32	O
ATOM	1719	CB	ALA	A	249	179.824	164.193	189.692	1.00	23.88	C
ATOM	1720	N	THR	A	250	180.505	165.478	192.408	1.00	31.88	N
ATOM	1721	CA	THR	A	250	180.235	166.513	193.401	1.00	26.71	C
ATOM	1722	C	THR	A	250	181.515	167.210	193.841	1.00	23.84	C
ATOM	1723	O	THR	A	250	181.559	168.443	193.930	1.00	23.55	O
ATOM	1724	CB	THR	A	250	179.514	165.908	194.606	1.00	23.48	C
ATOM	1725	OG1	THR	A	250	178.256	165.364	194.188	1.00	21.67	O
ATOM	1726	CG2	THR	A	250	179.270	166.966	195.669	1.00	19.41	C
ATOM	1727	N	VAL	A	251	182.571	166.440	194.113	1.00	24.53	N
ATOM	1728	CA	VAL	A	251	183.810	167.041	194.595	1.00	26.79	C
ATOM	1729	C	VAL	A	251	184.454	167.891	193.506	1.00	21.45	C
ATOM	1730	O	VAL	A	251	184.974	168.976	193.783	1.00	22.41	O
ATOM	1731	CB	VAL	A	251	184.769	165.960	195.133	1.00	25.96	C
ATOM	1732	CG1	VAL	A	251	184.920	164.827	194.145	1.00	27.72	C
ATOM	1733	CG2	VAL	A	251	186.123	166.562	195.467	1.00	20.79	C
ATOM	1734	N	GLU	A	252	184.415	167.432	192.251	1.00	19.92	N
ATOM	1735	CA	GLU	A	252	184.973	168.237	191.166	1.00	17.75	C
ATOM	1736	C	GLU	A	252	184.198	169.537	190.974	1.00	21.63	C
ATOM	1737	O	GLU	A	252	184.800	170.602	190.774	1.00	27.94	O
ATOM	1738	CB	GLU	A	252	185.002	167.431	189.868	1.00	18.25	C
ATOM	1739	CG	GLU	A	252	186.053	166.332	189.839	1.00	22.24	C
ATOM	1740	CD	GLU	A	252	187.443	166.841	190.166	1.00	29.27	C
ATOM	1741	OE1	GLU	A	252	187.820	167.917	189.656	1.00	33.48	O
ATOM	1742	OE2	GLU	A	252	188.159	166.165	190.932	1.00	25.51	O
ATOM	1743	N	MET	A	253	182.864	169.477	191.026	1.00	23.05	N
ATOM	1744	CA	MET	A	253	182.078	170.697	190.866	1.00	18.57	C
ATOM	1745	C	MET	A	253	182.315	171.666	192.019	1.00	18.84	C
ATOM	1746	O	MET	A	253	182.429	172.878	191.805	1.00	17.99	O
ATOM	1747	CB	MET	A	253	180.594	170.360	190.733	1.00	20.76	C
ATOM	1748	CG	MET	A	253	180.237	169.675	189.424	1.00	23.49	C
ATOM	1749	SD	MET	A	253	178.470	169.702	189.076	1.00	25.47	S
ATOM	1750	CE	MET	A	253	177.918	168.312	190.055	1.00	28.65	C
ATOM	1751	N	VAL	A	254	182.400	171.152	193.249	1.00	30.14	N
ATOM	1752	CA	VAL	A	254	182.696	172.013	194.392	1.00	17.45	C
ATOM	1753	C	VAL	A	254	184.083	172.625	194.250	1.00	18.94	C
ATOM	1754	O	VAL	A	254	184.298	173.800	194.573	1.00	18.66	O
ATOM	1755	CB	VAL	A	254	182.553	171.222	195.706	1.00	19.03	C
ATOM	1756	CG1	VAL	A	254	183.117	172.014	196.874	1.00	21.14	C
ATOM	1757	CG2	VAL	A	254	181.099	170.876	195.955	1.00	21.45	C
ATOM	1758	N	LYS	A	255	185.043	171.839	193.759	1.00	26.29	N
ATOM	1759	CA	LYS	A	255	186.392	172.344	193.537	1.00	20.31	C
ATOM	1760	C	LYS	A	255	186.393	173.497	192.545	1.00	24.39	C
ATOM	1761	O	LYS	A	255	187.032	174.529	192.779	1.00	29.03	O
ATOM	1762	CB	LYS	A	255	187.283	171.211	193.029	1.00	25.65	C
ATOM	1763	CG	LYS	A	255	188.646	171.138	193.670	1.00	30.58	C
ATOM	1764	CD	LYS	A	255	189.471	170.015	193.066	1.00	31.63	C

ATOM	1765	CE	LYS	A	255	189.057	168.665	193.625	1.00	28.50	C
ATOM	1766	NZ	LYS	A	255	190.089	167.622	193.377	1.00	30.70	N
ATOM	1767	N	VAL	A	256	185.674	173.342	191.432	1.00	25.99	N
ATOM	1768	CA	VAL	A	256	185.676	174.392	190.417	1.00	23.58	C
ATOM	1769	C	VAL	A	256	184.865	175.600	190.875	1.00	21.54	C
ATOM	1770	O	VAL	A	256	185.124	176.728	190.438	1.00	17.87	O
ATOM	1771	CB	VAL	A	256	185.176	173.837	189.070	1.00	24.77	C
ATOM	1772	CG1	VAL	A	256	183.667	173.864	189.003	1.00	26.79	C
ATOM	1773	CG2	VAL	A	256	185.776	174.628	187.917	1.00	24.66	C
ATOM	1774	N	LEU	A	257	183.879	175.400	191.755	1.00	30.31	N
ATOM	1775	CA	LEU	A	257	183.103	176.526	192.263	1.00	22.73	C
ATOM	1776	C	LEU	A	257	183.857	177.314	193.326	1.00	25.66	C
ATOM	1777	O	LEU	A	257	183.686	178.534	193.423	1.00	23.91	O
ATOM	1778	CB	LEU	A	257	181.769	176.036	192.830	1.00	25.00	C
ATOM	1779	CG	LEU	A	257	180.536	176.188	191.937	1.00	19.36	C
ATOM	1780	CD1	LEU	A	257	179.263	175.995	192.742	1.00	19.60	C
ATOM	1781	CD2	LEU	A	257	180.532	177.541	191.252	1.00	22.11	C
ATOM	1782	N	GLU	A	258	184.684	176.642	194.129	1.00	39.92	N
ATOM	1783	CA	GLU	A	258	185.382	177.307	195.224	1.00	27.76	C
ATOM	1784	C	GLU	A	258	186.530	178.185	194.745	1.00	29.53	C
ATOM	1785	O	GLU	A	258	186.937	179.096	195.474	1.00	32.15	O
ATOM	1786	CB	GLU	A	258	185.916	176.267	196.209	1.00	22.07	C
ATOM	1787	CG	GLU	A	258	184.973	175.931	197.348	1.00	28.68	C
ATOM	1788	CD	GLU	A	258	185.630	175.059	198.400	1.00	43.84	C
ATOM	1789	OE1	GLU	A	258	186.686	175.460	198.931	1.00	47.74	O
ATOM	1790	OE2	GLU	A	258	185.095	173.969	198.691	1.00	42.35	O
ATOM	1791	N	SER	A	259	187.064	177.928	193.549	1.00	29.52	N
ATOM	1792	CA	SER	A	259	188.257	178.639	193.098	1.00	28.27	C
ATOM	1793	C	SER	A	259	187.997	180.132	192.936	1.00	28.48	C
ATOM	1794	O	SER	A	259	188.823	180.959	193.338	1.00	36.26	O
ATOM	1795	CB	SER	A	259	188.759	178.037	191.786	1.00	29.57	C
ATOM	1796	OG	SER	A	259	187.809	178.205	190.750	1.00	32.99	O
ATOM	1797	N	ASN	A	260	186.860	180.498	192.350	1.00	27.37	N
ATOM	1798	CA	ASN	A	260	186.532	181.893	192.089	1.00	23.00	C
ATOM	1799	C	ASN	A	260	185.160	182.209	192.663	1.00	24.55	C
ATOM	1800	O	ASN	A	260	184.211	181.444	192.468	1.00	27.05	O
ATOM	1801	CB	ASN	A	260	186.559	182.195	190.587	1.00	24.08	C
ATOM	1802	CG	ASN	A	260	186.851	183.651	190.290	1.00	26.21	C
ATOM	1803	OD1	ASN	A	260	186.162	184.546	190.778	1.00	29.59	O
ATOM	1804	ND2	ASN	A	260	187.876	183.896	189.483	1.00	28.26	N
ATOM	1805	N	ASP	A	261	185.062	183.336	193.370	1.00	24.35	N
ATOM	1806	CA	ASP	A	261	183.786	183.779	193.918	1.00	22.70	C
ATOM	1807	C	ASP	A	261	182.851	184.338	192.854	1.00	27.42	C
ATOM	1808	O	ASP	A	261	181.661	184.516	193.133	1.00	31.84	O
ATOM	1809	CB	ASP	A	261	184.022	184.831	195.003	1.00	27.51	C
ATOM	1810	CG	ASP	A	261	183.079	184.678	196.178	1.00	35.86	C
ATOM	1811	OD1	ASP	A	261	181.849	184.684	195.962	1.00	38.34	O
ATOM	1812	OD2	ASP	A	261	183.567	184.551	197.321	1.00	32.39	O
ATOM	1813	N	MET	A	262	183.357	184.619	191.652	1.00	29.42	N
ATOM	1814	CA	MET	A	262	182.511	185.138	190.584	1.00	26.74	C

ATOM	1815	C	MET	A	262	181.608	184.065	189.992	1.00	27.75	C
ATOM	1816	O	MET	A	262	180.538	184.388	189.463	1.00	24.02	O
ATOM	1817	CB	MET	A	262	183.376	185.757	189.484	1.00	26.59	C
ATOM	1818	CG	MET	A	262	183.879	187.160	189.792	1.00	31.93	C
ATOM	1819	SD	MET	A	262	182.564	188.353	190.115	1.00	46.49	S
ATOM	1820	CE	MET	A	262	181.417	187.979	188.789	1.00	35.72	C
ATOM	1821	N	TYR	A	263	182.016	182.801	190.063	1.00	26.35	N
ATOM	1822	CA	TYR	A	263	181.220	181.721	189.496	1.00	20.22	C
ATOM	1823	C	TYR	A	263	179.914	181.567	190.266	1.00	12.74	C
ATOM	1824	O	TYR	A	263	179.906	181.562	191.500	1.00	18.93	O
ATOM	1825	CB	TYR	A	263	182.004	180.408	189.520	1.00	20.16	C
ATOM	1826	CG	TYR	A	263	183.345	180.452	188.817	1.00	18.98	C
ATOM	1827	CD1	TYR	A	263	183.609	181.391	187.830	1.00	16.14	C
ATOM	1828	CD2	TYR	A	263	184.344	179.542	189.136	1.00	19.64	C
ATOM	1829	CE1	TYR	A	263	184.830	181.430	187.187	1.00	19.94	C
ATOM	1830	CE2	TYR	A	263	185.568	179.571	188.496	1.00	23.38	C
ATOM	1831	CZ	TYR	A	263	185.806	180.517	187.524	1.00	29.83	C
ATOM	1832	OH	TYR	A	263	187.024	180.550	186.885	1.00	34.02	O
ATOM	1833	N	GLY	A	264	178.809	181.443	189.537	1.00	7.68	N
ATOM	1834	CA	GLY	A	264	177.514	181.269	190.165	1.00	12.64	C
ATOM	1835	C	GLY	A	264	176.918	179.899	189.921	1.00	10.57	C
ATOM	1836	O	GLY	A	264	176.107	179.410	190.715	1.00	19.08	O
ATOM	1837	N	ALA	A	265	177.320	179.270	188.820	1.00	10.67	N
ATOM	1838	CA	ALA	A	265	176.805	177.964	188.445	1.00	7.50	C
ATOM	1839	C	ALA	A	265	177.872	177.219	187.660	1.00	9.24	C
ATOM	1840	O	ALA	A	265	178.811	177.816	187.128	1.00	17.27	O
ATOM	1841	CB	ALA	A	265	175.519	178.080	187.621	1.00	8.35	C
ATOM	1842	N	VAL	A	266	177.718	175.898	187.598	1.00	15.24	N
ATOM	1843	CA	VAL	A	266	178.641	175.055	186.847	1.00	16.07	C
ATOM	1844	C	VAL	A	266	177.914	173.789	186.414	1.00	11.00	C
ATOM	1845	O	VAL	A	266	176.966	173.342	187.063	1.00	10.37	O
ATOM	1846	CB	VAL	A	266	179.911	174.723	187.667	1.00	12.44	C
ATOM	1847	CG1	VAL	A	266	179.594	173.744	188.783	1.00	17.13	C
ATOM	1848	CG2	VAL	A	266	181.002	174.180	186.759	1.00	15.47	C
ATOM	1849	N	GLY	A	267	178.356	173.225	185.289	1.00	10.14	N
ATOM	1850	CA	GLY	A	267	177.838	171.976	184.783	1.00	23.21	C
ATOM	1851	C	GLY	A	267	178.923	170.916	184.692	1.00	24.90	C
ATOM	1852	O	GLY	A	267	180.065	171.117	185.112	1.00	24.53	O
ATOM	1853	N	GLY	A	268	178.538	169.773	184.126	1.00	21.16	N
ATOM	1854	CA	GLY	A	268	179.459	168.665	183.974	1.00	13.15	C
ATOM	1855	C	GLY	A	268	179.109	167.820	182.769	1.00	23.46	C
ATOM	1856	O	GLY	A	268	178.042	167.963	182.167	1.00	28.29	O
ATOM	1857	N	ASP	A	269	180.035	166.931	182.422	1.00	24.13	N
ATOM	1858	CA	ASP	A	269	179.836	166.040	181.288	1.00	18.26	C
ATOM	1859	C	ASP	A	269	178.720	165.045	181.577	1.00	17.42	C
ATOM	1860	O	ASP	A	269	178.622	164.499	182.679	1.00	33.29	O
ATOM	1861	CB	ASP	A	269	181.132	165.298	180.965	1.00	24.39	C
ATOM	1862	CG	ASP	A	269	181.219	164.880	179.512	1.00	35.18	C
ATOM	1863	OD1	ASP	A	269	180.280	165.183	178.747	1.00	31.82	O
ATOM	1864	OD2	ASP	A	269	182.227	164.247	179.134	1.00	39.62	O

ATOM	1865	N	VAL	A	270	177.872	164.811	180.580	1.00	21.96	N
ATOM	1866	CA	VAL	A	270	176.759	163.875	180.686	1.00	23.27	C
ATOM	1867	C	VAL	A	270	176.948	162.797	179.630	1.00	26.23	C
ATOM	1868	O	VAL	A	270	177.083	163.104	178.439	1.00	33.05	O
ATOM	1869	CB	VAL	A	270	175.402	164.576	180.519	1.00	21.42	C
ATOM	1870	CG1	VAL	A	270	174.288	163.551	180.403	1.00	19.98	C
ATOM	1871	CG2	VAL	A	270	175.146	165.518	181.683	1.00	22.03	C
ATOM	1872	N	ARG	A	271	176.961	161.541	180.063	1.00	24.90	N
ATOM	1873	CA	ARG	A	271	177.098	160.405	179.168	1.00	25.40	C
ATOM	1874	C	ARG	A	271	175.743	159.727	178.981	1.00	25.91	C
ATOM	1875	O	ARG	A	271	174.714	160.181	179.487	1.00	34.21	O
ATOM	1876	CB	ARG	A	271	178.146	159.428	179.702	1.00	29.22	C
ATOM	1877	CG	ARG	A	271	179.488	160.069	180.014	1.00	29.99	C
ATOM	1878	CD	ARG	A	271	180.050	160.793	178.803	1.00	32.06	C
ATOM	1879	NE	ARG	A	271	181.477	161.059	178.940	1.00	34.02	N
ATOM	1880	CZ	ARG	A	271	182.425	160.432	178.257	1.00	37.59	C
ATOM	1881	NH1	ARG	A	271	182.133	159.491	177.375	1.00	36.29	N
ATOM	1882	NH2	ARG	A	271	183.697	160.758	178.465	1.00	40.25	N
ATOM	1883	N	ILE	A	272	175.744	158.620	178.242	1.00	29.91	N
ATOM	1884	CA	ILE	A	272	174.528	157.891	177.902	1.00	31.32	C
ATOM	1885	C	ILE	A	272	174.644	156.469	178.430	1.00	32.43	C
ATOM	1886	O	ILE	A	272	175.655	155.795	178.202	1.00	35.64	O
ATOM	1887	CB	ILE	A	272	174.273	157.891	176.384	1.00	29.30	C
ATOM	1888	CG1	ILE	A	272	174.365	159.313	175.830	1.00	33.46	C
ATOM	1889	CG2	ILE	A	272	172.919	157.282	176.071	1.00	33.96	C
ATOM	1890	CD1	ILE	A	272	173.361	160.268	176.431	1.00	29.78	C
ATOM	1891	N	LEU	A	273	173.605	156.016	179.137	1.00	30.85	N
ATOM	1892	CA	LEU	A	273	173.582	154.655	179.661	1.00	39.05	C
ATOM	1893	C	LEU	A	273	173.376	153.613	178.570	1.00	43.68	C
ATOM	1894	O	LEU	A	273	173.919	152.507	178.668	1.00	43.42	O
ATOM	1895	CB	LEU	A	273	172.484	154.516	180.717	1.00	35.02	C
ATOM	1896	CG	LEU	A	273	172.767	155.094	182.103	1.00	37.87	C
ATOM	1897	CD1	LEU	A	273	171.495	155.146	182.929	1.00	36.68	C
ATOM	1898	CD2	LEU	A	273	173.823	154.258	182.805	1.00	38.70	C
ATOM	1899	N	ASN	A	274	172.607	153.936	177.533	1.00	40.50	N
ATOM	1900	CA	ASN	A	274	172.222	152.977	176.497	1.00	36.03	C
ATOM	1901	C	ASN	A	274	172.571	153.530	175.122	1.00	38.78	C
ATOM	1902	O	ASN	A	274	171.696	153.995	174.382	1.00	45.44	O
ATOM	1903	CB	ASN	A	274	170.733	152.645	176.593	1.00	41.21	C
ATOM	1904	CG	ASN	A	274	169.868	153.884	176.730	1.00	44.45	C
ATOM	1905	OD1	ASN	A	274	170.246	154.848	177.393	1.00	41.26	O
ATOM	1906	ND2	ASN	A	274	168.699	153.863	176.099	1.00	46.29	N
ATOM	1907	N	PRO	A	275	173.850	153.492	174.743	1.00	32.61	N
ATOM	1908	CA	PRO	A	275	174.241	153.939	173.402	1.00	26.82	C
ATOM	1909	C	PRO	A	275	174.065	152.887	172.320	1.00	31.95	C
ATOM	1910	O	PRO	A	275	174.361	153.171	171.154	1.00	41.11	O
ATOM	1911	CB	PRO	A	275	175.722	154.292	173.585	1.00	32.93	C
ATOM	1912	CG	PRO	A	275	176.190	153.351	174.638	1.00	39.51	C
ATOM	1913	CD	PRO	A	275	175.013	153.067	175.543	1.00	37.08	C
ATOM	1914	N	TYR	A	276	173.599	151.686	172.665	1.00	40.65	N

ATOM	1915	CA	TYR	A	276	173.412	150.613	171.695	1.00	44.41	C
ATOM	1916	C	TYR	A	276	171.965	150.144	171.604	1.00	43.08	C
ATOM	1917	O	TYR	A	276	171.709	149.070	171.045	1.00	38.33	O
ATOM	1918	CB	TYR	A	276	174.324	149.429	172.030	1.00	36.85	C
ATOM	1919	CG	TYR	A	276	175.789	149.792	172.097	1.00	39.89	C
ATOM	1920	CD1	TYR	A	276	176.490	150.138	170.950	1.00	40.26	C
ATOM	1921	CD2	TYR	A	276	176.471	149.790	173.306	1.00	38.74	C
ATOM	1922	CE1	TYR	A	276	177.829	150.471	171.005	1.00	39.79	C
ATOM	1923	CE2	TYR	A	276	177.810	150.121	173.371	1.00	40.43	C
ATOM	1924	CZ	TYR	A	276	178.484	150.461	172.218	1.00	43.04	C
ATOM	1925	OH	TYR	A	276	179.817	150.792	172.276	1.00	45.60	O
ATOM	1926	N	ASP	A	277	171.015	150.910	172.143	1.00	46.18	N
ATOM	1927	CA	ASP	A	277	169.609	150.533	172.029	1.00	43.63	C
ATOM	1928	C	ASP	A	277	169.148	150.558	170.578	1.00	45.49	C
ATOM	1929	O	ASP	A	277	168.405	149.673	170.138	1.00	51.09	O
ATOM	1930	CB	ASP	A	277	168.745	151.459	172.883	1.00	41.78	C
ATOM	1931	CG	ASP	A	277	168.505	150.912	174.275	1.00	51.97	C
ATOM	1932	OD1	ASP	A	277	167.434	151.198	174.851	1.00	54.05	O
ATOM	1933	OD2	ASP	A	277	169.386	150.195	174.794	1.00	52.92	O
ATOM	1934	N	SER	A	278	169.577	151.564	169.821	1.00	38.67	N
ATOM	1935	CA	SER	A	278	169.214	151.692	168.416	1.00	37.40	C
ATOM	1936	C	SER	A	278	170.240	152.591	167.738	1.00	40.14	C
ATOM	1937	O	SER	A	278	171.212	153.034	168.356	1.00	43.63	O
ATOM	1938	CB	SER	A	278	167.794	152.243	168.257	1.00	39.80	C
ATOM	1939	OG	SER	A	278	167.412	152.280	166.894	1.00	46.09	O
ATOM	1940	N	PHE	A	279	170.018	152.850	166.448	1.00	34.21	N
ATOM	1941	CA	PHE	A	279	170.882	153.774	165.722	1.00	25.31	C
ATOM	1942	C	PHE	A	279	170.737	155.194	166.253	1.00	30.99	C
ATOM	1943	O	PHE	A	279	171.705	155.962	166.265	1.00	35.32	O
ATOM	1944	CB	PHE	A	279	170.566	153.722	164.227	1.00	24.48	C
ATOM	1945	CG	PHE	A	279	171.291	154.758	163.415	1.00	26.86	C
ATOM	1946	CD1	PHE	A	279	172.637	154.612	163.125	1.00	33.41	C
ATOM	1947	CD2	PHE	A	279	170.625	155.874	162.938	1.00	27.88	C
ATOM	1948	CE1	PHE	A	279	173.307	155.562	162.377	1.00	25.12	C
ATOM	1949	CE2	PHE	A	279	171.290	156.827	162.189	1.00	31.32	C
ATOM	1950	CZ	PHE	A	279	172.632	156.670	161.909	1.00	24.78	C
ATOM	1951	N	ILE	A	280	169.531	155.560	166.692	1.00	35.84	N
ATOM	1952	CA	ILE	A	280	169.293	156.908	167.197	1.00	27.72	C
ATOM	1953	C	ILE	A	280	170.050	157.138	168.499	1.00	36.16	C
ATOM	1954	O	ILE	A	280	170.582	158.228	168.736	1.00	39.37	O
ATOM	1955	CB	ILE	A	280	167.782	157.148	167.363	1.00	31.94	C
ATOM	1956	CG1	ILE	A	280	167.113	157.272	165.994	1.00	31.04	C
ATOM	1957	CG2	ILE	A	280	167.517	158.395	168.190	1.00	32.33	C
ATOM	1958	CD1	ILE	A	280	165.616	157.428	166.067	1.00	36.10	C
ATOM	1959	N	SER	A	281	170.114	156.121	169.362	1.00	35.83	N
ATOM	1960	CA	SER	A	281	170.813	156.270	170.636	1.00	24.44	C
ATOM	1961	C	SER	A	281	172.307	156.495	170.433	1.00	30.94	C
ATOM	1962	O	SER	A	281	172.922	157.295	171.146	1.00	42.20	O
ATOM	1963	CB	SER	A	281	170.573	155.041	171.512	1.00	30.67	C
ATOM	1964	OG	SER	A	281	169.189	154.830	171.723	1.00	43.36	O

ATOM	1965	N	PHE	A	282	172.908	155.790	169.475	1.00	19.41	N
ATOM	1966	CA	PHE	A	282	174.335	155.947	169.210	1.00	25.68	C
ATOM	1967	C	PHE	A	282	174.653	157.352	168.705	1.00	27.94	C
ATOM	1968	O	PHE	A	282	175.601	158.002	169.173	1.00	24.69	O
ATOM	1969	CB	PHE	A	282	174.773	154.889	168.198	1.00	26.96	C
ATOM	1970	CG	PHE	A	282	176.241	154.876	167.927	1.00	28.12	C
ATOM	1971	CD1	PHE	A	282	177.136	154.496	168.910	1.00	26.60	C
ATOM	1972	CD2	PHE	A	282	176.727	155.236	166.684	1.00	26.62	C
ATOM	1973	CE1	PHE	A	282	178.488	154.481	168.657	1.00	26.29	C
ATOM	1974	CE2	PHE	A	282	178.075	155.223	166.427	1.00	22.46	C
ATOM	1975	CZ	PHE	A	282	178.955	154.844	167.413	1.00	25.37	C
ATOM	1976	N	MET	A	283	173.860	157.840	167.748	1.00	20.37	N
ATOM	1977	CA	MET	A	283	174.044	159.198	167.251	1.00	17.92	C
ATOM	1978	C	MET	A	283	173.797	160.218	168.352	1.00	21.81	C
ATOM	1979	O	MET	A	283	174.476	161.248	168.419	1.00	27.18	O
ATOM	1980	CB	MET	A	283	173.117	159.452	166.063	1.00	20.51	C
ATOM	1981	CG	MET	A	283	173.542	158.756	164.781	1.00	26.46	C
ATOM	1982	SD	MET	A	283	175.146	159.315	164.178	1.00	37.98	S
ATOM	1983	CE	MET	A	283	176.062	157.778	164.190	1.00	22.70	C
ATOM	1984	N	SER	A	284	172.824	159.949	169.225	1.00	24.52	N
ATOM	1985	CA	SER	A	284	172.557	160.843	170.345	1.00	22.52	C
ATOM	1986	C	SER	A	284	173.739	160.896	171.303	1.00	19.52	C
ATOM	1987	O	SER	A	284	174.075	161.965	171.816	1.00	30.23	O
ATOM	1988	CB	SER	A	284	171.291	160.402	171.078	1.00	24.49	C
ATOM	1989	OG	SER	A	284	170.180	160.370	170.200	1.00	33.62	O
ATOM	1990	N	SER	A	285	174.376	159.753	171.562	1.00	16.73	N
ATOM	1991	CA	SER	A	285	175.557	159.742	172.423	1.00	20.08	C
ATOM	1992	C	SER	A	285	176.707	160.523	171.797	1.00	23.97	C
ATOM	1993	O	SER	A	285	177.392	161.296	172.484	1.00	25.72	O
ATOM	1994	CB	SER	A	285	175.981	158.303	172.714	1.00	22.72	C
ATOM	1995	OG	SER	A	285	176.468	157.669	171.544	1.00	17.17	O
ATOM	1996	N	LEU	A	286	176.937	160.331	170.495	1.00	34.14	N
ATOM	1997	CA	LEU	A	286	177.993	161.087	169.824	1.00	29.92	C
ATOM	1998	C	LEU	A	286	177.706	162.585	169.859	1.00	20.06	C
ATOM	1999	O	LEU	A	286	178.606	163.395	170.124	1.00	17.49	O
ATOM	2000	CB	LEU	A	286	178.156	160.600	168.384	1.00	27.53	C
ATOM	2001	CG	LEU	A	286	178.675	159.173	168.197	1.00	23.70	C
ATOM	2002	CD1	LEU	A	286	178.741	158.817	166.723	1.00	27.01	C
ATOM	2003	CD2	LEU	A	286	180.037	159.004	168.850	1.00	17.01	C
ATOM	2004	N	ARG	A	287	176.453	162.972	169.607	1.00	15.20	N
ATOM	2005	CA	ARG	A	287	176.078	164.381	169.653	1.00	10.14	C
ATOM	2006	C	ARG	A	287	176.199	164.940	171.064	1.00	21.27	C
ATOM	2007	O	ARG	A	287	176.567	166.104	171.243	1.00	35.71	O
ATOM	2008	CB	ARG	A	287	174.656	164.561	169.122	1.00	22.61	C
ATOM	2009	CG	ARG	A	287	174.126	165.980	169.233	1.00	31.52	C
ATOM	2010	CD	ARG	A	287	172.627	165.995	169.482	1.00	34.02	C
ATOM	2011	NE	ARG	A	287	172.117	167.350	169.649	1.00	33.91	N
ATOM	2012	CZ	ARG	A	287	170.960	167.779	169.166	1.00	34.49	C
ATOM	2013	NH1	ARG	A	287	170.159	166.982	168.478	1.00	33.37	N
ATOM	2014	NH2	ARG	A	287	170.596	169.040	169.379	1.00	31.42	N

ATOM	2015	N	TYR	A	288	175.882	164.130	172.076	1.00	29.32	N
ATOM	2016	CA	TYR	A	288	176.048	164.562	173.459	1.00	26.02	C
ATOM	2017	C	TYR	A	288	177.509	164.856	173.760	1.00	19.62	C
ATOM	2018	O	TYR	A	288	177.839	165.899	174.338	1.00	27.22	O
ATOM	2019	CB	TYR	A	288	175.511	163.490	174.408	1.00	22.97	C
ATOM	2020	CG	TYR	A	288	174.127	163.767	174.948	1.00	20.41	C
ATOM	2021	CD1	TYR	A	288	173.042	163.902	174.094	1.00	26.44	C
ATOM	2022	CD2	TYR	A	288	173.906	163.883	176.313	1.00	26.00	C
ATOM	2023	CE1	TYR	A	288	171.774	164.151	174.585	1.00	34.01	C
ATOM	2024	CE2	TYR	A	288	172.643	164.132	176.813	1.00	29.28	C
ATOM	2025	CZ	TYR	A	288	171.581	164.265	175.945	1.00	38.00	C
ATOM	2026	OH	TYR	A	288	170.322	164.513	176.440	1.00	35.42	O
ATOM	2027	N	TRP	A	289	178.405	163.949	173.359	1.00	21.32	N
ATOM	2028	CA	TRP	A	289	179.826	164.201	173.576	1.00	19.21	C
ATOM	2029	C	TRP	A	289	180.273	165.462	172.851	1.00	18.56	C
ATOM	2030	O	TRP	A	289	181.006	166.283	173.415	1.00	16.54	O
ATOM	2031	CB	TRP	A	289	180.673	163.010	173.128	1.00	22.59	C
ATOM	2032	CG	TRP	A	289	182.104	163.137	173.576	1.00	21.64	C
ATOM	2033	CD1	TRP	A	289	182.665	162.580	174.687	1.00	30.72	C
ATOM	2034	CD2	TRP	A	289	183.146	163.888	172.936	1.00	21.42	C
ATOM	2035	NE1	TRP	A	289	183.991	162.929	174.775	1.00	28.49	N
ATOM	2036	CE2	TRP	A	289	184.310	163.731	173.712	1.00	25.40	C
ATOM	2037	CE3	TRP	A	289	183.208	164.672	171.779	1.00	26.84	C
ATOM	2038	CZ2	TRP	A	289	185.521	164.331	173.371	1.00	23.25	C
ATOM	2039	CZ3	TRP	A	289	184.411	165.267	171.444	1.00	21.34	C
ATOM	2040	CH2	TRP	A	289	185.550	165.092	172.236	1.00	15.97	C
ATOM	2041	N	MET	A	290	179.844	165.633	171.598	1.00	31.05	N
ATOM	2042	CA	MET	A	290	180.234	166.819	170.842	1.00	16.70	C
ATOM	2043	C	MET	A	290	179.756	168.092	171.531	1.00	19.90	C
ATOM	2044	O	MET	A	290	180.548	169.003	171.800	1.00	20.90	O
ATOM	2045	CB	MET	A	290	179.680	166.737	169.420	1.00	21.68	C
ATOM	2046	CG	MET	A	290	180.691	166.289	168.382	1.00	31.72	C
ATOM	2047	SD	MET	A	290	182.156	167.337	168.361	1.00	53.89	S
ATOM	2048	CE	MET	A	290	181.580	168.700	167.354	1.00	29.92	C
ATOM	2049	N	ALA	A	291	178.462	168.160	171.850	1.00	24.53	N
ATOM	2050	CA	ALA	A	291	177.879	169.361	172.431	1.00	17.76	C
ATOM	2051	C	ALA	A	291	178.396	169.647	173.832	1.00	19.21	C
ATOM	2052	O	ALA	A	291	178.353	170.802	174.267	1.00	24.92	O
ATOM	2053	CB	ALA	A	291	176.355	169.245	172.458	1.00	20.65	C
ATOM	2054	N	PHE	A	292	178.878	168.634	174.551	1.00	34.27	N
ATOM	2055	CA	PHE	A	292	179.407	168.886	175.884	1.00	19.93	C
ATOM	2056	C	PHE	A	292	180.888	169.242	175.874	1.00	18.64	C
ATOM	2057	O	PHE	A	292	181.317	170.095	176.658	1.00	24.30	O
ATOM	2058	CB	PHE	A	292	179.168	167.672	176.787	1.00	17.85	C
ATOM	2059	CG	PHE	A	292	177.848	167.702	177.501	1.00	16.98	C
ATOM	2060	CD1	PHE	A	292	177.685	168.459	178.647	1.00	26.47	C
ATOM	2061	CD2	PHE	A	292	176.769	166.978	177.024	1.00	20.78	C
ATOM	2062	CE1	PHE	A	292	176.473	168.491	179.306	1.00	26.50	C
ATOM	2063	CE2	PHE	A	292	175.555	167.007	177.679	1.00	22.64	C
ATOM	2064	CZ	PHE	A	292	175.406	167.765	178.820	1.00	22.07	C

ATOM	2065	N	ASN	A	293	181.685	168.622	175.005	1.00	21.91	N
ATOM	2066	CA	ASN	A	293	183.129	168.793	175.038	1.00	14.28	C
ATOM	2067	C	ASN	A	293	183.659	169.722	173.951	1.00	25.22	C
ATOM	2068	O	ASN	A	293	184.877	169.904	173.857	1.00	28.64	O
ATOM	2069	CB	ASN	A	293	183.818	167.431	174.940	1.00	15.50	C
ATOM	2070	CG	ASN	A	293	183.870	166.710	176.271	1.00	23.77	C
ATOM	2071	OD1	ASN	A	293	184.627	167.088	177.165	1.00	27.82	O
ATOM	2072	ND2	ASN	A	293	183.060	165.668	176.411	1.00	27.90	N
ATOM	2073	N	VAL	A	294	182.792	170.313	173.129	1.00	27.17	N
ATOM	2074	CA	VAL	A	294	183.261	171.310	172.175	1.00	19.48	C
ATOM	2075	C	VAL	A	294	182.506	172.614	172.391	1.00	23.59	C
ATOM	2076	O	VAL	A	294	183.102	173.634	172.753	1.00	36.94	O
ATOM	2077	CB	VAL	A	294	183.107	170.815	170.726	1.00	21.67	C
ATOM	2078	CG1	VAL	A	294	183.348	171.953	169.747	1.00	25.89	C
ATOM	2079	CG2	VAL	A	294	184.064	169.665	170.456	1.00	21.05	C
ATOM	2080	N	GLU	A	295	181.186	172.583	172.195	1.00	24.39	N
ATOM	2081	CA	GLU	A	295	180.389	173.802	172.300	1.00	21.87	C
ATOM	2082	C	GLU	A	295	180.391	174.344	173.725	1.00	23.57	C
ATOM	2083	O	GLU	A	295	180.667	175.529	173.950	1.00	30.77	O
ATOM	2084	CB	GLU	A	295	178.961	173.530	171.825	1.00	27.39	C
ATOM	2085	CG	GLU	A	295	177.915	174.462	172.412	1.00	31.36	C
ATOM	2086	CD	GLU	A	295	176.522	174.173	171.892	1.00	37.77	C
ATOM	2087	OE1	GLU	A	295	176.225	174.552	170.740	1.00	36.97	O
ATOM	2088	OE2	GLU	A	295	175.723	173.566	172.635	1.00	39.57	O
ATOM	2089	N	ARG	A	296	180.096	173.485	174.703	1.00	28.37	N
ATOM	2090	CA	ARG	A	296	180.057	173.938	176.089	1.00	18.54	C
ATOM	2091	C	ARG	A	296	181.442	174.312	176.597	1.00	21.39	C
ATOM	2092	O	ARG	A	296	181.573	175.252	177.385	1.00	25.73	O
ATOM	2093	CB	ARG	A	296	179.427	172.868	176.978	1.00	23.09	C
ATOM	2094	CG	ARG	A	296	177.962	173.125	177.297	1.00	19.62	C
ATOM	2095	CD	ARG	A	296	177.334	171.942	178.014	1.00	25.33	C
ATOM	2096	NE	ARG	A	296	175.886	172.072	178.127	1.00	26.43	N
ATOM	2097	CZ	ARG	A	296	175.030	171.813	177.148	1.00	28.00	C
ATOM	2098	NH1	ARG	A	296	175.443	171.411	175.957	1.00	30.31	N
ATOM	2099	NH2	ARG	A	296	173.727	171.960	177.369	1.00	28.02	N
ATOM	2100	N	ALA	A	297	182.483	173.602	176.157	1.00	21.16	N
ATOM	2101	CA	ALA	A	297	183.841	173.976	176.541	1.00	13.69	C
ATOM	2102	C	ALA	A	297	184.216	175.345	175.986	1.00	19.45	C
ATOM	2103	O	ALA	A	297	184.803	176.172	176.697	1.00	20.20	O
ATOM	2104	CB	ALA	A	297	184.831	172.914	176.068	1.00	15.34	C
ATOM	2105	N	CYS	A	298	183.878	175.608	174.722	1.00	25.23	N
ATOM	2106	CA	CYS	A	298	184.157	176.914	174.136	1.00	10.47	C
ATOM	2107	C	CYS	A	298	183.383	178.013	174.849	1.00	20.54	C
ATOM	2108	O	CYS	A	298	183.909	179.111	175.070	1.00	20.19	O
ATOM	2109	CB	CYS	A	298	183.822	176.897	172.646	1.00	8.33	C
ATOM	2110	SG	CYS	A	298	184.170	178.441	171.793	1.00	31.11	S
ATOM	2111	N	GLN	A	299	182.127	177.741	175.210	1.00	24.27	N
ATOM	2112	CA	GLN	A	299	181.354	178.717	175.973	1.00	14.54	C
ATOM	2113	C	GLN	A	299	181.982	178.971	177.339	1.00	19.14	C
ATOM	2114	O	GLN	A	299	182.047	180.117	177.797	1.00	24.47	O

ATOM	2115	CB	GLN	A	299	179.909	178.241	176.123	1.00	17.32	C
ATOM	2116	CG	GLN	A	299	179.128	178.212	174.822	1.00	16.72	C
ATOM	2117	CD	GLN	A	299	177.679	177.817	175.021	1.00	24.62	C
ATOM	2118	OE1	GLN	A	299	177.321	177.213	176.031	1.00	33.74	O
ATOM	2119	NE2	GLN	A	299	176.835	178.155	174.053	1.00	32.41	N
ATOM	2120	N	SER	A	300	182.453	177.912	178.003	1.00	25.71	N
ATOM	2121	CA	SER	A	300	183.066	178.052	179.318	1.00	18.27	C
ATOM	2122	C	SER	A	300	184.437	178.707	179.257	1.00	20.78	C
ATOM	2123	O	SER	A	300	184.930	179.173	180.289	1.00	22.98	O
ATOM	2124	CB	SER	A	300	183.181	176.685	179.993	1.00	13.62	C
ATOM	2125	OG	SER	A	300	184.172	176.702	181.004	1.00	21.41	O
ATOM	2126	N	TYR	A	301	185.071	178.738	178.081	1.00	23.70	N
ATOM	2127	CA	TYR	A	301	186.338	179.451	177.957	1.00	19.96	C
ATOM	2128	C	TYR	A	301	186.178	180.931	178.275	1.00	26.98	C
ATOM	2129	O	TYR	A	301	187.091	181.549	178.835	1.00	32.43	O
ATOM	2130	CB	TYR	A	301	186.912	179.272	176.552	1.00	16.72	C
ATOM	2131	CG	TYR	A	301	188.290	179.867	176.380	1.00	10.82	C
ATOM	2132	CD1	TYR	A	301	189.284	179.646	177.321	1.00	18.99	C
ATOM	2133	CD2	TYR	A	301	188.594	180.656	175.280	1.00	20.24	C
ATOM	2134	CE1	TYR	A	301	190.543	180.190	177.170	1.00	21.53	C
ATOM	2135	CE2	TYR	A	301	189.851	181.205	175.121	1.00	21.60	C
ATOM	2136	CZ	TYR	A	301	190.821	180.968	176.069	1.00	22.46	C
ATOM	2137	OH	TYR	A	301	192.075	181.512	175.916	1.00	27.60	O
ATOM	2138	N	PHE	A	302	185.032	181.515	177.930	1.00	25.01	N
ATOM	2139	CA	PHE	A	302	184.731	182.908	178.230	1.00	14.26	C
ATOM	2140	C	PHE	A	302	183.771	183.054	179.403	1.00	24.26	C
ATOM	2141	O	PHE	A	302	183.262	184.155	179.640	1.00	29.81	O
ATOM	2142	CB	PHE	A	302	184.164	183.601	176.990	1.00	18.78	C
ATOM	2143	CG	PHE	A	302	185.000	183.411	175.758	1.00	27.54	C
ATOM	2144	CD1	PHE	A	302	186.222	184.049	175.630	1.00	24.47	C
ATOM	2145	CD2	PHE	A	302	184.570	182.589	174.732	1.00	25.28	C
ATOM	2146	CE1	PHE	A	302	186.995	183.875	174.500	1.00	12.98	C
ATOM	2147	CE2	PHE	A	302	185.339	182.411	173.600	1.00	22.96	C
ATOM	2148	CZ	PHE	A	302	186.553	183.055	173.485	1.00	17.82	C
ATOM	2149	N	ASP	A	303	183.515	181.969	180.139	1.00	27.72	N
ATOM	2150	CA	ASP	A	303	182.644	181.978	181.316	1.00	15.27	C
ATOM	2151	C	ASP	A	303	181.237	182.463	180.965	1.00	23.08	C
ATOM	2152	O	ASP	A	303	180.637	183.272	181.675	1.00	26.52	O
ATOM	2153	CB	ASP	A	303	183.249	182.822	182.441	1.00	16.56	C
ATOM	2154	CG	ASP	A	303	184.760	182.710	182.510	1.00	31.42	C
ATOM	2155	OD1	ASP	A	303	185.276	181.575	182.550	1.00	30.73	O
ATOM	2156	OD2	ASP	A	303	185.432	183.762	182.525	1.00	30.11	O
ATOM	2157	N	CYS	A	304	180.710	181.963	179.851	1.00	24.34	N
ATOM	2158	CA	CYS	A	304	179.388	182.356	179.371	1.00	18.65	C
ATOM	2159	C	CYS	A	304	178.615	181.136	178.881	1.00	20.20	C
ATOM	2160	O	CYS	A	304	178.009	181.145	177.809	1.00	33.62	O
ATOM	2161	CB	CYS	A	304	179.499	183.413	178.274	1.00	22.63	C
ATOM	2162	SG	CYS	A	304	180.581	182.963	176.900	1.00	42.86	S
ATOM	2163	N	VAL	A	305	178.637	180.058	179.667	1.00	12.44	N
ATOM	2164	CA	VAL	A	305	177.896	178.854	179.301	1.00	18.74	C

ATOM	2165	C	VAL	A	305	176.410	179.180	179.271	1.00	25.15	C
ATOM	2166	O	VAL	A	305	175.839	179.646	180.265	1.00	28.04	O
ATOM	2167	CB	VAL	A	305	178.205	177.709	180.270	1.00	15.63	C
ATOM	2168	CG1	VAL	A	305	177.142	176.630	180.173	1.00	16.46	C
ATOM	2169	CG2	VAL	A	305	179.573	177.127	179.979	1.00	18.40	C
ATOM	2170	N	SER	A	306	175.774	178.935	178.123	1.00	27.13	N
ATOM	2171	CA	SER	A	306	174.389	179.353	177.939	1.00	26.66	C
ATOM	2172	C	SER	A	306	173.422	178.465	178.713	1.00	31.28	C
ATOM	2173	O	SER	A	306	172.444	178.958	179.286	1.00	42.39	O
ATOM	2174	CB	SER	A	306	174.038	179.358	176.452	1.00	24.36	C
ATOM	2175	OG	SER	A	306	174.422	178.143	175.833	1.00	24.38	O
ATOM	2176	N	CYS	A	307	173.668	177.157	178.736	1.00	24.37	N
ATOM	2177	CA	CYS	A	307	172.762	176.211	179.373	1.00	22.46	C
ATOM	2178	C	CYS	A	307	173.549	175.237	180.236	1.00	26.68	C
ATOM	2179	O	CYS	A	307	174.556	174.678	179.789	1.00	32.29	O
ATOM	2180	CB	CYS	A	307	171.943	175.443	178.330	1.00	31.86	C
ATOM	2181	SG	CYS	A	307	170.754	174.274	179.027	1.00	41.69	S
ATOM	2182	N	ILE	A	308	173.085	175.036	181.466	1.00	30.17	N
ATOM	2183	CA	ILE	A	308	173.626	174.025	182.366	1.00	26.01	C
ATOM	2184	C	ILE	A	308	172.716	172.808	182.304	1.00	33.22	C
ATOM	2185	O	ILE	A	308	171.491	172.933	182.421	1.00	35.39	O
ATOM	2186	CB	ILE	A	308	173.742	174.558	183.805	1.00	24.34	C
ATOM	2187	CG1	ILE	A	308	174.605	175.822	183.839	1.00	28.90	C
ATOM	2188	CG2	ILE	A	308	174.313	173.492	184.726	1.00	24.74	C
ATOM	2189	CD1	ILE	A	308	176.082	175.563	183.650	1.00	23.13	C
ATOM	2190	N	SER	A	309	173.311	171.633	182.115	1.00	32.79	N
ATOM	2191	CA	SER	A	309	172.530	170.422	181.903	1.00	27.70	C
ATOM	2192	C	SER	A	309	171.704	170.082	183.137	1.00	34.18	C
ATOM	2193	O	SER	A	309	172.045	170.444	184.266	1.00	38.75	O
ATOM	2194	CB	SER	A	309	173.449	169.253	181.549	1.00	28.33	C
ATOM	2195	OG	SER	A	309	174.667	169.328	182.268	1.00	36.56	O
ATOM	2196	N	GLY	A	310	170.591	169.392	182.906	1.00	37.75	N
ATOM	2197	CA	GLY	A	310	169.715	168.962	183.969	1.00	34.11	C
ATOM	2198	C	GLY	A	310	170.353	167.978	184.931	1.00	35.30	C
ATOM	2199	O	GLY	A	310	170.427	168.226	186.139	1.00	33.79	O
ATOM	2200	N	PRO	A	311	170.814	166.829	184.418	1.00	34.14	N
ATOM	2201	CA	PRO	A	311	171.389	165.813	185.319	1.00	31.86	C
ATOM	2202	C	PRO	A	311	172.572	166.300	186.140	1.00	27.80	C
ATOM	2203	O	PRO	A	311	172.707	165.906	187.305	1.00	30.87	O
ATOM	2204	CB	PRO	A	311	171.793	164.691	184.353	1.00	35.41	C
ATOM	2205	CG	PRO	A	311	170.863	164.840	183.206	1.00	32.78	C
ATOM	2206	CD	PRO	A	311	170.656	166.316	183.045	1.00	29.38	C
ATOM	2207	N	LEU	A	312	173.435	167.142	185.577	1.00	24.38	N
ATOM	2208	CA	LEU	A	312	174.611	167.642	186.279	1.00	27.69	C
ATOM	2209	C	LEU	A	312	174.564	169.161	186.328	1.00	26.44	C
ATOM	2210	O	LEU	A	312	174.520	169.818	185.283	1.00	29.71	O
ATOM	2211	CB	LEU	A	312	175.902	167.172	185.606	1.00	24.80	C
ATOM	2212	CG	LEU	A	312	176.519	165.884	186.150	1.00	25.56	C
ATOM	2213	CD1	LEU	A	312	177.950	165.733	185.669	1.00	21.84	C
ATOM	2214	CD2	LEU	A	312	176.459	165.857	187.668	1.00	29.34	C

ATOM	2215	N	GLY	A	313	174.597	169.713	187.537	1.00	17.70	N
ATOM	2216	CA	GLY	A	313	174.588	171.150	187.711	1.00	20.95	C
ATOM	2217	C	GLY	A	313	174.673	171.577	189.161	1.00	21.90	C
ATOM	2218	O	GLY	A	313	173.976	171.031	190.021	1.00	24.70	O
ATOM	2219	N	MET	A	314	175.530	172.553	189.439	1.00	16.13	N
ATOM	2220	CA	MET	A	314	175.692	173.124	190.768	1.00	5.83	C
ATOM	2221	C	MET	A	314	175.430	174.620	190.708	1.00	12.63	C
ATOM	2222	O	MET	A	314	175.866	175.298	189.771	1.00	24.93	O
ATOM	2223	CB	MET	A	314	177.096	172.870	191.324	1.00	11.99	C
ATOM	2224	CG	MET	A	314	177.148	172.730	192.837	1.00	17.75	C
ATOM	2225	SD	MET	A	314	178.564	171.773	193.405	1.00	17.62	S
ATOM	2226	CE	MET	A	314	177.858	170.131	193.478	1.00	16.42	C
ATOM	2227	N	TYR	A	315	174.719	175.128	191.713	1.00	10.16	N
ATOM	2228	CA	TYR	A	315	174.364	176.535	191.807	1.00	14.02	C
ATOM	2229	C	TYR	A	315	174.726	177.059	193.188	1.00	12.29	C
ATOM	2230	O	TYR	A	315	174.643	176.327	194.181	1.00	19.08	O
ATOM	2231	CB	TYR	A	315	172.865	176.750	191.557	1.00	9.90	C
ATOM	2232	CG	TYR	A	315	172.391	176.314	190.189	1.00	15.06	C
ATOM	2233	CD1	TYR	A	315	172.502	177.158	189.094	1.00	13.02	C
ATOM	2234	CD2	TYR	A	315	171.830	175.060	189.995	1.00	18.79	C
ATOM	2235	CE1	TYR	A	315	172.071	176.764	187.843	1.00	14.36	C
ATOM	2236	CE2	TYR	A	315	171.396	174.657	188.748	1.00	21.11	C
ATOM	2237	CZ	TYR	A	315	171.519	175.513	187.676	1.00	20.57	C
ATOM	2238	OH	TYR	A	315	171.087	175.116	186.432	1.00	23.38	O
ATOM	2239	N	ARG	A	316	175.137	178.323	193.248	1.00	17.07	N
ATOM	2240	CA	ARG	A	316	175.325	178.977	194.535	1.00	8.84	C
ATOM	2241	C	ARG	A	316	173.975	179.219	195.197	1.00	16.29	C
ATOM	2242	O	ARG	A	316	173.004	179.607	194.541	1.00	26.86	O
ATOM	2243	CB	ARG	A	316	176.082	180.292	194.366	1.00	12.49	C
ATOM	2244	CG	ARG	A	316	177.526	180.225	194.826	1.00	14.53	C
ATOM	2245	CD	ARG	A	316	178.241	181.551	194.635	1.00	14.33	C
ATOM	2246	NE	ARG	A	316	179.612	181.505	195.130	1.00	19.22	N
ATOM	2247	CZ	ARG	A	316	180.612	180.884	194.519	1.00	21.89	C
ATOM	2248	NH1	ARG	A	316	180.438	180.259	193.367	1.00	24.46	N
ATOM	2249	NH2	ARG	A	316	181.819	180.894	195.077	1.00	23.66	N
ATOM	2250	N	ASN	A	317	173.915	178.988	196.510	1.00	16.37	N
ATOM	2251	CA	ASN	A	317	172.630	178.997	197.201	1.00	14.83	C
ATOM	2252	C	ASN	A	317	172.078	180.406	197.382	1.00	19.68	C
ATOM	2253	O	ASN	A	317	170.865	180.610	197.270	1.00	28.33	O
ATOM	2254	CB	ASN	A	317	172.756	178.304	198.557	1.00	20.91	C
ATOM	2255	CG	ASN	A	317	171.412	177.908	199.133	1.00	15.73	C
ATOM	2256	OD1	ASN	A	317	170.395	177.939	198.441	1.00	10.53	O
ATOM	2257	ND2	ASN	A	317	171.400	177.535	200.406	1.00	22.63	N
ATOM	2258	N	ASN	A	318	172.937	181.386	197.671	1.00	15.82	N
ATOM	2259	CA	ASN	A	318	172.447	182.739	197.925	1.00	18.00	C
ATOM	2260	C	ASN	A	318	171.806	183.340	196.679	1.00	22.86	C
ATOM	2261	O	ASN	A	318	170.701	183.892	196.740	1.00	28.99	O
ATOM	2262	CB	ASN	A	318	173.586	183.623	198.434	1.00	22.53	C
ATOM	2263	CG	ASN	A	318	174.921	183.269	197.814	1.00	27.15	C
ATOM	2264	OD1	ASN	A	318	175.437	182.170	198.013	1.00	20.88	O

ATOM	2265	ND2	ASN	A	318	175.491	184.202	197.062	1.00	33.18	N
ATOM	2266	N	ILE	A	319	172.479	183.222	195.533	1.00	16.29	N
ATOM	2267	CA	ILE	A	319	171.927	183.741	194.285	1.00	21.40	C
ATOM	2268	C	ILE	A	319	170.631	183.019	193.937	1.00	20.37	C
ATOM	2269	O	ILE	A	319	169.655	183.636	193.485	1.00	21.11	O
ATOM	2270	CB	ILE	A	319	172.969	183.619	193.157	1.00	20.12	C
ATOM	2271	CG1	ILE	A	319	174.220	184.427	193.501	1.00	18.14	C
ATOM	2272	CG2	ILE	A	319	172.395	184.092	191.837	1.00	21.58	C
ATOM	2273	CD1	ILE	A	319	175.510	183.734	193.131	1.00	26.09	C
ATOM	2274	N	LEU	A	320	170.606	181.698	194.136	1.00	3.48	N
ATOM	2275	CA	LEU	A	320	169.406	180.920	193.850	1.00	10.53	C
ATOM	2276	C	LEU	A	320	168.236	181.382	194.708	1.00	17.08	C
ATOM	2277	O	LEU	A	320	167.116	181.532	194.210	1.00	18.57	O
ATOM	2278	CB	LEU	A	320	169.689	179.433	194.071	1.00	10.90	C
ATOM	2279	CG	LEU	A	320	168.843	178.394	193.330	1.00	14.92	C
ATOM	2280	CD1	LEU	A	320	169.584	177.071	193.274	1.00	15.92	C
ATOM	2281	CD2	LEU	A	320	167.483	178.205	193.985	1.00	20.43	C
ATOM	2282	N	GLN	A	321	168.473	181.605	196.001	1.00	21.28	N
ATOM	2283	CA	GLN	A	321	167.410	182.110	196.863	1.00	13.07	C
ATOM	2284	C	GLN	A	321	166.992	183.517	196.464	1.00	16.09	C
ATOM	2285	O	GLN	A	321	165.830	183.895	196.656	1.00	23.15	O
ATOM	2286	CB	GLN	A	321	167.853	182.082	198.326	1.00	7.28	C
ATOM	2287	CG	GLN	A	321	168.158	180.692	198.862	1.00	10.51	C
ATOM	2288	CD	GLN	A	321	166.973	179.754	198.764	1.00	14.04	C
ATOM	2289	OE1	GLN	A	321	165.857	180.102	199.150	1.00	17.67	O
ATOM	2290	NE2	GLN	A	321	167.210	178.553	198.250	1.00	13.50	N
ATOM	2291	N	VAL	A	322	167.918	184.305	195.916	1.00	22.40	N
ATOM	2292	CA	VAL	A	322	167.568	185.647	195.459	1.00	19.02	C
ATOM	2293	C	VAL	A	322	166.605	185.581	194.277	1.00	22.49	C
ATOM	2294	O	VAL	A	322	165.573	186.262	194.262	1.00	23.98	O
ATOM	2295	CB	VAL	A	322	168.835	186.448	195.109	1.00	15.95	C
ATOM	2296	CG1	VAL	A	322	168.466	187.715	194.360	1.00	15.28	C
ATOM	2297	CG2	VAL	A	322	169.601	186.799	196.371	1.00	21.32	C
ATOM	2298	N	PHE	A	323	166.918	184.761	193.272	1.00	24.41	N
ATOM	2299	CA	PHE	A	323	166.145	184.787	192.032	1.00	10.03	C
ATOM	2300	C	PHE	A	323	165.093	183.683	191.931	1.00	13.23	C
ATOM	2301	O	PHE	A	323	164.457	183.557	190.880	1.00	25.60	O
ATOM	2302	CB	PHE	A	323	167.075	184.766	190.802	1.00	9.68	C
ATOM	2303	CG	PHE	A	323	167.783	183.446	190.543	1.00	19.09	C
ATOM	2304	CD1	PHE	A	323	167.092	182.313	190.139	1.00	20.02	C
ATOM	2305	CD2	PHE	A	323	169.160	183.371	190.633	1.00	17.37	C
ATOM	2306	CE1	PHE	A	323	167.752	181.128	189.892	1.00	14.97	C
ATOM	2307	CE2	PHE	A	323	169.825	182.186	190.385	1.00	17.63	C
ATOM	2308	CZ	PHE	A	323	169.120	181.065	190.012	1.00	12.09	C
ATOM	2309	N	LEU	A	324	164.888	182.888	192.985	1.00	18.72	N
ATOM	2310	CA	LEU	A	324	163.970	181.754	192.892	1.00	22.97	C
ATOM	2311	C	LEU	A	324	162.538	182.200	192.612	1.00	21.73	C
ATOM	2312	O	LEU	A	324	161.860	181.635	191.744	1.00	26.96	O
ATOM	2313	CB	LEU	A	324	164.036	180.934	194.181	1.00	24.28	C
ATOM	2314	CG	LEU	A	324	162.975	179.854	194.391	1.00	22.32	C

ATOM	2315	CD1	LEU	A	324	163.106	178.763	193.342	1.00	25.57	C
ATOM	2316	CD2	LEU	A	324	163.083	179.272	195.789	1.00	20.08	C
ATOM	2317	N	GLU	A	325	162.055	183.205	193.345	1.00	25.38	N
ATOM	2318	CA	GLU	A	325	160.668	183.628	193.183	1.00	24.33	C
ATOM	2319	C	GLU	A	325	160.424	184.202	191.794	1.00	27.91	C
ATOM	2320	O	GLU	A	325	159.386	183.936	191.177	1.00	25.99	O
ATOM	2321	CB	GLU	A	325	160.297	184.647	194.260	1.00	31.01	C
ATOM	2322	CG	GLU	A	325	158.835	185.056	194.236	1.00	28.86	C
ATOM	2323	CD	GLU	A	325	157.913	183.934	194.669	1.00	41.13	C
ATOM	2324	OE1	GLU	A	325	158.271	183.202	195.616	1.00	38.39	O
ATOM	2325	OE2	GLU	A	325	156.833	183.780	194.061	1.00	42.73	O
ATOM	2326	N	ALA	A	326	161.368	184.997	191.287	1.00	33.51	N
ATOM	2327	CA	ALA	A	326	161.243	185.522	189.932	1.00	23.72	C
ATOM	2328	C	ALA	A	326	161.308	184.405	188.898	1.00	21.26	C
ATOM	2329	O	ALA	A	326	160.592	184.442	187.891	1.00	32.37	O
ATOM	2330	CB	ALA	A	326	162.330	186.563	189.670	1.00	23.65	C
ATOM	2331	N	TRP	A	327	162.165	183.406	189.126	1.00	21.12	N
ATOM	2332	CA	TRP	A	327	162.287	182.299	188.185	1.00	20.36	C
ATOM	2333	C	TRP	A	327	161.000	181.488	188.112	1.00	23.98	C
ATOM	2334	O	TRP	A	327	160.586	181.065	187.026	1.00	27.87	O
ATOM	2335	CB	TRP	A	327	163.467	181.411	188.583	1.00	16.49	C
ATOM	2336	CG	TRP	A	327	163.426	180.032	188.000	1.00	20.53	C
ATOM	2337	CD1	TRP	A	327	163.899	179.643	186.782	1.00	26.03	C
ATOM	2338	CD2	TRP	A	327	162.895	178.854	188.618	1.00	26.94	C
ATOM	2339	NE1	TRP	A	327	163.690	178.298	186.600	1.00	29.30	N
ATOM	2340	CE2	TRP	A	327	163.074	177.790	187.713	1.00	27.83	C
ATOM	2341	CE3	TRP	A	327	162.280	178.596	189.848	1.00	26.13	C
ATOM	2342	CZ2	TRP	A	327	162.662	176.491	187.998	1.00	25.04	C
ATOM	2343	CZ3	TRP	A	327	161.873	177.305	190.128	1.00	20.95	C
ATOM	2344	CH2	TRP	A	327	162.066	176.269	189.207	1.00	19.74	C
ATOM	2345	N	TYR	A	328	160.357	181.252	189.258	1.00	31.14	N
ATOM	2346	CA	TYR	A	328	159.122	180.474	189.259	1.00	23.31	C
ATOM	2347	C	TYR	A	328	158.009	181.199	188.510	1.00	29.99	C
ATOM	2348	O	TYR	A	328	157.297	180.597	187.698	1.00	37.00	O
ATOM	2349	CB	TYR	A	328	158.691	180.168	190.694	1.00	24.10	C
ATOM	2350	CG	TYR	A	328	157.416	179.362	190.778	1.00	23.60	C
ATOM	2351	CD1	TYR	A	328	157.422	177.992	190.551	1.00	30.08	C
ATOM	2352	CD2	TYR	A	328	156.204	179.970	191.074	1.00	26.75	C
ATOM	2353	CE1	TYR	A	328	156.259	177.251	190.622	1.00	30.78	C
ATOM	2354	CE2	TYR	A	328	155.035	179.238	191.145	1.00	29.49	C
ATOM	2355	CZ	TYR	A	328	155.069	177.879	190.919	1.00	28.90	C
ATOM	2356	OH	TYR	A	328	153.908	177.145	190.991	1.00	29.00	O
ATOM	2357	N	ARG	A	329	157.847	182.493	188.767	1.00	39.93	N
ATOM	2358	CA	ARG	A	329	156.771	183.279	188.163	1.00	36.42	C
ATOM	2359	C	ARG	A	329	157.260	183.993	186.904	1.00	43.06	C
ATOM	2360	O	ARG	A	329	157.333	185.220	186.835	1.00	49.16	O
ATOM	2361	CB	ARG	A	329	156.209	184.271	189.177	1.00	35.58	C
ATOM	2362	CG	ARG	A	329	156.171	183.752	190.603	1.00	42.88	C
ATOM	2363	CD	ARG	A	329	154.954	184.279	191.345	1.00	44.01	C
ATOM	2364	NE	ARG	A	329	153.716	183.687	190.853	1.00	45.13	N

ATOM	2365	CZ	ARG	A	329	152.998	182.790	191.516	1.00	45.90	C
ATOM	2366	NH1	ARG	A	329	153.367	182.357	192.711	1.00	44.95	N
ATOM	2367	NH2	ARG	A	329	151.883	182.317	190.968	1.00	44.80	N
ATOM	2368	N	GLN	A	330	157.602	183.199	185.893	1.00	48.21	N
ATOM	2369	CA	GLN	A	330	158.038	183.717	184.603	1.00	50.43	C
ATOM	2370	C	GLN	A	330	157.139	183.170	183.504	1.00	54.61	C
ATOM	2371	O	GLN	A	330	156.906	181.959	183.431	1.00	57.21	O
ATOM	2372	CB	GLN	A	330	159.497	183.351	184.321	1.00	45.46	C
ATOM	2373	CG	GLN	A	330	159.891	183.491	182.860	1.00	51.27	C
ATOM	2374	CD	GLN	A	330	160.504	184.842	182.548	1.00	55.62	C
ATOM	2375	OE1	GLN	A	330	160.637	185.695	183.425	1.00	51.75	O
ATOM	2376	NE2	GLN	A	330	160.881	185.044	181.291	1.00	55.16	N
ATOM	2377	N	LYS	A	331	156.640	184.065	182.655	1.00	67.34	N
ATOM	2378	CA	LYS	A	331	155.850	183.700	181.490	1.00	68.73	C
ATOM	2379	C	LYS	A	331	156.529	184.227	180.234	1.00	69.98	C
ATOM	2380	O	LYS	A	331	157.224	185.247	180.269	1.00	71.62	O
ATOM	2381	CB	LYS	A	331	154.424	184.262	181.573	1.00	68.25	C
ATOM	2382	CG	LYS	A	331	153.614	183.774	182.762	1.00	68.22	C
ATOM	2383	CD	LYS	A	331	152.292	184.523	182.861	1.00	70.34	C
ATOM	2384	CE	LYS	A	331	151.968	184.894	184.299	1.00	69.60	C
ATOM	2385	NZ	LYS	A	331	152.316	183.801	185.247	1.00	68.96	N
ATOM	2386	N	PHE	A	332	156.331	183.523	179.121	1.00	67.36	N
ATOM	2387	CA	PHE	A	332	156.830	183.994	177.834	1.00	68.31	C
ATOM	2388	C	PHE	A	332	155.783	184.913	177.221	1.00	70.30	C
ATOM	2389	O	PHE	A	332	154.897	184.455	176.491	1.00	67.66	O
ATOM	2390	CB	PHE	A	332	157.140	182.830	176.899	1.00	67.65	C
ATOM	2391	CG	PHE	A	332	157.462	183.256	175.490	1.00	69.34	C
ATOM	2392	CD1	PHE	A	332	158.542	184.086	175.237	1.00	69.14	C
ATOM	2393	CD2	PHE	A	332	156.674	182.848	174.425	1.00	67.11	C
ATOM	2394	CE1	PHE	A	332	158.843	184.486	173.948	1.00	66.19	C
ATOM	2395	CE2	PHE	A	332	156.971	183.246	173.133	1.00	67.79	C
ATOM	2396	CZ	PHE	A	332	158.056	184.066	172.896	1.00	67.08	C
ATOM	2397	N	LEU	A	333	155.884	186.208	177.523	1.00	77.62	N
ATOM	2398	CA	LEU	A	333	154.992	187.223	176.975	1.00	78.63	C
ATOM	2399	C	LEU	A	333	153.524	186.866	177.189	1.00	79.44	C
ATOM	2400	O	LEU	A	333	152.705	187.020	176.277	1.00	78.50	O
ATOM	2401	CB	LEU	A	333	155.278	187.425	175.484	1.00	77.23	C
ATOM	2402	CG	LEU	A	333	156.753	187.530	175.079	1.00	76.31	C
ATOM	2403	CD1	LEU	A	333	156.883	187.850	173.599	1.00	74.22	C
ATOM	2404	CD2	LEU	A	333	157.483	188.570	175.919	1.00	75.18	C
ATOM	2405	N	GLY	A	334	153.182	186.393	178.388	1.00	79.03	N
ATOM	2406	CA	GLY	A	334	151.810	186.078	178.724	1.00	78.61	C
ATOM	2407	C	GLY	A	334	151.446	184.607	178.703	1.00	78.43	C
ATOM	2408	O	GLY	A	334	150.259	184.281	178.835	1.00	76.50	O
ATOM	2409	N	THR	A	335	152.415	183.709	178.538	1.00	77.92	N
ATOM	2410	CA	THR	A	335	152.154	182.275	178.519	1.00	80.52	C
ATOM	2411	C	THR	A	335	153.112	181.574	179.470	1.00	78.84	C
ATOM	2412	O	THR	A	335	154.326	181.787	179.399	1.00	77.14	O
ATOM	2413	CB	THR	A	335	152.300	181.701	177.105	1.00	80.27	C
ATOM	2414	OG1	THR	A	335	151.372	182.350	176.226	1.00	78.15	O

ATOM	2415	CG2	THR	A	335	152.025	180.204	177.105	1.00	75.68	C
ATOM	2416	N	TYR	A	336	152.565	180.739	180.351	1.00	74.34	N
ATOM	2417	CA	TYR	A	336	153.386	179.976	181.280	1.00	75.38	C
ATOM	2418	C	TYR	A	336	154.300	179.012	180.532	1.00	76.47	C
ATOM	2419	O	TYR	A	336	153.945	178.468	179.483	1.00	75.25	O
ATOM	2420	CB	TYR	A	336	152.509	179.199	182.263	1.00	74.90	C
ATOM	2421	CG	TYR	A	336	152.489	179.768	183.664	1.00	76.26	C
ATOM	2422	CD1	TYR	A	336	153.660	179.894	184.399	1.00	74.06	C
ATOM	2423	CD2	TYR	A	336	151.298	180.166	184.258	1.00	76.20	C
ATOM	2424	CE1	TYR	A	336	153.648	180.408	185.681	1.00	72.11	C
ATOM	2425	CE2	TYR	A	336	151.276	180.681	185.541	1.00	75.43	C
ATOM	2426	CZ	TYR	A	336	152.454	180.799	186.248	1.00	73.77	C
ATOM	2427	OH	TYR	A	336	152.439	181.311	187.525	1.00	71.94	O
ATOM	2428	N	CYS	A	337	155.490	178.805	181.087	1.00	77.97	N
ATOM	2429	CA	CYS	A	337	156.486	177.923	180.498	1.00	78.45	C
ATOM	2430	C	CYS	A	337	156.614	176.649	181.321	1.00	80.19	C
ATOM	2431	O	CYS	A	337	156.738	176.697	182.548	1.00	78.74	O
ATOM	2432	CB	CYS	A	337	157.844	178.621	180.405	1.00	79.30	C
ATOM	2433	SG	CYS	A	337	157.754	180.386	180.032	1.00	86.44	S
ATOM	2434	N	THR	A	338	156.583	175.510	180.635	1.00	77.86	N
ATOM	2435	CA	THR	A	338	156.773	174.198	181.243	1.00	77.99	C
ATOM	2436	C	THR	A	338	157.922	173.470	180.566	1.00	76.09	C
ATOM	2437	O	THR	A	338	157.928	172.241	180.450	1.00	75.52	O
ATOM	2438	CB	THR	A	338	155.494	173.364	181.171	1.00	76.54	C
ATOM	2439	OG1	THR	A	338	155.143	173.141	179.799	1.00	74.41	O
ATOM	2440	CG2	THR	A	338	154.347	174.078	181.873	1.00	75.44	C
ATOM	2441	N	LEU	A	339	158.918	174.225	180.109	1.00	66.62	N
ATOM	2442	CA	LEU	A	339	160.004	173.677	179.310	1.00	63.98	C
ATOM	2443	C	LEU	A	339	161.287	174.435	179.611	1.00	63.48	C
ATOM	2444	O	LEU	A	339	161.254	175.636	179.895	1.00	66.46	O
ATOM	2445	CB	LEU	A	339	159.694	173.774	177.814	1.00	65.39	C
ATOM	2446	CG	LEU	A	339	158.928	172.668	177.094	1.00	65.68	C
ATOM	2447	CD1	LEU	A	339	157.430	172.854	177.242	1.00	62.34	C
ATOM	2448	CD2	LEU	A	339	159.313	172.701	175.634	1.00	60.44	C
ATOM	2449	N	GLY	A	340	162.411	173.726	179.539	1.00	54.81	N
ATOM	2450	CA	GLY	A	340	163.716	174.344	179.667	1.00	51.13	C
ATOM	2451	C	GLY	A	340	163.949	175.045	180.988	1.00	54.68	C
ATOM	2452	O	GLY	A	340	164.427	176.182	181.014	1.00	53.60	O
ATOM	2453	N	ASP	A	341	163.614	174.381	182.093	1.00	47.95	N
ATOM	2454	CA	ASP	A	341	163.807	174.963	183.414	1.00	43.34	C
ATOM	2455	C	ASP	A	341	165.271	175.029	183.824	1.00	44.53	C
ATOM	2456	O	ASP	A	341	165.609	175.796	184.731	1.00	49.37	O
ATOM	2457	CB	ASP	A	341	163.014	174.174	184.461	1.00	46.13	C
ATOM	2458	CG	ASP	A	341	161.517	174.239	184.228	1.00	54.12	C
ATOM	2459	OD1	ASP	A	341	160.962	175.358	184.228	1.00	53.32	O
ATOM	2460	OD2	ASP	A	341	160.895	173.172	184.046	1.00	54.35	O
ATOM	2461	N	ASP	A	342	166.144	174.252	183.182	1.00	41.56	N
ATOM	2462	CA	ASP	A	342	167.580	174.383	183.393	1.00	36.76	C
ATOM	2463	C	ASP	A	342	168.163	175.532	182.582	1.00	33.93	C
ATOM	2464	O	ASP	A	342	169.013	176.280	183.082	1.00	35.21	O

ATOM	2465	CB	ASP	A	342	168.289	173.074	183.034	1.00	43.57	C
ATOM	2466	CG	ASP	A	342	167.713	172.419	181.794	1.00	46.53	C
ATOM	2467	OD1	ASP	A	342	166.643	172.862	181.326	1.00	44.35	O
ATOM	2468	OD2	ASP	A	342	168.332	171.461	181.285	1.00	44.00	O
ATOM	2469	N	ARG	A	343	167.712	175.687	181.334	1.00	35.28	N
ATOM	2470	CA	ARG	A	343	168.108	176.845	180.542	1.00	35.51	C
ATOM	2471	C	ARG	A	343	167.648	178.137	181.202	1.00	39.11	C
ATOM	2472	O	ARG	A	343	168.390	179.124	181.233	1.00	39.72	O
ATOM	2473	CB	ARG	A	343	167.544	176.734	179.126	1.00	33.53	C
ATOM	2474	CG	ARG	A	343	167.650	178.015	178.314	1.00	33.35	C
ATOM	2475	CD	ARG	A	343	167.592	177.738	176.821	1.00	39.63	C
ATOM	2476	NE	ARG	A	343	168.625	176.804	176.392	1.00	44.68	N
ATOM	2477	CZ	ARG	A	343	169.649	177.125	175.613	1.00	42.13	C
ATOM	2478	NH1	ARG	A	343	169.813	178.357	175.161	1.00	43.77	N
ATOM	2479	NH2	ARG	A	343	170.530	176.187	175.279	1.00	34.50	N
ATOM	2480	N	HIS	A	344	166.429	178.147	181.747	1.00	33.66	N
ATOM	2481	CA	HIS	A	344	165.958	179.328	182.461	1.00	30.00	C
ATOM	2482	C	HIS	A	344	166.743	179.565	183.744	1.00	33.93	C
ATOM	2483	O	HIS	A	344	166.974	180.718	184.118	1.00	39.25	O
ATOM	2484	CB	HIS	A	344	164.469	179.209	182.773	1.00	34.55	C
ATOM	2485	CG	HIS	A	344	163.843	180.501	183.195	1.00	37.82	C
ATOM	2486	ND1	HIS	A	344	164.473	181.716	183.033	1.00	36.73	N
ATOM	2487	CD2	HIS	A	344	162.654	180.768	183.782	1.00	38.66	C
ATOM	2488	CE1	HIS	A	344	163.695	182.677	183.497	1.00	32.53	C
ATOM	2489	NE2	HIS	A	344	162.586	182.129	183.959	1.00	37.34	N
ATOM	2490	N	LEU	A	345	167.151	178.498	184.437	1.00	30.26	N
ATOM	2491	CA	LEU	A	345	167.991	178.671	185.618	1.00	25.62	C
ATOM	2492	C	LEU	A	345	169.324	179.311	185.251	1.00	23.72	C
ATOM	2493	O	LEU	A	345	169.792	180.234	185.933	1.00	18.76	O
ATOM	2494	CB	LEU	A	345	168.213	177.323	186.305	1.00	28.57	C
ATOM	2495	CG	LEU	A	345	167.254	176.949	187.437	1.00	22.13	C
ATOM	2496	CD1	LEU	A	345	167.404	175.482	187.803	1.00	19.18	C
ATOM	2497	CD2	LEU	A	345	167.486	177.827	188.652	1.00	25.37	C
ATOM	2498	N	THR	A	346	169.945	178.844	184.165	1.00	29.23	N
ATOM	2499	CA	THR	A	346	171.196	179.447	183.715	1.00	21.85	C
ATOM	2500	C	THR	A	346	170.987	180.891	183.274	1.00	25.50	C
ATOM	2501	O	THR	A	346	171.844	181.748	183.516	1.00	29.35	O
ATOM	2502	CB	THR	A	346	171.803	178.624	182.582	1.00	19.03	C
ATOM	2503	OG1	THR	A	346	171.635	177.228	182.860	1.00	27.62	O
ATOM	2504	CG2	THR	A	346	173.284	178.932	182.442	1.00	20.68	C
ATOM	2505	N	ASN	A	347	169.859	181.178	182.619	1.00	25.84	N
ATOM	2506	CA	ASN	A	347	169.561	182.549	182.219	1.00	23.79	C
ATOM	2507	C	ASN	A	347	169.405	183.455	183.433	1.00	28.98	C
ATOM	2508	O	ASN	A	347	169.887	184.592	183.436	1.00	36.70	O
ATOM	2509	CB	ASN	A	347	168.297	182.583	181.360	1.00	25.34	C
ATOM	2510	CG	ASN	A	347	168.580	182.325	179.895	1.00	31.41	C
ATOM	2511	OD1	ASN	A	347	169.695	182.535	179.420	1.00	30.97	O
ATOM	2512	ND2	ASN	A	347	167.567	181.870	179.169	1.00	35.12	N
ATOM	2513	N	ARG	A	348	168.730	182.966	184.476	1.00	27.30	N
ATOM	2514	CA	ARG	A	348	168.586	183.742	185.703	1.00	21.15	C

ATOM	2515	C	ARG	A	348	169.936	183.975	186.368	1.00	18.67	C
ATOM	2516	O	ARG	A	348	170.192	185.060	186.902	1.00	10.77	O
ATOM	2517	CB	ARG	A	348	167.631	183.036	186.663	1.00	15.95	C
ATOM	2518	CG	ARG	A	348	166.164	183.175	186.300	1.00	21.01	C
ATOM	2519	CD	ARG	A	348	165.676	184.597	186.512	1.00	23.59	C
ATOM	2520	NE	ARG	A	348	164.380	184.823	185.885	1.00	28.27	N
ATOM	2521	CZ	ARG	A	348	163.652	185.920	186.046	1.00	29.01	C
ATOM	2522	NH1	ARG	A	348	164.068	186.920	186.805	1.00	23.32	N
ATOM	2523	NH2	ARG	A	348	162.478	186.015	185.428	1.00	26.02	N
ATOM	2524	N	VAL	A	349	170.807	182.963	186.357	1.00	23.04	N
ATOM	2525	CA	VAL	A	349	172.145	183.135	186.920	1.00	12.58	C
ATOM	2526	C	VAL	A	349	172.924	184.186	186.137	1.00	18.41	C
ATOM	2527	O	VAL	A	349	173.592	185.049	186.720	1.00	21.76	O
ATOM	2528	CB	VAL	A	349	172.889	181.787	186.954	1.00	15.43	C
ATOM	2529	CG1	VAL	A	349	174.361	182.000	187.259	1.00	11.70	C
ATOM	2530	CG2	VAL	A	349	172.260	180.863	187.983	1.00	22.58	C
ATOM	2531	N	LEU	A	350	172.846	184.135	184.805	1.00	25.84	N
ATOM	2532	CA	LEU	A	350	173.573	185.084	183.969	1.00	10.68	C
ATOM	2533	C	LEU	A	350	173.002	186.493	184.052	1.00	12.48	C
ATOM	2534	O	LEU	A	350	173.739	187.460	183.833	1.00	21.32	O
ATOM	2535	CB	LEU	A	350	173.569	184.613	182.513	1.00	9.53	C
ATOM	2536	CG	LEU	A	350	174.362	183.348	182.178	1.00	15.76	C
ATOM	2537	CD1	LEU	A	350	173.975	182.826	180.804	1.00	17.84	C
ATOM	2538	CD2	LEU	A	350	175.857	183.604	182.253	1.00	15.59	C
ATOM	2539	N	SER	A	351	171.710	186.632	184.356	1.00	11.40	N
ATOM	2540	CA	SER	A	351	171.082	187.946	184.424	1.00	13.33	C
ATOM	2541	C	SER	A	351	171.567	188.781	185.600	1.00	20.63	C
ATOM	2542	O	SER	A	351	171.281	189.982	185.641	1.00	27.08	O
ATOM	2543	CB	SER	A	351	169.562	187.794	184.500	1.00	24.70	C
ATOM	2544	OG	SER	A	351	169.113	187.834	185.842	1.00	27.60	O
ATOM	2545	N	MET	A	352	172.282	188.184	186.553	1.00	32.40	N
ATOM	2546	CA	MET	A	352	172.807	188.903	187.705	1.00	27.86	C
ATOM	2547	C	MET	A	352	174.311	189.132	187.603	1.00	26.33	C
ATOM	2548	O	MET	A	352	174.966	189.394	188.616	1.00	30.72	O
ATOM	2549	CB	MET	A	352	172.465	188.159	188.996	1.00	23.29	C
ATOM	2550	CG	MET	A	352	170.974	187.962	189.210	1.00	31.66	C
ATOM	2551	SD	MET	A	352	170.594	186.968	190.664	1.00	38.06	S
ATOM	2552	CE	MET	A	352	171.398	187.924	191.945	1.00	33.26	C
ATOM	2553	N	GLY	A	353	174.871	189.030	186.400	1.00	21.11	N
ATOM	2554	CA	GLY	A	353	176.283	189.280	186.205	1.00	19.98	C
ATOM	2555	C	GLY	A	353	177.204	188.194	186.705	1.00	25.94	C
ATOM	2556	O	GLY	A	353	178.418	188.411	186.761	1.00	33.01	O
ATOM	2557	N	TYR	A	354	176.671	187.033	187.071	1.00	17.93	N
ATOM	2558	CA	TYR	A	354	177.469	185.926	187.576	1.00	13.13	C
ATOM	2559	C	TYR	A	354	177.708	184.923	186.457	1.00	22.35	C
ATOM	2560	O	TYR	A	354	176.772	184.545	185.745	1.00	29.73	O
ATOM	2561	CB	TYR	A	354	176.780	185.254	188.763	1.00	24.63	C
ATOM	2562	CG	TYR	A	354	176.878	186.058	190.038	1.00	19.63	C
ATOM	2563	CD1	TYR	A	354	178.006	185.982	190.842	1.00	23.94	C
ATOM	2564	CD2	TYR	A	354	175.849	186.901	190.431	1.00	24.71	C

ATOM	2565	CE1	TYR	A	354	178.104	186.718	192.005	1.00	23.44	C
ATOM	2566	CE2	TYR	A	354	175.937	187.641	191.592	1.00	29.44	C
ATOM	2567	CZ	TYR	A	354	177.067	187.546	192.375	1.00	28.83	C
ATOM	2568	OH	TYR	A	354	177.162	188.281	193.533	1.00	32.42	O
ATOM	2569	N	ARG	A	355	178.957	184.501	186.305	1.00	26.02	N
ATOM	2570	CA	ARG	A	355	179.354	183.656	185.193	1.00	25.00	C
ATOM	2571	C	ARG	A	355	179.165	182.179	185.520	1.00	16.85	C
ATOM	2572	O	ARG	A	355	179.265	181.754	186.674	1.00	24.09	O
ATOM	2573	CB	ARG	A	355	180.810	183.925	184.814	1.00	20.49	C
ATOM	2574	CG	ARG	A	355	181.802	183.608	185.911	1.00	24.52	C
ATOM	2575	CD	ARG	A	355	183.012	184.520	185.838	1.00	30.86	C
ATOM	2576	NE	ARG	A	355	182.631	185.925	185.768	1.00	26.87	N
ATOM	2577	CZ	ARG	A	355	183.492	186.931	185.711	1.00	31.76	C
ATOM	2578	NH1	ARG	A	355	184.799	186.724	185.721	1.00	27.90	N
ATOM	2579	NH2	ARG	A	355	183.031	188.177	185.645	1.00	31.25	N
ATOM	2580	N	THR	A	356	178.893	181.400	184.477	1.00	12.77	N
ATOM	2581	CA	THR	A	356	178.697	179.962	184.577	1.00	12.10	C
ATOM	2582	C	THR	A	356	179.850	179.242	183.892	1.00	17.42	C
ATOM	2583	O	THR	A	356	180.378	179.718	182.882	1.00	27.89	O
ATOM	2584	CB	THR	A	356	177.366	179.547	183.945	1.00	15.56	C
ATOM	2585	OG1	THR	A	356	177.406	179.804	182.537	1.00	22.54	O
ATOM	2586	CG2	THR	A	356	176.220	180.330	184.558	1.00	17.02	C
ATOM	2587	N	LYS	A	357	180.239	178.094	184.442	1.00	17.12	N
ATOM	2588	CA	LYS	A	357	181.409	177.360	183.982	1.00	14.22	C
ATOM	2589	C	LYS	A	357	181.012	175.940	183.596	1.00	16.02	C
ATOM	2590	O	LYS	A	357	179.868	175.515	183.778	1.00	19.02	O
ATOM	2591	CB	LYS	A	357	182.502	177.338	185.058	1.00	14.67	C
ATOM	2592	CG	LYS	A	357	183.129	178.690	185.331	1.00	12.96	C
ATOM	2593	CD	LYS	A	357	183.819	179.229	184.094	1.00	13.38	C
ATOM	2594	CE	LYS	A	357	185.091	178.457	183.793	1.00	15.83	C
ATOM	2595	NZ	LYS	A	357	186.089	179.294	183.072	1.00	23.79	N
ATOM	2596	N	TYR	A	358	181.980	175.207	183.048	1.00	17.97	N
ATOM	2597	CA	TYR	A	358	181.810	173.805	182.693	1.00	14.49	C
ATOM	2598	C	TYR	A	358	183.105	173.068	182.989	1.00	20.01	C
ATOM	2599	O	TYR	A	358	184.187	173.544	182.632	1.00	17.86	O
ATOM	2600	CB	TYR	A	358	181.430	173.643	181.215	1.00	13.82	C
ATOM	2601	CG	TYR	A	358	181.750	172.279	180.639	1.00	16.98	C
ATOM	2602	CD1	TYR	A	358	180.873	171.214	180.797	1.00	17.93	C
ATOM	2603	CD2	TYR	A	358	182.923	172.060	179.925	1.00	16.99	C
ATOM	2604	CE1	TYR	A	358	181.160	169.969	180.273	1.00	12.82	C
ATOM	2605	CE2	TYR	A	358	183.218	170.817	179.398	1.00	7.61	C
ATOM	2606	CZ	TYR	A	358	182.333	169.777	179.575	1.00	13.93	C
ATOM	2607	OH	TYR	A	358	182.621	168.539	179.051	1.00	22.89	O
ATOM	2608	N	THR	A	359	182.994	171.912	183.638	1.00	19.10	N
ATOM	2609	CA	THR	A	359	184.141	171.063	183.933	1.00	13.76	C
ATOM	2610	C	THR	A	359	183.857	169.656	183.430	1.00	20.79	C
ATOM	2611	O	THR	A	359	182.765	169.123	183.650	1.00	30.27	O
ATOM	2612	CB	THR	A	359	184.456	171.048	185.436	1.00	18.50	C
ATOM	2613	OG1	THR	A	359	185.445	170.049	185.712	1.00	27.89	O
ATOM	2614	CG2	THR	A	359	183.203	170.768	186.257	1.00	13.98	C

ATOM	2615	N	HIS	A	360	184.829	169.065	182.742	1.00	15.84	N
ATOM	2616	CA	HIS	A	360	184.673	167.722	182.200	1.00	14.44	C
ATOM	2617	C	HIS	A	360	185.110	166.637	183.173	1.00	17.79	C
ATOM	2618	O	HIS	A	360	184.968	165.451	182.859	1.00	23.59	O
ATOM	2619	CB	HIS	A	360	185.451	167.582	180.887	1.00	18.84	C
ATOM	2620	CG	HIS	A	360	186.933	167.472	181.067	1.00	22.79	C
ATOM	2621	ND1	HIS	A	360	187.776	168.558	180.976	1.00	20.05	N
ATOM	2622	CD2	HIS	A	360	187.723	166.402	181.321	1.00	26.45	C
ATOM	2623	CE1	HIS	A	360	189.021	168.163	181.172	1.00	21.06	C
ATOM	2624	NE2	HIS	A	360	189.017	166.860	181.385	1.00	20.88	N
ATOM	2625	N	LYS	A	361	185.633	167.009	184.341	1.00	18.57	N
ATOM	2626	CA	LYS	A	361	186.040	166.029	185.338	1.00	19.50	C
ATOM	2627	C	LYS	A	361	184.870	165.501	186.156	1.00	28.68	C
ATOM	2628	O	LYS	A	361	185.056	164.562	186.938	1.00	37.31	O
ATOM	2629	CB	LYS	A	361	187.092	166.634	186.269	1.00	16.21	C
ATOM	2630	CG	LYS	A	361	188.354	167.083	185.552	1.00	19.48	C
ATOM	2631	CD	LYS	A	361	189.456	167.437	186.533	1.00	21.78	C
ATOM	2632	CE	LYS	A	361	190.805	167.491	185.840	1.00	17.56	C
ATOM	2633	NZ	LYS	A	361	190.999	166.331	184.927	1.00	29.40	N
ATOM	2634	N	SER	A	362	183.681	166.074	185.996	1.00	25.22	N
ATOM	2635	CA	SER	A	362	182.467	165.588	186.638	1.00	18.48	C
ATOM	2636	C	SER	A	362	181.594	164.941	185.572	1.00	23.77	C
ATOM	2637	O	SER	A	362	181.273	165.575	184.562	1.00	30.13	O
ATOM	2638	CB	SER	A	362	181.722	166.726	187.334	1.00	11.56	C
ATOM	2639	OG	SER	A	362	181.488	167.801	186.444	1.00	33.16	O
ATOM	2640	N	ARG	A	363	181.214	163.686	185.796	1.00	26.97	N
ATOM	2641	CA	ARG	A	363	180.500	162.901	184.802	1.00	26.53	C
ATOM	2642	C	ARG	A	363	179.214	162.330	185.383	1.00	27.98	C
ATOM	2643	O	ARG	A	363	179.091	162.130	186.595	1.00	34.25	O
ATOM	2644	CB	ARG	A	363	181.372	161.758	184.269	1.00	33.09	C
ATOM	2645	CG	ARG	A	363	182.076	162.074	182.963	1.00	35.71	C
ATOM	2646	CD	ARG	A	363	182.969	160.926	182.529	1.00	38.40	C
ATOM	2647	NE	ARG	A	363	184.001	160.638	183.518	1.00	44.45	N
ATOM	2648	CZ	ARG	A	363	185.124	161.330	183.652	1.00	39.94	C
ATOM	2649	NH1	ARG	A	363	185.398	162.361	182.870	1.00	34.69	N
ATOM	2650	NH2	ARG	A	363	185.994	160.977	184.594	1.00	34.48	N
ATOM	2651	N	ALA	A	364	178.256	162.074	184.496	1.00	23.06	N
ATOM	2652	CA	ALA	A	364	177.005	161.426	184.856	1.00	23.41	C
ATOM	2653	C	ALA	A	364	176.475	160.695	183.633	1.00	33.63	C
ATOM	2654	O	ALA	A	364	176.871	160.974	182.499	1.00	44.65	O
ATOM	2655	CB	ALA	A	364	175.970	162.427	185.376	1.00	22.88	C
ATOM	2656	N	PHE	A	365	175.572	159.750	183.876	1.00	25.26	N
ATOM	2657	CA	PHE	A	365	175.012	158.911	182.825	1.00	21.81	C
ATOM	2658	C	PHE	A	365	173.496	159.039	182.847	1.00	23.62	C
ATOM	2659	O	PHE	A	365	172.872	158.855	183.895	1.00	33.97	O
ATOM	2660	CB	PHE	A	365	175.435	157.451	183.007	1.00	28.54	C
ATOM	2661	CG	PHE	A	365	176.924	157.241	182.985	1.00	29.88	C
ATOM	2662	CD1	PHE	A	365	177.699	157.529	184.097	1.00	30.74	C
ATOM	2663	CD2	PHE	A	365	177.549	156.751	181.851	1.00	32.42	C
ATOM	2664	CE1	PHE	A	365	179.066	157.337	184.077	1.00	32.06	C

ATOM	2665	CE2	PHE	A	365	178.916	156.558	181.824	1.00	33.78	C
ATOM	2666	CZ	PHE	A	365	179.676	156.850	182.939	1.00	34.90	C
ATOM	2667	N	SER	A	366	172.909	159.347	181.697	1.00	30.36	N
ATOM	2668	CA	SER	A	366	171.467	159.519	181.579	1.00	38.33	C
ATOM	2669	C	SER	A	366	170.919	158.555	180.527	1.00	41.43	C
ATOM	2670	O	SER	A	366	171.643	157.721	179.976	1.00	42.08	O
ATOM	2671	CB	SER	A	366	171.127	160.974	181.248	1.00	38.99	C
ATOM	2672	OG	SER	A	366	171.810	161.406	180.085	1.00	44.73	O
ATOM	2673	N	GLU	A	367	169.623	158.677	180.252	1.00	50.40	N
ATOM	2674	CA	GLU	A	367	168.933	157.833	179.289	1.00	49.15	C
ATOM	2675	C	GLU	A	367	168.334	158.698	178.189	1.00	54.53	C
ATOM	2676	O	GLU	A	367	167.722	159.735	178.466	1.00	58.07	O
ATOM	2677	CB	GLU	A	367	167.835	157.006	179.968	1.00	53.42	C
ATOM	2678	CG	GLU	A	367	167.032	156.131	179.019	1.00	56.77	C
ATOM	2679	CD	GLU	A	367	165.664	155.780	179.568	1.00	58.01	C
ATOM	2680	OE1	GLU	A	367	165.228	156.431	180.541	1.00	59.19	O
ATOM	2681	OE2	GLU	A	367	165.024	154.855	179.026	1.00	51.44	O
ATOM	2682	N	THR	A	368	168.510	158.266	176.942	1.00	47.14	N
ATOM	2683	CA	THR	A	368	168.019	159.000	175.789	1.00	49.40	C
ATOM	2684	C	THR	A	368	166.983	158.174	175.035	1.00	45.17	C
ATOM	2685	O	THR	A	368	167.026	156.940	175.066	1.00	48.50	O
ATOM	2686	CB	THR	A	368	169.163	159.365	174.833	1.00	51.13	C
ATOM	2687	OG1	THR	A	368	170.124	158.302	174.806	1.00	50.87	O
ATOM	2688	CG2	THR	A	368	169.845	160.646	175.284	1.00	45.67	C
ATOM	2689	N	PRO	A	369	166.031	158.824	174.365	1.00	41.40	N
ATOM	2690	CA	PRO	A	369	165.056	158.075	173.563	1.00	41.18	C
ATOM	2691	C	PRO	A	369	165.736	157.294	172.448	1.00	42.66	C
ATOM	2692	O	PRO	A	369	166.698	157.759	171.834	1.00	41.47	O
ATOM	2693	CB	PRO	A	369	164.136	159.168	173.007	1.00	40.38	C
ATOM	2694	CG	PRO	A	369	164.320	160.330	173.925	1.00	40.70	C
ATOM	2695	CD	PRO	A	369	165.744	160.268	174.378	1.00	41.33	C
ATOM	2696	N	SER	A	370	165.221	156.093	172.191	1.00	46.39	N
ATOM	2697	CA	SER	A	370	165.744	155.218	171.150	1.00	43.86	C
ATOM	2698	C	SER	A	370	164.765	155.025	169.999	1.00	47.04	C
ATOM	2699	O	SER	A	370	165.025	154.210	169.108	1.00	47.29	O
ATOM	2700	CB	SER	A	370	166.126	153.862	171.746	1.00	43.40	C
ATOM	2701	OG	SER	A	370	164.984	153.181	172.236	1.00	46.40	O
ATOM	2702	N	LEU	A	371	163.651	155.751	169.994	1.00	45.49	N
ATOM	2703	CA	LEU	A	371	162.612	155.604	168.985	1.00	43.86	C
ATOM	2704	C	LEU	A	371	162.390	156.928	168.270	1.00	48.71	C
ATOM	2705	O	LEU	A	371	162.551	158.000	168.863	1.00	50.14	O
ATOM	2706	CB	LEU	A	371	161.296	155.131	169.609	1.00	40.45	C
ATOM	2707	CG	LEU	A	371	161.002	153.631	169.565	1.00	46.83	C
ATOM	2708	CD1	LEU	A	371	161.676	152.917	170.724	1.00	46.40	C
ATOM	2709	CD2	LEU	A	371	159.502	153.385	169.575	1.00	45.30	C
ATOM	2710	N	TYR	A	372	162.025	156.850	166.993	1.00	47.58	N
ATOM	2711	CA	TYR	A	372	161.665	158.050	166.260	1.00	41.37	C
ATOM	2712	C	TYR	A	372	160.329	158.599	166.761	1.00	46.31	C
ATOM	2713	O	TYR	A	372	159.522	157.899	167.379	1.00	53.37	O
ATOM	2714	CB	TYR	A	372	161.601	157.773	164.758	1.00	41.29	C

ATOM	2715	CG	TYR	A	372	162.155	158.902	163.914	1.00	40.66	C
ATOM	2716	CD1	TYR	A	372	163.516	159.174	163.888	1.00	40.20	C
ATOM	2717	CD2	TYR	A	372	161.314	159.701	163.149	1.00	40.42	C
ATOM	2718	CE1	TYR	A	372	164.025	160.206	163.122	1.00	40.40	C
ATOM	2719	CE2	TYR	A	372	161.814	160.735	162.380	1.00	40.90	C
ATOM	2720	CZ	TYR	A	372	163.170	160.983	162.370	1.00	42.75	C
ATOM	2721	OH	TYR	A	372	163.674	162.011	161.607	1.00	40.95	O
ATOM	2722	N	LEU	A	373	160.134	159.893	166.503	1.00	47.36	N
ATOM	2723	CA	LEU	A	373	158.999	160.712	166.925	1.00	48.85	C
ATOM	2724	C	LEU	A	373	159.065	161.017	168.417	1.00	49.16	C
ATOM	2725	O	LEU	A	373	158.488	162.007	168.875	1.00	51.12	O
ATOM	2726	CB	LEU	A	373	157.665	160.035	166.584	1.00	47.31	C
ATOM	2727	CG	LEU	A	373	157.076	160.244	165.188	1.00	48.94	C
ATOM	2728	CD1	LEU	A	373	157.830	159.431	164.150	1.00	46.80	C
ATOM	2729	CD2	LEU	A	373	155.600	159.881	165.181	1.00	47.07	C
ATOM	2730	N	ARG	A	374	159.892	160.278	169.153	1.00	43.44	N
ATOM	2731	CA	ARG	A	374	160.100	160.557	170.568	1.00	42.56	C
ATOM	2732	C	ARG	A	374	161.375	161.356	170.776	1.00	47.41	C
ATOM	2733	O	ARG	A	374	161.364	162.380	171.467	1.00	49.72	O
ATOM	2734	CB	ARG	A	374	160.144	159.253	171.368	1.00	42.23	C
ATOM	2735	CG	ARG	A	374	158.768	158.700	171.710	1.00	39.87	C
ATOM	2736	CD	ARG	A	374	158.821	157.706	172.859	1.00	49.67	C
ATOM	2737	NE	ARG	A	374	160.045	157.823	173.643	1.00	52.30	N
ATOM	2738	CZ	ARG	A	374	160.905	156.833	173.844	1.00	52.28	C
ATOM	2739	NH1	ARG	A	374	160.709	155.632	173.325	1.00	50.48	N
ATOM	2740	NH2	ARG	A	374	161.986	157.054	174.585	1.00	51.09	N
ATOM	2741	N	TRP	A	375	162.470	160.915	170.157	1.00	41.34	N
ATOM	2742	CA	TRP	A	375	163.612	161.798	169.970	1.00	43.62	C
ATOM	2743	C	TRP	A	375	163.199	163.054	169.212	1.00	41.48	C
ATOM	2744	O	TRP	A	375	163.683	164.153	169.503	1.00	41.17	O
ATOM	2745	CB	TRP	A	375	164.726	161.047	169.240	1.00	36.33	C
ATOM	2746	CG	TRP	A	375	165.773	161.916	168.620	1.00	30.59	C
ATOM	2747	CD1	TRP	A	375	166.934	162.338	169.197	1.00	34.25	C
ATOM	2748	CD2	TRP	A	375	165.772	162.441	167.288	1.00	35.59	C
ATOM	2749	NE1	TRP	A	375	167.649	163.109	168.312	1.00	38.16	N
ATOM	2750	CE2	TRP	A	375	166.957	163.186	167.132	1.00	41.77	C
ATOM	2751	CE3	TRP	A	375	164.880	162.361	166.215	1.00	36.88	C
ATOM	2752	CZ2	TRP	A	375	167.273	163.847	165.947	1.00	38.95	C
ATOM	2753	CZ3	TRP	A	375	165.195	163.017	165.040	1.00	40.04	C
ATOM	2754	CH2	TRP	A	375	166.381	163.750	164.915	1.00	37.49	C
ATOM	2755	N	LEU	A	376	162.281	162.913	168.251	1.00	42.11	N
ATOM	2756	CA	LEU	A	376	161.777	164.076	167.528	1.00	38.46	C
ATOM	2757	C	LEU	A	376	160.977	165.000	168.442	1.00	34.71	C
ATOM	2758	O	LEU	A	376	161.128	166.226	168.375	1.00	38.92	O
ATOM	2759	CB	LEU	A	376	160.926	163.629	166.341	1.00	43.04	C
ATOM	2760	CG	LEU	A	376	160.697	164.660	165.236	1.00	46.03	C
ATOM	2761	CD1	LEU	A	376	162.006	165.009	164.548	1.00	40.49	C
ATOM	2762	CD2	LEU	A	376	159.678	164.146	164.234	1.00	42.73	C
ATOM	2763	N	ASN	A	377	160.116	164.437	169.297	1.00	38.78	N
ATOM	2764	CA	ASN	A	377	159.397	165.271	170.257	1.00	41.66	C

ATOM	2765	C	ASN	A	377	160.361	165.979	171.201	1.00	40.60	C
ATOM	2766	O	ASN	A	377	160.175	167.160	171.520	1.00	47.51	O
ATOM	2767	CB	ASN	A	377	158.395	164.428	171.046	1.00	43.23	C
ATOM	2768	CG	ASN	A	377	157.088	164.229	170.305	1.00	44.56	C
ATOM	2769	OD1	ASN	A	377	156.990	164.505	169.109	1.00	43.27	O
ATOM	2770	ND2	ASN	A	377	156.074	163.745	171.013	1.00	42.71	N
ATOM	2771	N	GLN	A	378	161.398	165.274	171.657	1.00	35.33	N
ATOM	2772	CA	GLN	A	378	162.388	165.884	172.540	1.00	34.99	C
ATOM	2773	C	GLN	A	378	163.122	167.029	171.850	1.00	34.89	C
ATOM	2774	O	GLN	A	378	163.336	168.090	172.449	1.00	36.35	O
ATOM	2775	CB	GLN	A	378	163.378	164.823	173.019	1.00	34.59	C
ATOM	2776	CG	GLN	A	378	164.219	165.245	174.208	1.00	38.52	C
ATOM	2777	CD	GLN	A	378	165.447	164.376	174.383	1.00	36.50	C
ATOM	2778	OE1	GLN	A	378	166.071	163.959	173.407	1.00	31.69	O
ATOM	2779	NE2	GLN	A	378	165.801	164.096	175.631	1.00	39.38	N
ATOM	2780	N	GLN	A	379	163.524	166.830	170.591	1.00	33.97	N
ATOM	2781	CA	GLN	A	379	164.212	167.889	169.859	1.00	26.72	C
ATOM	2782	C	GLN	A	379	163.299	169.085	169.620	1.00	30.53	C
ATOM	2783	O	GLN	A	379	163.740	170.236	169.715	1.00	33.41	O
ATOM	2784	CB	GLN	A	379	164.752	167.354	168.533	1.00	26.63	C
ATOM	2785	CG	GLN	A	379	165.815	166.279	168.683	1.00	25.75	C
ATOM	2786	CD	GLN	A	379	166.946	166.699	169.597	1.00	25.98	C
ATOM	2787	OE1	GLN	A	379	167.452	167.817	169.505	1.00	32.18	O
ATOM	2788	NE2	GLN	A	379	167.350	165.803	170.488	1.00	29.87	N
ATOM	2789	N	THR	A	380	162.026	168.834	169.302	1.00	32.86	N
ATOM	2790	CA	THR	A	380	161.081	169.933	169.135	1.00	29.53	C
ATOM	2791	C	THR	A	380	160.906	170.706	170.436	1.00	35.86	C
ATOM	2792	O	THR	A	380	160.849	171.941	170.432	1.00	40.43	O
ATOM	2793	CB	THR	A	380	159.735	169.402	168.641	1.00	32.30	C
ATOM	2794	OG1	THR	A	380	159.932	168.631	167.449	1.00	40.83	O
ATOM	2795	CG2	THR	A	380	158.785	170.551	168.341	1.00	34.35	C
ATOM	2796	N	ARG	A	381	160.827	169.992	171.561	1.00	34.82	N
ATOM	2797	CA	ARG	A	381	160.708	170.652	172.857	1.00	31.32	C
ATOM	2798	C	ARG	A	381	161.938	171.503	173.156	1.00	30.53	C
ATOM	2799	O	ARG	A	381	161.820	172.641	173.630	1.00	35.95	O
ATOM	2800	CB	ARG	A	381	160.503	169.602	173.949	1.00	34.47	C
ATOM	2801	CG	ARG	A	381	159.063	169.439	174.407	1.00	35.29	C
ATOM	2802	CD	ARG	A	381	158.950	168.422	175.530	1.00	37.02	C
ATOM	2803	NE	ARG	A	381	160.123	168.428	176.396	1.00	40.39	N
ATOM	2804	CZ	ARG	A	381	160.905	167.378	176.606	1.00	44.84	C
ATOM	2805	NH1	ARG	A	381	160.664	166.211	176.031	1.00	38.95	N
ATOM	2806	NH2	ARG	A	381	161.953	167.501	177.415	1.00	41.61	N
ATOM	2807	N	TRP	A	382	163.129	170.964	172.880	1.00	29.99	N
ATOM	2808	CA	TRP	A	382	164.358	171.715	173.115	1.00	25.32	C
ATOM	2809	C	TRP	A	382	164.420	172.962	172.243	1.00	30.97	C
ATOM	2810	O	TRP	A	382	164.818	174.036	172.710	1.00	34.65	O
ATOM	2811	CB	TRP	A	382	165.575	170.826	172.860	1.00	26.20	C
ATOM	2812	CG	TRP	A	382	165.778	169.763	173.893	1.00	28.66	C
ATOM	2813	CD1	TRP	A	382	164.967	169.484	174.952	1.00	30.37	C
ATOM	2814	CD2	TRP	A	382	166.868	168.837	173.966	1.00	31.74	C

ATOM	2815	NE1	TRP	A	382	165.483	168.440	175.681	1.00	26.45	N
ATOM	2816	CE2	TRP	A	382	166.650	168.026	175.096	1.00	31.93	C
ATOM	2817	CE3	TRP	A	382	168.007	168.616	173.186	1.00	31.61	C
ATOM	2818	CZ2	TRP	A	382	167.528	167.009	175.464	1.00	35.12	C
ATOM	2819	CZ3	TRP	A	382	168.876	167.607	173.553	1.00	31.72	C
ATOM	2820	CH2	TRP	A	382	168.633	166.817	174.682	1.00	34.74	C
ATOM	2821	N	THR	A	383	164.036	172.838	170.970	1.00	33.22	N
ATOM	2822	CA	THR	A	383	164.034	173.996	170.082	1.00	23.85	C
ATOM	2823	C	THR	A	383	163.030	175.044	170.545	1.00	30.41	C
ATOM	2824	O	THR	A	383	163.311	176.247	170.495	1.00	39.40	O
ATOM	2825	CB	THR	A	383	163.730	173.562	168.648	1.00	28.09	C
ATOM	2826	OG1	THR	A	383	164.381	172.315	168.376	1.00	37.02	O
ATOM	2827	CG2	THR	A	383	164.222	174.609	167.663	1.00	31.58	C
ATOM	2828	N	LYS	A	384	161.852	174.606	170.996	1.00	33.11	N
ATOM	2829	CA	LYS	A	384	160.860	175.542	171.514	1.00	28.76	C
ATOM	2830	C	LYS	A	384	161.407	176.303	172.713	1.00	24.85	C
ATOM	2831	O	LYS	A	384	161.282	177.531	172.796	1.00	33.29	O
ATOM	2832	CB	LYS	A	384	159.584	174.791	171.897	1.00	37.55	C
ATOM	2833	CG	LYS	A	384	158.386	175.079	171.015	1.00	35.89	C
ATOM	2834	CD	LYS	A	384	157.224	174.171	171.376	1.00	32.06	C
ATOM	2835	CE	LYS	A	384	156.303	173.950	170.190	1.00	36.99	C
ATOM	2836	NZ	LYS	A	384	155.295	172.889	170.459	1.00	41.88	N
ATOM	2837	N	SER	A	385	162.026	175.584	173.653	1.00	32.27	N
ATOM	2838	CA	SER	A	385	162.577	176.239	174.835	1.00	31.37	C
ATOM	2839	C	SER	A	385	163.692	177.209	174.462	1.00	35.86	C
ATOM	2840	O	SER	A	385	163.769	178.316	175.007	1.00	38.81	O
ATOM	2841	CB	SER	A	385	163.086	175.194	175.826	1.00	32.41	C
ATOM	2842	OG	SER	A	385	164.490	175.048	175.726	1.00	35.18	O
ATOM	2843	N	TYR	A	386	164.564	176.811	173.532	1.00	34.85	N
ATOM	2844	CA	TYR	A	386	165.656	177.683	173.109	1.00	27.40	C
ATOM	2845	C	TYR	A	386	165.125	178.957	172.463	1.00	31.55	C
ATOM	2846	O	TYR	A	386	165.591	180.063	172.765	1.00	35.14	O
ATOM	2847	CB	TYR	A	386	166.576	176.928	172.149	1.00	29.23	C
ATOM	2848	CG	TYR	A	386	167.524	177.808	171.367	1.00	28.65	C
ATOM	2849	CD1	TYR	A	386	168.685	178.299	171.946	1.00	29.80	C
ATOM	2850	CD2	TYR	A	386	167.262	178.137	170.043	1.00	31.12	C
ATOM	2851	CE1	TYR	A	386	169.555	179.100	171.232	1.00	32.16	C
ATOM	2852	CE2	TYR	A	386	168.126	178.938	169.322	1.00	31.15	C
ATOM	2853	CZ	TYR	A	386	169.270	179.416	169.921	1.00	37.06	C
ATOM	2854	OH	TYR	A	386	170.133	180.213	169.206	1.00	39.01	O
ATOM	2855	N	PHE	A	387	164.140	178.821	171.573	1.00	33.59	N
ATOM	2856	CA	PHE	A	387	163.566	179.993	170.921	1.00	24.49	C
ATOM	2857	C	PHE	A	387	162.871	180.898	171.928	1.00	27.24	C
ATOM	2858	O	PHE	A	387	162.941	182.127	171.818	1.00	33.45	O
ATOM	2859	CB	PHE	A	387	162.592	179.562	169.825	1.00	31.48	C
ATOM	2860	CG	PHE	A	387	163.259	179.192	168.533	1.00	32.76	C
ATOM	2861	CD1	PHE	A	387	164.498	179.713	168.203	1.00	33.87	C
ATOM	2862	CD2	PHE	A	387	162.646	178.322	167.647	1.00	28.67	C
ATOM	2863	CE1	PHE	A	387	165.114	179.373	167.015	1.00	32.95	C
ATOM	2864	CE2	PHE	A	387	163.256	177.979	166.457	1.00	31.44	C

ATOM	2865	CZ	PHE	A	387	164.492	178.505	166.141	1.00	32.64		C
ATOM	2866	N	ARG	A	388	162.194	180.309	172.916	1.00	37.18		N
ATOM	2867	CA	ARG	A	388	161.491	181.116	173.907	1.00	36.37		C
ATOM	2868	C	ARG	A	388	162.464	181.850	174.823	1.00	36.18		C
ATOM	2869	O	ARG	A	388	162.206	182.992	175.221	1.00	34.23		O
ATOM	2870	CB	ARG	A	388	160.541	180.232	174.713	1.00	38.24		C
ATOM	2871	CG	ARG	A	388	159.101	180.312	174.239	1.00	40.52		C
ATOM	2872	CD	ARG	A	388	158.132	179.839	175.303	1.00	41.58		C
ATOM	2873	NE	ARG	A	388	158.629	178.668	176.010	1.00	47.19		N
ATOM	2874	CZ	ARG	A	388	158.360	177.419	175.659	1.00	51.36		C
ATOM	2875	NH1	ARG	A	388	157.597	177.144	174.615	1.00	43.18		N
ATOM	2876	NH2	ARG	A	388	158.869	176.422	176.373	1.00	53.03		N
ATOM	2877	N	GLU	A	389	163.586	181.218	175.169	1.00	37.06		N
ATOM	2878	CA	GLU	A	389	164.560	181.833	176.061	1.00	33.82		C
ATOM	2879	C	GLU	A	389	165.555	182.741	175.347	1.00	32.14		C
ATOM	2880	O	GLU	A	389	166.292	183.467	176.023	1.00	31.43		O
ATOM	2881	CB	GLU	A	389	165.328	180.755	176.835	1.00	31.69		C
ATOM	2882	CG	GLU	A	389	164.450	179.861	177.694	1.00	37.68		C
ATOM	2883	CD	GLU	A	389	163.971	180.550	178.955	1.00	42.83		C
ATOM	2884	OE1	GLU	A	389	164.593	181.555	179.359	1.00	40.16		O
ATOM	2885	OE2	GLU	A	389	162.970	180.088	179.542	1.00	43.30		O
ATOM	2886	N	TRP	A	390	165.604	182.712	174.013	1.00	36.57		N
ATOM	2887	CA	TRP	A	390	166.526	183.586	173.289	1.00	29.25		C
ATOM	2888	C	TRP	A	390	166.230	185.057	173.558	1.00	28.77		C
ATOM	2889	O	TRP	A	390	167.147	185.855	173.792	1.00	33.16		O
ATOM	2890	CB	TRP	A	390	166.456	183.291	171.790	1.00	25.09		C
ATOM	2891	CG	TRP	A	390	167.624	183.822	171.016	1.00	30.96		C
ATOM	2892	CD1	TRP	A	390	168.803	183.182	170.770	1.00	32.52		C
ATOM	2893	CD2	TRP	A	390	167.725	185.105	170.388	1.00	31.15		C
ATOM	2894	NE1	TRP	A	390	169.631	183.987	170.027	1.00	30.90		N
ATOM	2895	CE2	TRP	A	390	168.993	185.174	169.779	1.00	28.85		C
ATOM	2896	CE3	TRP	A	390	166.865	186.203	170.281	1.00	32.23		C
ATOM	2897	CZ2	TRP	A	390	169.423	186.295	169.075	1.00	22.17		C
ATOM	2898	CZ3	TRP	A	390	167.294	187.315	169.581	1.00	31.32		C
ATOM	2899	CH2	TRP	A	390	168.561	187.353	168.987	1.00	22.60		C
ATOM	2900	N	LEU	A	391	164.951	185.437	173.523	1.00	27.95		N
ATOM	2901	CA	LEU	A	391	164.591	186.836	173.735	1.00	33.52		C
ATOM	2902	C	LEU	A	391	164.951	187.296	175.142	1.00	35.58		C
ATOM	2903	O	LEU	A	391	165.443	188.416	175.327	1.00	28.67		O
ATOM	2904	CB	LEU	A	391	163.101	187.044	173.465	1.00	35.12		C
ATOM	2905	CG	LEU	A	391	162.715	188.366	172.797	1.00	36.55		C
ATOM	2906	CD1	LEU	A	391	163.680	188.708	171.672	1.00	31.36		C
ATOM	2907	CD2	LEU	A	391	161.285	188.312	172.283	1.00	37.08		C
ATOM	2908	N	TYR	A	392	164.706	186.453	176.147	1.00	33.74		N
ATOM	2909	CA	TYR	A	392	165.083	186.805	177.511	1.00	24.23		C
ATOM	2910	C	TYR	A	392	166.596	186.901	177.661	1.00	26.70		C
ATOM	2911	O	TYR	A	392	167.101	187.800	178.342	1.00	27.89		O
ATOM	2912	CB	TYR	A	392	164.506	185.792	178.499	1.00	31.78		C
ATOM	2913	CG	TYR	A	392	164.779	186.133	179.948	1.00	38.47		C
ATOM	2914	CD1	TYR	A	392	165.925	185.674	180.586	1.00	34.70		C

ATOM	2915	CD2	TYR	A	392	163.901	186.926	180.672	1.00	36.24	C
ATOM	2916	CE1	TYR	A	392	166.182	185.987	181.904	1.00	29.45	C
ATOM	2917	CE2	TYR	A	392	164.150	187.246	181.992	1.00	33.65	C
ATOM	2918	CZ	TYR	A	392	165.292	186.773	182.602	1.00	35.80	C
ATOM	2919	OH	TYR	A	392	165.546	187.088	183.916	1.00	36.60	O
ATOM	2920	N	ASN	A	393	167.336	185.980	177.038	1.00	32.44	N
ATOM	2921	CA	ASN	A	393	168.791	186.011	177.139	1.00	24.91	C
ATOM	2922	C	ASN	A	393	169.381	187.225	176.436	1.00	30.20	C
ATOM	2923	O	ASN	A	393	170.456	187.699	176.819	1.00	31.79	O
ATOM	2924	CB	ASN	A	393	169.382	184.726	176.562	1.00	28.30	C
ATOM	2925	CG	ASN	A	393	170.800	184.480	177.025	1.00	34.04	C
ATOM	2926	OD1	ASN	A	393	171.643	184.013	176.259	1.00	34.72	O
ATOM	2927	ND2	ASN	A	393	171.072	184.789	178.287	1.00	36.53	N
ATOM	2928	N	ALA	A	394	168.699	187.739	175.411	1.00	31.59	N
ATOM	2929	CA	ALA	A	394	169.197	188.901	174.683	1.00	22.02	C
ATOM	2930	C	ALA	A	394	169.244	190.166	175.531	1.00	23.24	C
ATOM	2931	O	ALA	A	394	169.895	191.135	175.125	1.00	27.91	O
ATOM	2932	CB	ALA	A	394	168.340	189.149	173.442	1.00	25.34	C
ATOM	2933	N	GLN	A	395	168.576	190.188	176.687	1.00	32.57	N
ATOM	2934	CA	GLN	A	395	168.559	191.395	177.508	1.00	28.02	C
ATOM	2935	C	GLN	A	395	169.883	191.616	178.230	1.00	30.48	C
ATOM	2936	O	GLN	A	395	170.281	192.766	178.448	1.00	24.08	O
ATOM	2937	CB	GLN	A	395	167.419	191.327	178.525	1.00	25.97	C
ATOM	2938	CG	GLN	A	395	166.040	191.161	177.913	1.00	29.83	C
ATOM	2939	CD	GLN	A	395	164.939	191.180	178.955	1.00	37.57	C
ATOM	2940	OE1	GLN	A	395	165.207	191.211	180.156	1.00	37.72	O
ATOM	2941	NE2	GLN	A	395	163.693	191.160	178.499	1.00	39.27	N
ATOM	2942	N	TRP	A	396	170.574	190.543	178.606	1.00	33.75	N
ATOM	2943	CA	TRP	A	396	171.769	190.619	179.441	1.00	23.10	C
ATOM	2944	C	TRP	A	396	173.036	190.281	178.659	1.00	25.96	C
ATOM	2945	O	TRP	A	396	173.947	189.632	179.175	1.00	27.53	O
ATOM	2946	CB	TRP	A	396	171.634	189.700	180.652	1.00	18.93	C
ATOM	2947	CG	TRP	A	396	170.240	189.628	181.191	1.00	22.39	C
ATOM	2948	CD1	TRP	A	396	169.344	188.616	181.013	1.00	23.61	C
ATOM	2949	CD2	TRP	A	396	169.581	190.610	181.999	1.00	29.91	C
ATOM	2950	NE1	TRP	A	396	168.167	188.907	181.657	1.00	29.10	N
ATOM	2951	CE2	TRP	A	396	168.286	190.126	182.270	1.00	32.08	C
ATOM	2952	CE3	TRP	A	396	169.959	191.852	182.518	1.00	25.45	C
ATOM	2953	CZ2	TRP	A	396	167.369	190.840	183.039	1.00	27.30	C
ATOM	2954	CZ3	TRP	A	396	169.047	192.559	183.279	1.00	28.57	C
ATOM	2955	CH2	TRP	A	396	167.767	192.051	183.532	1.00	26.77	C
ATOM	2956	N	TRP	A	397	173.108	190.722	177.402	1.00	25.68	N
ATOM	2957	CA	TRP	A	397	174.308	190.483	176.608	1.00	24.34	C
ATOM	2958	C	TRP	A	397	175.460	191.381	177.042	1.00	24.66	C
ATOM	2959	O	TRP	A	397	176.627	190.999	176.902	1.00	27.79	O
ATOM	2960	CB	TRP	A	397	174.012	190.694	175.123	1.00	26.18	C
ATOM	2961	CG	TRP	A	397	173.388	189.511	174.448	1.00	24.47	C
ATOM	2962	CD1	TRP	A	397	173.251	188.254	174.957	1.00	25.22	C
ATOM	2963	CD2	TRP	A	397	172.814	189.478	173.136	1.00	27.25	C
ATOM	2964	NE1	TRP	A	397	172.628	187.439	174.043	1.00	28.67	N

ATOM	2965	CE2	TRP	A	397	172.349	188.167	172.917	1.00	27.87	C
ATOM	2966	CE3	TRP	A	397	172.649	190.430	172.125	1.00	23.66	C
ATOM	2967	CZ2	TRP	A	397	171.730	187.783	171.730	1.00	29.10	C
ATOM	2968	CZ3	TRP	A	397	172.034	190.047	170.947	1.00	22.67	C
ATOM	2969	CH2	TRP	A	397	171.582	188.735	170.759	1.00	25.64	C
ATOM	2970	N	HIS	A	398	175.156	192.569	177.569	1.00	27.63	N
ATOM	2971	CA	HIS	A	398	176.197	193.538	177.890	1.00	25.73	C
ATOM	2972	C	HIS	A	398	176.998	193.158	179.128	1.00	27.45	C
ATOM	2973	O	HIS	A	398	178.093	193.694	179.328	1.00	33.91	O
ATOM	2974	CB	HIS	A	398	175.582	194.924	178.084	1.00	17.55	C
ATOM	2975	CG	HIS	A	398	174.600	194.998	179.211	1.00	12.97	C
ATOM	2976	ND1	HIS	A	398	173.349	194.423	179.147	1.00	19.72	N
ATOM	2977	CD2	HIS	A	398	174.684	195.581	180.429	1.00	23.74	C
ATOM	2978	CE1	HIS	A	398	172.705	194.648	180.278	1.00	26.94	C
ATOM	2979	NE2	HIS	A	398	173.493	195.349	181.073	1.00	22.76	N
ATOM	2980	N	LYS	A	399	176.486	192.255	179.960	1.00	24.57	N
ATOM	2981	CA	LYS	A	399	177.162	191.890	181.198	1.00	21.26	C
ATOM	2982	C	LYS	A	399	178.237	190.829	181.008	1.00	26.28	C
ATOM	2983	O	LYS	A	399	178.938	190.507	181.973	1.00	29.17	O
ATOM	2984	CB	LYS	A	399	176.143	191.397	182.229	1.00	18.74	C
ATOM	2985	CG	LYS	A	399	175.160	192.453	182.696	1.00	19.86	C
ATOM	2986	CD	LYS	A	399	174.122	191.854	183.629	1.00	29.51	C
ATOM	2987	CE	LYS	A	399	173.708	192.843	184.704	1.00	29.08	C
ATOM	2988	NZ	LYS	A	399	172.230	193.004	184.765	1.00	28.90	N
ATOM	2989	N	HIS	A	400	178.389	190.280	179.805	1.00	25.21	N
ATOM	2990	CA	HIS	A	400	179.286	189.158	179.572	1.00	18.97	C
ATOM	2991	C	HIS	A	400	180.136	189.424	178.334	1.00	21.12	C
ATOM	2992	O	HIS	A	400	180.133	190.522	177.770	1.00	19.05	O
ATOM	2993	CB	HIS	A	400	178.497	187.851	179.430	1.00	16.30	C
ATOM	2994	CG	HIS	A	400	177.582	187.574	180.582	1.00	18.76	C
ATOM	2995	ND1	HIS	A	400	178.014	186.982	181.749	1.00	21.29	N
ATOM	2996	CD2	HIS	A	400	176.261	187.817	180.749	1.00	19.28	C
ATOM	2997	CE1	HIS	A	400	176.997	186.868	182.584	1.00	24.01	C
ATOM	2998	NE2	HIS	A	400	175.922	187.367	182.002	1.00	24.00	N
ATOM	2999	N	HIS	A	401	180.873	188.396	177.920	1.00	26.25	N
ATOM	3000	CA	HIS	A	401	181.778	188.513	176.786	1.00	18.76	C
ATOM	3001	C	HIS	A	401	180.997	188.703	175.489	1.00	27.74	C
ATOM	3002	O	HIS	A	401	179.844	188.282	175.362	1.00	36.36	O
ATOM	3003	CB	HIS	A	401	182.660	187.267	176.692	1.00	20.87	C
ATOM	3004	CG	HIS	A	401	184.029	187.530	176.147	1.00	27.56	C
ATOM	3005	ND1	HIS	A	401	184.364	187.302	174.830	1.00	29.01	N
ATOM	3006	CD2	HIS	A	401	185.153	187.989	176.747	1.00	26.29	C
ATOM	3007	CE1	HIS	A	401	185.633	187.616	174.640	1.00	25.64	C
ATOM	3008	NE2	HIS	A	401	186.134	188.036	175.787	1.00	24.49	N
ATOM	3009	N	ILE	A	402	181.642	189.353	174.516	1.00	21.04	N
ATOM	3010	CA	ILE	A	402	181.020	189.554	173.212	1.00	18.81	C
ATOM	3011	C	ILE	A	402	180.866	188.241	172.454	1.00	24.96	C
ATOM	3012	O	ILE	A	402	180.063	188.158	171.512	1.00	24.59	O
ATOM	3013	CB	ILE	A	402	181.827	190.583	172.395	1.00	17.00	C
ATOM	3014	CG1	ILE	A	402	180.886	191.475	171.584	1.00	21.10	C

ATOM	3015	CG2	ILE	A	402	182.838	189.893	171.491	1.00	25.91	C
ATOM	3016	CD1	ILE	A	402	181.587	192.608	170.874	1.00	20.07	C
ATOM	3017	N	TRP	A	403	181.614	187.204	172.842	1.00	29.62	N
ATOM	3018	CA	TRP	A	403	181.426	185.895	172.229	1.00	28.36	C
ATOM	3019	C	TRP	A	403	180.016	185.376	172.467	1.00	30.99	C
ATOM	3020	O	TRP	A	403	179.466	184.669	171.617	1.00	35.75	O
ATOM	3021	CB	TRP	A	403	182.454	184.899	172.767	1.00	17.72	C
ATOM	3022	CG	TRP	A	403	182.221	183.500	172.281	1.00	24.71	C
ATOM	3023	CD1	TRP	A	403	181.485	182.528	172.896	1.00	23.56	C
ATOM	3024	CD2	TRP	A	403	182.717	182.921	171.069	1.00	28.23	C
ATOM	3025	NE1	TRP	A	403	181.496	181.380	172.143	1.00	20.89	N
ATOM	3026	CE2	TRP	A	403	182.246	181.595	171.017	1.00	25.08	C
ATOM	3027	CE3	TRP	A	403	183.517	183.394	170.025	1.00	24.80	C
ATOM	3028	CZ2	TRP	A	403	182.545	180.740	169.960	1.00	27.38	C
ATOM	3029	CZ3	TRP	A	403	183.815	182.542	168.980	1.00	24.50	C
ATOM	3030	CH2	TRP	A	403	183.330	181.230	168.955	1.00	26.57	C
ATOM	3031	N	MET	A	404	179.412	185.733	173.602	1.00	22.36	N
ATOM	3032	CA	MET	A	404	178.057	185.285	173.904	1.00	20.69	C
ATOM	3033	C	MET	A	404	177.064	185.785	172.860	1.00	23.46	C
ATOM	3034	O	MET	A	404	176.326	184.995	172.257	1.00	32.00	O
ATOM	3035	CB	MET	A	404	177.668	185.761	175.303	1.00	23.01	C
ATOM	3036	CG	MET	A	404	176.183	185.760	175.599	1.00	28.22	C
ATOM	3037	SD	MET	A	404	175.882	185.781	177.376	1.00	32.46	S
ATOM	3038	CE	MET	A	404	174.095	185.781	177.418	1.00	25.39	C
ATOM	3039	N	THR	A	405	177.053	187.097	172.609	1.00	23.24	N
ATOM	3040	CA	THR	A	405	176.120	187.643	171.628	1.00	27.20	C
ATOM	3041	C	THR	A	405	176.492	187.217	170.213	1.00	25.25	C
ATOM	3042	O	THR	A	405	175.606	186.970	169.385	1.00	30.73	O
ATOM	3043	CB	THR	A	405	176.055	189.169	171.738	1.00	33.40	C
ATOM	3044	OG1	THR	A	405	175.410	189.708	170.578	1.00	30.49	O
ATOM	3045	CG2	THR	A	405	177.441	189.769	171.866	1.00	30.49	C
ATOM	3046	N	TYR	A	406	177.792	187.112	169.918	1.00	23.40	N
ATOM	3047	CA	TYR	A	406	178.206	186.656	168.594	1.00	22.03	C
ATOM	3048	C	TYR	A	406	177.674	185.256	168.306	1.00	21.43	C
ATOM	3049	O	TYR	A	406	177.063	185.010	167.254	1.00	28.03	O
ATOM	3050	CB	TYR	A	406	179.731	186.689	168.485	1.00	24.13	C
ATOM	3051	CG	TYR	A	406	180.302	185.736	167.458	1.00	31.19	C
ATOM	3052	CD1	TYR	A	406	180.272	186.044	166.105	1.00	26.09	C
ATOM	3053	CD2	TYR	A	406	180.874	184.530	167.841	1.00	31.72	C
ATOM	3054	CE1	TYR	A	406	180.793	185.179	165.163	1.00	24.64	C
ATOM	3055	CE2	TYR	A	406	181.395	183.658	166.905	1.00	27.47	C
ATOM	3056	CZ	TYR	A	406	181.353	183.988	165.569	1.00	27.54	C
ATOM	3057	OH	TYR	A	406	181.872	183.122	164.635	1.00	34.29	O
ATOM	3058	N	GLU	A	407	177.888	184.323	169.240	1.00	21.36	N
ATOM	3059	CA	GLU	A	407	177.423	182.958	169.043	1.00	23.46	C
ATOM	3060	C	GLU	A	407	175.903	182.881	169.041	1.00	31.14	C
ATOM	3061	O	GLU	A	407	175.333	182.096	168.277	1.00	39.63	O
ATOM	3062	CB	GLU	A	407	178.024	182.032	170.105	1.00	15.29	C
ATOM	3063	CG	GLU	A	407	177.304	182.016	171.442	1.00	32.67	C
ATOM	3064	CD	GLU	A	407	177.932	181.052	172.428	1.00	42.33	C

ATOM	3065	OE1	GLU	A	407	178.116	179.870	172.069	1.00	39.02	O
ATOM	3066	OE2	GLU	A	407	178.238	181.475	173.563	1.00	40.69	O
ATOM	3067	N	SER	A	408	175.227	183.699	169.855	1.00	20.67	N
ATOM	3068	CA	SER	A	408	173.769	183.711	169.828	1.00	15.62	C
ATOM	3069	C	SER	A	408	173.256	184.125	168.455	1.00	22.89	C
ATOM	3070	O	SER	A	408	172.376	183.470	167.883	1.00	39.35	O
ATOM	3071	CB	SER	A	408	173.232	184.646	170.911	1.00	24.71	C
ATOM	3072	OG	SER	A	408	173.889	184.424	172.147	1.00	35.90	O
ATOM	3073	N	VAL	A	409	173.824	185.195	167.894	1.00	24.10	N
ATOM	3074	CA	VAL	A	409	173.370	185.686	166.595	1.00	23.19	C
ATOM	3075	C	VAL	A	409	173.632	184.650	165.508	1.00	20.30	C
ATOM	3076	O	VAL	A	409	172.754	184.349	164.688	1.00	25.94	O
ATOM	3077	CB	VAL	A	409	174.039	187.033	166.267	1.00	22.58	C
ATOM	3078	CG1	VAL	A	409	173.791	187.410	164.816	1.00	23.46	C
ATOM	3079	CG2	VAL	A	409	173.525	188.120	167.196	1.00	17.00	C
ATOM	3080	N	VAL	A	410	174.842	184.082	165.485	1.00	26.54	N
ATOM	3081	CA	VAL	A	410	175.168	183.152	164.407	1.00	29.90	C
ATOM	3082	C	VAL	A	410	174.334	181.878	164.520	1.00	32.96	C
ATOM	3083	O	VAL	A	410	173.850	181.350	163.511	1.00	41.63	O
ATOM	3084	CB	VAL	A	410	176.681	182.855	164.364	1.00	23.54	C
ATOM	3085	CG1	VAL	A	410	177.466	184.139	164.140	1.00	23.88	C
ATOM	3086	CG2	VAL	A	410	177.150	182.150	165.619	1.00	21.56	C
ATOM	3087	N	SER	A	411	174.131	181.372	165.742	1.00	23.97	N
ATOM	3088	CA	SER	A	411	173.333	180.165	165.913	1.00	25.73	C
ATOM	3089	C	SER	A	411	171.862	180.417	165.615	1.00	28.35	C
ATOM	3090	O	SER	A	411	171.149	179.495	165.205	1.00	40.15	O
ATOM	3091	CB	SER	A	411	173.502	179.620	167.330	1.00	27.86	C
ATOM	3092	OG	SER	A	411	172.702	180.339	168.251	1.00	32.57	O
ATOM	3093	N	PHE	A	412	171.386	181.649	165.814	1.00	18.72	N
ATOM	3094	CA	PHE	A	412	170.001	181.949	165.476	1.00	20.93	C
ATOM	3095	C	PHE	A	412	169.812	182.071	163.969	1.00	31.47	C
ATOM	3096	O	PHE	A	412	168.780	181.650	163.433	1.00	35.32	O
ATOM	3097	CB	PHE	A	412	169.553	183.229	166.180	1.00	21.70	C
ATOM	3098	CG	PHE	A	412	168.104	183.562	165.968	1.00	28.35	C
ATOM	3099	CD1	PHE	A	412	167.124	182.961	166.740	1.00	31.37	C
ATOM	3100	CD2	PHE	A	412	167.721	184.473	164.999	1.00	28.67	C
ATOM	3101	CE1	PHE	A	412	165.790	183.263	166.549	1.00	29.45	C
ATOM	3102	CE2	PHE	A	412	166.388	184.778	164.803	1.00	26.68	C
ATOM	3103	CZ	PHE	A	412	165.422	184.172	165.580	1.00	30.84	C
ATOM	3104	N	ILE	A	413	170.795	182.642	163.263	1.00	34.32	N
ATOM	3105	CA	ILE	A	413	170.608	182.929	161.840	1.00	25.83	C
ATOM	3106	C	ILE	A	413	171.134	181.844	160.906	1.00	32.89	C
ATOM	3107	O	ILE	A	413	170.877	181.916	159.695	1.00	42.69	O
ATOM	3108	CB	ILE	A	413	171.259	184.270	161.449	1.00	29.05	C
ATOM	3109	CG1	ILE	A	413	172.784	184.143	161.431	1.00	27.28	C
ATOM	3110	CG2	ILE	A	413	170.797	185.382	162.380	1.00	34.84	C
ATOM	3111	CD1	ILE	A	413	173.501	185.435	161.104	1.00	34.50	C
ATOM	3112	N	PHE	A	414	171.864	180.850	161.414	1.00	30.34	N
ATOM	3113	CA	PHE	A	414	172.382	179.805	160.531	1.00	35.61	C
ATOM	3114	C	PHE	A	414	171.298	178.965	159.858	1.00	37.81	C

ATOM	3115	O	PHE	A	414	171.385	178.763	158.633	1.00	43.45	O
ATOM	3116	CB	PHE	A	414	173.368	178.925	161.308	1.00	36.24	C
ATOM	3117	CG	PHE	A	414	174.778	179.448	161.302	1.00	38.30	C
ATOM	3118	CD1	PHE	A	414	175.096	180.610	160.619	1.00	37.37	C
ATOM	3119	CD2	PHE	A	414	175.782	178.780	161.983	1.00	36.97	C
ATOM	3120	CE1	PHE	A	414	176.390	181.095	160.612	1.00	37.23	C
ATOM	3121	CE2	PHE	A	414	177.078	179.261	161.981	1.00	36.38	C
ATOM	3122	CZ	PHE	A	414	177.382	180.420	161.294	1.00	41.40	C
ATOM	3123	N	PRO	A	415	170.287	178.433	160.562	1.00	34.88	N
ATOM	3124	CA	PRO	A	415	169.325	177.541	159.884	1.00	35.26	C
ATOM	3125	C	PRO	A	415	168.571	178.188	158.734	1.00	36.86	C
ATOM	3126	O	PRO	A	415	168.254	177.502	157.752	1.00	41.95	O
ATOM	3127	CB	PRO	A	415	168.372	177.131	161.016	1.00	38.49	C
ATOM	3128	CG	PRO	A	415	169.162	177.308	162.255	1.00	37.93	C
ATOM	3129	CD	PRO	A	415	170.007	178.516	162.007	1.00	34.05	C
ATOM	3130	N	PHE	A	416	168.254	179.481	158.826	1.00	32.71	N
ATOM	3131	CA	PHE	A	416	167.536	180.137	157.738	1.00	35.26	C
ATOM	3132	C	PHE	A	416	168.381	180.189	156.471	1.00	34.69	C
ATOM	3133	O	PHE	A	416	167.879	179.932	155.370	1.00	41.95	O
ATOM	3134	CB	PHE	A	416	167.107	181.539	158.166	1.00	33.07	C
ATOM	3135	CG	PHE	A	416	166.170	181.550	159.340	1.00	35.48	C
ATOM	3136	CD1	PHE	A	416	166.658	181.585	160.635	1.00	38.75	C
ATOM	3137	CD2	PHE	A	416	164.799	181.517	159.149	1.00	37.87	C
ATOM	3138	CE1	PHE	A	416	165.799	181.592	161.716	1.00	36.86	C
ATOM	3139	CE2	PHE	A	416	163.934	181.524	160.226	1.00	38.82	C
ATOM	3140	CZ	PHE	A	416	164.435	181.561	161.511	1.00	38.62	C
ATOM	3141	N	PHE	A	417	169.669	180.511	156.608	1.00	27.99	N
ATOM	3142	CA	PHE	A	417	170.563	180.484	155.458	1.00	34.21	C
ATOM	3143	C	PHE	A	417	170.759	179.067	154.942	1.00	35.20	C
ATOM	3144	O	PHE	A	417	170.874	178.861	153.728	1.00	37.84	O
ATOM	3145	CB	PHE	A	417	171.902	181.118	155.826	1.00	29.07	C
ATOM	3146	CG	PHE	A	417	171.835	182.607	155.980	1.00	36.89	C
ATOM	3147	CD1	PHE	A	417	170.873	183.338	155.304	1.00	44.86	C
ATOM	3148	CD2	PHE	A	417	172.717	183.275	156.810	1.00	33.28	C
ATOM	3149	CE1	PHE	A	417	170.799	184.706	155.443	1.00	41.36	C
ATOM	3150	CE2	PHE	A	417	172.645	184.644	156.954	1.00	36.91	C
ATOM	3151	CZ	PHE	A	417	171.686	185.360	156.269	1.00	42.67	C
ATOM	3152	N	ILE	A	418	170.783	178.082	155.845	1.00	38.43	N
ATOM	3153	CA	ILE	A	418	170.832	176.682	155.430	1.00	34.94	C
ATOM	3154	C	ILE	A	418	169.654	176.359	154.522	1.00	31.98	C
ATOM	3155	O	ILE	A	418	169.820	175.807	153.427	1.00	34.78	O
ATOM	3156	CB	ILE	A	418	170.856	175.762	156.665	1.00	37.83	C
ATOM	3157	CG1	ILE	A	418	172.260	175.699	157.261	1.00	39.72	C
ATOM	3158	CG2	ILE	A	418	170.379	174.364	156.307	1.00	39.64	C
ATOM	3159	CD1	ILE	A	418	173.345	175.495	156.224	1.00	34.87	C
ATOM	3160	N	THR	A	419	168.445	176.719	154.960	1.00	26.12	N
ATOM	3161	CA	THR	A	419	167.250	176.429	154.175	1.00	24.63	C
ATOM	3162	C	THR	A	419	167.258	177.181	152.850	1.00	30.27	C
ATOM	3163	O	THR	A	419	166.886	176.623	151.811	1.00	37.29	O
ATOM	3164	CB	THR	A	419	165.993	176.774	154.974	1.00	27.17	C

ATOM	3165	OG1	THR	A	419	166.156	176.354	156.335	1.00	33.68	O
ATOM	3166	CG2	THR	A	419	164.776	176.084	154.377	1.00	32.22	C
ATOM	3167	N	ALA	A	420	167.666	178.453	152.865	1.00	36.40	N
ATOM	3168	CA	ALA	A	420	167.679	179.240	151.635	1.00	32.84	C
ATOM	3169	C	ALA	A	420	168.648	178.653	150.615	1.00	33.29	C
ATOM	3170	O	ALA	A	420	168.309	178.502	149.434	1.00	36.24	O
ATOM	3171	CB	ALA	A	420	168.037	180.693	151.947	1.00	27.70	C
ATOM	3172	N	THR	A	421	169.861	178.310	151.057	1.00	35.98	N
ATOM	3173	CA	THR	A	421	170.836	177.705	150.155	1.00	31.83	C
ATOM	3174	C	THR	A	421	170.341	176.362	149.636	1.00	31.87	C
ATOM	3175	O	THR	A	421	170.493	176.053	148.447	1.00	35.89	O
ATOM	3176	CB	THR	A	421	172.181	177.545	150.867	1.00	34.20	C
ATOM	3177	OG1	THR	A	421	172.781	178.832	151.054	1.00	37.84	O
ATOM	3178	CG2	THR	A	421	173.122	176.671	150.053	1.00	35.20	C
ATOM	3179	N	VAL	A	422	169.736	175.554	150.512	1.00	39.49	N
ATOM	3180	CA	VAL	A	422	169.227	174.252	150.091	1.00	34.88	C
ATOM	3181	C	VAL	A	422	168.163	174.424	149.015	1.00	32.25	C
ATOM	3182	O	VAL	A	422	168.189	173.746	147.985	1.00	34.75	O
ATOM	3183	CB	VAL	A	422	168.691	173.467	151.302	1.00	35.18	C
ATOM	3184	CG1	VAL	A	422	167.670	172.430	150.860	1.00	33.52	C
ATOM	3185	CG2	VAL	A	422	169.837	172.802	152.046	1.00	37.83	C
ATOM	3186	N	ILE	A	423	167.225	175.350	149.228	1.00	38.11	N
ATOM	3187	CA	ILE	A	423	166.152	175.561	148.258	1.00	38.59	C
ATOM	3188	C	ILE	A	423	166.716	176.053	146.931	1.00	39.24	C
ATOM	3189	O	ILE	A	423	166.335	175.570	145.856	1.00	45.17	O
ATOM	3190	CB	ILE	A	423	165.102	176.537	148.820	1.00	31.79	C
ATOM	3191	CG1	ILE	A	423	164.318	175.881	149.959	1.00	33.55	C
ATOM	3192	CG2	ILE	A	423	164.167	177.014	147.716	1.00	34.83	C
ATOM	3193	CD1	ILE	A	423	163.143	175.046	149.497	1.00	40.92	C
ATOM	3194	N	ARG	A	424	167.632	177.024	146.984	1.00	38.94	N
ATOM	3195	CA	ARG	A	424	168.187	177.579	145.752	1.00	35.06	C
ATOM	3196	C	ARG	A	424	168.930	176.516	144.952	1.00	40.66	C
ATOM	3197	O	ARG	A	424	168.731	176.384	143.738	1.00	44.59	O
ATOM	3198	CB	ARG	A	424	169.110	178.754	146.073	1.00	40.87	C
ATOM	3199	CG	ARG	A	424	168.389	180.028	146.478	1.00	41.55	C
ATOM	3200	CD	ARG	A	424	169.250	180.857	147.413	1.00	38.70	C
ATOM	3201	NE	ARG	A	424	170.669	180.633	147.168	1.00	39.09	N
ATOM	3202	CZ	ARG	A	424	171.544	181.589	146.886	1.00	45.07	C
ATOM	3203	NH1	ARG	A	424	171.179	182.858	146.805	1.00	45.83	N
ATOM	3204	NH2	ARG	A	424	172.816	181.263	146.680	1.00	45.98	N
ATOM	3205	N	LEU	A	425	169.784	175.734	145.619	1.00	43.45	N
ATOM	3206	CA	LEU	A	425	170.547	174.713	144.908	1.00	38.63	C
ATOM	3207	C	LEU	A	425	169.658	173.563	144.450	1.00	40.66	C
ATOM	3208	O	LEU	A	425	169.932	172.946	143.414	1.00	44.61	O
ATOM	3209	CB	LEU	A	425	171.685	174.197	145.790	1.00	41.38	C
ATOM	3210	CG	LEU	A	425	173.046	174.892	145.664	1.00	40.13	C
ATOM	3211	CD1	LEU	A	425	172.910	176.407	145.612	1.00	35.14	C
ATOM	3212	CD2	LEU	A	425	173.958	174.482	146.808	1.00	44.64	C
ATOM	3213	N	ILE	A	426	168.596	173.262	145.200	1.00	44.01	N
ATOM	3214	CA	ILE	A	426	167.669	172.205	144.814	1.00	40.09	C

ATOM	3215	C	ILE	A	426	166.901	172.596	143.558	1.00	45.69	C
ATOM	3216	O	ILE	A	426	166.752	171.791	142.631	1.00	47.98	O
ATOM	3217	CB	ILE	A	426	166.723	171.891	145.990	1.00	43.35	C
ATOM	3218	CG1	ILE	A	426	167.366	170.901	146.966	1.00	44.76	C
ATOM	3219	CG2	ILE	A	426	165.396	171.360	145.495	1.00	46.30	C
ATOM	3220	CD1	ILE	A	426	167.805	169.600	146.335	1.00	43.04	C
ATOM	3221	N	TYR	A	427	166.412	173.834	143.497	1.00	47.07	N
ATOM	3222	CA	TYR	A	427	165.576	174.276	142.388	1.00	45.89	C
ATOM	3223	C	TYR	A	427	166.352	175.039	141.320	1.00	48.05	C
ATOM	3224	O	TYR	A	427	165.735	175.637	140.434	1.00	45.98	O
ATOM	3225	CB	TYR	A	427	164.417	175.130	142.907	1.00	47.67	C
ATOM	3226	CG	TYR	A	427	163.221	174.318	143.349	1.00	47.18	C
ATOM	3227	CD1	TYR	A	427	162.253	173.917	142.437	1.00	48.19	C
ATOM	3228	CD2	TYR	A	427	163.059	173.951	144.678	1.00	46.78	C
ATOM	3229	CE1	TYR	A	427	161.158	173.172	142.837	1.00	51.28	C
ATOM	3230	CE2	TYR	A	427	161.968	173.207	145.087	1.00	50.09	C
ATOM	3231	CZ	TYR	A	427	161.021	172.821	144.163	1.00	51.76	C
ATOM	3232	OH	TYR	A	427	159.934	172.081	144.567	1.00	51.75	O
ATOM	3233	N	ALA	A	428	167.685	175.032	141.380	1.00	53.23	N
ATOM	3234	CA	ALA	A	428	168.480	175.670	140.337	1.00	50.39	C
ATOM	3235	C	ALA	A	428	168.375	174.962	138.991	1.00	53.57	C
ATOM	3236	O	ALA	A	428	168.779	175.539	137.977	1.00	54.71	O
ATOM	3237	CB	ALA	A	428	169.946	175.745	140.765	1.00	46.36	C
ATOM	3238	N	GLY	A	429	167.845	173.741	138.955	1.00	64.42	N
ATOM	3239	CA	GLY	A	429	167.662	173.041	137.699	1.00	60.23	C
ATOM	3240	C	GLY	A	429	168.884	172.330	137.165	1.00	61.66	C
ATOM	3241	O	GLY	A	429	168.980	172.108	135.954	1.00	56.95	O
ATOM	3242	N	THR	A	430	169.828	171.965	138.032	1.00	60.54	N
ATOM	3243	CA	THR	A	430	171.026	171.250	137.617	1.00	53.20	C
ATOM	3244	C	THR	A	430	171.320	170.132	138.605	1.00	58.91	C
ATOM	3245	O	THR	A	430	171.258	170.336	139.821	1.00	61.31	O
ATOM	3246	CB	THR	A	430	172.233	172.190	137.514	1.00	52.70	C
ATOM	3247	OG1	THR	A	430	171.813	173.452	136.979	1.00	57.24	O
ATOM	3248	CG2	THR	A	430	173.301	171.594	136.611	1.00	50.36	C
ATOM	3249	N	ILE	A	431	171.636	168.948	138.075	1.00	55.80	N
ATOM	3250	CA	ILE	A	431	171.954	167.809	138.932	1.00	53.10	C
ATOM	3251	C	ILE	A	431	173.284	168.029	139.646	1.00	53.29	C
ATOM	3252	O	ILE	A	431	173.453	167.642	140.811	1.00	57.50	O
ATOM	3253	CB	ILE	A	431	171.949	166.504	138.111	1.00	52.88	C
ATOM	3254	CG1	ILE	A	431	172.468	165.333	138.947	1.00	55.54	C
ATOM	3255	CG2	ILE	A	431	172.772	166.656	136.845	1.00	50.99	C
ATOM	3256	CD1	ILE	A	431	172.478	164.015	138.206	1.00	52.82	C
ATOM	3257	N	TRP	A	432	174.249	168.652	138.964	1.00	42.88	N
ATOM	3258	CA	TRP	A	432	175.529	168.922	139.609	1.00	45.87	C
ATOM	3259	C	TRP	A	432	175.362	169.844	140.808	1.00	51.16	C
ATOM	3260	O	TRP	A	432	176.114	169.733	141.780	1.00	54.56	O
ATOM	3261	CB	TRP	A	432	176.522	169.520	138.611	1.00	48.55	C
ATOM	3262	CG	TRP	A	432	177.752	170.084	139.267	1.00	45.45	C
ATOM	3263	CD1	TRP	A	432	178.172	171.382	139.242	1.00	43.68	C
ATOM	3264	CD2	TRP	A	432	178.709	169.368	140.059	1.00	45.18	C

ATOM	3265	NE1	TRP	A	432	179.335	171.516	139.962	1.00	42.87	N
ATOM	3266	CE2	TRP	A	432	179.685	170.295	140.474	1.00	46.69	C
ATOM	3267	CE3	TRP	A	432	178.836	168.033	140.454	1.00	47.43	C
ATOM	3268	CZ2	TRP	A	432	180.773	169.929	141.264	1.00	43.92	C
ATOM	3269	CZ3	TRP	A	432	179.917	167.673	141.239	1.00	47.90	C
ATOM	3270	CH2	TRP	A	432	180.871	168.617	141.635	1.00	40.65	C
ATOM	3271	N	ASN	A	433	174.368	170.734	140.777	1.00	43.73	N
ATOM	3272	CA	ASN	A	433	174.149	171.631	141.908	1.00	42.82	C
ATOM	3273	C	ASN	A	433	173.734	170.861	143.158	1.00	45.44	C
ATOM	3274	O	ASN	A	433	174.288	171.073	144.243	1.00	49.76	O
ATOM	3275	CB	ASN	A	433	173.105	172.687	141.547	1.00	43.40	C
ATOM	3276	CG	ASN	A	433	173.690	173.820	140.733	1.00	46.24	C
ATOM	3277	OD1	ASN	A	433	174.866	174.154	140.872	1.00	43.08	O
ATOM	3278	ND2	ASN	A	433	172.871	174.423	139.881	1.00	48.37	N
ATOM	3279	N	VAL	A	434	172.763	169.954	143.026	1.00	40.72	N
ATOM	3280	CA	VAL	A	434	172.318	169.193	144.191	1.00	46.07	C
ATOM	3281	C	VAL	A	434	173.406	168.223	144.643	1.00	48.79	C
ATOM	3282	O	VAL	A	434	173.600	168.002	145.849	1.00	54.00	O
ATOM	3283	CB	VAL	A	434	170.983	168.480	143.895	1.00	45.55	C
ATOM	3284	CG1	VAL	A	434	169.947	169.491	143.428	1.00	46.83	C
ATOM	3285	CG2	VAL	A	434	171.150	167.371	142.868	1.00	42.42	C
ATOM	3286	N	VAL	A	435	174.148	167.646	143.692	1.00	37.68	N
ATOM	3287	CA	VAL	A	435	175.248	166.758	144.058	1.00	37.52	C
ATOM	3288	C	VAL	A	435	176.298	167.518	144.858	1.00	42.16	C
ATOM	3289	O	VAL	A	435	176.778	167.037	145.891	1.00	54.04	O
ATOM	3290	CB	VAL	A	435	175.849	166.101	142.801	1.00	37.02	C
ATOM	3291	CG1	VAL	A	435	177.212	165.501	143.110	1.00	36.77	C
ATOM	3292	CG2	VAL	A	435	174.908	165.036	142.262	1.00	39.79	C
ATOM	3293	N	TRP	A	436	176.653	168.725	144.411	1.00	33.87	N
ATOM	3294	CA	TRP	A	436	177.637	169.519	145.136	1.00	37.37	C
ATOM	3295	C	TRP	A	436	177.107	169.985	146.484	1.00	40.46	C
ATOM	3296	O	TRP	A	436	177.883	170.109	147.435	1.00	44.10	O
ATOM	3297	CB	TRP	A	436	178.077	170.720	144.301	1.00	35.72	C
ATOM	3298	CG	TRP	A	436	179.096	171.573	144.996	1.00	36.67	C
ATOM	3299	CD1	TRP	A	436	178.985	172.898	145.296	1.00	39.27	C
ATOM	3300	CD2	TRP	A	436	180.378	171.156	145.486	1.00	40.96	C
ATOM	3301	NE1	TRP	A	436	180.118	173.334	145.940	1.00	42.03	N
ATOM	3302	CE2	TRP	A	436	180.988	172.284	146.068	1.00	39.06	C
ATOM	3303	CE3	TRP	A	436	181.070	169.940	145.486	1.00	42.81	C
ATOM	3304	CZ2	TRP	A	436	182.255	172.232	146.647	1.00	36.19	C
ATOM	3305	CZ3	TRP	A	436	182.327	169.892	146.060	1.00	40.19	C
ATOM	3306	CH2	TRP	A	436	182.906	171.031	146.631	1.00	36.54	C
ATOM	3307	N	LEU	A	437	175.805	170.255	146.591	1.00	41.72	N
ATOM	3308	CA	LEU	A	437	175.232	170.589	147.892	1.00	40.48	C
ATOM	3309	C	LEU	A	437	175.408	169.436	148.873	1.00	41.88	C
ATOM	3310	O	LEU	A	437	175.853	169.630	150.015	1.00	51.96	O
ATOM	3311	CB	LEU	A	437	173.753	170.947	147.734	1.00	38.20	C
ATOM	3312	CG	LEU	A	437	172.905	170.981	149.006	1.00	44.98	C
ATOM	3313	CD1	LEU	A	437	173.038	172.322	149.709	1.00	43.38	C
ATOM	3314	CD2	LEU	A	437	171.448	170.684	148.684	1.00	46.34	C

ATOM	3315	N	LEU	A	438	175.080	168.218	148.431	1.00	33.93	N
ATOM	3316	CA	LEU	A	438	175.269	167.049	149.287	1.00	40.74	C
ATOM	3317	C	LEU	A	438	176.739	166.862	149.646	1.00	40.39	C
ATOM	3318	O	LEU	A	438	177.074	166.572	150.804	1.00	45.21	O
ATOM	3319	CB	LEU	A	438	174.721	165.800	148.597	1.00	40.86	C
ATOM	3320	CG	LEU	A	438	173.228	165.802	148.266	1.00	36.17	C
ATOM	3321	CD1	LEU	A	438	172.867	164.610	147.395	1.00	32.45	C
ATOM	3322	CD2	LEU	A	438	172.398	165.810	149.538	1.00	41.64	C
ATOM	3323	N	LEU	A	439	177.632	167.032	148.666	1.00	32.23	N
ATOM	3324	CA	LEU	A	439	179.059	166.871	148.923	1.00	31.34	C
ATOM	3325	C	LEU	A	439	179.562	167.891	149.935	1.00	34.83	C
ATOM	3326	O	LEU	A	439	180.353	167.553	150.818	1.00	44.59	O
ATOM	3327	CB	LEU	A	439	179.854	166.981	147.621	1.00	35.10	C
ATOM	3328	CG	LEU	A	439	179.610	165.932	146.535	1.00	37.76	C
ATOM	3329	CD1	LEU	A	439	180.693	166.006	145.471	1.00	36.61	C
ATOM	3330	CD2	LEU	A	439	179.539	164.539	147.134	1.00	39.09	C
ATOM	3331	N	CYS	A	440	179.123	169.146	149.819	1.00	36.69	N
ATOM	3332	CA	CYS	A	440	179.568	170.180	150.749	1.00	33.04	C
ATOM	3333	C	CYS	A	440	179.069	169.900	152.161	1.00	36.94	C
ATOM	3334	O	CYS	A	440	179.815	170.057	153.139	1.00	40.90	O
ATOM	3335	CB	CYS	A	440	179.095	171.552	150.269	1.00	34.24	C
ATOM	3336	SG	CYS	A	440	180.097	172.933	150.861	1.00	54.83	S
ATOM	3337	N	ILE	A	441	177.805	169.484	152.289	1.00	32.34	N
ATOM	3338	CA	ILE	A	441	177.273	169.159	153.612	1.00	30.33	C
ATOM	3339	C	ILE	A	441	178.071	168.021	154.239	1.00	35.60	C
ATOM	3340	O	ILE	A	441	178.483	168.090	155.407	1.00	39.14	O
ATOM	3341	CB	ILE	A	441	175.775	168.816	153.520	1.00	32.16	C
ATOM	3342	CG1	ILE	A	441	174.965	170.054	153.132	1.00	38.72	C
ATOM	3343	CG2	ILE	A	441	175.278	168.240	154.835	1.00	34.68	C
ATOM	3344	CD1	ILE	A	441	173.548	169.744	152.698	1.00	37.32	C
ATOM	3345	N	GLN	A	442	178.321	166.964	153.461	1.00	39.40	N
ATOM	3346	CA	GLN	A	442	179.068	165.831	153.995	1.00	35.12	C
ATOM	3347	C	GLN	A	442	180.517	166.194	154.292	1.00	37.37	C
ATOM	3348	O	GLN	A	442	181.100	165.658	155.237	1.00	47.04	O
ATOM	3349	CB	GLN	A	442	178.996	164.649	153.030	1.00	34.20	C
ATOM	3350	CG	GLN	A	442	177.660	163.924	153.054	1.00	38.85	C
ATOM	3351	CD	GLN	A	442	177.207	163.568	154.458	1.00	37.95	C
ATOM	3352	OE1	GLN	A	442	177.992	163.082	155.272	1.00	40.95	O
ATOM	3353	NE2	GLN	A	442	175.934	163.807	154.746	1.00	37.74	N
ATOM	3354	N	ILE	A	443	181.111	167.101	153.515	1.00	34.08	N
ATOM	3355	CA	ILE	A	443	182.484	167.523	153.774	1.00	30.24	C
ATOM	3356	C	ILE	A	443	182.570	168.297	155.083	1.00	31.79	C
ATOM	3357	O	ILE	A	443	183.496	168.096	155.878	1.00	41.22	O
ATOM	3358	CB	ILE	A	443	183.022	168.346	152.588	1.00	31.82	C
ATOM	3359	CG1	ILE	A	443	183.482	167.420	151.461	1.00	30.03	C
ATOM	3360	CG2	ILE	A	443	184.162	169.251	153.026	1.00	37.19	C
ATOM	3361	CD1	ILE	A	443	183.638	168.114	150.128	1.00	30.01	C
ATOM	3362	N	MET	A	444	181.613	169.195	155.329	1.00	31.41	N
ATOM	3363	CA	MET	A	444	181.601	169.914	156.600	1.00	33.71	C
ATOM	3364	C	MET	A	444	181.411	168.955	157.771	1.00	39.54	C

ATOM	3365	O	MET	A	444	182.100	169.062	158.799	1.00	42.09	O
ATOM	3366	CB	MET	A	444	180.506	170.980	156.591	1.00	34.01	C
ATOM	3367	CG	MET	A	444	180.952	172.319	156.030	1.00	41.71	C
ATOM	3368	SD	MET	A	444	182.558	172.842	156.658	1.00	62.88	S
ATOM	3369	CE	MET	A	444	182.066	173.804	158.086	1.00	40.02	C
ATOM	3370	N	SER	A	445	180.486	167.999	157.627	1.00	39.05	N
ATOM	3371	CA	SER	A	445	180.284	167.010	158.681	1.00	33.47	C
ATOM	3372	C	SER	A	445	181.548	166.190	158.917	1.00	32.38	C
ATOM	3373	O	SER	A	445	181.906	165.904	160.065	1.00	35.10	O
ATOM	3374	CB	SER	A	445	179.110	166.098	158.325	1.00	35.93	C
ATOM	3375	OG	SER	A	445	177.894	166.607	158.843	1.00	43.91	O
ATOM	3376	N	LEU	A	446	182.237	165.807	157.840	1.00	27.89	N
ATOM	3377	CA	LEU	A	446	183.463	165.027	157.966	1.00	24.47	C
ATOM	3378	C	LEU	A	446	184.563	165.827	158.648	1.00	25.92	C
ATOM	3379	O	LEU	A	446	185.332	165.276	159.440	1.00	38.36	O
ATOM	3380	CB	LEU	A	446	183.921	164.552	156.588	1.00	28.44	C
ATOM	3381	CG	LEU	A	446	185.030	163.500	156.554	1.00	32.34	C
ATOM	3382	CD1	LEU	A	446	184.784	162.420	157.596	1.00	32.60	C
ATOM	3383	CD2	LEU	A	446	185.148	162.894	155.166	1.00	33.82	C
ATOM	3384	N	PHE	A	447	184.668	167.122	158.341	1.00	34.51	N
ATOM	3385	CA	PHE	A	447	185.660	167.962	159.007	1.00	36.09	C
ATOM	3386	C	PHE	A	447	185.389	168.037	160.505	1.00	38.54	C
ATOM	3387	O	PHE	A	447	186.306	167.893	161.328	1.00	34.56	O
ATOM	3388	CB	PHE	A	447	185.657	169.360	158.389	1.00	35.04	C
ATOM	3389	CG	PHE	A	447	186.710	169.562	157.336	1.00	42.33	C
ATOM	3390	CD1	PHE	A	447	186.941	170.820	156.805	1.00	38.43	C
ATOM	3391	CD2	PHE	A	447	187.466	168.497	156.878	1.00	45.60	C
ATOM	3392	CE1	PHE	A	447	187.907	171.012	155.836	1.00	37.87	C
ATOM	3393	CE2	PHE	A	447	188.433	168.682	155.909	1.00	45.76	C
ATOM	3394	CZ	PHE	A	447	188.654	169.941	155.388	1.00	42.02	C
ATOM	3395	N	LYS	A	448	184.122	168.249	160.876	1.00	43.48	N
ATOM	3396	CA	LYS	A	448	183.773	168.280	162.294	1.00	38.23	C
ATOM	3397	C	LYS	A	448	184.082	166.947	162.967	1.00	38.45	C
ATOM	3398	O	LYS	A	448	184.626	166.912	164.079	1.00	35.42	O
ATOM	3399	CB	LYS	A	448	182.297	168.638	162.465	1.00	38.20	C
ATOM	3400	CG	LYS	A	448	181.952	170.063	162.069	1.00	36.54	C
ATOM	3401	CD	LYS	A	448	180.837	170.623	162.936	1.00	42.24	C
ATOM	3402	CE	LYS	A	448	179.922	171.537	162.137	1.00	43.57	C
ATOM	3403	NZ	LYS	A	448	179.247	170.814	161.024	1.00	42.59	N
ATOM	3404	N	SER	A	449	183.751	165.838	162.300	1.00	38.81	N
ATOM	3405	CA	SER	A	449	183.998	164.518	162.871	1.00	31.32	C
ATOM	3406	C	SER	A	449	185.488	164.244	163.030	1.00	32.25	C
ATOM	3407	O	SER	A	449	185.909	163.648	164.025	1.00	38.57	O
ATOM	3408	CB	SER	A	449	183.346	163.443	162.004	1.00	31.32	C
ATOM	3409	OG	SER	A	449	182.128	163.907	161.451	1.00	39.15	O
ATOM	3410	N	ILE	A	450	186.301	164.656	162.055	1.00	29.97	N
ATOM	3411	CA	ILE	A	450	187.743	164.451	162.149	1.00	27.59	C
ATOM	3412	C	ILE	A	450	188.322	165.256	163.305	1.00	33.97	C
ATOM	3413	O	ILE	A	450	189.165	164.757	164.066	1.00	36.66	O
ATOM	3414	CB	ILE	A	450	188.424	164.800	160.813	1.00	31.02	C

ATOM	3415	CG1	ILE	A	450	188.097	163.744	159.755	1.00	35.79	C
ATOM	3416	CG2	ILE	A	450	189.930	164.920	160.991	1.00	31.75	C
ATOM	3417	CD1	ILE	A	450	188.719	164.022	158.404	1.00	36.54	C
ATOM	3418	N	TYR	A	451	187.887	166.511	163.461	1.00	35.87	N
ATOM	3419	CA	TYR	A	451	188.376	167.292	164.594	1.00	34.26	C
ATOM	3420	C	TYR	A	451	187.959	166.664	165.918	1.00	33.43	C
ATOM	3421	O	TYR	A	451	188.751	166.617	166.867	1.00	27.33	O
ATOM	3422	CB	TYR	A	451	187.884	168.735	164.523	1.00	30.33	C
ATOM	3423	CG	TYR	A	451	188.178	169.487	165.801	1.00	30.74	C
ATOM	3424	CD1	TYR	A	451	189.481	169.827	166.141	1.00	29.20	C
ATOM	3425	CD2	TYR	A	451	187.161	169.826	166.683	1.00	33.29	C
ATOM	3426	CE1	TYR	A	451	189.761	170.501	167.313	1.00	28.80	C
ATOM	3427	CE2	TYR	A	451	187.432	170.499	167.860	1.00	39.63	C
ATOM	3428	CZ	TYR	A	451	188.734	170.833	168.169	1.00	33.91	C
ATOM	3429	OH	TYR	A	451	189.007	171.506	169.337	1.00	28.88	O
ATOM	3430	N	ALA	A	452	186.715	166.185	166.006	1.00	36.40	N
ATOM	3431	CA	ALA	A	452	186.261	165.539	167.234	1.00	28.75	C
ATOM	3432	C	ALA	A	452	187.062	164.275	167.521	1.00	30.76	C
ATOM	3433	O	ALA	A	452	187.403	163.995	168.676	1.00	35.75	O
ATOM	3434	CB	ALA	A	452	184.770	165.219	167.141	1.00	31.13	C
ATOM	3435	N	CYS	A	453	187.364	163.497	166.480	1.00	38.23	N
ATOM	3436	CA	CYS	A	453	188.158	162.286	166.653	1.00	32.75	C
ATOM	3437	C	CYS	A	453	189.555	162.613	167.159	1.00	32.07	C
ATOM	3438	O	CYS	A	453	190.083	161.919	168.036	1.00	31.80	O
ATOM	3439	CB	CYS	A	453	188.230	161.517	165.334	1.00	23.96	C
ATOM	3440	SG	CYS	A	453	189.677	160.450	165.167	1.00	49.62	S
ATOM	3441	N	TRP	A	454	190.176	163.662	166.614	1.00	35.40	N
ATOM	3442	CA	TRP	A	454	191.490	164.058	167.112	1.00	35.32	C
ATOM	3443	C	TRP	A	454	191.414	164.533	168.558	1.00	37.81	C
ATOM	3444	O	TRP	A	454	192.272	164.184	169.378	1.00	37.94	O
ATOM	3445	CB	TRP	A	454	192.096	165.152	166.236	1.00	35.84	C
ATOM	3446	CG	TRP	A	454	193.392	165.670	166.789	1.00	41.41	C
ATOM	3447	CD1	TRP	A	454	194.635	165.145	166.590	1.00	38.31	C
ATOM	3448	CD2	TRP	A	454	193.568	166.795	167.660	1.00	40.44	C
ATOM	3449	NE1	TRP	A	454	195.576	165.881	167.269	1.00	36.64	N
ATOM	3450	CE2	TRP	A	454	194.946	166.899	167.935	1.00	40.61	C
ATOM	3451	CE3	TRP	A	454	192.695	167.728	168.228	1.00	34.75	C
ATOM	3452	CZ2	TRP	A	454	195.470	167.899	168.751	1.00	39.52	C
ATOM	3453	CZ3	TRP	A	454	193.218	168.719	169.038	1.00	37.25	C
ATOM	3454	CH2	TRP	A	454	194.592	168.796	169.292	1.00	36.25	C
ATOM	3455	N	LEU	A	455	190.398	165.335	168.888	1.00	38.64	N
ATOM	3456	CA	LEU	A	455	190.298	165.891	170.234	1.00	31.05	C
ATOM	3457	C	LEU	A	455	190.061	164.801	171.272	1.00	32.60	C
ATOM	3458	O	LEU	A	455	190.684	164.808	172.341	1.00	31.47	O
ATOM	3459	CB	LEU	A	455	189.182	166.934	170.287	1.00	28.79	C
ATOM	3460	CG	LEU	A	455	189.018	167.688	171.607	1.00	33.90	C
ATOM	3461	CD1	LEU	A	455	190.281	168.467	171.939	1.00	29.48	C
ATOM	3462	CD2	LEU	A	455	187.812	168.612	171.549	1.00	35.63	C
ATOM	3463	N	ARG	A	456	189.163	163.860	170.980	1.00	34.24	N
ATOM	3464	CA	ARG	A	456	188.874	162.780	171.913	1.00	29.97	C

ATOM	3465	C	ARG	A	456	189.981	161.736	171.954	1.00	35.51	C
ATOM	3466	O	ARG	A	456	190.129	161.046	172.968	1.00	37.81	O
ATOM	3467	CB	ARG	A	456	187.544	162.115	171.545	1.00	25.42	C
ATOM	3468	CG	ARG	A	456	186.964	161.221	172.626	1.00	31.69	C
ATOM	3469	CD	ARG	A	456	185.756	160.457	172.111	1.00	31.54	C
ATOM	3470	NE	ARG	A	456	184.993	159.843	173.191	1.00	36.83	N
ATOM	3471	CZ	ARG	A	456	183.809	159.266	173.035	1.00	33.75	C
ATOM	3472	NH1	ARG	A	456	183.218	159.209	171.853	1.00	33.09	N
ATOM	3473	NH2	ARG	A	456	183.201	158.737	174.093	1.00	31.75	N
ATOM	3474	N	GLY	A	457	190.756	161.610	170.880	1.00	38.37	N
ATOM	3475	CA	GLY	A	457	191.767	160.581	170.782	1.00	36.78	C
ATOM	3476	C	GLY	A	457	191.239	159.207	170.452	1.00	41.35	C
ATOM	3477	O	GLY	A	457	192.016	158.247	170.448	1.00	49.79	O
ATOM	3478	N	ASN	A	458	189.946	159.079	170.189	1.00	38.85	N
ATOM	3479	CA	ASN	A	458	189.319	157.805	169.879	1.00	36.24	C
ATOM	3480	C	ASN	A	458	188.521	157.933	168.588	1.00	34.01	C
ATOM	3481	O	ASN	A	458	187.958	158.992	168.296	1.00	41.84	O
ATOM	3482	CB	ASN	A	458	188.451	157.361	171.056	1.00	36.26	C
ATOM	3483	CG	ASN	A	458	187.400	156.349	170.671	1.00	45.05	C
ATOM	3484	OD1	ASN	A	458	186.235	156.692	170.535	1.00	42.31	O
ATOM	3485	ND2	ASN	A	458	187.805	155.094	170.500	1.00	45.81	N
ATOM	3486	N	PHE	A	459	188.489	156.853	167.809	1.00	32.84	N
ATOM	3487	CA	PHE	A	459	188.087	156.910	166.408	1.00	32.58	C
ATOM	3488	C	PHE	A	459	186.598	156.724	166.154	1.00	35.51	C
ATOM	3489	O	PHE	A	459	186.193	156.755	164.987	1.00	36.46	O
ATOM	3490	CB	PHE	A	459	188.857	155.866	165.601	1.00	36.55	C
ATOM	3491	CG	PHE	A	459	190.052	156.416	164.897	1.00	36.60	C
ATOM	3492	CD1	PHE	A	459	191.257	156.593	165.553	1.00	41.15	C
ATOM	3493	CD2	PHE	A	459	189.962	156.761	163.562	1.00	36.96	C
ATOM	3494	CE1	PHE	A	459	192.350	157.106	164.882	1.00	45.43	C
ATOM	3495	CE2	PHE	A	459	191.043	157.271	162.889	1.00	36.34	C
ATOM	3496	CZ	PHE	A	459	192.241	157.444	163.547	1.00	42.00	C
ATOM	3497	N	ILE	A	460	185.768	156.529	167.180	1.00	36.56	N
ATOM	3498	CA	ILE	A	460	184.356	156.301	166.904	1.00	37.43	C
ATOM	3499	C	ILE	A	460	183.675	157.590	166.451	1.00	38.48	C
ATOM	3500	O	ILE	A	460	182.597	157.542	165.848	1.00	40.22	O
ATOM	3501	CB	ILE	A	460	183.656	155.702	168.138	1.00	36.71	C
ATOM	3502	CG1	ILE	A	460	182.280	155.148	167.774	1.00	36.65	C
ATOM	3503	CG2	ILE	A	460	183.462	156.763	169.196	1.00	34.22	C
ATOM	3504	CD1	ILE	A	460	182.322	153.839	167.003	1.00	38.43	C
ATOM	3505	N	MET	A	461	184.298	158.747	166.697	1.00	36.93	N
ATOM	3506	CA	MET	A	461	183.698	160.035	166.365	1.00	33.47	C
ATOM	3507	C	MET	A	461	183.628	160.298	164.865	1.00	33.30	C
ATOM	3508	O	MET	A	461	182.997	161.279	164.460	1.00	35.54	O
ATOM	3509	CB	MET	A	461	184.465	161.167	167.054	1.00	29.36	C
ATOM	3510	CG	MET	A	461	184.714	160.935	168.538	1.00	33.81	C
ATOM	3511	SD	MET	A	461	183.246	161.169	169.564	1.00	48.43	S
ATOM	3512	CE	MET	A	461	182.380	162.455	168.667	1.00	30.68	C
ATOM	3513	N	LEU	A	462	184.260	159.463	164.038	1.00	32.06	N
ATOM	3514	CA	LEU	A	462	184.094	159.594	162.594	1.00	29.30	C

ATOM	3515	C	LEU	A	462	182.649	159.357	162.176	1.00	31.50	C
ATOM	3516	O	LEU	A	462	182.222	159.835	161.119	1.00	33.73	O
ATOM	3517	CB	LEU	A	462	185.022	158.621	161.868	1.00	31.41	C
ATOM	3518	CG	LEU	A	462	186.439	159.117	161.583	1.00	30.98	C
ATOM	3519	CD1	LEU	A	462	187.390	157.943	161.445	1.00	31.24	C
ATOM	3520	CD2	LEU	A	462	186.463	159.978	160.333	1.00	30.64	C
ATOM	3521	N	LEU	A	463	181.886	158.624	162.987	1.00	30.89	N
ATOM	3522	CA	LEU	A	463	180.472	158.397	162.721	1.00	24.81	C
ATOM	3523	C	LEU	A	463	179.605	159.607	163.035	1.00	33.16	C
ATOM	3524	O	LEU	A	463	178.407	159.581	162.734	1.00	39.38	O
ATOM	3525	CB	LEU	A	463	179.977	157.187	163.513	1.00	31.14	C
ATOM	3526	CG	LEU	A	463	180.364	155.842	162.902	1.00	34.45	C
ATOM	3527	CD1	LEU	A	463	180.655	154.815	163.977	1.00	34.33	C
ATOM	3528	CD2	LEU	A	463	179.258	155.366	161.984	1.00	33.11	C
ATOM	3529	N	MET	A	464	180.170	160.656	163.637	1.00	33.31	N
ATOM	3530	CA	MET	A	464	179.422	161.894	163.822	1.00	30.93	C
ATOM	3531	C	MET	A	464	179.046	162.529	162.489	1.00	33.66	C
ATOM	3532	O	MET	A	464	178.122	163.348	162.441	1.00	37.15	O
ATOM	3533	CB	MET	A	464	180.233	162.873	164.674	1.00	29.58	C
ATOM	3534	CG	MET	A	464	179.456	164.088	165.155	1.00	32.75	C
ATOM	3535	SD	MET	A	464	178.090	163.668	166.252	1.00	40.13	S
ATOM	3536	CE	MET	A	464	177.169	165.203	166.236	1.00	32.43	C
ATOM	3537	N	SER	A	465	179.732	162.157	161.405	1.00	33.23	N
ATOM	3538	CA	SER	A	465	179.364	162.635	160.078	1.00	28.40	C
ATOM	3539	C	SER	A	465	177.980	162.160	159.659	1.00	33.31	C
ATOM	3540	O	SER	A	465	177.396	162.728	158.730	1.00	40.95	O
ATOM	3541	CB	SER	A	465	180.396	162.176	159.049	1.00	24.50	C
ATOM	3542	OG	SER	A	465	181.702	162.177	159.596	1.00	35.10	O
ATOM	3543	N	LEU	A	466	177.446	161.133	160.317	1.00	30.71	N
ATOM	3544	CA	LEU	A	466	176.132	160.599	159.989	1.00	25.29	C
ATOM	3545	C	LEU	A	466	174.992	161.427	160.562	1.00	33.02	C
ATOM	3546	O	LEU	A	466	173.828	161.127	160.276	1.00	34.69	O
ATOM	3547	CB	LEU	A	466	176.013	159.155	160.483	1.00	34.62	C
ATOM	3548	CG	LEU	A	466	176.893	158.120	159.781	1.00	27.71	C
ATOM	3549	CD1	LEU	A	466	176.357	156.717	160.009	1.00	31.44	C
ATOM	3550	CD2	LEU	A	466	176.982	158.425	158.298	1.00	29.62	C
ATOM	3551	N	TYR	A	467	175.286	162.449	161.367	1.00	34.02	N
ATOM	3552	CA	TYR	A	467	174.228	163.300	161.894	1.00	32.58	C
ATOM	3553	C	TYR	A	467	173.710	164.293	160.864	1.00	37.54	C
ATOM	3554	O	TYR	A	467	172.706	164.964	161.128	1.00	43.79	O
ATOM	3555	CB	TYR	A	467	174.717	164.049	163.135	1.00	36.47	C
ATOM	3556	CG	TYR	A	467	173.684	164.126	164.236	1.00	37.34	C
ATOM	3557	CD1	TYR	A	467	173.564	163.108	165.172	1.00	39.72	C
ATOM	3558	CD2	TYR	A	467	172.820	165.208	164.331	1.00	33.06	C
ATOM	3559	CE1	TYR	A	467	172.620	163.169	166.177	1.00	38.40	C
ATOM	3560	CE2	TYR	A	467	171.871	165.278	165.333	1.00	39.22	C
ATOM	3561	CZ	TYR	A	467	171.776	164.255	166.253	1.00	38.44	C
ATOM	3562	OH	TYR	A	467	170.833	164.317	167.253	1.00	36.80	O
ATOM	3563	N	SER	A	468	174.369	164.408	159.709	1.00	35.06	N
ATOM	3564	CA	SER	A	468	173.905	165.326	158.674	1.00	35.07	C

ATOM	3565	C	SER	A	468	172.544	164.903	158.132	1.00	43.86	C
ATOM	3566	O	SER	A	468	171.663	165.741	157.915	1.00	46.81	O
ATOM	3567	CB	SER	A	468	174.935	165.408	157.548	1.00	37.35	C
ATOM	3568	OG	SER	A	468	175.587	164.165	157.360	1.00	48.92	O
ATOM	3569	N	MET	A	469	172.354	163.601	157.903	1.00	42.52	N
ATOM	3570	CA	MET	A	469	171.076	163.126	157.386	1.00	35.67	C
ATOM	3571	C	MET	A	469	169.965	163.216	158.423	1.00	39.66	C
ATOM	3572	O	MET	A	469	168.788	163.238	158.050	1.00	47.67	O
ATOM	3573	CB	MET	A	469	171.203	161.686	156.884	1.00	40.03	C
ATOM	3574	CG	MET	A	469	171.828	160.724	157.877	1.00	48.25	C
ATOM	3575	SD	MET	A	469	172.612	159.311	157.077	1.00	68.73	S
ATOM	3576	CE	MET	A	469	172.743	158.171	158.451	1.00	46.71	C
ATOM	3577	N	LEU	A	470	170.308	163.263	159.711	1.00	35.40	N
ATOM	3578	CA	LEU	A	470	169.296	163.462	160.742	1.00	35.59	C
ATOM	3579	C	LEU	A	470	168.952	164.937	160.903	1.00	35.50	C
ATOM	3580	O	LEU	A	470	167.789	165.287	161.129	1.00	33.58	O
ATOM	3581	CB	LEU	A	470	169.776	162.880	162.071	1.00	38.53	C
ATOM	3582	CG	LEU	A	470	169.614	161.372	162.267	1.00	43.38	C
ATOM	3583	CD1	LEU	A	470	170.918	160.653	161.966	1.00	42.16	C
ATOM	3584	CD2	LEU	A	470	169.141	161.059	163.677	1.00	37.58	C
ATOM	3585	N	TYR	A	471	169.954	165.813	160.789	1.00	37.67	N
ATOM	3586	CA	TYR	A	471	169.712	167.246	160.919	1.00	38.63	C
ATOM	3587	C	TYR	A	471	168.969	167.799	159.709	1.00	37.76	C
ATOM	3588	O	TYR	A	471	168.070	168.636	159.855	1.00	46.64	O
ATOM	3589	CB	TYR	A	471	171.039	167.978	161.118	1.00	37.51	C
ATOM	3590	CG	TYR	A	471	170.909	169.476	161.278	1.00	43.17	C
ATOM	3591	CD1	TYR	A	471	170.655	170.042	162.520	1.00	45.61	C
ATOM	3592	CD2	TYR	A	471	171.054	170.326	160.189	1.00	35.92	C
ATOM	3593	CE1	TYR	A	471	170.540	171.411	162.671	1.00	41.82	C
ATOM	3594	CE2	TYR	A	471	170.940	171.694	160.330	1.00	34.08	C
ATOM	3595	CZ	TYR	A	471	170.683	172.231	161.573	1.00	42.57	C
ATOM	3596	OH	TYR	A	471	170.570	173.594	161.718	1.00	49.05	O
ATOM	3597	N	MET	A	472	169.329	167.348	158.508	1.00	32.55	N
ATOM	3598	CA	MET	A	472	168.748	167.876	157.281	1.00	29.17	C
ATOM	3599	C	MET	A	472	167.330	167.387	157.024	1.00	36.34	C
ATOM	3600	O	MET	A	472	166.640	167.966	156.178	1.00	41.72	O
ATOM	3601	CB	MET	A	472	169.631	167.510	156.085	1.00	31.32	C
ATOM	3602	CG	MET	A	472	170.879	168.363	155.944	1.00	33.69	C
ATOM	3603	SD	MET	A	472	170.504	170.096	155.623	1.00	45.92	S
ATOM	3604	CE	MET	A	472	171.704	170.901	156.679	1.00	39.04	C
ATOM	3605	N	THR	A	473	166.876	166.348	157.721	1.00	43.30	N
ATOM	3606	CA	THR	A	473	165.569	165.757	157.469	1.00	40.34	C
ATOM	3607	C	THR	A	473	164.533	166.122	158.521	1.00	39.81	C
ATOM	3608	O	THR	A	473	163.433	166.559	158.173	1.00	45.47	O
ATOM	3609	CB	THR	A	473	165.690	164.229	157.374	1.00	35.19	C
ATOM	3610	OG1	THR	A	473	166.574	163.752	158.396	1.00	45.30	O
ATOM	3611	CG2	THR	A	473	166.233	163.824	156.013	1.00	33.69	C
ATOM	3612	N	GLY	A	474	164.848	165.951	159.802	1.00	33.83	N
ATOM	3613	CA	GLY	A	474	163.873	166.206	160.845	1.00	41.81	C
ATOM	3614	C	GLY	A	474	164.094	167.474	161.644	1.00	41.19	C

ATOM	3615	O	GLY	A	474	163.138	168.197	161.946	1.00	47.88	O
ATOM	3616	N	LEU	A	475	165.351	167.756	161.994	1.00	30.53	N
ATOM	3617	CA	LEU	A	475	165.641	168.890	162.867	1.00	35.98	C
ATOM	3618	C	LEU	A	475	165.313	170.217	162.194	1.00	42.40	C
ATOM	3619	O	LEU	A	475	164.773	171.127	162.835	1.00	46.07	O
ATOM	3620	CB	LEU	A	475	167.106	168.855	163.300	1.00	36.75	C
ATOM	3621	CG	LEU	A	475	167.520	167.664	164.167	1.00	41.25	C
ATOM	3622	CD1	LEU	A	475	168.880	167.901	164.801	1.00	37.22	C
ATOM	3623	CD2	LEU	A	475	166.473	167.389	165.233	1.00	41.43	C
ATOM	3624	N	LEU	A	476	165.641	170.354	160.909	1.00	36.59	N
ATOM	3625	CA	LEU	A	476	165.345	171.601	160.207	1.00	34.39	C
ATOM	3626	C	LEU	A	476	163.849	171.885	160.121	1.00	41.37	C
ATOM	3627	O	LEU	A	476	163.440	173.008	160.465	1.00	42.45	O
ATOM	3628	CB	LEU	A	476	166.008	171.581	158.824	1.00	35.24	C
ATOM	3629	CG	LEU	A	476	166.424	172.932	158.242	1.00	36.77	C
ATOM	3630	CD1	LEU	A	476	167.685	173.439	158.919	1.00	35.69	C
ATOM	3631	CD2	LEU	A	476	166.627	172.824	156.740	1.00	36.83	C
ATOM	3632	N	PRO	A	477	162.986	170.958	159.684	1.00	33.25	N
ATOM	3633	CA	PRO	A	477	161.541	171.234	159.760	1.00	32.25	C
ATOM	3634	C	PRO	A	477	161.029	171.388	161.181	1.00	39.41	C
ATOM	3635	O	PRO	A	477	160.082	172.154	161.409	1.00	42.80	O
ATOM	3636	CB	PRO	A	477	160.912	170.019	159.061	1.00	36.43	C
ATOM	3637	CG	PRO	A	477	162.004	169.435	158.246	1.00	37.12	C
ATOM	3638	CD	PRO	A	477	163.246	169.661	159.035	1.00	31.46	C
ATOM	3639	N	SER	A	478	161.618	170.674	162.145	1.00	38.01	N
ATOM	3640	CA	SER	A	478	161.182	170.808	163.530	1.00	38.14	C
ATOM	3641	C	SER	A	478	161.460	172.204	164.069	1.00	42.38	C
ATOM	3642	O	SER	A	478	160.693	172.713	164.893	1.00	46.53	O
ATOM	3643	CB	SER	A	478	161.867	169.755	164.401	1.00	37.97	C
ATOM	3644	OG	SER	A	478	161.073	168.586	164.503	1.00	42.15	O
ATOM	3645	N	LYS	A	479	162.546	172.834	163.619	1.00	36.46	N
ATOM	3646	CA	LYS	A	479	162.833	174.204	164.036	1.00	33.13	C
ATOM	3647	C	LYS	A	479	161.716	175.151	163.611	1.00	35.72	C
ATOM	3648	O	LYS	A	479	161.236	175.964	164.410	1.00	45.14	O
ATOM	3649	CB	LYS	A	479	164.173	174.659	163.458	1.00	31.03	C
ATOM	3650	CG	LYS	A	479	165.383	174.030	164.124	1.00	38.44	C
ATOM	3651	CD	LYS	A	479	166.550	175.001	164.170	1.00	35.77	C
ATOM	3652	CE	LYS	A	479	167.879	174.268	164.148	1.00	38.35	C
ATOM	3653	NZ	LYS	A	479	167.867	173.071	165.032	1.00	41.06	N
ATOM	3654	N	TYR	A	480	161.276	175.047	162.355	1.00	32.89	N
ATOM	3655	CA	TYR	A	480	160.190	175.900	161.882	1.00	34.61	C
ATOM	3656	C	TYR	A	480	158.866	175.547	162.546	1.00	37.00	C
ATOM	3657	O	TYR	A	480	158.051	176.439	162.809	1.00	43.27	O
ATOM	3658	CB	TYR	A	480	160.071	175.807	160.361	1.00	33.81	C
ATOM	3659	CG	TYR	A	480	161.261	176.379	159.626	1.00	39.24	C
ATOM	3660	CD1	TYR	A	480	161.431	177.751	159.503	1.00	39.67	C
ATOM	3661	CD2	TYR	A	480	162.218	175.548	159.059	1.00	39.93	C
ATOM	3662	CE1	TYR	A	480	162.518	178.279	158.834	1.00	34.51	C
ATOM	3663	CE2	TYR	A	480	163.309	176.068	158.389	1.00	36.03	C
ATOM	3664	CZ	TYR	A	480	163.453	177.434	158.280	1.00	35.52	C

ATOM	3665	OH	TYR	A	480	164.535	177.957	157.614	1.00	39.05	O
ATOM	3666	N	PHE	A	481	158.629	174.262	162.822	1.00	38.66	N
ATOM	3667	CA	PHE	A	481	157.414	173.880	163.536	1.00	35.65	C
ATOM	3668	C	PHE	A	481	157.384	174.487	164.933	1.00	43.88	C
ATOM	3669	O	PHE	A	481	156.342	174.979	165.383	1.00	43.60	O
ATOM	3670	CB	PHE	A	481	157.300	172.359	163.612	1.00	39.30	C
ATOM	3671	CG	PHE	A	481	155.976	171.877	164.135	1.00	46.70	C
ATOM	3672	CD1	PHE	A	481	154.795	172.236	163.507	1.00	45.41	C
ATOM	3673	CD2	PHE	A	481	155.913	171.069	165.259	1.00	45.16	C
ATOM	3674	CE1	PHE	A	481	153.577	171.795	163.988	1.00	42.70	C
ATOM	3675	CE2	PHE	A	481	154.697	170.626	165.744	1.00	42.64	C
ATOM	3676	CZ	PHE	A	481	153.528	170.990	165.107	1.00	42.93	C
ATOM	3677	N	ALA	A	482	158.518	174.460	165.634	1.00	46.15	N
ATOM	3678	CA	ALA	A	482	158.592	175.072	166.956	1.00	37.38	C
ATOM	3679	C	ALA	A	482	158.438	176.585	166.873	1.00	37.21	C
ATOM	3680	O	ALA	A	482	157.793	177.197	167.733	1.00	44.68	O
ATOM	3681	CB	ALA	A	482	159.910	174.702	167.633	1.00	31.68	C
ATOM	3682	N	LEU	A	483	159.030	177.207	165.850	1.00	37.85	N
ATOM	3683	CA	LEU	A	483	158.926	178.655	165.705	1.00	34.88	C
ATOM	3684	C	LEU	A	483	157.497	179.100	165.417	1.00	36.64	C
ATOM	3685	O	LEU	A	483	157.045	180.112	165.964	1.00	41.50	O
ATOM	3686	CB	LEU	A	483	159.864	179.138	164.599	1.00	32.00	C
ATOM	3687	CG	LEU	A	483	160.232	180.622	164.614	1.00	35.75	C
ATOM	3688	CD1	LEU	A	483	160.617	181.068	166.015	1.00	38.77	C
ATOM	3689	CD2	LEU	A	483	161.357	180.900	163.633	1.00	35.91	C
ATOM	3690	N	LEU	A	484	156.772	178.364	164.573	1.00	42.52	N
ATOM	3691	CA	LEU	A	484	155.411	178.747	164.214	1.00	41.13	C
ATOM	3692	C	LEU	A	484	154.405	178.493	165.329	1.00	41.01	C
ATOM	3693	O	LEU	A	484	153.330	179.101	165.320	1.00	44.59	O
ATOM	3694	CB	LEU	A	484	154.964	178.003	162.951	1.00	41.02	C
ATOM	3695	CG	LEU	A	484	155.251	178.624	161.579	1.00	42.17	C
ATOM	3696	CD1	LEU	A	484	154.269	179.751	161.292	1.00	42.51	C
ATOM	3697	CD2	LEU	A	484	156.686	179.114	161.453	1.00	40.31	C
ATOM	3698	N	THR	A	485	154.724	177.620	166.282	1.00	43.19	N
ATOM	3699	CA	THR	A	485	153.857	177.310	167.413	1.00	48.56	C
ATOM	3700	C	THR	A	485	154.596	177.538	168.722	1.00	47.77	C
ATOM	3701	O	THR	A	485	154.601	176.684	169.613	1.00	45.43	O
ATOM	3702	CB	THR	A	485	153.330	175.877	167.337	1.00	50.15	C
ATOM	3703	OG1	THR	A	485	154.276	174.985	167.941	1.00	45.54	O
ATOM	3704	CG2	THR	A	485	153.092	175.457	165.893	1.00	44.85	C
ATOM	3705	N	LEU	A	486	155.244	178.699	168.847	1.00	46.10	N
ATOM	3706	CA	LEU	A	486	156.035	178.990	170.038	1.00	44.64	C
ATOM	3707	C	LEU	A	486	155.175	179.044	171.294	1.00	49.89	C
ATOM	3708	O	LEU	A	486	155.625	178.637	172.371	1.00	49.66	O
ATOM	3709	CB	LEU	A	486	156.787	180.309	169.855	1.00	42.77	C
ATOM	3710	CG	LEU	A	486	158.093	180.472	170.636	1.00	49.56	C
ATOM	3711	CD1	LEU	A	486	158.898	179.183	170.619	1.00	49.97	C
ATOM	3712	CD2	LEU	A	486	158.909	181.626	170.077	1.00	46.47	C
ATOM	3713	N	ASN	A	487	153.945	179.539	171.181	1.00	60.06	N
ATOM	3714	CA	ASN	A	487	153.046	179.647	172.321	1.00	56.26	C

ATOM	3715	C	ASN	A	487	152.201	178.398	172.533	1.00	60.47	C
ATOM	3716	O	ASN	A	487	151.459	178.334	173.519	1.00	60.97	O
ATOM	3717	CB	ASN	A	487	152.128	180.863	172.155	1.00	55.37	C
ATOM	3718	CG	ASN	A	487	151.738	181.105	170.711	1.00	60.02	C
ATOM	3719	OD1	ASN	A	487	152.521	181.637	169.925	1.00	61.31	O
ATOM	3720	ND2	ASN	A	487	150.520	180.714	170.354	1.00	60.39	N
ATOM	3721	N	LYS	A	488	152.298	177.415	171.640	1.00	67.71	N
ATOM	3722	CA	LYS	A	488	151.525	176.176	171.726	1.00	66.21	C
ATOM	3723	C	LYS	A	488	150.025	176.448	171.811	1.00	66.74	C
ATOM	3724	O	LYS	A	488	149.532	177.440	171.274	1.00	66.30	O
ATOM	3725	CB	LYS	A	488	151.977	175.339	172.926	1.00	62.85	C
ATOM	3726	CG	LYS	A	488	150.855	174.566	173.602	1.00	62.61	C
ATOM	3727	CD	LYS	A	488	151.313	173.952	174.915	1.00	64.05	C
ATOM	3728	CE	LYS	A	488	151.774	172.517	174.721	1.00	64.18	C
ATOM	3729	NZ	LYS	A	488	151.689	171.733	175.983	1.00	62.18	N
ATOM	3730	N	ASN	A	502	153.691	162.205	169.413	1.00	68.70	N
ATOM	3731	CA	ASN	A	502	152.237	162.300	169.369	1.00	70.43	C
ATOM	3732	C	ASN	A	502	151.717	162.398	167.936	1.00	72.44	C
ATOM	3733	O	ASN	A	502	150.593	162.844	167.704	1.00	70.91	O
ATOM	3734	CB	ASN	A	502	151.756	163.498	170.196	1.00	68.13	C
ATOM	3735	CG	ASN	A	502	152.445	164.796	169.808	1.00	66.32	C
ATOM	3736	OD1	ASN	A	502	152.862	164.980	168.665	1.00	64.45	O
ATOM	3737	ND2	ASN	A	502	152.567	165.705	170.768	1.00	67.75	N
ATOM	3738	N	TYR	A	503	152.552	161.986	166.981	1.00	73.72	N
ATOM	3739	CA	TYR	A	503	152.254	161.912	165.552	1.00	71.54	C
ATOM	3740	C	TYR	A	503	151.964	163.271	164.928	1.00	70.92	C
ATOM	3741	O	TYR	A	503	151.564	163.324	163.759	1.00	68.60	O
ATOM	3742	CB	TYR	A	503	151.080	160.968	165.250	1.00	72.93	C
ATOM	3743	CG	TYR	A	503	151.105	159.693	166.061	1.00	73.85	C
ATOM	3744	CD1	TYR	A	503	152.001	158.676	165.762	1.00	72.49	C
ATOM	3745	CD2	TYR	A	503	150.234	159.508	167.127	1.00	71.86	C
ATOM	3746	CE1	TYR	A	503	152.030	157.509	166.502	1.00	71.67	C
ATOM	3747	CE2	TYR	A	503	150.255	158.346	167.873	1.00	74.58	C
ATOM	3748	CZ	TYR	A	503	151.154	157.350	167.556	1.00	74.64	C
ATOM	3749	OH	TYR	A	503	151.179	156.190	168.295	1.00	70.94	O
ATOM	3750	N	MET	A	504	152.144	164.367	165.659	1.00	69.76	N
ATOM	3751	CA	MET	A	504	151.911	165.705	165.127	1.00	70.38	C
ATOM	3752	C	MET	A	504	153.092	166.216	164.298	1.00	65.28	C
ATOM	3753	O	MET	A	504	152.868	166.810	163.235	1.00	63.54	O
ATOM	3754	CB	MET	A	504	151.592	166.684	166.260	1.00	69.62	C
ATOM	3755	CG	MET	A	504	151.301	168.097	165.786	1.00	68.88	C
ATOM	3756	SD	MET	A	504	150.185	168.113	164.368	1.00	79.77	S
ATOM	3757	CE	MET	A	504	150.230	169.845	163.916	1.00	69.21	C
ATOM	3758	N	PRO	A	505	154.350	166.026	164.720	1.00	59.53	N
ATOM	3759	CA	PRO	A	505	155.472	166.520	163.902	1.00	61.12	C
ATOM	3760	C	PRO	A	505	155.670	165.782	162.586	1.00	60.01	C
ATOM	3761	O	PRO	A	505	156.657	166.056	161.893	1.00	60.11	O
ATOM	3762	CB	PRO	A	505	156.689	166.325	164.822	1.00	61.23	C
ATOM	3763	CG	PRO	A	505	156.125	166.274	166.190	1.00	61.89	C
ATOM	3764	CD	PRO	A	505	154.834	165.547	166.028	1.00	61.34	C

ATOM	3765	N	ILE	A	506	154.785	164.854	162.218	1.00	58.49	N
ATOM	3766	CA	ILE	A	506	154.910	164.180	160.929	1.00	55.64	C
ATOM	3767	C	ILE	A	506	154.680	165.163	159.786	1.00	57.37	C
ATOM	3768	O	ILE	A	506	155.336	165.083	158.740	1.00	57.84	O
ATOM	3769	CB	ILE	A	506	153.943	162.983	160.862	1.00	57.35	C
ATOM	3770	CG1	ILE	A	506	154.439	161.844	161.755	1.00	57.27	C
ATOM	3771	CG2	ILE	A	506	153.780	162.490	159.431	1.00	55.77	C
ATOM	3772	CD1	ILE	A	506	155.921	161.563	161.626	1.00	54.60	C
ATOM	3773	N	LEU	A	507	153.758	166.110	159.970	1.00	58.78	N
ATOM	3774	CA	LEU	A	507	153.409	167.035	158.892	1.00	58.26	C
ATOM	3775	C	LEU	A	507	154.585	167.877	158.410	1.00	56.43	C
ATOM	3776	O	LEU	A	507	154.767	167.990	157.185	1.00	54.14	O
ATOM	3777	CB	LEU	A	507	152.234	167.914	159.335	1.00	54.79	C
ATOM	3778	CG	LEU	A	507	150.895	167.199	159.526	1.00	57.48	C
ATOM	3779	CD1	LEU	A	507	149.885	168.117	160.196	1.00	58.23	C
ATOM	3780	CD2	LEU	A	507	150.364	166.691	158.195	1.00	55.13	C
ATOM	3781	N	PRO	A	508	155.396	168.508	159.276	1.00	50.31	N
ATOM	3782	CA	PRO	A	508	156.581	169.213	158.753	1.00	47.39	C
ATOM	3783	C	PRO	A	508	157.519	168.304	157.979	1.00	46.29	C
ATOM	3784	O	PRO	A	508	158.078	168.717	156.953	1.00	47.20	O
ATOM	3785	CB	PRO	A	508	157.244	169.771	160.019	1.00	45.34	C
ATOM	3786	CG	PRO	A	508	156.143	169.879	161.004	1.00	47.65	C
ATOM	3787	CD	PRO	A	508	155.240	168.718	160.727	1.00	48.14	C
ATOM	3788	N	LEU	A	509	157.696	167.064	158.443	1.00	49.49	N
ATOM	3789	CA	LEU	A	509	158.510	166.104	157.707	1.00	48.11	C
ATOM	3790	C	LEU	A	509	157.921	165.833	156.330	1.00	45.06	C
ATOM	3791	O	LEU	A	509	158.653	165.772	155.335	1.00	45.46	O
ATOM	3792	CB	LEU	A	509	158.630	164.803	158.500	1.00	47.57	C
ATOM	3793	CG	LEU	A	509	159.642	164.763	159.645	1.00	46.25	C
ATOM	3794	CD1	LEU	A	509	159.316	163.625	160.595	1.00	49.48	C
ATOM	3795	CD2	LEU	A	509	161.047	164.613	159.099	1.00	43.19	C
ATOM	3796	N	SER	A	510	156.598	165.669	156.255	1.00	42.72	N
ATOM	3797	CA	SER	A	510	155.952	165.419	154.971	1.00	41.62	C
ATOM	3798	C	SER	A	510	156.132	166.596	154.022	1.00	47.84	C
ATOM	3799	O	SER	A	510	156.428	166.405	152.837	1.00	48.39	O
ATOM	3800	CB	SER	A	510	154.468	165.122	155.182	1.00	46.91	C
ATOM	3801	OG	SER	A	510	153.765	165.135	153.952	1.00	54.14	O
ATOM	3802	N	ILE	A	511	155.965	167.822	154.525	1.00	51.82	N
ATOM	3803	CA	ILE	A	511	156.114	169.000	153.673	1.00	48.22	C
ATOM	3804	C	ILE	A	511	157.547	169.120	153.170	1.00	46.13	C
ATOM	3805	O	ILE	A	511	157.786	169.379	151.982	1.00	52.46	O
ATOM	3806	CB	ILE	A	511	155.670	170.269	154.425	1.00	48.18	C
ATOM	3807	CG1	ILE	A	511	154.228	170.127	154.914	1.00	46.62	C
ATOM	3808	CG2	ILE	A	511	155.814	171.494	153.537	1.00	45.94	C
ATOM	3809	CD1	ILE	A	511	153.220	169.939	153.802	1.00	49.95	C
ATOM	3810	N	TRP	A	512	158.523	168.931	154.063	1.00	39.79	N
ATOM	3811	CA	TRP	A	512	159.922	169.023	153.658	1.00	38.22	C
ATOM	3812	C	TRP	A	512	160.273	167.951	152.634	1.00	40.57	C
ATOM	3813	O	TRP	A	512	160.957	168.229	151.641	1.00	41.31	O
ATOM	3814	CB	TRP	A	512	160.826	168.911	154.886	1.00	41.08	C

ATOM	3815	CG	TRP	A	512	162.252	169.316	154.652	1.00	41.32	C
ATOM	3816	CD1	TRP	A	512	163.365	168.569	154.911	1.00	39.24	C
ATOM	3817	CD2	TRP	A	512	162.722	170.569	154.138	1.00	40.76	C
ATOM	3818	NE1	TRP	A	512	164.496	169.273	154.578	1.00	38.72	N
ATOM	3819	CE2	TRP	A	512	164.129	170.504	154.103	1.00	40.90	C
ATOM	3820	CE3	TRP	A	512	162.090	171.737	153.699	1.00	40.73	C
ATOM	3821	CZ2	TRP	A	512	164.914	171.561	153.646	1.00	41.04	C
ATOM	3822	CZ3	TRP	A	512	162.872	172.784	153.246	1.00	44.41	C
ATOM	3823	CH2	TRP	A	512	164.268	172.689	153.223	1.00	40.66	C
ATOM	3824	N	ALA	A	513	159.806	166.718	152.855	1.00	49.51	N
ATOM	3825	CA	ALA	A	513	160.091	165.638	151.918	1.00	50.99	C
ATOM	3826	C	ALA	A	513	159.448	165.898	150.563	1.00	50.76	C
ATOM	3827	O	ALA	A	513	160.061	165.642	149.521	1.00	48.15	O
ATOM	3828	CB	ALA	A	513	159.614	164.305	152.493	1.00	51.04	C
ATOM	3829	N	ALA	A	514	158.210	166.399	150.555	1.00	52.56	N
ATOM	3830	CA	ALA	A	514	157.550	166.710	149.292	1.00	52.57	C
ATOM	3831	C	ALA	A	514	158.297	167.800	148.536	1.00	51.61	C
ATOM	3832	O	ALA	A	514	158.504	167.691	147.321	1.00	55.13	O
ATOM	3833	CB	ALA	A	514	156.101	167.125	149.543	1.00	50.00	C
ATOM	3834	N	VAL	A	515	158.719	168.853	149.240	1.00	46.56	N
ATOM	3835	CA	VAL	A	515	159.458	169.934	148.591	1.00	48.42	C
ATOM	3836	C	VAL	A	515	160.763	169.407	148.006	1.00	53.03	C
ATOM	3837	O	VAL	A	515	161.110	169.693	146.852	1.00	52.87	O
ATOM	3838	CB	VAL	A	515	159.707	171.084	149.583	1.00	46.90	C
ATOM	3839	CG1	VAL	A	515	160.828	171.985	149.088	1.00	44.26	C
ATOM	3840	CG2	VAL	A	515	158.431	171.881	149.801	1.00	48.37	C
ATOM	3841	N	LEU	A	516	161.500	168.616	148.792	1.00	51.44	N
ATOM	3842	CA	LEU	A	516	162.777	168.090	148.323	1.00	48.87	C
ATOM	3843	C	LEU	A	516	162.594	167.174	147.119	1.00	53.19	C
ATOM	3844	O	LEU	A	516	163.342	167.270	146.140	1.00	56.63	O
ATOM	3845	CB	LEU	A	516	163.486	167.350	149.457	1.00	49.89	C
ATOM	3846	CG	LEU	A	516	164.257	168.207	150.462	1.00	49.60	C
ATOM	3847	CD1	LEU	A	516	165.117	167.333	151.359	1.00	46.56	C
ATOM	3848	CD2	LEU	A	516	165.107	169.245	149.746	1.00	50.31	C
ATOM	3849	N	CYS	A	517	161.608	166.275	147.174	1.00	59.73	N
ATOM	3850	CA	CYS	A	517	161.383	165.353	146.067	1.00	58.76	C
ATOM	3851	C	CYS	A	517	160.967	166.095	144.806	1.00	60.65	C
ATOM	3852	O	CYS	A	517	161.452	165.785	143.710	1.00	61.09	O
ATOM	3853	CB	CYS	A	517	160.329	164.316	146.454	1.00	58.82	C
ATOM	3854	SG	CYS	A	517	160.934	163.020	147.559	1.00	72.79	S
ATOM	3855	N	GLY	A	518	160.076	167.081	144.937	1.00	52.13	N
ATOM	3856	CA	GLY	A	518	159.699	167.877	143.783	1.00	49.51	C
ATOM	3857	C	GLY	A	518	160.876	168.618	143.183	1.00	53.85	C
ATOM	3858	O	GLY	A	518	161.023	168.682	141.960	1.00	59.65	O
ATOM	3859	N	GLY	A	519	161.739	169.178	144.034	1.00	49.72	N
ATOM	3860	CA	GLY	A	519	162.907	169.878	143.527	1.00	49.23	C
ATOM	3861	C	GLY	A	519	163.880	168.965	142.805	1.00	50.10	C
ATOM	3862	O	GLY	A	519	164.387	169.308	141.733	1.00	53.61	O
ATOM	3863	N	VAL	A	520	164.159	167.793	143.383	1.00	49.67	N
ATOM	3864	CA	VAL	A	520	165.067	166.849	142.733	1.00	50.09	C

ATOM	3865	C	VAL	A	520	164.485	166.371	141.409	1.00	54.04	C
ATOM	3866	O	VAL	A	520	165.199	166.270	140.403	1.00	56.05	O
ATOM	3867	CB	VAL	A	520	165.398	165.671	143.667	1.00	52.40	C
ATOM	3868	CG1	VAL	A	520	166.433	164.769	143.022	1.00	53.23	C
ATOM	3869	CG2	VAL	A	520	165.939	166.182	144.986	1.00	57.47	C
ATOM	3870	N	GLY	A	521	163.185	166.067	141.382	1.00	55.19	N
ATOM	3871	CA	GLY	A	521	162.551	165.682	140.135	1.00	59.55	C
ATOM	3872	C	GLY	A	521	162.584	166.765	139.078	1.00	59.64	C
ATOM	3873	O	GLY	A	521	162.856	166.471	137.909	1.00	58.92	O
ATOM	3874	N	TYR	A	522	162.328	168.017	139.466	1.00	60.18	N
ATOM	3875	CA	TYR	A	522	162.403	169.130	138.526	1.00	56.80	C
ATOM	3876	C	TYR	A	522	163.815	169.302	137.981	1.00	60.56	C
ATOM	3877	O	TYR	A	522	164.000	169.522	136.779	1.00	68.21	O
ATOM	3878	CB	TYR	A	522	161.925	170.418	139.201	1.00	55.17	C
ATOM	3879	CG	TYR	A	522	162.330	171.682	138.476	1.00	60.37	C
ATOM	3880	CD1	TYR	A	522	161.619	172.132	137.372	1.00	59.91	C
ATOM	3881	CD2	TYR	A	522	163.420	172.431	138.902	1.00	62.28	C
ATOM	3882	CE1	TYR	A	522	161.985	173.288	136.710	1.00	59.74	C
ATOM	3883	CE2	TYR	A	522	163.795	173.586	138.245	1.00	61.93	C
ATOM	3884	CZ	TYR	A	522	163.074	174.010	137.150	1.00	61.71	C
ATOM	3885	OH	TYR	A	522	163.445	175.161	136.495	1.00	65.49	O
ATOM	3886	N	SER	A	523	164.823	169.215	138.852	1.00	58.51	N
ATOM	3887	CA	SER	A	523	166.202	169.352	138.394	1.00	58.08	C
ATOM	3888	C	SER	A	523	166.584	168.223	137.445	1.00	60.94	C
ATOM	3889	O	SER	A	523	167.231	168.459	136.416	1.00	65.44	O
ATOM	3890	CB	SER	A	523	167.154	169.395	139.590	1.00	58.44	C
ATOM	3891	OG	SER	A	523	168.442	168.932	139.226	1.00	59.50	O
ATOM	3892	N	ILE	A	524	166.189	166.990	137.769	1.00	61.62	N
ATOM	3893	CA	ILE	A	524	166.509	165.856	136.907	1.00	64.67	C
ATOM	3894	C	ILE	A	524	165.829	166.011	135.551	1.00	61.25	C
ATOM	3895	O	ILE	A	524	166.438	165.766	134.504	1.00	63.99	O
ATOM	3896	CB	ILE	A	524	166.131	164.532	137.597	1.00	64.87	C
ATOM	3897	CG1	ILE	A	524	167.241	164.103	138.561	1.00	63.20	C
ATOM	3898	CG2	ILE	A	524	165.879	163.437	136.574	1.00	58.70	C
ATOM	3899	CD1	ILE	A	524	166.768	163.226	139.699	1.00	62.62	C
ATOM	3900	N	TYR	A	525	164.565	166.441	135.546	1.00	65.77	N
ATOM	3901	CA	TYR	A	525	163.848	166.666	134.293	1.00	68.84	C
ATOM	3902	C	TYR	A	525	164.514	167.755	133.452	1.00	70.07	C
ATOM	3903	O	TYR	A	525	164.759	167.577	132.248	1.00	71.50	O
ATOM	3904	CB	TYR	A	525	162.394	167.024	134.615	1.00	69.06	C
ATOM	3905	CG	TYR	A	525	161.540	167.390	133.427	1.00	69.81	C
ATOM	3906	CD1	TYR	A	525	161.064	166.415	132.562	1.00	69.83	C
ATOM	3907	CD2	TYR	A	525	161.180	168.709	133.190	1.00	69.13	C
ATOM	3908	CE1	TYR	A	525	160.275	166.746	131.479	1.00	69.47	C
ATOM	3909	CE2	TYR	A	525	160.389	169.051	132.112	1.00	70.95	C
ATOM	3910	CZ	TYR	A	525	159.939	168.066	131.260	1.00	70.16	C
ATOM	3911	OH	TYR	A	525	159.151	168.403	130.185	1.00	67.97	O
ATOM	3912	N	MET	A	526	164.835	168.888	134.082	1.00	71.64	N
ATOM	3913	CA	MET	A	526	165.402	170.019	133.359	1.00	70.30	C
ATOM	3914	C	MET	A	526	166.813	169.751	132.859	1.00	71.67	C

ATOM	3915	O	MET	A	526	167.213	170.330	131.843	1.00	73.20	O
ATOM	3916	CB	MET	A	526	165.391	171.268	134.237	1.00	71.16	C
ATOM	3917	CG	MET	A	526	164.090	172.042	134.163	1.00	73.18	C
ATOM	3918	SD	MET	A	526	164.035	173.148	132.739	1.00	82.71	S
ATOM	3919	CE	MET	A	526	165.638	173.938	132.850	1.00	73.44	C
ATOM	3920	N	ASP	A	527	167.584	168.910	133.545	1.00	70.47	N
ATOM	3921	CA	ASP	A	527	168.877	168.522	133.003	1.00	72.91	C
ATOM	3922	C	ASP	A	527	168.778	167.365	132.018	1.00	76.20	C
ATOM	3923	O	ASP	A	527	169.695	167.179	131.210	1.00	76.78	O
ATOM	3924	CB	ASP	A	527	169.849	168.176	134.135	1.00	74.41	C
ATOM	3925	CG	ASP	A	527	170.797	169.319	134.446	1.00	75.38	C
ATOM	3926	OD1	ASP	A	527	170.586	170.421	133.898	1.00	74.24	O
ATOM	3927	OD2	ASP	A	527	171.751	169.122	135.223	1.00	75.64	O
ATOM	3928	N	CYS	A	528	167.693	166.590	132.060	1.00	77.16	N
ATOM	3929	CA	CYS	A	528	167.468	165.581	131.034	1.00	74.92	C
ATOM	3930	C	CYS	A	528	167.155	166.239	129.702	1.00	75.26	C
ATOM	3931	O	CYS	A	528	167.589	165.766	128.645	1.00	73.80	O
ATOM	3932	CB	CYS	A	528	166.339	164.645	131.460	1.00	73.93	C
ATOM	3933	SG	CYS	A	528	166.891	163.265	132.493	1.00	77.42	S
ATOM	3934	N	GLN	A	529	166.402	167.334	129.730	1.00	80.78	N
ATOM	3935	CA	GLN	A	529	166.175	168.102	128.509	1.00	78.95	C
ATOM	3936	C	GLN	A	529	167.308	169.131	128.406	1.00	80.08	C
ATOM	3937	O	GLN	A	529	167.287	170.223	128.975	1.00	78.82	O
ATOM	3938	CB	GLN	A	529	164.732	168.634	128.505	1.00	79.96	C
ATOM	3939	CG	GLN	A	529	164.268	169.790	129.417	1.00	81.04	C
ATOM	3940	CD	GLN	A	529	164.722	171.153	128.973	1.00	81.84	C
ATOM	3941	OE1	GLN	A	529	165.245	171.328	127.873	1.00	82.80	O
ATOM	3942	NE2	GLN	A	529	164.511	172.148	129.830	1.00	79.89	N
ATOM	3943	N	ASN	A	530	168.391	168.704	127.755	1.00	85.69	N
ATOM	3944	CA	ASN	A	530	169.577	169.515	127.474	1.00	87.82	C
ATOM	3945	C	ASN	A	530	170.486	168.742	126.529	1.00	87.55	C
ATOM	3946	O	ASN	A	530	170.292	167.547	126.292	1.00	87.20	O
ATOM	3947	CB	ASN	A	530	170.344	169.915	128.742	1.00	89.07	C
ATOM	3948	CG	ASN	A	530	170.983	171.287	128.628	1.00	88.34	C
ATOM	3949	OD1	ASN	A	530	171.792	171.529	127.740	1.00	85.70	O
ATOM	3950	ND2	ASN	A	530	170.669	172.171	129.576	1.00	88.85	N
ATOM	3951	N	ASP	A	531	171.487	169.442	125.997	1.00	86.36	N
ATOM	3952	CA	ASP	A	531	172.522	168.844	125.159	1.00	86.46	C
ATOM	3953	C	ASP	A	531	173.816	168.807	125.959	1.00	85.42	C
ATOM	3954	O	ASP	A	531	174.389	169.852	126.279	1.00	85.39	O
ATOM	3955	CB	ASP	A	531	172.710	169.619	123.857	1.00	84.91	C
ATOM	3956	CG	ASP	A	531	172.130	168.898	122.649	1.00	85.75	C
ATOM	3957	OD1	ASP	A	531	171.973	167.662	122.694	1.00	86.48	O
ATOM	3958	OD2	ASP	A	531	171.836	169.577	121.642	1.00	84.81	O
ATOM	3959	N	TRP	A	532	174.265	167.603	126.293	1.00	77.53	N
ATOM	3960	CA	TRP	A	532	175.507	167.417	127.023	1.00	77.61	C
ATOM	3961	C	TRP	A	532	176.722	167.314	126.111	1.00	80.02	C
ATOM	3962	O	TRP	A	532	177.824	167.075	126.610	1.00	79.03	O
ATOM	3963	CB	TRP	A	532	175.421	166.179	127.917	1.00	75.37	C
ATOM	3964	CG	TRP	A	532	174.554	166.371	129.120	1.00	75.83	C

ATOM	3965	CD1	TRP	A	532	173.209	166.593	129.129	1.00	77.62	C
ATOM	3966	CD2	TRP	A	532	174.969	166.359	130.495	1.00	76.09	C
ATOM	3967	NE1	TRP	A	532	172.759	166.722	130.419	1.00	77.80	N
ATOM	3968	CE2	TRP	A	532	173.819	166.582	131.277	1.00	77.85	C
ATOM	3969	CE3	TRP	A	532	176.198	166.182	131.139	1.00	77.03	C
ATOM	3970	CZ2	TRP	A	532	173.859	166.632	132.669	1.00	78.04	C
ATOM	3971	CZ3	TRP	A	532	176.236	166.233	132.527	1.00	79.59	C
ATOM	3972	CH2	TRP	A	532	175.072	166.456	133.274	1.00	80.49	C
ATOM	3973	N	SER	A	533	176.553	167.493	124.796	1.00	84.57	N
ATOM	3974	CA	SER	A	533	177.692	167.459	123.882	1.00	82.90	C
ATOM	3975	C	SER	A	533	178.571	168.699	123.996	1.00	83.86	C
ATOM	3976	O	SER	A	533	179.706	168.688	123.505	1.00	82.84	O
ATOM	3977	CB	SER	A	533	177.204	167.299	122.439	1.00	81.62	C
ATOM	3978	OG	SER	A	533	176.396	168.396	122.048	1.00	81.74	O
ATOM	3979	N	THR	A	534	178.072	169.759	124.624	1.00	82.66	N
ATOM	3980	CA	THR	A	534	178.861	170.963	124.816	1.00	81.65	C
ATOM	3981	C	THR	A	534	180.009	170.688	125.788	1.00	83.19	C
ATOM	3982	O	THR	A	534	179.891	169.838	126.674	1.00	83.68	O
ATOM	3983	CB	THR	A	534	177.981	172.093	125.347	1.00	81.36	C
ATOM	3984	OG1	THR	A	534	177.251	171.635	126.491	1.00	84.38	O
ATOM	3985	CG2	THR	A	534	176.995	172.544	124.279	1.00	79.52	C
ATOM	3986	N	PRO	A	535	181.136	171.393	125.642	1.00	80.42	N
ATOM	3987	CA	PRO	A	535	182.292	171.110	126.508	1.00	81.45	C
ATOM	3988	C	PRO	A	535	182.138	171.623	127.930	1.00	80.72	C
ATOM	3989	O	PRO	A	535	182.988	171.308	128.772	1.00	81.28	O
ATOM	3990	CB	PRO	A	535	183.457	171.801	125.787	1.00	78.68	C
ATOM	3991	CG	PRO	A	535	182.840	172.760	124.816	1.00	79.74	C
ATOM	3992	CD	PRO	A	535	181.357	172.566	124.780	1.00	78.90	C
ATOM	3993	N	GLU	A	536	181.094	172.398	128.229	1.00	80.24	N
ATOM	3994	CA	GLU	A	536	180.850	172.799	129.611	1.00	80.45	C
ATOM	3995	C	GLU	A	536	180.125	171.703	130.383	1.00	79.73	C
ATOM	3996	O	GLU	A	536	180.515	171.366	131.508	1.00	82.32	O
ATOM	3997	CB	GLU	A	536	180.050	174.102	129.648	1.00	77.35	C
ATOM	3998	CG	GLU	A	536	179.762	174.651	131.047	1.00	79.77	C
ATOM	3999	CD	GLU	A	536	181.016	174.885	131.876	1.00	82.37	C
ATOM	4000	OE1	GLU	A	536	181.588	173.907	132.403	1.00	82.63	O
ATOM	4001	OE2	GLU	A	536	181.430	176.057	132.002	1.00	80.47	O
ATOM	4002	N	LYS	A	537	179.084	171.123	129.790	1.00	70.66	N
ATOM	4003	CA	LYS	A	537	178.395	170.000	130.409	1.00	71.23	C
ATOM	4004	C	LYS	A	537	179.252	168.741	130.451	1.00	71.76	C
ATOM	4005	O	LYS	A	537	178.949	167.832	131.231	1.00	73.93	O
ATOM	4006	CB	LYS	A	537	177.084	169.714	129.672	1.00	71.83	C
ATOM	4007	CG	LYS	A	537	176.227	170.946	129.425	1.00	72.02	C
ATOM	4008	CD	LYS	A	537	175.434	171.337	130.659	1.00	71.16	C
ATOM	4009	CE	LYS	A	537	174.398	170.285	131.012	1.00	72.05	C
ATOM	4010	NZ	LYS	A	537	173.752	170.567	132.323	1.00	74.76	N
ATOM	4011	N	GLN	A	538	180.312	168.672	129.644	1.00	70.81	N
ATOM	4012	CA	GLN	A	538	181.277	167.587	129.741	1.00	74.87	C
ATOM	4013	C	GLN	A	538	182.189	167.720	130.950	1.00	74.78	C
ATOM	4014	O	GLN	A	538	182.486	166.713	131.600	1.00	76.36	O

ATOM	4015	CB	GLN	A	538	182.132	167.516	128.471	1.00	73.69	C
ATOM	4016	CG	GLN	A	538	182.656	166.125	128.153	1.00	74.25	C
ATOM	4017	CD	GLN	A	538	181.704	165.317	127.295	1.00	75.04	C
ATOM	4018	OE1	GLN	A	538	180.498	165.559	127.287	1.00	76.50	O
ATOM	4019	NE2	GLN	A	538	182.246	164.350	126.564	1.00	76.13	N
ATOM	4020	N	LYS	A	539	182.634	168.934	131.271	1.00	68.78	N
ATOM	4021	CA	LYS	A	539	183.330	169.143	132.534	1.00	68.89	C
ATOM	4022	C	LYS	A	539	182.382	168.944	133.711	1.00	70.47	C
ATOM	4023	O	LYS	A	539	182.777	168.403	134.752	1.00	71.22	O
ATOM	4024	CB	LYS	A	539	183.967	170.534	132.552	1.00	62.85	C
ATOM	4025	CG	LYS	A	539	184.817	170.833	133.774	1.00	66.17	C
ATOM	4026	CD	LYS	A	539	185.774	171.984	133.492	1.00	67.53	C
ATOM	4027	CE	LYS	A	539	185.089	173.334	133.604	1.00	69.93	C
ATOM	4028	NZ	LYS	A	539	186.015	174.452	133.268	1.00	68.87	N
ATOM	4029	N	GLU	A	540	181.118	169.349	133.550	1.00	69.52	N
ATOM	4030	CA	GLU	A	540	180.106	169.000	134.541	1.00	63.81	C
ATOM	4031	C	GLU	A	540	179.988	167.488	134.699	1.00	66.92	C
ATOM	4032	O	GLU	A	540	179.812	166.988	135.813	1.00	70.11	O
ATOM	4033	CB	GLU	A	540	178.751	169.598	134.161	1.00	63.01	C
ATOM	4034	CG	GLU	A	540	178.634	171.089	134.403	1.00	65.39	C
ATOM	4035	CD	GLU	A	540	177.196	171.541	134.556	1.00	68.63	C
ATOM	4036	OE1	GLU	A	540	176.358	171.161	133.714	1.00	71.58	O
ATOM	4037	OE2	GLU	A	540	176.903	172.274	135.524	1.00	69.04	O
ATOM	4038	N	MET	A	541	180.095	166.743	133.596	1.00	70.61	N
ATOM	4039	CA	MET	A	541	179.997	165.286	133.669	1.00	70.26	C
ATOM	4040	C	MET	A	541	181.212	164.678	134.362	1.00	69.80	C
ATOM	4041	O	MET	A	541	181.078	163.742	135.163	1.00	69.12	O
ATOM	4042	CB	MET	A	541	179.837	164.705	132.265	1.00	70.24	C
ATOM	4043	CG	MET	A	541	178.894	163.520	132.178	1.00	70.08	C
ATOM	4044	SD	MET	A	541	179.082	162.628	130.623	1.00	80.13	S
ATOM	4045	CE	MET	A	541	180.864	162.455	130.553	1.00	71.91	C
ATOM	4046	N	TYR	A	542	182.405	165.177	134.045	1.00	65.00	N
ATOM	4047	CA	TYR	A	542	183.638	164.716	134.671	1.00	66.02	C
ATOM	4048	C	TYR	A	542	183.739	165.118	136.136	1.00	69.61	C
ATOM	4049	O	TYR	A	542	184.537	164.530	136.871	1.00	71.84	O
ATOM	4050	CB	TYR	A	542	184.854	165.240	133.902	1.00	66.69	C
ATOM	4051	CG	TYR	A	542	185.212	164.415	132.686	1.00	74.48	C
ATOM	4052	CD1	TYR	A	542	185.658	163.106	132.819	1.00	71.98	C
ATOM	4053	CD2	TYR	A	542	185.107	164.943	131.406	1.00	74.75	C
ATOM	4054	CE1	TYR	A	542	185.988	162.347	131.712	1.00	70.53	C
ATOM	4055	CE2	TYR	A	542	185.434	164.191	130.293	1.00	72.94	C
ATOM	4056	CZ	TYR	A	542	185.874	162.894	130.452	1.00	72.83	C
ATOM	4057	OH	TYR	A	542	186.202	162.142	129.347	1.00	69.70	O
ATOM	4058	N	HIS	A	543	182.959	166.101	136.570	1.00	61.06	N
ATOM	4059	CA	HIS	A	543	182.777	166.351	137.995	1.00	54.66	C
ATOM	4060	C	HIS	A	543	181.720	165.455	138.616	1.00	52.94	C
ATOM	4061	O	HIS	A	543	181.907	164.972	139.736	1.00	52.82	O
ATOM	4062	CB	HIS	A	543	182.398	167.819	138.240	1.00	53.85	C
ATOM	4063	CG	HIS	A	543	183.566	168.755	138.248	1.00	54.20	C
ATOM	4064	ND1	HIS	A	543	184.443	168.863	137.191	1.00	56.91	N

ATOM	4065	CD2	HIS	A	543	184.001	169.626	139.188	1.00	55.31	C
ATOM	4066	CE1	HIS	A	543	185.368	169.761	137.479	1.00	54.32	C
ATOM	4067	NE2	HIS	A	543	185.122	170.239	138.685	1.00	52.09	N
ATOM	4068	N	LEU	A	544	180.616	165.218	137.903	1.00	54.54	N
ATOM	4069	CA	LEU	A	544	179.522	164.408	138.427	1.00	54.00	C
ATOM	4070	C	LEU	A	544	179.970	162.979	138.694	1.00	56.20	C
ATOM	4071	O	LEU	A	544	179.648	162.402	139.738	1.00	55.40	O
ATOM	4072	CB	LEU	A	544	178.354	164.421	137.442	1.00	54.69	C
ATOM	4073	CG	LEU	A	544	177.174	165.352	137.715	1.00	54.55	C
ATOM	4074	CD1	LEU	A	544	175.956	164.879	136.944	1.00	56.06	C
ATOM	4075	CD2	LEU	A	544	176.875	165.406	139.198	1.00	55.71	C
ATOM	4076	N	LEU	A	545	180.703	162.386	137.750	1.00	63.01	N
ATOM	4077	CA	LEU	A	545	181.127	160.997	137.913	1.00	65.14	C
ATOM	4078	C	LEU	A	545	182.033	160.840	139.128	1.00	64.00	C
ATOM	4079	O	LEU	A	545	181.827	159.949	139.964	1.00	63.14	O
ATOM	4080	CB	LEU	A	545	181.833	160.513	136.645	1.00	66.51	C
ATOM	4081	CG	LEU	A	545	181.016	159.638	135.690	1.00	65.90	C
ATOM	4082	CD1	LEU	A	545	180.648	158.319	136.352	1.00	64.62	C
ATOM	4083	CD2	LEU	A	545	179.770	160.369	135.211	1.00	59.69	C
ATOM	4084	N	TYR	A	546	183.036	161.713	139.249	1.00	55.66	N
ATOM	4085	CA	TYR	A	546	183.964	161.633	140.372	1.00	53.43	C
ATOM	4086	C	TYR	A	546	183.255	161.901	141.694	1.00	56.75	C
ATOM	4087	O	TYR	A	546	183.507	161.214	142.693	1.00	61.73	O
ATOM	4088	CB	TYR	A	546	185.117	162.617	140.166	1.00	55.51	C
ATOM	4089	CG	TYR	A	546	186.159	162.148	139.172	1.00	61.69	C
ATOM	4090	CD1	TYR	A	546	185.822	161.899	137.847	1.00	63.45	C
ATOM	4091	CD2	TYR	A	546	187.480	161.963	139.555	1.00	57.49	C
ATOM	4092	CE1	TYR	A	546	186.768	161.475	136.935	1.00	62.55	C
ATOM	4093	CE2	TYR	A	546	188.435	161.538	138.649	1.00	57.01	C
ATOM	4094	CZ	TYR	A	546	188.072	161.296	137.340	1.00	58.70	C
ATOM	4095	OH	TYR	A	546	189.017	160.873	136.434	1.00	58.71	O
ATOM	4096	N	GLY	A	547	182.360	162.893	141.722	1.00	54.09	N
ATOM	4097	CA	GLY	A	547	181.633	163.182	142.945	1.00	50.98	C
ATOM	4098	C	GLY	A	547	180.737	162.040	143.378	1.00	55.69	C
ATOM	4099	O	GLY	A	547	180.679	161.703	144.562	1.00	55.64	O
ATOM	4100	N	CYS	A	548	180.028	161.424	142.428	1.00	57.72	N
ATOM	4101	CA	CYS	A	548	179.180	160.284	142.760	1.00	57.20	C
ATOM	4102	C	CYS	A	548	180.009	159.104	143.249	1.00	57.41	C
ATOM	4103	O	CYS	A	548	179.623	158.425	144.209	1.00	60.11	O
ATOM	4104	CB	CYS	A	548	178.337	159.886	141.550	1.00	60.08	C
ATOM	4105	SG	CYS	A	548	176.976	161.016	141.182	1.00	68.63	S
ATOM	4106	N	VAL	A	549	181.149	158.841	142.604	1.00	50.18	N
ATOM	4107	CA	VAL	A	549	182.006	157.740	143.037	1.00	55.14	C
ATOM	4108	C	VAL	A	549	182.487	157.977	144.463	1.00	56.31	C
ATOM	4109	O	VAL	A	549	182.424	157.081	145.316	1.00	59.92	O
ATOM	4110	CB	VAL	A	549	183.184	157.561	142.061	1.00	55.56	C
ATOM	4111	CG1	VAL	A	549	184.348	156.860	142.746	1.00	54.38	C
ATOM	4112	CG2	VAL	A	549	182.738	156.786	140.831	1.00	54.96	C
ATOM	4113	N	GLY	A	550	182.956	159.195	144.748	1.00	52.00	N
ATOM	4114	CA	GLY	A	550	183.403	159.507	146.095	1.00	48.89	C

ATOM	4115	C	GLY	A	550	182.288	159.416	147.119	1.00	52.77	C
ATOM	4116	O	GLY	A	550	182.490	158.919	148.229	1.00	56.91	O
ATOM	4117	N	TYR	A	551	181.094	159.890	146.757	1.00	45.36	N
ATOM	4118	CA	TYR	A	551	179.956	159.856	147.670	1.00	47.46	C
ATOM	4119	C	TYR	A	551	179.578	158.421	148.020	1.00	51.01	C
ATOM	4120	O	TYR	A	551	179.391	158.082	149.197	1.00	54.10	O
ATOM	4121	CB	TYR	A	551	178.777	160.590	147.030	1.00	50.43	C
ATOM	4122	CG	TYR	A	551	177.780	161.176	148.001	1.00	51.07	C
ATOM	4123	CD1	TYR	A	551	178.202	161.897	149.107	1.00	49.61	C
ATOM	4124	CD2	TYR	A	551	176.415	161.032	147.794	1.00	48.62	C
ATOM	4125	CE1	TYR	A	551	177.295	162.444	149.989	1.00	46.41	C
ATOM	4126	CE2	TYR	A	551	175.499	161.577	148.671	1.00	48.49	C
ATOM	4127	CZ	TYR	A	551	175.945	162.282	149.768	1.00	48.80	C
ATOM	4128	OH	TYR	A	551	175.039	162.826	150.648	1.00	52.08	O
ATOM	4129	N	VAL	A	552	179.469	157.560	147.005	1.00	48.62	N
ATOM	4130	CA	VAL	A	552	179.115	156.166	147.249	1.00	52.07	C
ATOM	4131	C	VAL	A	552	180.201	155.467	148.057	1.00	52.87	C
ATOM	4132	O	VAL	A	552	179.905	154.688	148.971	1.00	53.00	O
ATOM	4133	CB	VAL	A	552	178.834	155.438	145.921	1.00	50.79	C
ATOM	4134	CG1	VAL	A	552	178.447	153.993	146.183	1.00	52.62	C
ATOM	4135	CG2	VAL	A	552	177.722	156.140	145.164	1.00	48.52	C
ATOM	4136	N	MET	A	553	181.473	155.728	147.739	1.00	47.42	N
ATOM	4137	CA	MET	A	553	182.555	155.103	148.492	1.00	49.19	C
ATOM	4138	C	MET	A	553	182.530	155.529	149.954	1.00	51.75	C
ATOM	4139	O	MET	A	553	182.706	154.697	150.853	1.00	52.81	O
ATOM	4140	CB	MET	A	553	183.903	155.443	147.854	1.00	53.09	C
ATOM	4141	CG	MET	A	553	184.947	154.339	147.966	1.00	55.42	C
ATOM	4142	SD	MET	A	553	184.671	152.914	146.888	1.00	68.39	S
ATOM	4143	CE	MET	A	553	183.775	153.647	145.519	1.00	52.39	C
ATOM	4144	N	TYR	A	554	182.307	156.822	150.210	1.00	45.82	N
ATOM	4145	CA	TYR	A	554	182.241	157.313	151.583	1.00	43.30	C
ATOM	4146	C	TYR	A	554	181.078	156.685	152.338	1.00	46.34	C
ATOM	4147	O	TYR	A	554	181.230	156.265	153.493	1.00	48.85	O
ATOM	4148	CB	TYR	A	554	182.129	158.838	151.582	1.00	40.20	C
ATOM	4149	CG	TYR	A	554	181.447	159.418	152.801	1.00	44.03	C
ATOM	4150	CD1	TYR	A	554	182.145	159.609	153.986	1.00	43.54	C
ATOM	4151	CD2	TYR	A	554	180.108	159.786	152.763	1.00	48.18	C
ATOM	4152	CE1	TYR	A	554	181.527	160.142	155.099	1.00	43.27	C
ATOM	4153	CE2	TYR	A	554	179.482	160.317	153.872	1.00	45.08	C
ATOM	4154	CZ	TYR	A	554	180.196	160.493	155.037	1.00	43.82	C
ATOM	4155	OH	TYR	A	554	179.576	161.024	156.143	1.00	47.93	O
ATOM	4156	N	TRP	A	555	179.908	156.601	151.699	1.00	45.17	N
ATOM	4157	CA	TRP	A	555	178.763	155.976	152.355	1.00	38.49	C
ATOM	4158	C	TRP	A	555	179.045	154.512	152.670	1.00	41.49	C
ATOM	4159	O	TRP	A	555	178.721	154.029	153.763	1.00	40.23	O
ATOM	4160	CB	TRP	A	555	177.520	156.106	151.476	1.00	41.16	C
ATOM	4161	CG	TRP	A	555	176.855	157.448	151.549	1.00	43.83	C
ATOM	4162	CD1	TRP	A	555	176.524	158.252	150.499	1.00	48.61	C
ATOM	4163	CD2	TRP	A	555	176.416	158.134	152.731	1.00	43.56	C
ATOM	4164	NE1	TRP	A	555	175.920	159.398	150.951	1.00	46.97	N

ATOM	4165	CE2	TRP	A	555	175.840	159.351	152.317	1.00	43.20	C
ATOM	4166	CE3	TRP	A	555	176.457	157.839	154.098	1.00	46.54	C
ATOM	4167	CZ2	TRP	A	555	175.312	160.272	153.218	1.00	45.12	C
ATOM	4168	CZ3	TRP	A	555	175.933	158.755	154.990	1.00	45.17	C
ATOM	4169	CH2	TRP	A	555	175.368	159.956	154.547	1.00	45.53	C
ATOM	4170	N	VAL	A	556	179.667	153.797	151.729	1.00	49.67	N
ATOM	4171	CA	VAL	A	556	179.941	152.376	151.926	1.00	46.04	C
ATOM	4172	C	VAL	A	556	180.913	152.174	153.082	1.00	45.48	C
ATOM	4173	O	VAL	A	556	180.695	151.325	153.957	1.00	46.09	O
ATOM	4174	CB	VAL	A	556	180.469	151.749	150.623	1.00	43.65	C
ATOM	4175	CG1	VAL	A	556	181.290	150.501	150.916	1.00	47.65	C
ATOM	4176	CG2	VAL	A	556	179.315	151.427	149.687	1.00	43.92	C
ATOM	4177	N	ILE	A	557	182.000	152.953	153.111	1.00	39.97	N
ATOM	4178	CA	ILE	A	557	182.993	152.753	154.162	1.00	40.09	C
ATOM	4179	C	ILE	A	557	182.418	153.149	155.517	1.00	43.04	C
ATOM	4180	O	ILE	A	557	182.679	152.487	156.528	1.00	48.04	O
ATOM	4181	CB	ILE	A	557	184.302	153.506	153.853	1.00	44.00	C
ATOM	4182	CG1	ILE	A	557	185.277	153.385	155.026	1.00	49.97	C
ATOM	4183	CG2	ILE	A	557	184.052	154.971	153.608	1.00	45.23	C
ATOM	4184	CD1	ILE	A	557	185.759	151.972	155.279	1.00	49.05	C
ATOM	4185	N	MET	A	558	181.609	154.213	155.564	1.00	44.07	N
ATOM	4186	CA	MET	A	558	181.000	154.603	156.832	1.00	41.15	C
ATOM	4187	C	MET	A	558	180.032	153.540	157.340	1.00	43.94	C
ATOM	4188	O	MET	A	558	180.028	153.223	158.534	1.00	46.26	O
ATOM	4189	CB	MET	A	558	180.295	155.952	156.689	1.00	35.58	C
ATOM	4190	CG	MET	A	558	180.081	156.677	158.010	1.00	39.47	C
ATOM	4191	SD	MET	A	558	181.587	157.201	158.857	1.00	56.48	S
ATOM	4192	CE	MET	A	558	182.620	157.707	157.485	1.00	43.71	C
ATOM	4193	N	ALA	A	559	179.208	152.974	156.452	1.00	43.93	N
ATOM	4194	CA	ALA	A	559	178.282	151.927	156.877	1.00	40.06	C
ATOM	4195	C	ALA	A	559	179.030	150.687	157.356	1.00	41.37	C
ATOM	4196	O	ALA	A	559	178.664	150.084	158.375	1.00	45.34	O
ATOM	4197	CB	ALA	A	559	177.331	151.572	155.735	1.00	42.58	C
ATOM	4198	N	VAL	A	560	180.083	150.294	156.634	1.00	38.10	N
ATOM	4199	CA	VAL	A	560	180.865	149.128	157.034	1.00	36.91	C
ATOM	4200	C	VAL	A	560	181.521	149.367	158.388	1.00	36.05	C
ATOM	4201	O	VAL	A	560	181.530	148.483	159.254	1.00	39.71	O
ATOM	4202	CB	VAL	A	560	181.902	148.785	155.948	1.00	40.57	C
ATOM	4203	CG1	VAL	A	560	183.074	148.018	156.541	1.00	38.75	C
ATOM	4204	CG2	VAL	A	560	181.248	147.990	154.827	1.00	40.36	C
ATOM	4205	N	MET	A	561	182.076	150.564	158.593	1.00	42.66	N
ATOM	4206	CA	MET	A	561	182.695	150.890	159.873	1.00	42.45	C
ATOM	4207	C	MET	A	561	181.672	150.880	161.000	1.00	39.89	C
ATOM	4208	O	MET	A	561	181.960	150.403	162.103	1.00	40.58	O
ATOM	4209	CB	MET	A	561	183.392	152.249	159.784	1.00	40.59	C
ATOM	4210	CG	MET	A	561	183.551	152.965	161.115	1.00	47.43	C
ATOM	4211	SD	MET	A	561	183.602	154.758	160.937	1.00	55.13	S
ATOM	4212	CE	MET	A	561	184.749	154.928	159.573	1.00	43.26	C
ATOM	4213	N	TYR	A	562	180.470	151.403	160.743	1.00	39.21	N
ATOM	4214	CA	TYR	A	562	179.420	151.375	161.756	1.00	41.12	C

ATOM	4215	C	TYR	A	562	179.078	149.946	162.148	1.00	41.16	C
ATOM	4216	O	TYR	A	562	178.995	149.618	163.338	1.00	43.34	O
ATOM	4217	CB	TYR	A	562	178.172	152.095	161.242	1.00	43.54	C
ATOM	4218	CG	TYR	A	562	176.948	151.888	162.108	1.00	38.69	C
ATOM	4219	CD1	TYR	A	562	176.784	152.591	163.293	1.00	43.10	C
ATOM	4220	CD2	TYR	A	562	175.958	150.988	161.739	1.00	33.91	C
ATOM	4221	CE1	TYR	A	562	175.669	152.405	164.087	1.00	39.89	C
ATOM	4222	CE2	TYR	A	562	174.840	150.794	162.527	1.00	37.74	C
ATOM	4223	CZ	TYR	A	562	174.701	151.505	163.699	1.00	40.32	C
ATOM	4224	OH	TYR	A	562	173.589	151.316	164.487	1.00	42.29	O
ATOM	4225	N	TRP	A	563	178.877	149.077	161.154	1.00	48.81	N
ATOM	4226	CA	TRP	A	563	178.521	147.695	161.458	1.00	45.47	C
ATOM	4227	C	TRP	A	563	179.650	146.978	162.189	1.00	44.96	C
ATOM	4228	O	TRP	A	563	179.398	146.210	163.125	1.00	48.97	O
ATOM	4229	CB	TRP	A	563	178.138	146.951	160.179	1.00	40.34	C
ATOM	4230	CG	TRP	A	563	176.764	147.295	159.691	1.00	43.91	C
ATOM	4231	CD1	TRP	A	563	176.445	148.028	158.587	1.00	44.76	C
ATOM	4232	CD2	TRP	A	563	175.520	146.929	160.303	1.00	52.17	C
ATOM	4233	NE1	TRP	A	563	175.080	148.137	158.468	1.00	48.50	N
ATOM	4234	CE2	TRP	A	563	174.490	147.471	159.510	1.00	50.84	C
ATOM	4235	CE3	TRP	A	563	175.178	146.194	161.442	1.00	52.86	C
ATOM	4236	CZ2	TRP	A	563	173.142	147.301	159.819	1.00	43.93	C
ATOM	4237	CZ3	TRP	A	563	173.840	146.026	161.747	1.00	44.82	C
ATOM	4238	CH2	TRP	A	563	172.838	146.577	160.938	1.00	42.82	C
ATOM	4239	N	VAL	A	564	180.899	147.225	161.790	1.00	51.49	N
ATOM	4240	CA	VAL	A	564	182.032	146.587	162.454	1.00	52.77	C
ATOM	4241	C	VAL	A	564	182.146	147.056	163.901	1.00	51.87	C
ATOM	4242	O	VAL	A	564	182.354	146.248	164.814	1.00	55.37	O
ATOM	4243	CB	VAL	A	564	183.327	146.853	161.664	1.00	51.29	C
ATOM	4244	CG1	VAL	A	564	184.542	146.785	162.577	1.00	51.04	C
ATOM	4245	CG2	VAL	A	564	183.459	145.862	160.519	1.00	50.23	C
ATOM	4246	N	TRP	A	565	182.003	148.362	164.138	1.00	45.94	N
ATOM	4247	CA	TRP	A	565	182.168	148.892	165.487	1.00	44.99	C
ATOM	4248	C	TRP	A	565	181.012	148.503	166.401	1.00	48.76	C
ATOM	4249	O	TRP	A	565	181.220	148.304	167.603	1.00	55.41	O
ATOM	4250	CB	TRP	A	565	182.312	150.413	165.436	1.00	56.08	C
ATOM	4251	CG	TRP	A	565	183.729	150.885	165.275	1.00	60.08	C
ATOM	4252	CD1	TRP	A	565	184.387	151.115	164.102	1.00	56.74	C
ATOM	4253	CD2	TRP	A	565	184.658	151.194	166.323	1.00	56.69	C
ATOM	4254	NE1	TRP	A	565	185.668	151.543	164.353	1.00	50.83	N
ATOM	4255	CE2	TRP	A	565	185.859	151.600	165.708	1.00	54.10	C
ATOM	4256	CE3	TRP	A	565	184.591	151.163	167.719	1.00	52.85	C
ATOM	4257	CZ2	TRP	A	565	186.983	151.974	166.442	1.00	56.30	C
ATOM	4258	CZ3	TRP	A	565	185.708	151.535	168.445	1.00	55.37	C
ATOM	4259	CH2	TRP	A	565	186.888	151.935	167.805	1.00	57.38	C
ATOM	4260	N	VAL	A	566	179.800	148.388	165.863	1.00	56.18	N
ATOM	4261	CA	VAL	A	566	178.633	148.114	166.698	1.00	58.61	C
ATOM	4262	C	VAL	A	566	178.438	146.619	166.924	1.00	57.16	C
ATOM	4263	O	VAL	A	566	178.130	146.193	168.040	1.00	60.58	O
ATOM	4264	CB	VAL	A	566	177.383	148.763	166.069	1.00	57.32	C

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ATOM   4265  CG1 VAL A 566      176.116 148.034 166.500  1.00 54.11           C
ATOM   4266  CG2 VAL A 566      177.311 150.235 166.442  1.00 52.59           C
ATOM   4267  N   LYS A 567      178.616 145.802 165.882  1.00 51.09           N
ATOM   4268  CA  LYS A 567      178.369 144.369 166.010  1.00 54.61           C
ATOM   4269  C   LYS A 567      179.319 143.725 167.013  1.00 58.66           C
ATOM   4270  O   LYS A 567      178.906 142.878 167.813  1.00 60.79           O
ATOM   4271  CB  LYS A 567      178.493 143.695 164.644  1.00 57.69           C
ATOM   4272  CG  LYS A 567      177.830 142.331 164.560  1.00 61.22           C
ATOM   4273  CD  LYS A 567      178.515 141.449 163.531  1.00 58.97           C
ATOM   4274  CE  LYS A 567      178.458 142.072 162.146  1.00 57.82           C
ATOM   4275  NZ  LYS A 567      179.319 141.344 161.175  1.00 57.03           N
ATOM   4276  N   ARG A 568      180.591 144.110 166.987  1.00 63.78           N
ATOM   4277  CA  ARG A 568      181.575 143.542 167.903  1.00 66.82           C
ATOM   4278  C   ARG A 568      181.355 144.046 169.326  1.00 64.56           C
ATOM   4279  O   ARG A 568      180.651 145.031 169.546  1.00 62.80           O
ATOM   4280  CB  ARG A 568      182.998 143.872 167.445  1.00 63.76           C
ATOM   4281  CG  ARG A 568      183.312 143.488 166.005  1.00 63.45           C
ATOM   4282  CD  ARG A 568      182.744 142.126 165.637  1.00 66.24           C
ATOM   4283  NE  ARG A 568      182.521 142.002 164.202  1.00 66.84           N
ATOM   4284  CZ  ARG A 568      182.439 140.850 163.552  1.00 67.69           C
ATOM   4285  NH1 ARG A 568      182.557 139.692 164.180  1.00 65.40           N
ATOM   4286  NH2 ARG A 568      182.235 140.859 162.237  1.00 65.88           N
TER    4287      ARG A 568
ATOM   4288  N   SER H   3      164.493 148.423 217.881  1.00 59.52           N
ATOM   4289  CA  SER H   3      165.706 148.841 218.573  1.00 60.83           C
ATOM   4290  C   SER H   3      165.645 150.317 218.951  1.00 59.36           C
ATOM   4291  O   SER H   3      165.636 151.190 218.083  1.00 55.79           O
ATOM   4292  CB  SER H   3      166.938 148.575 217.705  1.00 55.86           C
ATOM   4293  OG  SER H   3      167.103 147.189 217.463  1.00 55.17           O
ATOM   4294  N   GLU H   4      165.603 150.589 220.252  1.00 47.86           N
ATOM   4295  CA  GLU H   4      165.594 151.964 220.725  1.00 46.69           C
ATOM   4296  C   GLU H   4      167.016 152.445 220.990  1.00 47.81           C
ATOM   4297  O   GLU H   4      167.895 151.676 221.388  1.00 45.86           O
ATOM   4298  CB  GLU H   4      164.747 152.091 221.991  1.00 49.70           C
ATOM   4299  CG  GLU H   4      163.528 151.183 222.012  1.00 50.29           C
ATOM   4300  CD  GLU H   4      162.992 150.961 223.411  1.00 54.97           C
ATOM   4301  OE1 GLU H   4      162.420 149.881 223.666  1.00 53.31           O
ATOM   4302  OE2 GLU H   4      163.140 151.869 224.256  1.00 53.72           O
ATOM   4303  N   VAL H   5      167.235 153.740 220.763  1.00 35.98           N
ATOM   4304  CA  VAL H   5      168.573 154.307 220.865  1.00 30.17           C
ATOM   4305  C   VAL H   5      168.997 154.364 222.326  1.00 29.40           C
ATOM   4306  O   VAL H   5      168.304 154.947 223.170  1.00 35.14           O
ATOM   4307  CB  VAL H   5      168.613 155.699 220.220  1.00 31.07           C
ATOM   4308  CG1 VAL H   5      169.967 156.351 220.446  1.00 30.85           C
ATOM   4309  CG2 VAL H   5      168.298 155.601 218.736  1.00 30.40           C
ATOM   4310  N   GLN H   6      170.141 153.752 222.632  1.00 28.66           N
ATOM   4311  CA  GLN H   6      170.697 153.765 223.977  1.00 29.89           C
ATOM   4312  C   GLN H   6      172.188 154.054 223.909  1.00 29.06           C
ATOM   4313  O   GLN H   6      172.855 153.745 222.919  1.00 31.18           O
ATOM   4314  CB  GLN H   6      170.467 152.436 224.711  1.00 30.81           C
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ATOM	4315	CG	GLN	H	6	169.059	151.883	224.597	1.00	32.86	C
ATOM	4316	CD	GLN	H	6	168.782	150.797	225.616	1.00	40.16	C
ATOM	4317	OE1	GLN	H	6	169.564	149.858	225.767	1.00	37.95	O
ATOM	4318	NE2	GLN	H	6	167.666	150.922	226.325	1.00	41.59	N
ATOM	4319	N	LEU	H	7	172.706	154.648	224.982	1.00	23.27	N
ATOM	4320	CA	LEU	H	7	174.126	154.942	225.108	1.00	21.40	C
ATOM	4321	C	LEU	H	7	174.569	154.606	226.523	1.00	22.13	C
ATOM	4322	O	LEU	H	7	174.019	155.140	227.490	1.00	31.12	O
ATOM	4323	CB	LEU	H	7	174.418	156.412	224.784	1.00	19.64	C
ATOM	4324	CG	LEU	H	7	174.347	156.794	223.303	1.00	17.77	C
ATOM	4325	CD1	LEU	H	7	173.049	157.517	222.996	1.00	14.10	C
ATOM	4326	CD2	LEU	H	7	175.535	157.650	222.905	1.00	22.62	C
ATOM	4327	N	VAL	H	8	175.558	153.723	226.641	1.00	22.55	N
ATOM	4328	CA	VAL	H	8	176.054	153.260	227.930	1.00	24.11	C
ATOM	4329	C	VAL	H	8	177.488	153.740	228.100	1.00	28.99	C
ATOM	4330	O	VAL	H	8	178.207	153.960	227.120	1.00	30.45	O
ATOM	4331	CB	VAL	H	8	175.968	151.723	228.059	1.00	28.55	C
ATOM	4332	CG1	VAL	H	8	176.038	151.299	229.517	1.00	30.61	C
ATOM	4333	CG2	VAL	H	8	174.691	151.209	227.413	1.00	28.54	C
ATOM	4334	N	GLU	H	9	177.906	153.899	229.353	1.00	33.59	N
ATOM	4335	CA	GLU	H	9	179.212	154.449	229.679	1.00	29.90	C
ATOM	4336	C	GLU	H	9	180.010	153.453	230.506	1.00	34.00	C
ATOM	4337	O	GLU	H	9	179.454	152.702	231.313	1.00	32.20	O
ATOM	4338	CB	GLU	H	9	179.074	155.761	230.450	1.00	30.43	C
ATOM	4339	CG	GLU	H	9	178.864	156.958	229.558	1.00	30.84	C
ATOM	4340	CD	GLU	H	9	177.403	157.130	229.214	1.00	34.12	C
ATOM	4341	OE1	GLU	H	9	177.087	157.404	228.042	1.00	37.03	O
ATOM	4342	OE2	GLU	H	9	176.564	156.958	230.118	1.00	35.33	O
ATOM	4343	N	SER	H	10	181.324	153.453	230.298	1.00	32.16	N
ATOM	4344	CA	SER	H	10	182.205	152.571	231.047	1.00	27.37	C
ATOM	4345	C	SER	H	10	183.553	153.247	231.237	1.00	29.39	C
ATOM	4346	O	SER	H	10	183.921	154.163	230.497	1.00	34.83	O
ATOM	4347	CB	SER	H	10	182.383	151.221	230.343	1.00	34.22	C
ATOM	4348	OG	SER	H	10	183.555	150.564	230.793	1.00	41.39	O
ATOM	4349	N	GLY	H	11	184.294	152.773	232.236	1.00	33.97	N
ATOM	4350	CA	GLY	H	11	185.641	153.239	232.487	1.00	31.48	C
ATOM	4351	C	GLY	H	11	185.772	154.351	233.503	1.00	35.09	C
ATOM	4352	O	GLY	H	11	186.846	154.957	233.591	1.00	43.65	O
ATOM	4353	N	GLY	H	12	184.730	154.630	234.281	1.00	33.81	N
ATOM	4354	CA	GLY	H	12	184.816	155.685	235.265	1.00	33.13	C
ATOM	4355	C	GLY	H	12	185.132	155.156	236.650	1.00	34.74	C
ATOM	4356	O	GLY	H	12	184.769	154.042	237.027	1.00	35.73	O
ATOM	4357	N	GLY	H	13	185.829	155.978	237.419	1.00	37.04	N
ATOM	4358	CA	GLY	H	13	186.243	155.586	238.749	1.00	33.79	C
ATOM	4359	C	GLY	H	13	187.197	156.607	239.337	1.00	42.13	C
ATOM	4360	O	GLY	H	13	187.180	157.783	238.978	1.00	46.28	O
ATOM	4361	N	LEU	H	14	188.025	156.123	240.257	1.00	49.26	N
ATOM	4362	CA	LEU	H	14	188.983	156.956	240.968	1.00	47.29	C
ATOM	4363	C	LEU	H	14	190.354	156.855	240.312	1.00	45.74	C
ATOM	4364	O	LEU	H	14	190.750	155.786	239.839	1.00	46.94	O

ATOM	4365	CB	LEU	H	14	189.074	156.543	242.437	1.00	47.44	C
ATOM	4366	CG	LEU	H	14	189.733	157.535	243.397	1.00	49.50	C
ATOM	4367	CD1	LEU	H	14	188.899	157.685	244.658	1.00	46.49	C
ATOM	4368	CD2	LEU	H	14	191.147	157.093	243.737	1.00	50.84	C
ATOM	4369	N	VAL	H	15	191.073	157.974	240.286	1.00	47.51	N
ATOM	4370	CA	VAL	H	15	192.401	158.022	239.682	1.00	44.63	C
ATOM	4371	C	VAL	H	15	193.203	159.125	240.358	1.00	48.09	C
ATOM	4372	O	VAL	H	15	192.680	160.205	240.645	1.00	51.44	O
ATOM	4373	CB	VAL	H	15	192.317	158.228	238.153	1.00	46.43	C
ATOM	4374	CG1	VAL	H	15	191.474	159.448	237.818	1.00	47.45	C
ATOM	4375	CG2	VAL	H	15	193.708	158.344	237.544	1.00	50.25	C
ATOM	4376	N	GLN	H	16	194.473	158.839	240.632	1.00	55.91	N
ATOM	4377	CA	GLN	H	16	195.359	159.835	241.207	1.00	55.50	C
ATOM	4378	C	GLN	H	16	195.629	160.952	240.198	1.00	58.37	C
ATOM	4379	O	GLN	H	16	195.600	160.723	238.986	1.00	60.12	O
ATOM	4380	CB	GLN	H	16	196.676	159.193	241.634	1.00	55.80	C
ATOM	4381	CG	GLN	H	16	196.540	158.199	242.773	1.00	60.61	C
ATOM	4382	CD	GLN	H	16	196.886	158.808	244.116	1.00	63.94	C
ATOM	4383	OE1	GLN	H	16	197.890	159.508	244.253	1.00	62.57	O
ATOM	4384	NE2	GLN	H	16	196.053	158.548	245.117	1.00	60.77	N
ATOM	4385	N	PRO	H	17	195.881	162.173	240.672	1.00	58.95	N
ATOM	4386	CA	PRO	H	17	196.219	163.260	239.745	1.00	58.46	C
ATOM	4387	C	PRO	H	17	197.511	162.966	238.998	1.00	58.71	C
ATOM	4388	O	PRO	H	17	198.469	162.431	239.559	1.00	61.20	O
ATOM	4389	CB	PRO	H	17	196.359	164.483	240.663	1.00	57.42	C
ATOM	4390	CG	PRO	H	17	195.711	164.084	241.958	1.00	58.99	C
ATOM	4391	CD	PRO	H	17	195.925	162.615	242.075	1.00	57.35	C
ATOM	4392	N	GLY	H	18	197.529	163.324	237.716	1.00	55.31	N
ATOM	4393	CA	GLY	H	18	198.672	163.046	236.876	1.00	53.82	C
ATOM	4394	C	GLY	H	18	198.609	161.740	236.117	1.00	57.61	C
ATOM	4395	O	GLY	H	18	199.454	161.513	235.241	1.00	58.63	O
ATOM	4396	N	GLY	H	19	197.648	160.871	236.426	1.00	53.88	N
ATOM	4397	CA	GLY	H	19	197.525	159.586	235.766	1.00	55.33	C
ATOM	4398	C	GLY	H	19	196.801	159.680	234.441	1.00	55.35	C
ATOM	4399	O	GLY	H	19	196.986	160.628	233.668	1.00	59.24	O
ATOM	4400	N	SER	H	20	195.960	158.684	234.170	1.00	43.59	N
ATOM	4401	CA	SER	H	20	195.244	158.622	232.905	1.00	41.45	C
ATOM	4402	C	SER	H	20	193.981	157.792	233.075	1.00	44.16	C
ATOM	4403	O	SER	H	20	193.858	156.988	234.003	1.00	47.91	O
ATOM	4404	CB	SER	H	20	196.118	158.038	231.789	1.00	43.41	C
ATOM	4405	OG	SER	H	20	197.244	158.860	231.537	1.00	44.33	O
ATOM	4406	N	LEU	H	21	193.039	158.004	232.159	1.00	34.73	N
ATOM	4407	CA	LEU	H	21	191.777	157.280	232.157	1.00	33.21	C
ATOM	4408	C	LEU	H	21	191.294	157.131	230.722	1.00	38.14	C
ATOM	4409	O	LEU	H	21	191.660	157.909	229.838	1.00	48.59	O
ATOM	4410	CB	LEU	H	21	190.715	157.985	233.008	1.00	33.22	C
ATOM	4411	CG	LEU	H	21	190.315	157.295	234.313	1.00	39.00	C
ATOM	4412	CD1	LEU	H	21	189.145	158.016	234.961	1.00	42.58	C
ATOM	4413	CD2	LEU	H	21	189.979	155.832	234.070	1.00	37.28	C
ATOM	4414	N	ARG	H	22	190.470	156.109	230.500	1.00	30.69	N

ATOM	4415	CA	ARG	H	22	189.885	155.837	229.187	1.00	28.39	C
ATOM	4416	C	ARG	H	22	188.404	155.529	229.377	1.00	26.57	C
ATOM	4417	O	ARG	H	22	188.042	154.400	229.720	1.00	24.09	O
ATOM	4418	CB	ARG	H	22	190.599	154.685	228.491	1.00	32.40	C
ATOM	4419	CG	ARG	H	22	190.098	154.408	227.084	1.00	24.80	C
ATOM	4420	CD	ARG	H	22	191.233	154.291	226.083	1.00	30.28	C
ATOM	4421	NE	ARG	H	22	190.805	153.592	224.877	1.00	35.33	N
ATOM	4422	CZ	ARG	H	22	191.429	153.655	223.709	1.00	39.50	C
ATOM	4423	NH1	ARG	H	22	192.520	154.386	223.547	1.00	34.88	N
ATOM	4424	NH2	ARG	H	22	190.946	152.968	222.678	1.00	35.51	N
ATOM	4425	N	LEU	H	23	187.552	156.526	229.158	1.00	25.99	N
ATOM	4426	CA	LEU	H	23	186.118	156.279	229.160	1.00	25.39	C
ATOM	4427	C	LEU	H	23	185.673	155.762	227.801	1.00	25.83	C
ATOM	4428	O	LEU	H	23	186.271	156.082	226.769	1.00	31.17	O
ATOM	4429	CB	LEU	H	23	185.335	157.544	229.512	1.00	19.54	C
ATOM	4430	CG	LEU	H	23	185.802	158.402	230.685	1.00	24.37	C
ATOM	4431	CD1	LEU	H	23	184.759	159.462	230.996	1.00	27.24	C
ATOM	4432	CD2	LEU	H	23	186.067	157.546	231.907	1.00	26.11	C
ATOM	4433	N	SER	H	24	184.592	154.990	227.804	1.00	22.17	N
ATOM	4434	CA	SER	H	24	184.058	154.377	226.601	1.00	26.26	C
ATOM	4435	C	SER	H	24	182.548	154.555	226.572	1.00	23.76	C
ATOM	4436	O	SER	H	24	181.874	154.411	227.597	1.00	30.23	O
ATOM	4437	CB	SER	H	24	184.411	152.889	226.530	1.00	30.47	C
ATOM	4438	OG	SER	H	24	183.354	152.090	227.031	1.00	33.44	O
ATOM	4439	N	CYS	H	25	182.031	154.863	225.387	1.00	22.48	N
ATOM	4440	CA	CYS	H	25	180.618	155.136	225.162	1.00	24.48	C
ATOM	4441	C	CYS	H	25	180.115	154.135	224.131	1.00	35.41	C
ATOM	4442	O	CYS	H	25	180.451	154.238	222.947	1.00	35.82	O
ATOM	4443	CB	CYS	H	25	180.412	156.573	224.687	1.00	28.82	C
ATOM	4444	SG	CYS	H	25	178.694	157.049	224.422	1.00	43.48	S
ATOM	4445	N	ALA	H	26	179.330	153.164	224.588	1.00	38.97	N
ATOM	4446	CA	ALA	H	26	178.801	152.104	223.738	1.00	32.09	C
ATOM	4447	C	ALA	H	26	177.413	152.512	223.260	1.00	27.34	C
ATOM	4448	O	ALA	H	26	176.516	152.757	224.072	1.00	33.34	O
ATOM	4449	CB	ALA	H	26	178.754	150.776	224.491	1.00	29.04	C
ATOM	4450	N	ALA	H	27	177.244	152.589	221.945	1.00	23.84	N
ATOM	4451	CA	ALA	H	27	175.978	152.975	221.344	1.00	20.01	C
ATOM	4452	C	ALA	H	27	175.196	151.746	220.898	1.00	31.08	C
ATOM	4453	O	ALA	H	27	175.770	150.730	220.500	1.00	40.18	O
ATOM	4454	CB	ALA	H	27	176.210	153.903	220.153	1.00	22.87	C
ATOM	4455	N	SER	H	28	173.870	151.853	220.964	1.00	29.79	N
ATOM	4456	CA	SER	H	28	172.993	150.769	220.550	1.00	27.29	C
ATOM	4457	C	SER	H	28	171.775	151.359	219.858	1.00	26.31	C
ATOM	4458	O	SER	H	28	171.202	152.344	220.330	1.00	35.59	O
ATOM	4459	CB	SER	H	28	172.562	149.911	221.745	1.00	28.28	C
ATOM	4460	OG	SER	H	28	171.469	149.076	221.404	1.00	36.60	O
ATOM	4461	N	GLY	H	29	171.388	150.752	218.738	1.00	23.34	N
ATOM	4462	CA	GLY	H	29	170.245	151.198	217.973	1.00	22.08	C
ATOM	4463	C	GLY	H	29	170.574	152.078	216.786	1.00	21.68	C
ATOM	4464	O	GLY	H	29	169.683	152.343	215.970	1.00	25.65	O

ATOM	4465	N	PHE	H	30	171.816	152.540	216.666	1.00	24.41		N
ATOM	4466	CA	PHE	H	30	172.212	153.403	215.562	1.00	28.54		C
ATOM	4467	C	PHE	H	30	173.696	153.199	215.284	1.00	27.66		C
ATOM	4468	O	PHE	H	30	174.387	152.457	215.987	1.00	26.41		O
ATOM	4469	CB	PHE	H	30	171.894	154.871	215.869	1.00	24.56		C
ATOM	4470	CG	PHE	H	30	172.772	155.477	216.927	1.00	17.32		C
ATOM	4471	CD1	PHE	H	30	172.535	155.232	218.267	1.00	15.79		C
ATOM	4472	CD2	PHE	H	30	173.832	156.297	216.580	1.00	17.37		C
ATOM	4473	CE1	PHE	H	30	173.338	155.788	219.240	1.00	16.09		C
ATOM	4474	CE2	PHE	H	30	174.640	156.856	217.549	1.00	22.21		C
ATOM	4475	CZ	PHE	H	30	174.391	156.602	218.881	1.00	23.99		C
ATOM	4476	N	ASN	H	31	174.182	153.871	214.243	1.00	24.81		N
ATOM	4477	CA	ASN	H	31	175.577	153.806	213.831	1.00	23.74		C
ATOM	4478	C	ASN	H	31	176.253	155.138	214.124	1.00	27.42		C
ATOM	4479	O	ASN	H	31	175.699	156.200	213.821	1.00	35.33		O
ATOM	4480	CB	ASN	H	31	175.699	153.471	212.342	1.00	31.09		C
ATOM	4481	CG	ASN	H	31	174.974	152.195	211.970	1.00	36.91		C
ATOM	4482	OD1	ASN	H	31	173.791	152.216	211.631	1.00	37.25		O
ATOM	4483	ND2	ASN	H	31	175.684	151.075	212.026	1.00	36.13		N
ATOM	4484	N	VAL	H	32	177.446	155.077	214.719	1.00	25.13		N
ATOM	4485	CA	VAL	H	32	178.187	156.292	215.035	1.00	26.05		C
ATOM	4486	C	VAL	H	32	178.693	156.999	213.785	1.00	29.13		C
ATOM	4487	O	VAL	H	32	179.113	158.160	213.865	1.00	23.46		O
ATOM	4488	CB	VAL	H	32	179.356	155.974	215.986	1.00	26.72		C
ATOM	4489	CG1	VAL	H	32	178.831	155.418	217.299	1.00	20.12		C
ATOM	4490	CG2	VAL	H	32	180.320	154.997	215.335	1.00	23.25		C
ATOM	4491	N	SER	H	33	178.667	156.337	212.626	1.00	31.07		N
ATOM	4492	CA	SER	H	33	179.183	156.968	211.415	1.00	21.38		C
ATOM	4493	C	SER	H	33	178.170	157.921	210.799	1.00	27.91		C
ATOM	4494	O	SER	H	33	178.522	158.709	209.914	1.00	34.57		O
ATOM	4495	CB	SER	H	33	179.588	155.903	210.398	1.00	26.44		C
ATOM	4496	OG	SER	H	33	180.402	154.913	210.996	1.00	38.98		O
ATOM	4497	N	SER	H	34	176.921	157.875	211.251	1.00	24.20		N
ATOM	4498	CA	SER	H	34	175.879	158.741	210.720	1.00	23.61		C
ATOM	4499	C	SER	H	34	175.440	159.813	211.706	1.00	30.00		C
ATOM	4500	O	SER	H	34	174.435	160.487	211.457	1.00	41.18		O
ATOM	4501	CB	SER	H	34	174.669	157.901	210.300	1.00	18.08		C
ATOM	4502	OG	SER	H	34	175.076	156.767	209.555	1.00	27.28		O
ATOM	4503	N	TYR	H	35	176.169	159.997	212.805	1.00	13.58		N
ATOM	4504	CA	TYR	H	35	175.800	160.955	213.835	1.00	11.89		C
ATOM	4505	C	TYR	H	35	177.055	161.454	214.534	1.00	19.05		C
ATOM	4506	O	TYR	H	35	178.120	160.834	214.475	1.00	33.95		O
ATOM	4507	CB	TYR	H	35	174.841	160.346	214.869	1.00	17.97		C
ATOM	4508	CG	TYR	H	35	173.538	159.825	214.307	1.00	20.20		C
ATOM	4509	CD1	TYR	H	35	173.392	158.488	213.961	1.00	20.60		C
ATOM	4510	CD2	TYR	H	35	172.449	160.667	214.135	1.00	12.00		C
ATOM	4511	CE1	TYR	H	35	172.201	158.008	213.452	1.00	21.09		C
ATOM	4512	CE2	TYR	H	35	171.254	160.196	213.628	1.00	13.42		C
ATOM	4513	CZ	TYR	H	35	171.136	158.866	213.288	1.00	20.59		C
ATOM	4514	OH	TYR	H	35	169.949	158.391	212.782	1.00	27.65		O

ATOM	4515	N	TYR	H	36	176.913	162.592	215.207	1.00	12.01	N
ATOM	4516	CA	TYR	H	36	177.959	163.132	216.059	1.00	3.52	C
ATOM	4517	C	TYR	H	36	177.884	162.499	217.441	1.00	15.33	C
ATOM	4518	O	TYR	H	36	176.806	162.154	217.930	1.00	26.23	O
ATOM	4519	CB	TYR	H	36	177.830	164.650	216.183	1.00	12.33	C
ATOM	4520	CG	TYR	H	36	178.804	165.441	215.345	1.00	18.93	C
ATOM	4521	CD1	TYR	H	36	180.072	165.739	215.823	1.00	18.26	C
ATOM	4522	CD2	TYR	H	36	178.454	165.903	214.085	1.00	21.51	C
ATOM	4523	CE1	TYR	H	36	180.967	166.466	215.067	1.00	18.39	C
ATOM	4524	CE2	TYR	H	36	179.343	166.632	213.321	1.00	19.74	C
ATOM	4525	CZ	TYR	H	36	180.598	166.910	213.818	1.00	23.88	C
ATOM	4526	OH	TYR	H	36	181.491	167.635	213.063	1.00	26.79	O
ATOM	4527	N	ILE	H	37	179.047	162.345	218.068	1.00	17.38	N
ATOM	4528	CA	ILE	H	37	179.144	161.835	219.429	1.00	13.66	C
ATOM	4529	C	ILE	H	37	179.870	162.879	220.263	1.00	13.29	C
ATOM	4530	O	ILE	H	37	181.024	163.216	219.974	1.00	15.99	O
ATOM	4531	CB	ILE	H	37	179.874	160.483	219.492	1.00	13.98	C
ATOM	4532	CG1	ILE	H	37	179.058	159.405	218.775	1.00	8.36	C
ATOM	4533	CG2	ILE	H	37	180.135	160.085	220.935	1.00	17.66	C
ATOM	4534	CD1	ILE	H	37	177.806	158.990	219.516	1.00	11.33	C
ATOM	4535	N	HIS	H	38	179.202	163.384	221.295	1.00	4.48	N
ATOM	4536	CA	HIS	H	38	179.743	164.433	222.142	1.00	4.46	C
ATOM	4537	C	HIS	H	38	179.936	163.920	223.562	1.00	7.32	C
ATOM	4538	O	HIS	H	38	179.191	163.059	224.037	1.00	23.22	O
ATOM	4539	CB	HIS	H	38	178.824	165.658	222.164	1.00	0.00	C
ATOM	4540	CG	HIS	H	38	178.278	166.033	220.822	1.00	0.00	C
ATOM	4541	ND1	HIS	H	38	178.858	166.995	220.025	1.00	2.20	N
ATOM	4542	CD2	HIS	H	38	177.192	165.589	220.146	1.00	3.46	C
ATOM	4543	CE1	HIS	H	38	178.160	167.121	218.911	1.00	3.66	C
ATOM	4544	NE2	HIS	H	38	177.143	166.280	218.960	1.00	5.97	N
ATOM	4545	N	TRP	H	39	180.949	164.457	224.234	1.00	7.17	N
ATOM	4546	CA	TRP	H	39	181.223	164.157	225.633	1.00	4.88	C
ATOM	4547	C	TRP	H	39	180.964	165.412	226.452	1.00	7.29	C
ATOM	4548	O	TRP	H	39	181.607	166.444	226.234	1.00	21.94	O
ATOM	4549	CB	TRP	H	39	182.659	163.670	225.821	1.00	15.11	C
ATOM	4550	CG	TRP	H	39	182.833	162.217	225.523	1.00	15.23	C
ATOM	4551	CD1	TRP	H	39	183.195	161.663	224.331	1.00	16.20	C
ATOM	4552	CD2	TRP	H	39	182.642	161.127	226.431	1.00	15.39	C
ATOM	4553	NE1	TRP	H	39	183.246	160.295	224.441	1.00	16.50	N
ATOM	4554	CE2	TRP	H	39	182.910	159.941	225.721	1.00	15.47	C
ATOM	4555	CE3	TRP	H	39	182.273	161.038	227.776	1.00	18.33	C
ATOM	4556	CZ2	TRP	H	39	182.821	158.683	226.310	1.00	15.37	C
ATOM	4557	CZ3	TRP	H	39	182.184	159.789	228.358	1.00	20.52	C
ATOM	4558	CH2	TRP	H	39	182.457	158.629	227.626	1.00	18.33	C
ATOM	4559	N	VAL	H	40	180.019	165.325	227.384	1.00	3.00	N
ATOM	4560	CA	VAL	H	40	179.615	166.456	228.209	1.00	3.73	C
ATOM	4561	C	VAL	H	40	179.762	166.054	229.669	1.00	8.03	C
ATOM	4562	O	VAL	H	40	179.327	164.967	230.064	1.00	25.21	O
ATOM	4563	CB	VAL	H	40	178.169	166.893	227.902	1.00	7.47	C
ATOM	4564	CG1	VAL	H	40	177.705	167.950	228.889	1.00	4.66	C

ATOM	4565	CG2	VAL	H	40	178.064	167.403	226.473	1.00	15.84	C
ATOM	4566	N	ARG	H	41	180.368	166.929	230.467	1.00	1.91	N
ATOM	4567	CA	ARG	H	41	180.637	166.653	231.868	1.00	9.45	C
ATOM	4568	C	ARG	H	41	179.992	167.719	232.744	1.00	22.31	C
ATOM	4569	O	ARG	H	41	179.795	168.865	232.330	1.00	30.99	O
ATOM	4570	CB	ARG	H	41	182.147	166.583	232.141	1.00	13.55	C
ATOM	4571	CG	ARG	H	41	182.818	167.929	232.368	1.00	16.00	C
ATOM	4572	CD	ARG	H	41	184.332	167.788	232.430	1.00	22.54	C
ATOM	4573	NE	ARG	H	41	184.995	169.059	232.698	1.00	21.74	N
ATOM	4574	CZ	ARG	H	41	186.308	169.241	232.660	1.00	22.16	C
ATOM	4575	NH1	ARG	H	41	187.134	168.252	232.365	1.00	20.06	N
ATOM	4576	NH2	ARG	H	41	186.804	170.446	232.925	1.00	25.56	N
ATOM	4577	N	GLN	H	42	179.652	167.317	233.968	1.00	22.98	N
ATOM	4578	CA	GLN	H	42	179.009	168.203	234.939	1.00	19.52	C
ATOM	4579	C	GLN	H	42	179.753	168.061	236.262	1.00	25.43	C
ATOM	4580	O	GLN	H	42	179.702	167.004	236.898	1.00	25.42	O
ATOM	4581	CB	GLN	H	42	177.531	167.869	235.102	1.00	17.35	C
ATOM	4582	CG	GLN	H	42	176.861	168.612	236.245	1.00	26.86	C
ATOM	4583	CD	GLN	H	42	175.401	168.905	235.976	1.00	28.09	C
ATOM	4584	OE1	GLN	H	42	174.836	168.442	234.986	1.00	32.87	O
ATOM	4585	NE2	GLN	H	42	174.782	169.684	236.854	1.00	27.79	N
ATOM	4586	N	ALA	H	43	180.438	169.125	236.671	1.00	26.73	N
ATOM	4587	CA	ALA	H	43	181.159	169.097	237.931	1.00	23.86	C
ATOM	4588	C	ALA	H	43	180.170	169.026	239.094	1.00	30.07	C
ATOM	4589	O	ALA	H	43	179.029	169.483	238.974	1.00	38.63	O
ATOM	4590	CB	ALA	H	43	182.048	170.329	238.068	1.00	28.85	C
ATOM	4591	N	PRO	H	44	180.570	168.424	240.214	1.00	36.86	N
ATOM	4592	CA	PRO	H	44	179.678	168.354	241.379	1.00	32.61	C
ATOM	4593	C	PRO	H	44	179.151	169.729	241.767	1.00	40.58	C
ATOM	4594	O	PRO	H	44	179.915	170.634	242.109	1.00	41.87	O
ATOM	4595	CB	PRO	H	44	180.573	167.764	242.478	1.00	36.17	C
ATOM	4596	CG	PRO	H	44	181.917	167.469	241.821	1.00	40.81	C
ATOM	4597	CD	PRO	H	44	181.703	167.500	240.348	1.00	42.71	C
ATOM	4598	N	GLY	H	45	177.829	169.878	241.705	1.00	39.52	N
ATOM	4599	CA	GLY	H	45	177.203	171.140	242.038	1.00	38.32	C
ATOM	4600	C	GLY	H	45	177.428	172.254	241.043	1.00	39.89	C
ATOM	4601	O	GLY	H	45	177.381	173.426	241.429	1.00	47.21	O
ATOM	4602	N	LYS	H	46	177.676	171.932	239.774	1.00	27.32	N
ATOM	4603	CA	LYS	H	46	177.961	172.953	238.774	1.00	25.55	C
ATOM	4604	C	LYS	H	46	177.160	172.715	237.501	1.00	28.45	C
ATOM	4605	O	LYS	H	46	176.381	171.760	237.418	1.00	28.79	O
ATOM	4606	CB	LYS	H	46	179.457	172.986	238.457	1.00	31.80	C
ATOM	4607	CG	LYS	H	46	180.267	173.890	239.371	1.00	34.22	C
ATOM	4608	CD	LYS	H	46	181.729	173.916	238.958	1.00	34.43	C
ATOM	4609	CE	LYS	H	46	182.646	173.902	240.169	1.00	33.74	C
ATOM	4610	NZ	LYS	H	46	183.685	172.840	240.064	1.00	36.74	N
ATOM	4611	N	GLY	H	47	177.348	173.579	236.503	1.00	34.79	N
ATOM	4612	CA	GLY	H	47	176.638	173.477	235.248	1.00	30.72	C
ATOM	4613	C	GLY	H	47	177.311	172.524	234.270	1.00	29.71	C
ATOM	4614	O	GLY	H	47	178.376	171.966	234.519	1.00	35.15	O

ATOM	4615	N	LEU	H	48	176.648	172.343	233.132	1.00	18.42	N
ATOM	4616	CA	LEU	H	48	177.160	171.455	232.099	1.00	8.84	C
ATOM	4617	C	LEU	H	48	178.366	172.074	231.403	1.00	10.13	C
ATOM	4618	O	LEU	H	48	178.453	173.293	231.240	1.00	24.15	O
ATOM	4619	CB	LEU	H	48	176.067	171.146	231.078	1.00	17.12	C
ATOM	4620	CG	LEU	H	48	174.860	170.357	231.585	1.00	9.42	C
ATOM	4621	CD1	LEU	H	48	173.680	170.520	230.642	1.00	8.95	C
ATOM	4622	CD2	LEU	H	48	175.214	168.892	231.754	1.00	16.89	C
ATOM	4623	N	GLU	H	49	179.299	171.220	230.988	1.00	8.66	N
ATOM	4624	CA	GLU	H	49	180.477	171.649	230.249	1.00	14.71	C
ATOM	4625	C	GLU	H	49	180.742	170.675	229.112	1.00	16.48	C
ATOM	4626	O	GLU	H	49	180.743	169.457	229.305	1.00	28.15	O
ATOM	4627	CB	GLU	H	49	181.716	171.744	231.148	1.00	16.50	C
ATOM	4628	CG	GLU	H	49	182.748	172.750	230.665	1.00	25.82	C
ATOM	4629	CD	GLU	H	49	184.050	172.668	231.435	1.00	28.91	C
ATOM	4630	OE1	GLU	H	49	184.214	171.718	232.227	1.00	21.17	O
ATOM	4631	OE2	GLU	H	49	184.912	173.551	231.243	1.00	32.17	O
ATOM	4632	N	TRP	H	50	180.965	171.225	227.923	1.00	12.47	N
ATOM	4633	CA	TRP	H	50	181.280	170.445	226.735	1.00	10.25	C
ATOM	4634	C	TRP	H	50	182.770	170.134	226.725	1.00	14.72	C
ATOM	4635	O	TRP	H	50	183.595	171.022	226.962	1.00	31.56	O
ATOM	4636	CB	TRP	H	50	180.870	171.199	225.468	1.00	17.31	C
ATOM	4637	CG	TRP	H	50	181.410	170.622	224.198	1.00	13.66	C
ATOM	4638	CD1	TRP	H	50	180.957	169.515	223.544	1.00	11.50	C
ATOM	4639	CD2	TRP	H	50	182.484	171.145	223.407	1.00	16.82	C
ATOM	4640	NE1	TRP	H	50	181.693	169.305	222.404	1.00	15.79	N
ATOM	4641	CE2	TRP	H	50	182.636	170.293	222.296	1.00	15.18	C
ATOM	4642	CE3	TRP	H	50	183.336	172.245	223.534	1.00	16.70	C
ATOM	4643	CZ2	TRP	H	50	183.604	170.508	221.320	1.00	15.13	C
ATOM	4644	CZ3	TRP	H	50	184.296	172.456	222.564	1.00	14.11	C
ATOM	4645	CH2	TRP	H	50	184.423	171.592	221.471	1.00	11.25	C
ATOM	4646	N	VAL	H	51	183.111	168.875	226.453	1.00	9.68	N
ATOM	4647	CA	VAL	H	51	184.489	168.393	226.521	1.00	10.80	C
ATOM	4648	C	VAL	H	51	185.071	168.167	225.129	1.00	17.49	C
ATOM	4649	O	VAL	H	51	186.085	168.765	224.766	1.00	23.89	O
ATOM	4650	CB	VAL	H	51	184.589	167.115	227.384	1.00	4.67	C
ATOM	4651	CG1	VAL	H	51	186.026	166.627	227.444	1.00	16.32	C
ATOM	4652	CG2	VAL	H	51	184.053	167.377	228.778	1.00	7.29	C
ATOM	4653	N	ALA	H	52	184.442	167.306	224.333	1.00	10.55	N
ATOM	4654	CA	ALA	H	52	184.983	166.956	223.028	1.00	2.72	C
ATOM	4655	C	ALA	H	52	183.855	166.459	222.136	1.00	5.99	C
ATOM	4656	O	ALA	H	52	182.758	166.145	222.600	1.00	16.37	O
ATOM	4657	CB	ALA	H	52	186.089	165.903	223.149	1.00	13.29	C
ATOM	4658	N	SER	H	53	184.148	166.392	220.839	1.00	10.42	N
ATOM	4659	CA	SER	H	53	183.189	165.940	219.842	1.00	8.26	C
ATOM	4660	C	SER	H	53	183.938	165.194	218.749	1.00	16.92	C
ATOM	4661	O	SER	H	53	185.068	165.554	218.408	1.00	31.45	O
ATOM	4662	CB	SER	H	53	182.406	167.115	219.247	1.00	13.23	C
ATOM	4663	OG	SER	H	53	181.192	166.677	218.666	1.00	25.65	O
ATOM	4664	N	ILE	H	54	183.307	164.156	218.207	1.00	9.94	N

ATOM	4665	CA	ILE	H	54	183.916	163.315	217.182	1.00	12.80	C
ATOM	4666	C	ILE	H	54	182.881	163.030	216.104	1.00	16.76	C
ATOM	4667	O	ILE	H	54	181.709	162.776	216.401	1.00	25.41	O
ATOM	4668	CB	ILE	H	54	184.475	162.005	217.781	1.00	17.01	C
ATOM	4669	CG1	ILE	H	54	185.036	161.095	216.686	1.00	14.28	C
ATOM	4670	CG2	ILE	H	54	183.408	161.277	218.582	1.00	19.04	C
ATOM	4671	CD1	ILE	H	54	186.343	161.570	216.104	1.00	17.93	C
ATOM	4672	N	SER	H	55	183.312	163.093	214.847	1.00	24.31	N
ATOM	4673	CA	SER	H	55	182.473	162.762	213.698	1.00	21.63	C
ATOM	4674	C	SER	H	55	183.120	161.588	212.973	1.00	26.87	C
ATOM	4675	O	SER	H	55	184.187	161.734	212.369	1.00	35.41	O
ATOM	4676	CB	SER	H	55	182.305	163.964	212.773	1.00	25.03	C
ATOM	4677	OG	SER	H	55	181.048	163.934	212.122	1.00	27.30	O
ATOM	4678	N	SER	H	56	182.479	160.425	213.034	1.00	27.88	N
ATOM	4679	CA	SER	H	56	182.993	159.261	212.334	1.00	26.90	C
ATOM	4680	C	SER	H	56	182.724	159.383	210.837	1.00	33.30	C
ATOM	4681	O	SER	H	56	181.845	160.128	210.394	1.00	37.88	O
ATOM	4682	CB	SER	H	56	182.369	157.981	212.888	1.00	28.58	C
ATOM	4683	OG	SER	H	56	182.471	157.936	214.300	1.00	27.61	O
ATOM	4684	N	SER	H	57	183.513	158.647	210.055	1.00	31.12	N
ATOM	4685	CA	SER	H	57	183.540	158.672	208.594	1.00	33.86	C
ATOM	4686	C	SER	H	57	184.008	160.013	208.044	1.00	34.50	C
ATOM	4687	O	SER	H	57	184.009	160.199	206.821	1.00	41.39	O
ATOM	4688	CB	SER	H	57	182.181	158.320	207.970	1.00	34.22	C
ATOM	4689	OG	SER	H	57	181.237	159.356	208.177	1.00	30.00	O
ATOM	4690	N	SER	H	58	184.401	160.956	208.901	1.00	31.18	N
ATOM	4691	CA	SER	H	58	184.968	162.226	208.469	1.00	33.97	C
ATOM	4692	C	SER	H	58	186.210	162.640	209.243	1.00	35.41	C
ATOM	4693	O	SER	H	58	187.021	163.399	208.700	1.00	34.45	O
ATOM	4694	CB	SER	H	58	183.924	163.348	208.576	1.00	27.38	C
ATOM	4695	OG	SER	H	58	182.627	162.867	208.270	1.00	34.20	O
ATOM	4696	N	GLY	H	59	186.387	162.176	210.479	1.00	31.44	N
ATOM	4697	CA	GLY	H	59	187.567	162.480	211.260	1.00	25.01	C
ATOM	4698	C	GLY	H	59	187.587	163.846	211.907	1.00	29.81	C
ATOM	4699	O	GLY	H	59	188.643	164.259	212.404	1.00	34.81	O
ATOM	4700	N	SER	H	60	186.464	164.560	211.926	1.00	29.15	N
ATOM	4701	CA	SER	H	60	186.432	165.899	212.498	1.00	32.40	C
ATOM	4702	C	SER	H	60	186.334	165.816	214.016	1.00	32.09	C
ATOM	4703	O	SER	H	60	185.343	165.313	214.556	1.00	29.65	O
ATOM	4704	CB	SER	H	60	185.257	166.688	211.926	1.00	34.23	C
ATOM	4705	OG	SER	H	60	185.383	166.844	210.523	1.00	39.30	O
ATOM	4706	N	THR	H	61	187.364	166.307	214.703	1.00	31.81	N
ATOM	4707	CA	THR	H	61	187.415	166.309	216.158	1.00	23.35	C
ATOM	4708	C	THR	H	61	187.524	167.740	216.662	1.00	32.07	C
ATOM	4709	O	THR	H	61	188.240	168.559	216.079	1.00	37.26	O
ATOM	4710	CB	THR	H	61	188.601	165.488	216.684	1.00	29.59	C
ATOM	4711	OG1	THR	H	61	189.792	166.283	216.633	1.00	43.41	O
ATOM	4712	CG2	THR	H	61	188.802	164.238	215.844	1.00	27.21	C
ATOM	4713	N	SER	H	62	186.808	168.034	217.745	1.00	21.91	N
ATOM	4714	CA	SER	H	62	186.839	169.347	218.371	1.00	20.43	C

ATOM	4715	C	SER	H	62	186.944	169.179	219.878	1.00	16.37		C
ATOM	4716	O	SER	H	62	186.318	168.285	220.452	1.00	21.98		O
ATOM	4717	CB	SER	H	62	185.592	170.165	218.019	1.00	17.47		C
ATOM	4718	OG	SER	H	62	185.248	170.005	216.654	1.00	28.09		O
ATOM	4719	N	TYR	H	63	187.739	170.037	220.513	1.00	17.68		N
ATOM	4720	CA	TYR	H	63	187.923	170.010	221.956	1.00	19.36		C
ATOM	4721	C	TYR	H	63	187.742	171.410	222.525	1.00	29.12		C
ATOM	4722	O	TYR	H	63	187.499	172.375	221.796	1.00	43.08		O
ATOM	4723	CB	TYR	H	63	189.305	169.463	222.358	1.00	28.72		C
ATOM	4724	CG	TYR	H	63	189.818	168.322	221.504	1.00	34.69		C
ATOM	4725	CD1	TYR	H	63	190.388	168.555	220.259	1.00	31.87		C
ATOM	4726	CD2	TYR	H	63	189.738	167.011	221.951	1.00	25.95		C
ATOM	4727	CE1	TYR	H	63	190.856	167.513	219.482	1.00	28.37		C
ATOM	4728	CE2	TYR	H	63	190.204	165.964	221.183	1.00	22.96		C
ATOM	4729	CZ	TYR	H	63	190.762	166.220	219.949	1.00	25.59		C
ATOM	4730	OH	TYR	H	63	191.228	165.180	219.180	1.00	25.36		O
ATOM	4731	N	ALA	H	64	187.872	171.508	223.844	1.00	26.10		N
ATOM	4732	CA	ALA	H	64	187.708	172.774	224.536	1.00	31.22		C
ATOM	4733	C	ALA	H	64	189.064	173.331	224.960	1.00	39.59		C
ATOM	4734	O	ALA	H	64	190.082	172.635	224.951	1.00	43.11		O
ATOM	4735	CB	ALA	H	64	186.803	172.608	225.756	1.00	26.39		C
ATOM	4736	N	ASP	H	65	189.064	174.610	225.344	1.00	44.23		N
ATOM	4737	CA	ASP	H	65	190.315	175.272	225.700	1.00	42.61		C
ATOM	4738	C	ASP	H	65	190.922	174.669	226.960	1.00	45.16		C
ATOM	4739	O	ASP	H	65	192.150	174.598	227.094	1.00	50.98		O
ATOM	4740	CB	ASP	H	65	190.083	176.773	225.877	1.00	45.71		C
ATOM	4741	CG	ASP	H	65	190.037	177.514	224.556	1.00	50.27		C
ATOM	4742	OD1	ASP	H	65	189.927	176.850	223.504	1.00	49.38		O
ATOM	4743	OD2	ASP	H	65	190.112	178.761	224.568	1.00	51.87		O
ATOM	4744	N	SER	H	66	190.081	174.224	227.893	1.00	34.51		N
ATOM	4745	CA	SER	H	66	190.562	173.554	229.093	1.00	37.62		C
ATOM	4746	C	SER	H	66	190.756	172.058	228.888	1.00	39.30		C
ATOM	4747	O	SER	H	66	191.169	171.368	229.826	1.00	42.25		O
ATOM	4748	CB	SER	H	66	189.591	173.790	230.252	1.00	36.77		C
ATOM	4749	OG	SER	H	66	188.251	173.823	229.793	1.00	38.95		O
ATOM	4750	N	VAL	H	67	190.467	171.550	227.694	1.00	37.75		N
ATOM	4751	CA	VAL	H	67	190.563	170.132	227.393	1.00	32.31		C
ATOM	4752	C	VAL	H	67	191.612	169.853	226.324	1.00	36.46		C
ATOM	4753	O	VAL	H	67	192.341	168.862	226.410	1.00	39.74		O
ATOM	4754	CB	VAL	H	67	189.181	169.582	226.976	1.00	34.11		C
ATOM	4755	CG1	VAL	H	67	189.309	168.233	226.295	1.00	33.51		C
ATOM	4756	CG2	VAL	H	67	188.264	169.488	228.186	1.00	32.54		C
ATOM	4757	N	LYS	H	68	191.710	170.724	225.320	1.00	38.16		N
ATOM	4758	CA	LYS	H	68	192.618	170.504	224.200	1.00	34.66		C
ATOM	4759	C	LYS	H	68	194.059	170.370	224.677	1.00	40.41		C
ATOM	4760	O	LYS	H	68	194.501	171.078	225.586	1.00	42.51		O
ATOM	4761	CB	LYS	H	68	192.504	171.655	223.201	1.00	32.20		C
ATOM	4762	CG	LYS	H	68	192.916	171.302	221.784	1.00	36.11		C
ATOM	4763	CD	LYS	H	68	192.827	172.516	220.874	1.00	40.87		C
ATOM	4764	CE	LYS	H	68	191.444	172.643	220.259	1.00	40.90		C

ATOM	4765	NZ	LYS	H	68	191.245	171.683	219.140	1.00	43.36	N
ATOM	4766	N	GLY	H	69	194.789	169.449	224.055	1.00	45.12	N
ATOM	4767	CA	GLY	H	69	196.171	169.202	224.413	1.00	43.43	C
ATOM	4768	C	GLY	H	69	196.337	168.004	225.323	1.00	43.02	C
ATOM	4769	O	GLY	H	69	197.280	167.222	225.170	1.00	40.93	O
ATOM	4770	N	ARG	H	70	195.420	167.850	226.279	1.00	44.30	N
ATOM	4771	CA	ARG	H	70	195.495	166.733	227.215	1.00	40.74	C
ATOM	4772	C	ARG	H	70	194.623	165.568	226.760	1.00	41.48	C
ATOM	4773	O	ARG	H	70	195.088	164.427	226.670	1.00	41.33	O
ATOM	4774	CB	ARG	H	70	195.081	167.192	228.616	1.00	35.38	C
ATOM	4775	CG	ARG	H	70	196.055	168.149	229.276	1.00	41.21	C
ATOM	4776	CD	ARG	H	70	195.610	168.479	230.690	1.00	42.26	C
ATOM	4777	NE	ARG	H	70	194.433	169.339	230.702	1.00	47.69	N
ATOM	4778	CZ	ARG	H	70	193.357	169.123	231.446	1.00	42.65	C
ATOM	4779	NH1	ARG	H	70	193.274	168.082	232.257	1.00	38.27	N
ATOM	4780	NH2	ARG	H	70	192.337	169.973	231.373	1.00	43.94	N
ATOM	4781	N	PHE	H	71	193.354	165.837	226.472	1.00	38.58	N
ATOM	4782	CA	PHE	H	71	192.399	164.781	226.177	1.00	32.02	C
ATOM	4783	C	PHE	H	71	192.363	164.495	224.679	1.00	35.50	C
ATOM	4784	O	PHE	H	71	192.627	165.365	223.846	1.00	39.59	O
ATOM	4785	CB	PHE	H	71	190.991	165.149	226.658	1.00	27.87	C
ATOM	4786	CG	PHE	H	71	190.869	165.362	228.151	1.00	31.75	C
ATOM	4787	CD1	PHE	H	71	191.976	165.335	228.984	1.00	37.68	C
ATOM	4788	CD2	PHE	H	71	189.624	165.579	228.719	1.00	28.07	C
ATOM	4789	CE1	PHE	H	71	191.846	165.537	230.345	1.00	37.91	C
ATOM	4790	CE2	PHE	H	71	189.488	165.775	230.078	1.00	31.05	C
ATOM	4791	CZ	PHE	H	71	190.600	165.752	230.892	1.00	32.61	C
ATOM	4792	N	THR	H	72	192.033	163.250	224.346	1.00	27.86	N
ATOM	4793	CA	THR	H	72	191.861	162.827	222.966	1.00	31.52	C
ATOM	4794	C	THR	H	72	190.545	162.074	222.843	1.00	29.48	C
ATOM	4795	O	THR	H	72	190.106	161.406	223.783	1.00	29.29	O
ATOM	4796	CB	THR	H	72	193.024	161.944	222.496	1.00	35.38	C
ATOM	4797	OG1	THR	H	72	194.239	162.386	223.113	1.00	38.29	O
ATOM	4798	CG2	THR	H	72	193.178	162.024	220.986	1.00	32.74	C
ATOM	4799	N	ILE	H	73	189.917	162.188	221.677	1.00	26.12	N
ATOM	4800	CA	ILE	H	73	188.632	161.553	221.415	1.00	17.34	C
ATOM	4801	C	ILE	H	73	188.742	160.741	220.134	1.00	31.12	C
ATOM	4802	O	ILE	H	73	189.381	161.169	219.166	1.00	39.82	O
ATOM	4803	CB	ILE	H	73	187.491	162.591	221.321	1.00	18.61	C
ATOM	4804	CG1	ILE	H	73	186.147	161.898	221.097	1.00	15.50	C
ATOM	4805	CG2	ILE	H	73	187.764	163.607	220.222	1.00	25.63	C
ATOM	4806	CD1	ILE	H	73	184.963	162.712	221.551	1.00	20.23	C
ATOM	4807	N	SER	H	74	188.131	159.559	220.133	1.00	28.44	N
ATOM	4808	CA	SER	H	74	188.150	158.691	218.966	1.00	26.90	C
ATOM	4809	C	SER	H	74	186.836	157.931	218.901	1.00	24.04	C
ATOM	4810	O	SER	H	74	186.009	158.000	219.812	1.00	27.37	O
ATOM	4811	CB	SER	H	74	189.339	157.724	219.004	1.00	30.51	C
ATOM	4812	OG	SER	H	74	189.502	157.167	220.296	1.00	28.05	O
ATOM	4813	N	ALA	H	75	186.659	157.181	217.817	1.00	31.96	N
ATOM	4814	CA	ALA	H	75	185.444	156.399	217.622	1.00	30.32	C

ATOM	4815	C	ALA	H	75	185.781	155.184	216.776	1.00	32.61	C
ATOM	4816	O	ALA	H	75	186.309	155.326	215.669	1.00	32.45	O
ATOM	4817	CB	ALA	H	75	184.348	157.234	216.957	1.00	35.16	C
ATOM	4818	N	ASP	H	76	185.482	153.998	217.297	1.00	42.14	N
ATOM	4819	CA	ASP	H	76	185.731	152.745	216.598	1.00	44.15	C
ATOM	4820	C	ASP	H	76	184.419	152.234	216.015	1.00	40.28	C
ATOM	4821	O	ASP	H	76	183.440	152.040	216.749	1.00	38.04	O
ATOM	4822	CB	ASP	H	76	186.347	151.708	217.537	1.00	44.10	C
ATOM	4823	CG	ASP	H	76	186.819	150.469	216.804	1.00	47.06	C
ATOM	4824	OD1	ASP	H	76	187.203	150.588	215.622	1.00	43.01	O
ATOM	4825	OD2	ASP	H	76	186.809	149.378	217.410	1.00	48.19	O
ATOM	4826	N	THR	H	77	184.402	152.027	214.698	1.00	45.92	N
ATOM	4827	CA	THR	H	77	183.223	151.522	214.008	1.00	45.86	C
ATOM	4828	C	THR	H	77	183.172	150.003	213.949	1.00	44.78	C
ATOM	4829	O	THR	H	77	182.134	149.447	213.572	1.00	44.22	O
ATOM	4830	CB	THR	H	77	183.164	152.078	212.582	1.00	42.80	C
ATOM	4831	OG1	THR	H	77	184.447	151.938	211.960	1.00	49.71	O
ATOM	4832	CG2	THR	H	77	182.780	153.546	212.605	1.00	38.06	C
ATOM	4833	N	SER	H	78	184.258	149.319	214.314	1.00	47.42	N
ATOM	4834	CA	SER	H	78	184.225	147.862	214.358	1.00	48.07	C
ATOM	4835	C	SER	H	78	183.504	147.378	215.607	1.00	48.48	C
ATOM	4836	O	SER	H	78	182.919	146.289	215.617	1.00	52.46	O
ATOM	4837	CB	SER	H	78	185.645	147.300	214.303	1.00	49.25	C
ATOM	4838	OG	SER	H	78	186.343	147.788	213.171	1.00	54.09	O
ATOM	4839	N	LYS	H	79	183.530	148.181	216.668	1.00	45.32	N
ATOM	4840	CA	LYS	H	79	182.773	147.910	217.880	1.00	44.42	C
ATOM	4841	C	LYS	H	79	181.581	148.840	218.047	1.00	51.30	C
ATOM	4842	O	LYS	H	79	180.781	148.634	218.967	1.00	53.75	O
ATOM	4843	CB	LYS	H	79	183.683	148.026	219.108	1.00	41.20	C
ATOM	4844	CG	LYS	H	79	184.844	147.047	219.121	1.00	46.45	C
ATOM	4845	CD	LYS	H	79	184.364	145.626	219.370	1.00	49.59	C
ATOM	4846	CE	LYS	H	79	185.534	144.675	219.565	1.00	48.06	C
ATOM	4847	NZ	LYS	H	79	186.526	145.209	220.538	1.00	49.65	N
ATOM	4848	N	ASN	H	80	181.442	149.842	217.175	1.00	41.61	N
ATOM	4849	CA	ASN	H	80	180.356	150.821	217.245	1.00	31.91	C
ATOM	4850	C	ASN	H	80	180.357	151.561	218.581	1.00	28.80	C
ATOM	4851	O	ASN	H	80	179.323	151.695	219.237	1.00	28.60	O
ATOM	4852	CB	ASN	H	80	178.998	150.161	216.990	1.00	32.35	C
ATOM	4853	CG	ASN	H	80	177.957	151.141	216.490	1.00	36.17	C
ATOM	4854	OD1	ASN	H	80	178.152	151.808	215.475	1.00	42.55	O
ATOM	4855	ND2	ASN	H	80	176.842	151.236	217.205	1.00	27.55	N
ATOM	4856	N	THR	H	81	181.529	152.045	218.992	1.00	32.77	N
ATOM	4857	CA	THR	H	81	181.673	152.776	220.244	1.00	31.21	C
ATOM	4858	C	THR	H	81	182.531	154.014	220.026	1.00	35.49	C
ATOM	4859	O	THR	H	81	183.158	154.192	218.980	1.00	38.93	O
ATOM	4860	CB	THR	H	81	182.299	151.920	221.360	1.00	32.89	C
ATOM	4861	OG1	THR	H	81	183.728	151.986	221.269	1.00	37.24	O
ATOM	4862	CG2	THR	H	81	181.849	150.472	221.285	1.00	35.90	C
ATOM	4863	N	ALA	H	82	182.542	154.879	221.036	1.00	25.17	N
ATOM	4864	CA	ALA	H	82	183.421	156.035	221.089	1.00	24.03	C

ATOM	4865	C	ALA	H	82	184.312	155.933	222.320	1.00	26.35	C
ATOM	4866	O	ALA	H	82	183.968	155.277	223.305	1.00	34.05	O
ATOM	4867	CB	ALA	H	82	182.626	157.345	221.116	1.00	25.96	C
ATOM	4868	N	TYR	H	83	185.468	156.588	222.259	1.00	25.48	N
ATOM	4869	CA	TYR	H	83	186.438	156.533	223.341	1.00	23.07	C
ATOM	4870	C	TYR	H	83	186.937	157.932	223.660	1.00	30.45	C
ATOM	4871	O	TYR	H	83	187.130	158.754	222.758	1.00	38.88	O
ATOM	4872	CB	TYR	H	83	187.631	155.636	222.986	1.00	30.99	C
ATOM	4873	CG	TYR	H	83	187.261	154.210	222.654	1.00	32.20	C
ATOM	4874	CD1	TYR	H	83	186.888	153.320	223.652	1.00	30.28	C
ATOM	4875	CD2	TYR	H	83	187.293	153.751	221.345	1.00	28.58	C
ATOM	4876	CE1	TYR	H	83	186.552	152.016	223.354	1.00	33.15	C
ATOM	4877	CE2	TYR	H	83	186.960	152.448	221.038	1.00	28.32	C
ATOM	4878	CZ	TYR	H	83	186.591	151.584	222.046	1.00	36.97	C
ATOM	4879	OH	TYR	H	83	186.256	150.284	221.746	1.00	42.41	O
ATOM	4880	N	LEU	H	84	187.159	158.188	224.948	1.00	20.17	N
ATOM	4881	CA	LEU	H	84	187.751	159.436	225.419	1.00	19.37	C
ATOM	4882	C	LEU	H	84	188.923	159.084	226.323	1.00	17.21	C
ATOM	4883	O	LEU	H	84	188.727	158.540	227.415	1.00	31.34	O
ATOM	4884	CB	LEU	H	84	186.725	160.296	226.158	1.00	21.14	C
ATOM	4885	CG	LEU	H	84	187.150	161.722	226.516	1.00	19.58	C
ATOM	4886	CD1	LEU	H	84	187.261	162.586	225.272	1.00	24.72	C
ATOM	4887	CD2	LEU	H	84	186.171	162.332	227.502	1.00	16.09	C
ATOM	4888	N	GLN	H	85	190.134	159.386	225.867	1.00	18.40	N
ATOM	4889	CA	GLN	H	85	191.349	159.117	226.623	1.00	28.21	C
ATOM	4890	C	GLN	H	85	191.849	160.421	227.228	1.00	34.04	C
ATOM	4891	O	GLN	H	85	192.230	161.342	226.499	1.00	38.21	O
ATOM	4892	CB	GLN	H	85	192.419	158.491	225.728	1.00	31.14	C
ATOM	4893	CG	GLN	H	85	193.836	158.620	226.264	1.00	29.31	C
ATOM	4894	CD	GLN	H	85	194.270	157.409	227.060	1.00	34.92	C
ATOM	4895	OE1	GLN	H	85	193.550	156.414	227.141	1.00	29.94	O
ATOM	4896	NE2	GLN	H	85	195.454	157.486	227.656	1.00	41.44	N
ATOM	4897	N	MET	H	86	191.848	160.500	228.556	1.00	31.95	N
ATOM	4898	CA	MET	H	86	192.322	161.680	229.268	1.00	30.32	C
ATOM	4899	C	MET	H	86	193.618	161.338	229.990	1.00	33.42	C
ATOM	4900	O	MET	H	86	193.614	160.561	230.949	1.00	40.64	O
ATOM	4901	CB	MET	H	86	191.273	162.201	230.250	1.00	33.27	C
ATOM	4902	CG	MET	H	86	190.521	161.147	231.036	1.00	35.62	C
ATOM	4903	SD	MET	H	86	189.054	161.864	231.799	1.00	47.17	S
ATOM	4904	CE	MET	H	86	187.796	161.402	230.620	1.00	33.96	C
ATOM	4905	N	ASN	H	87	194.722	161.912	229.525	1.00	38.49	N
ATOM	4906	CA	ASN	H	87	196.003	161.844	230.209	1.00	39.67	C
ATOM	4907	C	ASN	H	87	196.330	163.209	230.800	1.00	44.34	C
ATOM	4908	O	ASN	H	87	195.716	164.223	230.456	1.00	50.41	O
ATOM	4909	CB	ASN	H	87	197.113	161.381	229.258	1.00	39.42	C
ATOM	4910	CG	ASN	H	87	197.043	162.057	227.904	1.00	49.57	C
ATOM	4911	OD1	ASN	H	87	196.172	161.753	227.090	1.00	49.05	O
ATOM	4912	ND2	ASN	H	87	197.963	162.982	227.657	1.00	50.47	N
ATOM	4913	N	SER	H	88	197.313	163.221	231.702	1.00	48.24	N
ATOM	4914	CA	SER	H	88	197.675	164.425	232.454	1.00	49.05	C

ATOM	4915	C	SER	H	88	196.466	164.982	233.201	1.00	49.18	C
ATOM	4916	O	SER	H	88	196.188	166.183	233.173	1.00	48.76	O
ATOM	4917	CB	SER	H	88	198.293	165.487	231.541	1.00	51.02	C
ATOM	4918	OG	SER	H	88	199.669	165.237	231.315	1.00	50.38	O
ATOM	4919	N	LEU	H	89	195.733	164.092	233.867	1.00	46.05	N
ATOM	4920	CA	LEU	H	89	194.533	164.494	234.589	1.00	47.34	C
ATOM	4921	C	LEU	H	89	194.878	165.412	235.754	1.00	47.77	C
ATOM	4922	O	LEU	H	89	195.919	165.264	236.401	1.00	56.50	O
ATOM	4923	CB	LEU	H	89	193.782	163.264	235.100	1.00	46.23	C
ATOM	4924	CG	LEU	H	89	192.845	162.576	234.109	1.00	45.97	C
ATOM	4925	CD1	LEU	H	89	192.383	161.234	234.651	1.00	42.87	C
ATOM	4926	CD2	LEU	H	89	191.656	163.472	233.806	1.00	44.20	C
ATOM	4927	N	ARG	H	90	193.990	166.363	236.021	1.00	44.84	N
ATOM	4928	CA	ARG	H	90	194.135	167.312	237.112	1.00	49.39	C
ATOM	4929	C	ARG	H	90	192.972	167.148	238.081	1.00	49.41	C
ATOM	4930	O	ARG	H	90	191.956	166.521	237.770	1.00	49.71	O
ATOM	4931	CB	ARG	H	90	194.191	168.751	236.585	1.00	49.07	C
ATOM	4932	CG	ARG	H	90	195.547	169.417	236.709	1.00	50.80	C
ATOM	4933	CD	ARG	H	90	195.420	170.924	236.554	1.00	52.20	C
ATOM	4934	NE	ARG	H	90	195.298	171.334	235.159	1.00	51.42	N
ATOM	4935	CZ	ARG	H	90	196.276	171.277	234.265	1.00	51.43	C
ATOM	4936	NH1	ARG	H	90	197.483	170.841	234.586	1.00	52.88	N
ATOM	4937	NH2	ARG	H	90	196.039	171.676	233.019	1.00	47.63	N
ATOM	4938	N	ALA	H	91	193.131	167.725	239.274	1.00	49.69	N
ATOM	4939	CA	ALA	H	91	192.083	167.647	240.286	1.00	45.93	C
ATOM	4940	C	ALA	H	91	190.797	168.339	239.852	1.00	51.66	C
ATOM	4941	O	ALA	H	91	189.741	168.075	240.436	1.00	52.09	O
ATOM	4942	CB	ALA	H	91	192.579	168.248	241.604	1.00	47.12	C
ATOM	4943	N	GLU	H	92	190.860	169.216	238.852	1.00	53.09	N
ATOM	4944	CA	GLU	H	92	189.693	169.949	238.381	1.00	48.21	C
ATOM	4945	C	GLU	H	92	188.850	169.165	237.382	1.00	49.34	C
ATOM	4946	O	GLU	H	92	187.763	169.629	237.019	1.00	46.41	O
ATOM	4947	CB	GLU	H	92	190.129	171.275	237.751	1.00	50.76	C
ATOM	4948	CG	GLU	H	92	191.145	171.125	236.628	1.00	53.70	C
ATOM	4949	CD	GLU	H	92	191.116	172.289	235.656	1.00	58.59	C
ATOM	4950	OE1	GLU	H	92	191.113	173.449	236.118	1.00	56.53	O
ATOM	4951	OE2	GLU	H	92	191.099	172.044	234.431	1.00	54.21	O
ATOM	4952	N	ASP	H	93	189.312	168.002	236.929	1.00	46.13	N
ATOM	4953	CA	ASP	H	93	188.593	167.221	235.930	1.00	40.68	C
ATOM	4954	C	ASP	H	93	187.595	166.240	236.532	1.00	37.65	C
ATOM	4955	O	ASP	H	93	186.995	165.460	235.786	1.00	37.41	O
ATOM	4956	CB	ASP	H	93	189.578	166.461	235.036	1.00	39.45	C
ATOM	4957	CG	ASP	H	93	190.624	167.366	234.423	1.00	49.47	C
ATOM	4958	OD1	ASP	H	93	191.716	167.492	235.009	1.00	51.81	O
ATOM	4959	OD2	ASP	H	93	190.353	167.956	233.356	1.00	48.06	O
ATOM	4960	N	THR	H	94	187.406	166.249	237.849	1.00	33.12	N
ATOM	4961	CA	THR	H	94	186.421	165.366	238.458	1.00	33.09	C
ATOM	4962	C	THR	H	94	185.012	165.881	238.184	1.00	32.73	C
ATOM	4963	O	THR	H	94	184.687	167.033	238.485	1.00	36.61	O
ATOM	4964	CB	THR	H	94	186.669	165.239	239.963	1.00	32.91	C

ATOM	4965	OG1	THR	H	94	185.582	164.529	240.572	1.00	29.90	O
ATOM	4966	CG2	THR	H	94	186.827	166.606	240.619	1.00	32.55	C
ATOM	4967	N	ALA	H	95	184.186	165.031	237.587	1.00	28.51	N
ATOM	4968	CA	ALA	H	95	182.821	165.391	237.218	1.00	24.98	C
ATOM	4969	C	ALA	H	95	182.068	164.107	236.893	1.00	22.73	C
ATOM	4970	O	ALA	H	95	182.557	162.998	237.130	1.00	28.22	O
ATOM	4971	CB	ALA	H	95	182.800	166.364	236.037	1.00	29.73	C
ATOM	4972	N	VAL	H	96	180.866	164.269	236.349	1.00	23.49	N
ATOM	4973	CA	VAL	H	96	180.062	163.162	235.845	1.00	18.48	C
ATOM	4974	C	VAL	H	96	179.982	163.327	234.334	1.00	21.10	C
ATOM	4975	O	VAL	H	96	179.375	164.282	233.835	1.00	22.87	O
ATOM	4976	CB	VAL	H	96	178.667	163.130	236.479	1.00	10.58	C
ATOM	4977	CG1	VAL	H	96	177.874	161.951	235.949	1.00	4.54	C
ATOM	4978	CG2	VAL	H	96	178.776	163.067	237.993	1.00	25.01	C
ATOM	4979	N	TYR	H	97	180.592	162.398	233.603	1.00	17.58	N
ATOM	4980	CA	TYR	H	97	180.711	162.507	232.156	1.00	8.40	C
ATOM	4981	C	TYR	H	97	179.525	161.832	231.480	1.00	6.12	C
ATOM	4982	O	TYR	H	97	179.186	160.690	231.801	1.00	23.78	O
ATOM	4983	CB	TYR	H	97	182.023	161.883	231.679	1.00	2.60	C
ATOM	4984	CG	TYR	H	97	183.248	162.700	232.026	1.00	11.20	C
ATOM	4985	CD1	TYR	H	97	183.721	162.757	233.330	1.00	14.62	C
ATOM	4986	CD2	TYR	H	97	183.931	163.413	231.051	1.00	16.14	C
ATOM	4987	CE1	TYR	H	97	184.838	163.501	233.653	1.00	18.22	C
ATOM	4988	CE2	TYR	H	97	185.049	164.160	231.366	1.00	18.71	C
ATOM	4989	CZ	TYR	H	97	185.498	164.200	232.668	1.00	18.61	C
ATOM	4990	OH	TYR	H	97	186.611	164.942	232.988	1.00	25.28	O
ATOM	4991	N	TYR	H	98	178.900	162.543	230.549	1.00	0.00	N
ATOM	4992	CA	TYR	H	98	177.765	162.039	229.794	1.00	8.40	C
ATOM	4993	C	TYR	H	98	178.181	161.747	228.356	1.00	21.19	C
ATOM	4994	O	TYR	H	98	179.318	161.989	227.945	1.00	30.20	O
ATOM	4995	CB	TYR	H	98	176.605	163.036	229.824	1.00	6.58	C
ATOM	4996	CG	TYR	H	98	176.042	163.306	231.199	1.00	14.42	C
ATOM	4997	CD1	TYR	H	98	176.575	164.303	232.005	1.00	23.29	C
ATOM	4998	CD2	TYR	H	98	174.969	162.574	231.687	1.00	10.47	C
ATOM	4999	CE1	TYR	H	98	176.060	164.557	233.260	1.00	23.74	C
ATOM	5000	CE2	TYR	H	98	174.448	162.820	232.941	1.00	9.59	C
ATOM	5001	CZ	TYR	H	98	174.997	163.813	233.723	1.00	17.92	C
ATOM	5002	OH	TYR	H	98	174.481	164.063	234.973	1.00	18.61	O
ATOM	5003	N	CYS	H	99	177.228	161.230	227.586	1.00	20.05	N
ATOM	5004	CA	CYS	H	99	177.425	160.946	226.172	1.00	1.04	C
ATOM	5005	C	CYS	H	99	176.151	161.337	225.445	1.00	12.41	C
ATOM	5006	O	CYS	H	99	175.058	160.933	225.852	1.00	33.67	O
ATOM	5007	CB	CYS	H	99	177.743	159.467	225.943	1.00	13.14	C
ATOM	5008	SG	CYS	H	99	178.728	159.080	224.485	1.00	38.26	S
ATOM	5009	N	ALA	H	100	176.290	162.116	224.380	1.00	4.37	N
ATOM	5010	CA	ALA	H	100	175.143	162.651	223.669	1.00	4.32	C
ATOM	5011	C	ALA	H	100	175.241	162.312	222.191	1.00	12.67	C
ATOM	5012	O	ALA	H	100	176.333	162.157	221.639	1.00	22.37	O
ATOM	5013	CB	ALA	H	100	175.028	164.169	223.848	1.00	6.95	C
ATOM	5014	N	ARG	H	101	174.080	162.201	221.561	1.00	10.91	N

ATOM	5015	CA	ARG	H	101	173.971	161.968	220.132	1.00	4.27	C
ATOM	5016	C	ARG	H	101	173.339	163.188	219.478	1.00	5.27	C
ATOM	5017	O	ARG	H	101	172.490	163.854	220.076	1.00	22.07	O
ATOM	5018	CB	ARG	H	101	173.135	160.718	219.850	1.00	4.63	C
ATOM	5019	CG	ARG	H	101	172.981	160.374	218.382	1.00	8.59	C
ATOM	5020	CD	ARG	H	101	171.978	159.253	218.196	1.00	15.91	C
ATOM	5021	NE	ARG	H	101	170.699	159.749	217.702	1.00	18.57	N
ATOM	5022	CZ	ARG	H	101	169.796	159.003	217.081	1.00	18.62	C
ATOM	5023	NH1	ARG	H	101	170.006	157.719	216.843	1.00	14.58	N
ATOM	5024	NH2	ARG	H	101	168.654	159.560	216.690	1.00	26.50	N
ATOM	5025	N	SER	H	102	173.773	163.495	218.261	1.00	1.04	N
ATOM	5026	CA	SER	H	102	173.236	164.630	217.528	1.00	5.94	C
ATOM	5027	C	SER	H	102	173.386	164.354	216.039	1.00	15.71	C
ATOM	5028	O	SER	H	102	173.912	163.317	215.629	1.00	15.84	O
ATOM	5029	CB	SER	H	102	173.932	165.930	217.941	1.00	17.32	C
ATOM	5030	OG	SER	H	102	175.141	166.118	217.228	1.00	27.66	O
ATOM	5031	N	GLY	H	103	172.915	165.294	215.226	1.00	14.54	N
ATOM	5032	CA	GLY	H	103	172.985	165.124	213.791	1.00	9.03	C
ATOM	5033	C	GLY	H	103	174.202	165.793	213.193	1.00	18.86	C
ATOM	5034	O	GLY	H	103	175.331	165.354	213.428	1.00	32.31	O
ATOM	5035	N	TYR	H	104	173.993	166.875	212.449	1.00	18.80	N
ATOM	5036	CA	TYR	H	104	175.066	167.548	211.735	1.00	19.17	C
ATOM	5037	C	TYR	H	104	174.789	169.042	211.702	1.00	19.72	C
ATOM	5038	O	TYR	H	104	173.654	169.489	211.881	1.00	18.25	O
ATOM	5039	CB	TYR	H	104	175.220	167.014	210.304	1.00	14.00	C
ATOM	5040	CG	TYR	H	104	175.846	165.641	210.205	1.00	19.17	C
ATOM	5041	CD1	TYR	H	104	176.991	165.326	210.923	1.00	21.57	C
ATOM	5042	CD2	TYR	H	104	175.291	164.660	209.396	1.00	17.61	C
ATOM	5043	CE1	TYR	H	104	177.565	164.075	210.837	1.00	16.63	C
ATOM	5044	CE2	TYR	H	104	175.859	163.406	209.303	1.00	12.82	C
ATOM	5045	CZ	TYR	H	104	176.996	163.119	210.025	1.00	18.40	C
ATOM	5046	OH	TYR	H	104	177.566	161.871	209.936	1.00	23.16	O
ATOM	5047	N	TYR	H	105	175.846	169.811	211.463	1.00	20.48	N
ATOM	5048	CA	TYR	H	105	175.745	171.261	211.379	1.00	20.20	C
ATOM	5049	C	TYR	H	105	175.609	171.668	209.918	1.00	26.16	C
ATOM	5050	O	TYR	H	105	176.513	171.424	209.112	1.00	26.37	O
ATOM	5051	CB	TYR	H	105	176.964	171.931	212.013	1.00	18.30	C
ATOM	5052	CG	TYR	H	105	177.271	171.458	213.415	1.00	14.61	C
ATOM	5053	CD1	TYR	H	105	178.092	170.361	213.636	1.00	23.69	C
ATOM	5054	CD2	TYR	H	105	176.743	172.113	214.517	1.00	14.01	C
ATOM	5055	CE1	TYR	H	105	178.374	169.928	214.916	1.00	24.47	C
ATOM	5056	CE2	TYR	H	105	177.021	171.689	215.800	1.00	21.05	C
ATOM	5057	CZ	TYR	H	105	177.836	170.597	215.994	1.00	25.31	C
ATOM	5058	OH	TYR	H	105	178.114	170.172	217.272	1.00	25.11	O
ATOM	5059	N	TRP	H	106	174.482	172.286	209.584	1.00	20.11	N
ATOM	5060	CA	TRP	H	106	174.210	172.772	208.239	1.00	20.34	C
ATOM	5061	C	TRP	H	106	174.297	174.284	208.134	1.00	24.67	C
ATOM	5062	O	TRP	H	106	174.758	174.808	207.118	1.00	30.86	O
ATOM	5063	CB	TRP	H	106	172.816	172.319	207.790	1.00	6.09	C
ATOM	5064	CG	TRP	H	106	172.575	170.851	207.960	1.00	21.20	C

ATOM	5065	CD1	TRP	H	106	171.646	170.266	208.768	1.00	21.37	C
ATOM	5066	CD2	TRP	H	106	173.277	169.781	207.316	1.00	25.51	C
ATOM	5067	NE1	TRP	H	106	171.722	168.899	208.665	1.00	17.24	N
ATOM	5068	CE2	TRP	H	106	172.716	168.575	207.780	1.00	13.64	C
ATOM	5069	CE3	TRP	H	106	174.323	169.724	206.390	1.00	16.76	C
ATOM	5070	CZ2	TRP	H	106	173.165	167.330	207.351	1.00	9.55	C
ATOM	5071	CZ3	TRP	H	106	174.767	168.487	205.967	1.00	15.55	C
ATOM	5072	CH2	TRP	H	106	174.189	167.307	206.446	1.00	11.46	C
ATOM	5073	N	GLY	H	107	173.875	174.989	209.176	1.00	18.15	N
ATOM	5074	CA	GLY	H	107	173.797	176.426	209.174	1.00	17.84	C
ATOM	5075	C	GLY	H	107	173.278	176.904	210.511	1.00	30.37	C
ATOM	5076	O	GLY	H	107	173.788	176.529	211.571	1.00	39.86	O
ATOM	5077	N	PRO	H	108	172.247	177.753	210.488	1.00	22.82	N
ATOM	5078	CA	PRO	H	108	171.556	178.108	211.735	1.00	19.86	C
ATOM	5079	C	PRO	H	108	170.701	176.984	212.303	1.00	24.17	C
ATOM	5080	O	PRO	H	108	169.996	177.210	213.293	1.00	30.67	O
ATOM	5081	CB	PRO	H	108	170.688	179.304	211.320	1.00	27.06	C
ATOM	5082	CG	PRO	H	108	170.446	179.102	209.864	1.00	25.65	C
ATOM	5083	CD	PRO	H	108	171.667	178.423	209.312	1.00	19.62	C
ATOM	5084	N	TYR	H	109	170.738	175.790	211.713	1.00	22.48	N
ATOM	5085	CA	TYR	H	109	169.939	174.653	212.151	1.00	14.88	C
ATOM	5086	C	TYR	H	109	170.874	173.519	212.543	1.00	14.04	C
ATOM	5087	O	TYR	H	109	171.792	173.183	211.788	1.00	21.07	O
ATOM	5088	CB	TYR	H	109	168.989	174.193	211.043	1.00	12.27	C
ATOM	5089	CG	TYR	H	109	168.395	175.325	210.236	1.00	13.13	C
ATOM	5090	CD1	TYR	H	109	167.307	176.047	210.707	1.00	16.59	C
ATOM	5091	CD2	TYR	H	109	168.927	175.673	209.003	1.00	13.55	C
ATOM	5092	CE1	TYR	H	109	166.766	177.083	209.969	1.00	12.82	C
ATOM	5093	CE2	TYR	H	109	168.394	176.705	208.260	1.00	18.72	C
ATOM	5094	CZ	TYR	H	109	167.314	177.407	208.747	1.00	20.99	C
ATOM	5095	OH	TYR	H	109	166.780	178.436	208.007	1.00	31.30	O
ATOM	5096	N	PHE	H	110	170.644	172.930	213.718	1.00	13.18	N
ATOM	5097	CA	PHE	H	110	171.512	171.870	214.219	1.00	16.34	C
ATOM	5098	C	PHE	H	110	170.739	170.600	214.551	1.00	17.73	C
ATOM	5099	O	PHE	H	110	171.201	169.502	214.223	1.00	30.68	O
ATOM	5100	CB	PHE	H	110	172.279	172.371	215.449	1.00	13.87	C
ATOM	5101	CG	PHE	H	110	173.022	171.295	216.187	1.00	16.57	C
ATOM	5102	CD1	PHE	H	110	173.826	170.397	215.506	1.00	21.33	C
ATOM	5103	CD2	PHE	H	110	172.910	171.176	217.560	1.00	18.51	C
ATOM	5104	CE1	PHE	H	110	174.507	169.408	216.181	1.00	19.45	C
ATOM	5105	CE2	PHE	H	110	173.590	170.188	218.240	1.00	9.07	C
ATOM	5106	CZ	PHE	H	110	174.390	169.305	217.549	1.00	13.83	C
ATOM	5107	N	GLY	H	111	169.569	170.711	215.177	1.00	5.95	N
ATOM	5108	CA	GLY	H	111	168.763	169.566	215.545	1.00	8.95	C
ATOM	5109	C	GLY	H	111	168.738	169.257	217.028	1.00	20.74	C
ATOM	5110	O	GLY	H	111	167.716	168.767	217.524	1.00	24.02	O
ATOM	5111	N	GLY	H	112	169.824	169.512	217.747	1.00	20.85	N
ATOM	5112	CA	GLY	H	112	169.839	169.333	219.186	1.00	12.66	C
ATOM	5113	C	GLY	H	112	170.607	168.101	219.623	1.00	19.77	C
ATOM	5114	O	GLY	H	112	171.059	167.279	218.821	1.00	24.74	O

ATOM	5115	N	PHE	H	113	170.745	167.981	220.941	1.00	19.02	N
ATOM	5116	CA	PHE	H	113	171.459	166.880	221.585	1.00	1.18	C
ATOM	5117	C	PHE	H	113	170.418	165.872	222.065	1.00	2.54	C
ATOM	5118	O	PHE	H	113	170.046	165.847	223.237	1.00	20.37	O
ATOM	5119	CB	PHE	H	113	172.305	167.395	222.754	1.00	9.75	C
ATOM	5120	CG	PHE	H	113	173.711	167.757	222.384	1.00	11.24	C
ATOM	5121	CD1	PHE	H	113	174.033	168.121	221.090	1.00	18.46	C
ATOM	5122	CD2	PHE	H	113	174.708	167.762	223.344	1.00	7.62	C
ATOM	5123	CE1	PHE	H	113	175.325	168.467	220.757	1.00	15.63	C
ATOM	5124	CE2	PHE	H	113	176.001	168.107	223.016	1.00	6.51	C
ATOM	5125	CZ	PHE	H	113	176.309	168.462	221.722	1.00	11.76	C
ATOM	5126	N	ASP	H	114	169.939	165.040	221.147	1.00	4.25	N
ATOM	5127	CA	ASP	H	114	168.918	164.060	221.485	1.00	7.30	C
ATOM	5128	C	ASP	H	114	169.556	162.747	221.923	1.00	18.46	C
ATOM	5129	O	ASP	H	114	170.678	162.417	221.531	1.00	25.28	O
ATOM	5130	CB	ASP	H	114	167.980	163.815	220.302	1.00	12.67	C
ATOM	5131	CG	ASP	H	114	168.696	163.855	218.968	1.00	23.44	C
ATOM	5132	OD1	ASP	H	114	169.943	163.835	218.958	1.00	21.83	O
ATOM	5133	OD2	ASP	H	114	168.010	163.905	217.926	1.00	36.90	O
ATOM	5134	N	TYR	H	115	168.821	161.997	222.748	1.00	16.49	N
ATOM	5135	CA	TYR	H	115	169.262	160.705	223.274	1.00	16.85	C
ATOM	5136	C	TYR	H	115	170.581	160.841	224.041	1.00	11.09	C
ATOM	5137	O	TYR	H	115	171.631	160.334	223.644	1.00	17.84	O
ATOM	5138	CB	TYR	H	115	169.376	159.661	222.155	1.00	15.27	C
ATOM	5139	CG	TYR	H	115	168.090	159.421	221.401	1.00	16.53	C
ATOM	5140	CD1	TYR	H	115	167.012	158.798	222.015	1.00	19.19	C
ATOM	5141	CD2	TYR	H	115	167.952	159.810	220.076	1.00	15.06	C
ATOM	5142	CE1	TYR	H	115	165.834	158.572	221.333	1.00	20.47	C
ATOM	5143	CE2	TYR	H	115	166.777	159.589	219.386	1.00	18.42	C
ATOM	5144	CZ	TYR	H	115	165.721	158.969	220.019	1.00	25.68	C
ATOM	5145	OH	TYR	H	115	164.548	158.745	219.337	1.00	27.47	O
ATOM	5146	N	TRP	H	116	170.494	161.563	225.154	1.00	17.61	N
ATOM	5147	CA	TRP	H	116	171.602	161.618	226.096	1.00	12.63	C
ATOM	5148	C	TRP	H	116	171.830	160.250	226.729	1.00	12.77	C
ATOM	5149	O	TRP	H	116	170.889	159.499	226.997	1.00	13.69	O
ATOM	5150	CB	TRP	H	116	171.332	162.645	227.195	1.00	4.73	C
ATOM	5151	CG	TRP	H	116	171.579	164.059	226.794	1.00	3.46	C
ATOM	5152	CD1	TRP	H	116	170.849	164.800	225.917	1.00	0.00	C
ATOM	5153	CD2	TRP	H	116	172.632	164.909	227.261	1.00	6.13	C
ATOM	5154	NE1	TRP	H	116	171.380	166.062	225.806	1.00	2.96	N
ATOM	5155	CE2	TRP	H	116	172.476	166.154	226.622	1.00	10.26	C
ATOM	5156	CE3	TRP	H	116	173.691	164.739	228.157	1.00	4.52	C
ATOM	5157	CZ2	TRP	H	116	173.339	167.222	226.849	1.00	10.85	C
ATOM	5158	CZ3	TRP	H	116	174.546	165.800	228.381	1.00	9.95	C
ATOM	5159	CH2	TRP	H	116	174.366	167.025	227.730	1.00	15.44	C
ATOM	5160	N	GLY	H	117	173.098	159.929	226.966	1.00	14.01	N
ATOM	5161	CA	GLY	H	117	173.445	158.735	227.701	1.00	8.29	C
ATOM	5162	C	GLY	H	117	173.329	158.942	229.198	1.00	18.83	C
ATOM	5163	O	GLY	H	117	172.875	159.976	229.688	1.00	34.29	O
ATOM	5164	N	GLN	H	118	173.753	157.924	229.940	1.00	31.13	N

ATOM	5165	CA	GLN	H	118	173.787	157.999	231.395	1.00	33.68	C
ATOM	5166	C	GLN	H	118	175.012	158.804	231.825	1.00	40.27	C
ATOM	5167	O	GLN	H	118	175.673	159.459	231.015	1.00	50.87	O
ATOM	5168	CB	GLN	H	118	173.779	156.599	232.001	1.00	37.56	C
ATOM	5169	CG	GLN	H	118	172.759	156.411	233.111	1.00	36.92	C
ATOM	5170	CD	GLN	H	118	172.659	154.970	233.569	1.00	46.49	C
ATOM	5171	OE1	GLN	H	118	172.675	154.046	232.756	1.00	48.99	O
ATOM	5172	NE2	GLN	H	118	172.557	154.770	234.878	1.00	38.51	N
ATOM	5173	N	GLY	H	119	175.326	158.773	233.110	1.00	23.01	N
ATOM	5174	CA	GLY	H	119	176.502	159.447	233.638	1.00	22.96	C
ATOM	5175	C	GLY	H	119	177.483	158.458	234.236	1.00	26.70	C
ATOM	5176	O	GLY	H	119	177.082	157.505	234.906	1.00	38.46	O
ATOM	5177	N	THR	H	120	178.769	158.693	233.988	1.00	26.32	N
ATOM	5178	CA	THR	H	120	179.847	157.921	234.591	1.00	24.29	C
ATOM	5179	C	THR	H	120	180.690	158.858	235.445	1.00	25.12	C
ATOM	5180	O	THR	H	120	180.992	159.981	235.029	1.00	36.97	O
ATOM	5181	CB	THR	H	120	180.709	157.224	233.530	1.00	20.57	C
ATOM	5182	OG1	THR	H	120	181.852	156.626	234.154	1.00	27.73	O
ATOM	5183	CG2	THR	H	120	181.171	158.206	232.464	1.00	29.44	C
ATOM	5184	N	LEU	H	121	181.052	158.403	236.640	1.00	24.35	N
ATOM	5185	CA	LEU	H	121	181.698	159.258	237.626	1.00	28.53	C
ATOM	5186	C	LEU	H	121	183.212	159.101	237.562	1.00	33.48	C
ATOM	5187	O	LEU	H	121	183.730	157.979	237.561	1.00	39.49	O
ATOM	5188	CB	LEU	H	121	181.191	158.929	239.030	1.00	27.60	C
ATOM	5189	CG	LEU	H	121	181.785	159.743	240.180	1.00	31.29	C
ATOM	5190	CD1	LEU	H	121	181.402	161.207	240.050	1.00	25.55	C
ATOM	5191	CD2	LEU	H	121	181.331	159.186	241.518	1.00	37.60	C
ATOM	5192	N	VAL	H	122	183.914	160.230	237.508	1.00	28.80	N
ATOM	5193	CA	VAL	H	122	185.371	160.272	237.519	1.00	25.78	C
ATOM	5194	C	VAL	H	122	185.805	161.124	238.703	1.00	30.65	C
ATOM	5195	O	VAL	H	122	185.324	162.250	238.871	1.00	33.05	O
ATOM	5196	CB	VAL	H	122	185.935	160.835	236.202	1.00	21.89	C
ATOM	5197	CG1	VAL	H	122	187.435	161.060	236.317	1.00	29.71	C
ATOM	5198	CG2	VAL	H	122	185.620	159.899	235.047	1.00	25.04	C
ATOM	5199	N	THR	H	123	186.708	160.587	239.521	1.00	44.98	N
ATOM	5200	CA	THR	H	123	187.176	161.256	240.732	1.00	43.64	C
ATOM	5201	C	THR	H	123	188.698	161.300	240.712	1.00	38.91	C
ATOM	5202	O	THR	H	123	189.357	160.264	240.855	1.00	47.38	O
ATOM	5203	CB	THR	H	123	186.670	160.542	241.984	1.00	44.72	C
ATOM	5204	OG1	THR	H	123	185.338	160.065	241.760	1.00	40.69	O
ATOM	5205	CG2	THR	H	123	186.671	161.490	243.173	1.00	43.48	C
ATOM	5206	N	VAL	H	124	189.252	162.497	240.550	1.00	37.76	N
ATOM	5207	CA	VAL	H	124	190.693	162.711	240.544	1.00	45.01	C
ATOM	5208	C	VAL	H	124	191.071	163.297	241.897	1.00	49.28	C
ATOM	5209	O	VAL	H	124	190.855	164.489	242.151	1.00	56.43	O
ATOM	5210	CB	VAL	H	124	191.131	163.631	239.398	1.00	47.21	C
ATOM	5211	CG1	VAL	H	124	192.632	163.848	239.439	1.00	48.93	C
ATOM	5212	CG2	VAL	H	124	190.707	163.048	238.060	1.00	45.45	C
ATOM	5213	N	SER	H	125	191.638	162.465	242.767	1.00	51.83	N
ATOM	5214	CA	SER	H	125	192.021	162.900	244.103	1.00	52.51	C

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ATOM   5215  C   SER H 125     193.084 161.951 244.639  1.00 56.28           C
ATOM   5216  O   SER H 125     193.280 160.849 244.123  1.00 57.38           O
ATOM   5217  CB  SER H 125     190.812 162.954 245.042  1.00 54.28           C
ATOM   5218  OG  SER H 125     190.388 161.651 245.401  1.00 56.94           O
ATOM   5219  N   SER H 126     193.766 162.398 245.688  1.00 55.19           N
ATOM   5220  CA  SER H 126     194.799 161.593 246.330  1.00 52.99           C
ATOM   5221  C   SER H 126     194.179 160.542 247.244  1.00 50.21           C
ATOM   5222  O   SER H 126     193.439 160.870 248.171  1.00 48.50           O
ATOM   5223  CB  SER H 126     195.758 162.482 247.124  1.00 51.71           C
ATOM   5224  OG  SER H 126     196.136 163.623 246.374  1.00 51.32           O
TER    5225      SER H 126
ATOM   5226  N   ILE L   3     180.734 184.944 222.522  1.00 81.00           N
ATOM   5227  CA  ILE L   3     180.801 183.520 222.824  1.00 81.81           C
ATOM   5228  C   ILE L   3     180.156 183.247 224.179  1.00 79.53           C
ATOM   5229  O   ILE L   3     179.427 182.266 224.340  1.00 75.68           O
ATOM   5230  CB  ILE L   3     182.256 183.011 222.783  1.00 79.92           C
ATOM   5231  CG1 ILE L   3     182.673 182.715 221.341  1.00 79.36           C
ATOM   5232  CG2 ILE L   3     182.426 181.771 223.648  1.00 76.13           C
ATOM   5233  CD1 ILE L   3     184.167 182.767 221.116  1.00 77.08           C
ATOM   5234  N   GLN L   4     180.421 184.126 225.144  1.00 79.04           N
ATOM   5235  CA  GLN L   4     179.863 183.967 226.481  1.00 77.15           C
ATOM   5236  C   GLN L   4     178.342 183.926 226.418  1.00 75.52           C
ATOM   5237  O   GLN L   4     177.713 184.751 225.750  1.00 77.69           O
ATOM   5238  CB  GLN L   4     180.326 185.110 227.385  1.00 78.70           C
ATOM   5239  CG  GLN L   4     181.725 184.932 227.953  1.00 78.26           C
ATOM   5240  CD  GLN L   4     182.808 185.148 226.913  1.00 81.35           C
ATOM   5241  OE1 GLN L   4     183.504 184.211 226.520  1.00 81.45           O
ATOM   5242  NE2 GLN L   4     182.954 186.388 226.460  1.00 78.07           N
ATOM   5243  N   MET L   5     177.752 182.956 227.111  1.00 59.23           N
ATOM   5244  CA  MET L   5     176.314 182.728 227.082  1.00 56.31           C
ATOM   5245  C   MET L   5     175.767 182.971 228.483  1.00 60.63           C
ATOM   5246  O   MET L   5     176.148 182.273 229.428  1.00 60.49           O
ATOM   5247  CB  MET L   5     176.004 181.304 226.621  1.00 55.37           C
ATOM   5248  CG  MET L   5     175.832 181.164 225.116  1.00 59.24           C
ATOM   5249  SD  MET L   5     174.478 180.095 224.605  1.00 68.57           S
ATOM   5250  CE  MET L   5     173.089 181.164 224.922  1.00 56.49           C
ATOM   5251  N   THR L   6     174.872 183.947 228.613  1.00 57.07           N
ATOM   5252  CA  THR L   6     174.393 184.404 229.911  1.00 55.77           C
ATOM   5253  C   THR L   6     172.889 184.204 230.013  1.00 54.75           C
ATOM   5254  O   THR L   6     172.136 184.695 229.167  1.00 52.86           O
ATOM   5255  CB  THR L   6     174.735 185.880 230.133  1.00 53.80           C
ATOM   5256  OG1 THR L   6     174.360 186.635 228.975  1.00 56.25           O
ATOM   5257  CG2 THR L   6     176.225 186.049 230.375  1.00 51.87           C
ATOM   5258  N   GLN L   7     172.455 183.492 231.048  1.00 36.37           N
ATOM   5259  CA  GLN L   7     171.039 183.320 231.342  1.00 34.33           C
ATOM   5260  C   GLN L   7     170.601 184.412 232.307  1.00 40.49           C
ATOM   5261  O   GLN L   7     171.235 184.616 233.348  1.00 40.93           O
ATOM   5262  CB  GLN L   7     170.769 181.936 231.936  1.00 30.33           C
ATOM   5263  CG  GLN L   7     171.057 180.792 230.976  1.00 28.78           C
ATOM   5264  CD  GLN L   7     170.107 179.625 231.152  1.00 24.46           C
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ATOM	5265	OE1	GLN	L	7	168.942	179.694	230.763	1.00	28.34	O
ATOM	5266	NE2	GLN	L	7	170.602	178.543	231.738	1.00	29.24	N
ATOM	5267	N	SER	L	8	169.510	185.115	231.962	1.00	46.44	N
ATOM	5268	CA	SER	L	8	169.112	186.271	232.767	1.00	46.23	C
ATOM	5269	C	SER	L	8	168.614	185.857	234.145	1.00	48.82	C
ATOM	5270	O	SER	L	8	169.170	186.331	235.152	1.00	51.72	O
ATOM	5271	CB	SER	L	8	168.088	187.116	232.002	1.00	45.49	C
ATOM	5272	OG	SER	L	8	168.719	187.925	231.025	1.00	48.01	O
ATOM	5273	N	PRO	L	9	167.593	184.990	234.282	1.00	39.43	N
ATOM	5274	CA	PRO	L	9	167.197	184.594	235.648	1.00	38.57	C
ATOM	5275	C	PRO	L	9	168.001	183.393	236.147	1.00	39.56	C
ATOM	5276	O	PRO	L	9	167.915	182.272	235.643	1.00	47.92	O
ATOM	5277	CB	PRO	L	9	165.711	184.267	235.488	1.00	37.44	C
ATOM	5278	CG	PRO	L	9	165.527	183.929	234.024	1.00	40.00	C
ATOM	5279	CD	PRO	L	9	166.780	184.293	233.271	1.00	34.11	C
ATOM	5280	N	SER	L	10	168.809	183.628	237.183	1.00	36.08	N
ATOM	5281	CA	SER	L	10	169.602	182.543	237.751	1.00	36.41	C
ATOM	5282	C	SER	L	10	168.753	181.636	238.628	1.00	42.34	C
ATOM	5283	O	SER	L	10	168.956	180.416	238.643	1.00	41.38	O
ATOM	5284	CB	SER	L	10	170.774	183.108	238.552	1.00	35.17	C
ATOM	5285	OG	SER	L	10	171.495	182.071	239.193	1.00	42.40	O
ATOM	5286	N	SER	L	11	167.810	182.209	239.369	1.00	52.08	N
ATOM	5287	CA	SER	L	11	166.874	181.443	240.176	1.00	48.60	C
ATOM	5288	C	SER	L	11	165.483	182.024	239.987	1.00	50.20	C
ATOM	5289	O	SER	L	11	165.299	183.243	240.053	1.00	52.42	O
ATOM	5290	CB	SER	L	11	167.265	181.462	241.658	1.00	51.75	C
ATOM	5291	OG	SER	L	11	166.321	180.757	242.444	1.00	48.86	O
ATOM	5292	N	LEU	L	12	164.507	181.151	239.757	1.00	50.19	N
ATOM	5293	CA	LEU	L	12	163.144	181.577	239.481	1.00	51.40	C
ATOM	5294	C	LEU	L	12	162.177	180.747	240.310	1.00	52.44	C
ATOM	5295	O	LEU	L	12	162.362	179.540	240.486	1.00	54.95	O
ATOM	5296	CB	LEU	L	12	162.812	181.447	237.987	1.00	50.48	C
ATOM	5297	CG	LEU	L	12	161.384	181.778	237.550	1.00	51.70	C
ATOM	5298	CD1	LEU	L	12	161.091	183.255	237.753	1.00	52.67	C
ATOM	5299	CD2	LEU	L	12	161.164	181.378	236.101	1.00	50.22	C
ATOM	5300	N	SER	L	13	161.141	181.409	240.819	1.00	59.26	N
ATOM	5301	CA	SER	L	13	160.120	180.769	241.637	1.00	60.03	C
ATOM	5302	C	SER	L	13	158.749	181.155	241.109	1.00	59.98	C
ATOM	5303	O	SER	L	13	158.482	182.337	240.872	1.00	62.63	O
ATOM	5304	CB	SER	L	13	160.255	181.172	243.108	1.00	63.70	C
ATOM	5305	OG	SER	L	13	159.928	182.538	243.291	1.00	65.97	O
ATOM	5306	N	ALA	L	14	157.886	180.160	240.924	1.00	58.54	N
ATOM	5307	CA	ALA	L	14	156.538	180.402	240.434	1.00	61.37	C
ATOM	5308	C	ALA	L	14	155.622	179.300	240.940	1.00	61.45	C
ATOM	5309	O	ALA	L	14	156.080	178.219	241.319	1.00	61.90	O
ATOM	5310	CB	ALA	L	14	156.498	180.472	238.904	1.00	59.79	C
ATOM	5311	N	SER	L	15	154.323	179.589	240.941	1.00	63.76	N
ATOM	5312	CA	SER	L	15	153.317	178.630	241.364	1.00	62.78	C
ATOM	5313	C	SER	L	15	152.936	177.723	240.197	1.00	61.27	C
ATOM	5314	O	SER	L	15	153.591	177.697	239.152	1.00	65.26	O

ATOM	5315	CB	SER	L	15	152.093	179.354	241.922	1.00	65.17	C
ATOM	5316	OG	SER	L	15	152.440	180.166	243.029	1.00	65.12	O
ATOM	5317	N	VAL	L	16	151.855	176.964	240.375	1.00	56.22	N
ATOM	5318	CA	VAL	L	16	151.381	176.079	239.320	1.00	57.71	C
ATOM	5319	C	VAL	L	16	150.390	176.831	238.444	1.00	56.15	C
ATOM	5320	O	VAL	L	16	149.410	177.405	238.937	1.00	55.91	O
ATOM	5321	CB	VAL	L	16	150.753	174.812	239.920	1.00	56.52	C
ATOM	5322	CG1	VAL	L	16	149.879	174.109	238.891	1.00	55.77	C
ATOM	5323	CG2	VAL	L	16	151.836	173.877	240.437	1.00	57.28	C
ATOM	5324	N	GLY	L	17	150.644	176.837	237.139	1.00	60.01	N
ATOM	5325	CA	GLY	L	17	149.807	177.568	236.210	1.00	60.34	C
ATOM	5326	C	GLY	L	17	150.341	178.917	235.792	1.00	61.37	C
ATOM	5327	O	GLY	L	17	149.649	179.643	235.069	1.00	60.23	O
ATOM	5328	N	ASP	L	18	151.545	179.280	236.223	1.00	57.04	N
ATOM	5329	CA	ASP	L	18	152.149	180.562	235.895	1.00	57.43	C
ATOM	5330	C	ASP	L	18	153.006	180.437	234.643	1.00	58.44	C
ATOM	5331	O	ASP	L	18	153.821	179.518	234.525	1.00	56.46	O
ATOM	5332	CB	ASP	L	18	153.004	181.076	237.056	1.00	59.05	C
ATOM	5333	CG	ASP	L	18	152.175	181.483	238.256	1.00	63.04	C
ATOM	5334	OD1	ASP	L	18	151.027	181.007	238.377	1.00	63.04	O
ATOM	5335	OD2	ASP	L	18	152.673	182.278	239.080	1.00	62.70	O
ATOM	5336	N	ARG	L	19	152.812	181.363	233.707	1.00	50.69	N
ATOM	5337	CA	ARG	L	19	153.670	181.445	232.533	1.00	49.06	C
ATOM	5338	C	ARG	L	19	154.995	182.075	232.944	1.00	47.09	C
ATOM	5339	O	ARG	L	19	155.014	183.149	233.556	1.00	44.92	O
ATOM	5340	CB	ARG	L	19	152.992	182.253	231.427	1.00	44.58	C
ATOM	5341	CG	ARG	L	19	153.903	183.224	230.684	1.00	47.45	C
ATOM	5342	CD	ARG	L	19	153.201	183.815	229.471	1.00	49.14	C
ATOM	5343	NE	ARG	L	19	154.076	184.684	228.692	1.00	49.41	N
ATOM	5344	CZ	ARG	L	19	154.109	184.719	227.367	1.00	50.17	C
ATOM	5345	NH1	ARG	L	19	153.331	183.939	226.635	1.00	49.12	N
ATOM	5346	NH2	ARG	L	19	154.945	185.558	226.762	1.00	51.02	N
ATOM	5347	N	VAL	L	20	156.099	181.398	232.639	1.00	38.98	N
ATOM	5348	CA	VAL	L	20	157.427	181.861	233.020	1.00	38.06	C
ATOM	5349	C	VAL	L	20	158.296	181.935	231.773	1.00	38.14	C
ATOM	5350	O	VAL	L	20	158.183	181.100	230.867	1.00	43.45	O
ATOM	5351	CB	VAL	L	20	158.069	180.962	234.104	1.00	37.64	C
ATOM	5352	CG1	VAL	L	20	157.057	180.625	235.190	1.00	39.25	C
ATOM	5353	CG2	VAL	L	20	158.644	179.693	233.508	1.00	37.09	C
ATOM	5354	N	THR	L	21	159.132	182.968	231.707	1.00	36.41	N
ATOM	5355	CA	THR	L	21	160.020	183.196	230.577	1.00	37.21	C
ATOM	5356	C	THR	L	21	161.465	183.230	231.053	1.00	37.87	C
ATOM	5357	O	THR	L	21	161.758	183.713	232.152	1.00	41.06	O
ATOM	5358	CB	THR	L	21	159.681	184.505	229.851	1.00	40.68	C
ATOM	5359	OG1	THR	L	21	160.285	185.607	230.539	1.00	43.56	O
ATOM	5360	CG2	THR	L	21	158.175	184.713	229.788	1.00	38.62	C
ATOM	5361	N	ILE	L	22	162.361	182.714	230.217	1.00	31.04	N
ATOM	5362	CA	ILE	L	22	163.791	182.682	230.490	1.00	24.29	C
ATOM	5363	C	ILE	L	22	164.512	183.294	229.299	1.00	33.52	C
ATOM	5364	O	ILE	L	22	164.317	182.856	228.159	1.00	42.88	O

ATOM	5365	CB	ILE	L	22	164.295	181.249	230.744	1.00	22.37	C
ATOM	5366	CG1	ILE	L	22	163.574	180.632	231.943	1.00	30.33	C
ATOM	5367	CG2	ILE	L	22	165.798	181.247	230.954	1.00	29.49	C
ATOM	5368	CD1	ILE	L	22	163.405	179.135	231.845	1.00	29.91	C
ATOM	5369	N	THR	L	23	165.344	184.297	229.564	1.00	39.24	N
ATOM	5370	CA	THR	L	23	166.098	185.002	228.539	1.00	40.33	C
ATOM	5371	C	THR	L	23	167.547	184.535	228.547	1.00	38.67	C
ATOM	5372	O	THR	L	23	168.103	184.197	229.595	1.00	42.17	O
ATOM	5373	CB	THR	L	23	166.044	186.517	228.756	1.00	41.84	C
ATOM	5374	OG1	THR	L	23	164.762	186.880	229.281	1.00	46.11	O
ATOM	5375	CG2	THR	L	23	166.269	187.251	227.443	1.00	39.09	C
ATOM	5376	N	CYS	L	24	168.162	184.538	227.367	1.00	45.00	N
ATOM	5377	CA	CYS	L	24	169.496	183.979	227.195	1.00	45.23	C
ATOM	5378	C	CYS	L	24	170.209	184.793	226.126	1.00	49.51	C
ATOM	5379	O	CYS	L	24	169.694	184.945	225.015	1.00	52.53	O
ATOM	5380	CB	CYS	L	24	169.400	182.503	226.800	1.00	45.35	C
ATOM	5381	SG	CYS	L	24	170.754	181.448	227.343	1.00	61.32	S
ATOM	5382	N	ARG	L	25	171.379	185.330	226.459	1.00	61.99	N
ATOM	5383	CA	ARG	L	25	172.100	186.246	225.586	1.00	63.59	C
ATOM	5384	C	ARG	L	25	173.444	185.642	225.204	1.00	65.49	C
ATOM	5385	O	ARG	L	25	174.174	185.145	226.068	1.00	65.40	O
ATOM	5386	CB	ARG	L	25	172.295	187.601	226.272	1.00	64.43	C
ATOM	5387	CG	ARG	L	25	173.202	188.567	225.530	1.00	64.67	C
ATOM	5388	CD	ARG	L	25	173.301	189.891	226.273	1.00	64.90	C
ATOM	5389	NE	ARG	L	25	173.636	191.000	225.388	1.00	68.49	N
ATOM	5390	CZ	ARG	L	25	172.756	191.650	224.638	1.00	68.58	C
ATOM	5391	NH1	ARG	L	25	171.474	191.323	224.638	1.00	65.64	N
ATOM	5392	NH2	ARG	L	25	173.172	192.653	223.871	1.00	68.76	N
ATOM	5393	N	ALA	L	26	173.769	185.695	223.913	1.00	65.88	N
ATOM	5394	CA	ALA	L	26	175.007	185.137	223.385	1.00	65.48	C
ATOM	5395	C	ALA	L	26	175.601	186.106	222.374	1.00	70.07	C
ATOM	5396	O	ALA	L	26	174.895	186.585	221.481	1.00	73.73	O
ATOM	5397	CB	ALA	L	26	174.763	183.771	222.741	1.00	63.89	C
ATOM	5398	N	SER	L	27	176.902	186.376	222.504	1.00	76.95	N
ATOM	5399	CA	SER	L	27	177.525	187.431	221.709	1.00	76.93	C
ATOM	5400	C	SER	L	27	177.926	186.931	220.324	1.00	78.10	C
ATOM	5401	O	SER	L	27	178.403	187.710	219.490	1.00	76.68	O
ATOM	5402	CB	SER	L	27	178.740	187.992	222.452	1.00	74.95	C
ATOM	5403	OG	SER	L	27	179.085	189.276	221.963	1.00	74.37	O
ATOM	5404	N	GLN	L	28	177.737	185.641	220.056	1.00	76.15	N
ATOM	5405	CA	GLN	L	28	178.137	185.044	218.785	1.00	75.94	C
ATOM	5406	C	GLN	L	28	176.916	184.373	218.163	1.00	78.76	C
ATOM	5407	O	GLN	L	28	176.572	183.239	218.509	1.00	80.94	O
ATOM	5408	CB	GLN	L	28	179.288	184.060	218.998	1.00	75.36	C
ATOM	5409	CG	GLN	L	28	179.495	183.017	217.899	1.00	77.16	C
ATOM	5410	CD	GLN	L	28	179.902	183.621	216.570	1.00	78.70	C
ATOM	5411	OE1	GLN	L	28	180.434	184.730	216.512	1.00	78.49	O
ATOM	5412	NE2	GLN	L	28	179.661	182.886	215.491	1.00	76.22	N
ATOM	5413	N	SER	L	29	176.241	185.083	217.264	1.00	77.51	N
ATOM	5414	CA	SER	L	29	174.998	184.604	216.666	1.00	76.76	C

ATOM	5415	C	SER	L	29	175.063	184.724	215.147	1.00	78.40	C
ATOM	5416	O	SER	L	29	174.161	185.261	214.502	1.00	79.33	O
ATOM	5417	CB	SER	L	29	173.799	185.363	217.231	1.00	77.28	C
ATOM	5418	OG	SER	L	29	172.652	185.187	216.418	1.00	77.06	O
ATOM	5419	N	VAL	L	30	176.146	184.224	214.556	1.00	81.48	N
ATOM	5420	CA	VAL	L	30	176.323	184.310	213.110	1.00	83.30	C
ATOM	5421	C	VAL	L	30	175.737	183.073	212.439	1.00	81.65	C
ATOM	5422	O	VAL	L	30	174.794	183.174	211.647	1.00	79.99	O
ATOM	5423	CB	VAL	L	30	177.808	184.487	212.741	1.00	82.39	C
ATOM	5424	CG1	VAL	L	30	177.941	185.036	211.329	1.00	78.35	C
ATOM	5425	CG2	VAL	L	30	178.493	185.408	213.739	1.00	81.03	C
ATOM	5426	N	SER	L	31	176.284	181.899	212.751	1.00	69.69	N
ATOM	5427	CA	SER	L	31	175.836	180.651	212.138	1.00	65.67	C
ATOM	5428	C	SER	L	31	175.811	179.524	213.161	1.00	66.76	C
ATOM	5429	O	SER	L	31	176.250	178.402	212.886	1.00	63.27	O
ATOM	5430	CB	SER	L	31	176.712	180.278	210.944	1.00	63.89	C
ATOM	5431	OG	SER	L	31	177.681	179.309	211.303	1.00	66.76	O
ATOM	5432	N	SER	L	32	175.296	179.803	214.356	1.00	58.55	N
ATOM	5433	CA	SER	L	32	175.201	178.811	215.417	1.00	51.84	C
ATOM	5434	C	SER	L	32	173.763	178.716	215.903	1.00	52.85	C
ATOM	5435	O	SER	L	32	173.118	179.735	216.164	1.00	49.20	O
ATOM	5436	CB	SER	L	32	176.129	179.152	216.589	1.00	50.88	C
ATOM	5437	OG	SER	L	32	177.404	179.561	216.129	1.00	57.67	O
ATOM	5438	N	ALA	L	33	173.267	177.488	216.018	1.00	32.27	N
ATOM	5439	CA	ALA	L	33	171.918	177.238	216.499	1.00	26.97	C
ATOM	5440	C	ALA	L	33	171.891	177.225	218.022	1.00	28.32	C
ATOM	5441	O	ALA	L	33	172.871	176.862	218.678	1.00	23.84	O
ATOM	5442	CB	ALA	L	33	171.385	175.912	215.958	1.00	26.31	C
ATOM	5443	N	VAL	L	34	170.753	177.629	218.580	1.00	22.91	N
ATOM	5444	CA	VAL	L	34	170.559	177.708	220.023	1.00	15.70	C
ATOM	5445	C	VAL	L	34	169.502	176.690	220.428	1.00	11.78	C
ATOM	5446	O	VAL	L	34	168.393	176.687	219.882	1.00	6.50	O
ATOM	5447	CB	VAL	L	34	170.155	179.125	220.467	1.00	16.37	C
ATOM	5448	CG1	VAL	L	34	169.650	179.109	221.899	1.00	11.63	C
ATOM	5449	CG2	VAL	L	34	171.335	180.071	220.331	1.00	22.07	C
ATOM	5450	N	ALA	L	35	169.850	175.833	221.382	1.00	19.97	N
ATOM	5451	CA	ALA	L	35	168.970	174.785	221.873	1.00	5.82	C
ATOM	5452	C	ALA	L	35	168.721	174.964	223.364	1.00	11.01	C
ATOM	5453	O	ALA	L	35	169.556	175.509	224.093	1.00	28.97	O
ATOM	5454	CB	ALA	L	35	169.557	173.395	221.607	1.00	12.05	C
ATOM	5455	N	TRP	L	36	167.557	174.494	223.806	1.00	3.60	N
ATOM	5456	CA	TRP	L	36	167.120	174.586	225.192	1.00	2.42	C
ATOM	5457	C	TRP	L	36	166.875	173.184	225.728	1.00	6.78	C
ATOM	5458	O	TRP	L	36	166.084	172.427	225.148	1.00	10.62	O
ATOM	5459	CB	TRP	L	36	165.839	175.414	225.308	1.00	6.53	C
ATOM	5460	CG	TRP	L	36	166.030	176.883	225.104	1.00	11.09	C
ATOM	5461	CD1	TRP	L	36	166.018	177.552	223.915	1.00	7.88	C
ATOM	5462	CD2	TRP	L	36	166.239	177.871	226.118	1.00	19.38	C
ATOM	5463	NE1	TRP	L	36	166.217	178.894	224.125	1.00	15.25	N
ATOM	5464	CE2	TRP	L	36	166.354	179.115	225.470	1.00	19.22	C

ATOM	5465	CE3	TRP	L	36	166.345	177.823	227.511	1.00	22.01	C
ATOM	5466	CZ2	TRP	L	36	166.570	180.301	226.167	1.00	24.14	C
ATOM	5467	CZ3	TRP	L	36	166.557	179.001	228.200	1.00	13.78	C
ATOM	5468	CH2	TRP	L	36	166.665	180.223	227.528	1.00	15.31	C
ATOM	5469	N	TYR	L	37	167.539	172.852	226.839	1.00	15.80	N
ATOM	5470	CA	TYR	L	37	167.424	171.551	227.483	1.00	4.63	C
ATOM	5471	C	TYR	L	37	166.914	171.695	228.910	1.00	4.75	C
ATOM	5472	O	TYR	L	37	167.019	172.757	229.528	1.00	22.21	O
ATOM	5473	CB	TYR	L	37	168.766	170.801	227.516	1.00	6.68	C
ATOM	5474	CG	TYR	L	37	169.486	170.721	226.195	1.00	11.42	C
ATOM	5475	CD1	TYR	L	37	170.260	171.774	225.737	1.00	5.76	C
ATOM	5476	CD2	TYR	L	37	169.404	169.580	225.412	1.00	9.98	C
ATOM	5477	CE1	TYR	L	37	170.917	171.698	224.533	1.00	16.27	C
ATOM	5478	CE2	TYR	L	37	170.060	169.496	224.208	1.00	1.62	C
ATOM	5479	CZ	TYR	L	37	170.817	170.558	223.772	1.00	6.82	C
ATOM	5480	OH	TYR	L	37	171.478	170.486	222.569	1.00	11.01	O
ATOM	5481	N	GLN	L	38	166.386	170.591	229.434	1.00	4.32	N
ATOM	5482	CA	GLN	L	38	165.898	170.501	230.802	1.00	11.42	C
ATOM	5483	C	GLN	L	38	166.550	169.313	231.497	1.00	14.06	C
ATOM	5484	O	GLN	L	38	166.685	168.237	230.907	1.00	25.63	O
ATOM	5485	CB	GLN	L	38	164.375	170.350	230.835	1.00	9.10	C
ATOM	5486	CG	GLN	L	38	163.780	170.292	232.228	1.00	9.43	C
ATOM	5487	CD	GLN	L	38	162.465	169.541	232.268	1.00	16.81	C
ATOM	5488	OE1	GLN	L	38	162.291	168.534	231.582	1.00	12.75	O
ATOM	5489	NE2	GLN	L	38	161.530	170.028	233.073	1.00	26.85	N
ATOM	5490	N	GLN	L	39	166.949	169.509	232.753	1.00	10.78	N
ATOM	5491	CA	GLN	L	39	167.588	168.459	233.534	1.00	9.84	C
ATOM	5492	C	GLN	L	39	167.035	168.475	234.949	1.00	20.98	C
ATOM	5493	O	GLN	L	39	166.883	169.544	235.547	1.00	26.81	O
ATOM	5494	CB	GLN	L	39	169.110	168.637	233.565	1.00	10.09	C
ATOM	5495	CG	GLN	L	39	169.831	167.615	234.427	1.00	10.47	C
ATOM	5496	CD	GLN	L	39	171.321	167.866	234.508	1.00	20.74	C
ATOM	5497	OE1	GLN	L	39	171.768	169.012	234.531	1.00	30.77	O
ATOM	5498	NE2	GLN	L	39	172.101	166.794	234.557	1.00	12.10	N
ATOM	5499	N	LYS	L	40	166.746	167.286	235.483	1.00	30.39	N
ATOM	5500	CA	LYS	L	40	166.247	167.085	236.832	1.00	25.00	C
ATOM	5501	C	LYS	L	40	167.317	166.436	237.703	1.00	33.13	C
ATOM	5502	O	LYS	L	40	168.226	165.778	237.187	1.00	34.89	O
ATOM	5503	CB	LYS	L	40	164.990	166.208	236.818	1.00	20.27	C
ATOM	5504	CG	LYS	L	40	163.836	166.808	236.032	1.00	25.02	C
ATOM	5505	CD	LYS	L	40	162.492	166.291	236.517	1.00	30.44	C
ATOM	5506	CE	LYS	L	40	161.422	166.471	235.452	1.00	27.04	C
ATOM	5507	NZ	LYS	L	40	160.045	166.365	236.006	1.00	26.09	N
ATOM	5508	N	PRO	L	41	167.242	166.634	239.021	1.00	40.29	N
ATOM	5509	CA	PRO	L	41	168.282	166.106	239.914	1.00	37.95	C
ATOM	5510	C	PRO	L	41	168.538	164.621	239.698	1.00	41.28	C
ATOM	5511	O	PRO	L	41	167.614	163.806	239.666	1.00	43.62	O
ATOM	5512	CB	PRO	L	41	167.715	166.373	241.316	1.00	35.49	C
ATOM	5513	CG	PRO	L	41	166.372	167.067	241.104	1.00	37.93	C
ATOM	5514	CD	PRO	L	41	166.390	167.606	239.719	1.00	38.54	C

ATOM	5515	N	GLY	L	42	169.817	164.278	239.549	1.00	38.23	N
ATOM	5516	CA	GLY	L	42	170.219	162.894	239.394	1.00	40.88	C
ATOM	5517	C	GLY	L	42	169.819	162.245	238.091	1.00	44.35	C
ATOM	5518	O	GLY	L	42	169.707	161.018	238.033	1.00	46.36	O
ATOM	5519	N	LYS	L	43	169.605	163.029	237.036	1.00	35.11	N
ATOM	5520	CA	LYS	L	43	169.179	162.497	235.750	1.00	30.36	C
ATOM	5521	C	LYS	L	43	169.898	163.239	234.633	1.00	27.66	C
ATOM	5522	O	LYS	L	43	170.368	164.366	234.805	1.00	37.22	O
ATOM	5523	CB	LYS	L	43	167.659	162.606	235.570	1.00	30.57	C
ATOM	5524	CG	LYS	L	43	166.852	161.727	236.510	1.00	28.88	C
ATOM	5525	CD	LYS	L	43	165.362	161.969	236.345	1.00	35.90	C
ATOM	5526	CE	LYS	L	43	164.962	161.980	234.879	1.00	36.61	C
ATOM	5527	NZ	LYS	L	43	163.485	161.997	234.709	1.00	34.50	N
ATOM	5528	N	ALA	L	44	169.981	162.587	233.476	1.00	17.14	N
ATOM	5529	CA	ALA	L	44	170.599	163.193	232.310	1.00	12.21	C
ATOM	5530	C	ALA	L	44	169.677	164.250	231.704	1.00	18.66	C
ATOM	5531	O	ALA	L	44	168.451	164.120	231.762	1.00	27.08	O
ATOM	5532	CB	ALA	L	44	170.921	162.131	231.265	1.00	10.30	C
ATOM	5533	N	PRO	L	45	170.244	165.309	231.129	1.00	11.42	N
ATOM	5534	CA	PRO	L	45	169.409	166.340	230.505	1.00	0.00	C
ATOM	5535	C	PRO	L	45	168.640	165.790	229.314	1.00	8.66	C
ATOM	5536	O	PRO	L	45	169.085	164.866	228.630	1.00	22.13	O
ATOM	5537	CB	PRO	L	45	170.424	167.403	230.068	1.00	0.00	C
ATOM	5538	CG	PRO	L	45	171.612	167.177	230.940	1.00	6.33	C
ATOM	5539	CD	PRO	L	45	171.663	165.698	231.172	1.00	11.23	C
ATOM	5540	N	LYS	L	46	167.468	166.369	229.073	1.00	11.73	N
ATOM	5541	CA	LYS	L	46	166.639	166.016	227.931	1.00	10.51	C
ATOM	5542	C	LYS	L	46	166.415	167.250	227.070	1.00	10.31	C
ATOM	5543	O	LYS	L	46	166.372	168.375	227.578	1.00	20.28	O
ATOM	5544	CB	LYS	L	46	165.297	165.419	228.378	1.00	8.90	C
ATOM	5545	CG	LYS	L	46	164.330	166.410	228.999	1.00	12.12	C
ATOM	5546	CD	LYS	L	46	162.910	165.865	228.989	1.00	18.80	C
ATOM	5547	CE	LYS	L	46	162.075	166.499	227.888	1.00	26.37	C
ATOM	5548	NZ	LYS	L	46	160.616	166.313	228.123	1.00	21.58	N
ATOM	5549	N	LEU	L	47	166.279	167.034	225.766	1.00	6.90	N
ATOM	5550	CA	LEU	L	47	166.157	168.135	224.820	1.00	7.37	C
ATOM	5551	C	LEU	L	47	164.718	168.625	224.761	1.00	14.15	C
ATOM	5552	O	LEU	L	47	163.788	167.832	224.585	1.00	19.47	O
ATOM	5553	CB	LEU	L	47	166.625	167.695	223.433	1.00	3.66	C
ATOM	5554	CG	LEU	L	47	166.370	168.660	222.273	1.00	3.51	C
ATOM	5555	CD1	LEU	L	47	167.071	169.987	222.498	1.00	4.49	C
ATOM	5556	CD2	LEU	L	47	166.807	168.040	220.957	1.00	6.25	C
ATOM	5557	N	LEU	L	48	164.536	169.936	224.920	1.00	11.60	N
ATOM	5558	CA	LEU	L	48	163.226	170.562	224.781	1.00	9.44	C
ATOM	5559	C	LEU	L	48	163.060	171.225	223.419	1.00	12.88	C
ATOM	5560	O	LEU	L	48	162.134	170.897	222.672	1.00	19.96	O
ATOM	5561	CB	LEU	L	48	163.001	171.599	225.889	1.00	7.26	C
ATOM	5562	CG	LEU	L	48	163.053	171.158	227.348	1.00	13.93	C
ATOM	5563	CD1	LEU	L	48	162.993	172.381	228.241	1.00	7.70	C
ATOM	5564	CD2	LEU	L	48	161.914	170.207	227.661	1.00	12.33	C

ATOM	5565	N	ILE	L	49	163.949	172.154	223.081	1.00	19.51	N
ATOM	5566	CA	ILE	L	49	163.796	172.973	221.883	1.00	5.92	C
ATOM	5567	C	ILE	L	49	165.110	172.992	221.117	1.00	10.47	C
ATOM	5568	O	ILE	L	49	166.185	173.092	221.713	1.00	26.85	O
ATOM	5569	CB	ILE	L	49	163.336	174.404	222.241	1.00	8.03	C
ATOM	5570	CG1	ILE	L	49	161.889	174.387	222.736	1.00	4.44	C
ATOM	5571	CG2	ILE	L	49	163.495	175.355	221.065	1.00	7.85	C
ATOM	5572	CD1	ILE	L	49	161.703	175.020	224.083	1.00	19.86	C
ATOM	5573	N	TYR	L	50	165.020	172.894	219.794	1.00	2.83	N
ATOM	5574	CA	TYR	L	50	166.173	173.003	218.915	1.00	4.04	C
ATOM	5575	C	TYR	L	50	165.880	174.015	217.816	1.00	16.26	C
ATOM	5576	O	TYR	L	50	164.720	174.311	217.516	1.00	34.10	O
ATOM	5577	CB	TYR	L	50	166.543	171.643	218.310	1.00	3.99	C
ATOM	5578	CG	TYR	L	50	165.459	171.013	217.463	1.00	8.25	C
ATOM	5579	CD1	TYR	L	50	164.489	170.202	218.035	1.00	11.58	C
ATOM	5580	CD2	TYR	L	50	165.418	171.211	216.090	1.00	5.33	C
ATOM	5581	CE1	TYR	L	50	163.501	169.619	217.266	1.00	16.97	C
ATOM	5582	CE2	TYR	L	50	164.436	170.632	215.313	1.00	3.50	C
ATOM	5583	CZ	TYR	L	50	163.479	169.838	215.907	1.00	17.00	C
ATOM	5584	OH	TYR	L	50	162.497	169.258	215.137	1.00	18.49	O
ATOM	5585	N	SER	L	51	166.950	174.550	217.226	1.00	7.31	N
ATOM	5586	CA	SER	L	51	166.887	175.624	216.234	1.00	11.80	C
ATOM	5587	C	SER	L	51	166.193	176.874	216.771	1.00	16.03	C
ATOM	5588	O	SER	L	51	165.708	177.699	215.989	1.00	20.83	O
ATOM	5589	CB	SER	L	51	166.199	175.155	214.946	1.00	15.29	C
ATOM	5590	OG	SER	L	51	167.120	174.518	214.078	1.00	11.12	O
ATOM	5591	N	ALA	L	52	166.117	177.005	218.098	1.00	17.00	N
ATOM	5592	CA	ALA	L	52	165.625	178.191	218.795	1.00	18.91	C
ATOM	5593	C	ALA	L	52	164.129	178.420	218.603	1.00	15.00	C
ATOM	5594	O	ALA	L	52	163.561	179.331	219.211	1.00	30.18	O
ATOM	5595	CB	ALA	L	52	166.404	179.435	218.355	1.00	18.35	C
ATOM	5596	N	SER	L	53	163.480	177.609	217.768	1.00	13.10	N
ATOM	5597	CA	SER	L	53	162.031	177.695	217.607	1.00	18.91	C
ATOM	5598	C	SER	L	53	161.324	176.350	217.516	1.00	21.93	C
ATOM	5599	O	SER	L	53	160.130	176.289	217.825	1.00	24.41	O
ATOM	5600	CB	SER	L	53	161.676	178.522	216.363	1.00	25.41	C
ATOM	5601	OG	SER	L	53	162.303	179.792	216.395	1.00	30.59	O
ATOM	5602	N	SER	L	54	161.997	175.275	217.114	1.00	8.95	N
ATOM	5603	CA	SER	L	54	161.326	174.006	216.875	1.00	3.81	C
ATOM	5604	C	SER	L	54	161.158	173.226	218.171	1.00	4.14	C
ATOM	5605	O	SER	L	54	161.975	173.333	219.089	1.00	22.43	O
ATOM	5606	CB	SER	L	54	162.106	173.175	215.859	1.00	10.78	C
ATOM	5607	OG	SER	L	54	162.262	173.877	214.638	1.00	15.59	O
ATOM	5608	N	LEU	L	55	160.092	172.433	218.237	1.00	7.64	N
ATOM	5609	CA	LEU	L	55	159.778	171.645	219.421	1.00	12.50	C
ATOM	5610	C	LEU	L	55	160.121	170.181	219.180	1.00	20.37	C
ATOM	5611	O	LEU	L	55	159.737	169.607	218.156	1.00	33.28	O
ATOM	5612	CB	LEU	L	55	158.300	171.788	219.784	1.00	14.43	C
ATOM	5613	CG	LEU	L	55	157.909	171.447	221.223	1.00	19.15	C
ATOM	5614	CD1	LEU	L	55	158.636	172.346	222.207	1.00	24.82	C

ATOM	5615	CD2	LEU	L	55	156.404	171.555	221.405	1.00	26.69	C
ATOM	5616	N	TYR	L	56	160.845	169.585	220.124	1.00	15.79	N
ATOM	5617	CA	TYR	L	56	161.197	168.177	220.021	1.00	14.38	C
ATOM	5618	C	TYR	L	56	159.961	167.297	220.177	1.00	24.12	C
ATOM	5619	O	TYR	L	56	159.032	167.617	220.923	1.00	33.28	O
ATOM	5620	CB	TYR	L	56	162.240	167.807	221.075	1.00	15.46	C
ATOM	5621	CG	TYR	L	56	162.961	166.512	220.784	1.00	18.19	C
ATOM	5622	CD1	TYR	L	56	163.519	166.270	219.537	1.00	20.67	C
ATOM	5623	CD2	TYR	L	56	163.071	165.524	221.753	1.00	23.47	C
ATOM	5624	CE1	TYR	L	56	164.174	165.084	219.266	1.00	19.75	C
ATOM	5625	CE2	TYR	L	56	163.723	164.336	221.491	1.00	18.76	C
ATOM	5626	CZ	TYR	L	56	164.272	164.121	220.246	1.00	20.54	C
ATOM	5627	OH	TYR	L	56	164.922	162.939	219.980	1.00	32.17	O
ATOM	5628	N	SER	L	57	159.953	166.183	219.446	1.00	29.21	N
ATOM	5629	CA	SER	L	57	158.844	165.240	219.511	1.00	26.07	C
ATOM	5630	C	SER	L	57	158.673	164.709	220.930	1.00	29.80	C
ATOM	5631	O	SER	L	57	159.644	164.304	221.576	1.00	32.79	O
ATOM	5632	CB	SER	L	57	159.075	164.085	218.539	1.00	31.03	C
ATOM	5633	OG	SER	L	57	160.184	163.296	218.934	1.00	38.17	O
ATOM	5634	N	GLY	L	58	157.430	164.705	221.411	1.00	28.02	N
ATOM	5635	CA	GLY	L	58	157.113	164.252	222.745	1.00	29.74	C
ATOM	5636	C	GLY	L	58	157.072	165.340	223.796	1.00	33.34	C
ATOM	5637	O	GLY	L	58	156.488	165.127	224.865	1.00	38.14	O
ATOM	5638	N	VAL	L	59	157.671	166.492	223.528	1.00	31.06	N
ATOM	5639	CA	VAL	L	59	157.649	167.599	224.490	1.00	30.68	C
ATOM	5640	C	VAL	L	59	156.254	168.213	224.513	1.00	30.26	C
ATOM	5641	O	VAL	L	59	155.648	168.401	223.443	1.00	32.41	O
ATOM	5642	CB	VAL	L	59	158.707	168.641	224.121	1.00	23.93	C
ATOM	5643	CG1	VAL	L	59	158.710	169.783	225.122	1.00	27.60	C
ATOM	5644	CG2	VAL	L	59	160.078	167.990	224.049	1.00	24.72	C
ATOM	5645	N	PRO	L	60	155.698	168.518	225.686	1.00	30.18	N
ATOM	5646	CA	PRO	L	60	154.379	169.158	225.731	1.00	32.42	C
ATOM	5647	C	PRO	L	60	154.382	170.491	224.998	1.00	36.19	C
ATOM	5648	O	PRO	L	60	155.393	171.195	224.942	1.00	41.34	O
ATOM	5649	CB	PRO	L	60	154.128	169.350	227.229	1.00	35.02	C
ATOM	5650	CG	PRO	L	60	154.933	168.291	227.890	1.00	34.80	C
ATOM	5651	CD	PRO	L	60	156.109	167.988	226.998	1.00	28.58	C
ATOM	5652	N	SER	L	61	153.226	170.835	224.428	1.00	39.40	N
ATOM	5653	CA	SER	L	61	153.116	172.037	223.610	1.00	41.58	C
ATOM	5654	C	SER	L	61	153.132	173.321	224.427	1.00	41.43	C
ATOM	5655	O	SER	L	61	153.012	174.404	223.843	1.00	43.25	O
ATOM	5656	CB	SER	L	61	151.840	171.982	222.769	1.00	43.97	C
ATOM	5657	OG	SER	L	61	150.793	172.712	223.385	1.00	46.02	O
ATOM	5658	N	ARG	L	62	153.277	173.237	225.752	1.00	38.39	N
ATOM	5659	CA	ARG	L	62	153.374	174.450	226.557	1.00	40.37	C
ATOM	5660	C	ARG	L	62	154.718	175.135	226.353	1.00	38.08	C
ATOM	5661	O	ARG	L	62	154.799	176.369	226.331	1.00	38.59	O
ATOM	5662	CB	ARG	L	62	153.156	174.124	228.034	1.00	38.65	C
ATOM	5663	CG	ARG	L	62	152.211	172.963	228.290	1.00	41.75	C
ATOM	5664	CD	ARG	L	62	152.144	172.626	229.772	1.00	41.65	C

ATOM	5665	NE	ARG	L	62	153.392	172.059	230.268	1.00	39.65	N
ATOM	5666	CZ	ARG	L	62	153.553	170.786	230.602	1.00	41.54	C
ATOM	5667	NH1	ARG	L	62	152.559	169.918	230.515	1.00	43.38	N
ATOM	5668	NH2	ARG	L	62	154.740	170.374	231.036	1.00	39.69	N
ATOM	5669	N	PHE	L	63	155.783	174.352	226.205	1.00	29.22	N
ATOM	5670	CA	PHE	L	63	157.102	174.915	225.955	1.00	26.86	C
ATOM	5671	C	PHE	L	63	157.144	175.586	224.589	1.00	31.15	C
ATOM	5672	O	PHE	L	63	156.584	175.075	223.614	1.00	31.61	O
ATOM	5673	CB	PHE	L	63	158.164	173.821	226.038	1.00	23.95	C
ATOM	5674	CG	PHE	L	63	158.297	173.208	227.400	1.00	25.76	C
ATOM	5675	CD1	PHE	L	63	159.089	173.804	228.366	1.00	26.06	C
ATOM	5676	CD2	PHE	L	63	157.627	172.041	227.717	1.00	19.81	C
ATOM	5677	CE1	PHE	L	63	159.212	173.244	229.622	1.00	21.73	C
ATOM	5678	CE2	PHE	L	63	157.746	171.476	228.971	1.00	22.72	C
ATOM	5679	CZ	PHE	L	63	158.540	172.079	229.924	1.00	23.20	C
ATOM	5680	N	SER	L	64	157.812	176.734	224.520	1.00	28.81	N
ATOM	5681	CA	SER	L	64	158.000	177.433	223.259	1.00	18.83	C
ATOM	5682	C	SER	L	64	159.323	178.179	223.294	1.00	22.19	C
ATOM	5683	O	SER	L	64	159.836	178.517	224.364	1.00	29.07	O
ATOM	5684	CB	SER	L	64	156.854	178.413	222.974	1.00	26.40	C
ATOM	5685	OG	SER	L	64	156.957	179.569	223.786	1.00	37.18	O
ATOM	5686	N	GLY	L	65	159.869	178.434	222.111	1.00	24.77	N
ATOM	5687	CA	GLY	L	65	161.122	179.147	221.977	1.00	25.31	C
ATOM	5688	C	GLY	L	65	161.000	180.251	220.947	1.00	29.05	C
ATOM	5689	O	GLY	L	65	160.231	180.147	219.990	1.00	30.52	O
ATOM	5690	N	SER	L	66	161.766	181.316	221.153	1.00	32.97	N
ATOM	5691	CA	SER	L	66	161.732	182.450	220.242	1.00	31.72	C
ATOM	5692	C	SER	L	66	163.086	183.136	220.266	1.00	29.86	C
ATOM	5693	O	SER	L	66	163.879	182.947	221.190	1.00	35.47	O
ATOM	5694	CB	SER	L	66	160.620	183.440	220.611	1.00	35.59	C
ATOM	5695	OG	SER	L	66	159.362	182.792	220.697	1.00	39.52	O
ATOM	5696	N	ARG	L	67	163.345	183.933	219.233	1.00	39.38	N
ATOM	5697	CA	ARG	L	67	164.561	184.727	219.174	1.00	39.30	C
ATOM	5698	C	ARG	L	67	164.214	186.153	218.778	1.00	46.41	C
ATOM	5699	O	ARG	L	67	163.337	186.382	217.940	1.00	49.18	O
ATOM	5700	CB	ARG	L	67	165.585	184.145	218.189	1.00	41.36	C
ATOM	5701	CG	ARG	L	67	165.105	184.052	216.751	1.00	48.96	C
ATOM	5702	CD	ARG	L	67	166.198	183.499	215.851	1.00	49.63	C
ATOM	5703	NE	ARG	L	67	167.355	184.385	215.803	1.00	49.44	N
ATOM	5704	CZ	ARG	L	67	168.499	184.092	215.199	1.00	54.03	C
ATOM	5705	NH1	ARG	L	67	168.675	182.940	214.573	1.00	53.12	N
ATOM	5706	NH2	ARG	L	67	169.491	184.977	215.225	1.00	52.64	N
ATOM	5707	N	SER	L	68	164.901	187.108	219.402	1.00	57.10	N
ATOM	5708	CA	SER	L	68	164.794	188.529	219.070	1.00	56.60	C
ATOM	5709	C	SER	L	68	166.226	189.056	219.014	1.00	54.12	C
ATOM	5710	O	SER	L	68	166.824	189.371	220.047	1.00	50.16	O
ATOM	5711	CB	SER	L	68	163.947	189.281	220.087	1.00	55.26	C
ATOM	5712	OG	SER	L	68	162.777	188.551	220.413	1.00	54.01	O
ATOM	5713	N	GLY	L	69	166.772	189.132	217.803	1.00	53.32	N
ATOM	5714	CA	GLY	L	69	168.144	189.561	217.625	1.00	54.54	C

ATOM	5715	C	GLY	L	69	169.124	188.683	218.373	1.00	53.33	C
ATOM	5716	O	GLY	L	69	169.260	187.492	218.077	1.00	54.40	O
ATOM	5717	N	THR	L	70	169.807	189.266	219.358	1.00	55.46	N
ATOM	5718	CA	THR	L	70	170.765	188.503	220.150	1.00	56.08	C
ATOM	5719	C	THR	L	70	170.059	187.610	221.167	1.00	54.23	C
ATOM	5720	O	THR	L	70	170.552	186.525	221.497	1.00	55.37	O
ATOM	5721	CB	THR	L	70	171.734	189.464	220.845	1.00	56.56	C
ATOM	5722	OG1	THR	L	70	172.576	190.087	219.865	1.00	57.56	O
ATOM	5723	CG2	THR	L	70	172.602	188.740	221.858	1.00	54.95	C
ATOM	5724	N	ASP	L	71	168.882	188.021	221.634	1.00	48.39	N
ATOM	5725	CA	ASP	L	71	168.249	187.344	222.759	1.00	43.28	C
ATOM	5726	C	ASP	L	71	167.479	186.111	222.303	1.00	44.41	C
ATOM	5727	O	ASP	L	71	166.873	186.097	221.230	1.00	49.87	O
ATOM	5728	CB	ASP	L	71	167.306	188.298	223.492	1.00	49.07	C
ATOM	5729	CG	ASP	L	71	168.039	189.434	224.176	1.00	57.53	C
ATOM	5730	OD1	ASP	L	71	169.288	189.434	224.166	1.00	56.92	O
ATOM	5731	OD2	ASP	L	71	167.364	190.330	224.723	1.00	56.32	O
ATOM	5732	N	PHE	L	72	167.511	185.068	223.130	1.00	39.81	N
ATOM	5733	CA	PHE	L	72	166.740	183.852	222.915	1.00	32.76	C
ATOM	5734	C	PHE	L	72	165.888	183.601	224.150	1.00	33.75	C
ATOM	5735	O	PHE	L	72	166.381	183.697	225.277	1.00	35.84	O
ATOM	5736	CB	PHE	L	72	167.660	182.660	222.637	1.00	22.68	C
ATOM	5737	CG	PHE	L	72	168.441	182.786	221.360	1.00	27.81	C
ATOM	5738	CD1	PHE	L	72	169.657	183.450	221.338	1.00	29.60	C
ATOM	5739	CD2	PHE	L	72	167.956	182.250	220.180	1.00	32.90	C
ATOM	5740	CE1	PHE	L	72	170.375	183.572	220.164	1.00	29.35	C
ATOM	5741	CE2	PHE	L	72	168.670	182.369	219.004	1.00	32.43	C
ATOM	5742	CZ	PHE	L	72	169.880	183.031	218.996	1.00	30.23	C
ATOM	5743	N	THR	L	73	164.615	183.283	223.943	1.00	29.25	N
ATOM	5744	CA	THR	L	73	163.652	183.188	225.030	1.00	24.08	C
ATOM	5745	C	THR	L	73	162.970	181.828	225.024	1.00	25.64	C
ATOM	5746	O	THR	L	73	162.557	181.331	223.970	1.00	35.17	O
ATOM	5747	CB	THR	L	73	162.598	184.298	224.926	1.00	29.22	C
ATOM	5748	OG1	THR	L	73	163.250	185.568	224.807	1.00	31.78	O
ATOM	5749	CG2	THR	L	73	161.703	184.308	226.157	1.00	29.66	C
ATOM	5750	N	LEU	L	74	162.862	181.236	226.211	1.00	16.47	N
ATOM	5751	CA	LEU	L	74	162.100	180.015	226.438	1.00	20.19	C
ATOM	5752	C	LEU	L	74	160.903	180.348	227.316	1.00	28.66	C
ATOM	5753	O	LEU	L	74	161.064	180.925	228.394	1.00	35.06	O
ATOM	5754	CB	LEU	L	74	162.959	178.937	227.105	1.00	22.45	C
ATOM	5755	CG	LEU	L	74	162.212	177.871	227.916	1.00	23.28	C
ATOM	5756	CD1	LEU	L	74	161.349	176.995	227.025	1.00	21.49	C
ATOM	5757	CD2	LEU	L	74	163.175	177.023	228.731	1.00	21.89	C
ATOM	5758	N	THR	L	75	159.710	179.975	226.865	1.00	24.32	N
ATOM	5759	CA	THR	L	75	158.477	180.331	227.551	1.00	22.35	C
ATOM	5760	C	THR	L	75	157.664	179.083	227.864	1.00	23.38	C
ATOM	5761	O	THR	L	75	157.460	178.227	226.996	1.00	25.54	O
ATOM	5762	CB	THR	L	75	157.638	181.301	226.707	1.00	31.10	C
ATOM	5763	OG1	THR	L	75	158.300	182.570	226.637	1.00	34.08	O
ATOM	5764	CG2	THR	L	75	156.258	181.494	227.317	1.00	30.80	C

ATOM	5765	N	ILE	L	76	157.204	178.986	229.110	1.00	34.07	N
ATOM	5766	CA	ILE	L	76	156.270	177.952	229.538	1.00	33.85	C
ATOM	5767	C	ILE	L	76	154.959	178.638	229.893	1.00	39.23	C
ATOM	5768	O	ILE	L	76	154.916	179.470	230.809	1.00	43.11	O
ATOM	5769	CB	ILE	L	76	156.808	177.139	230.726	1.00	31.30	C
ATOM	5770	CG1	ILE	L	76	158.167	176.524	230.387	1.00	31.75	C
ATOM	5771	CG2	ILE	L	76	155.822	176.055	231.117	1.00	35.79	C
ATOM	5772	CD1	ILE	L	76	159.350	177.243	230.990	1.00	32.98	C
ATOM	5773	N	SER	L	77	153.893	178.294	229.166	1.00	44.24	N
ATOM	5774	CA	SER	L	77	152.614	178.971	229.356	1.00	44.30	C
ATOM	5775	C	SER	L	77	151.954	178.549	230.663	1.00	44.74	C
ATOM	5776	O	SER	L	77	151.406	179.384	231.391	1.00	47.67	O
ATOM	5777	CB	SER	L	77	151.692	178.688	228.171	1.00	47.30	C
ATOM	5778	OG	SER	L	77	150.976	177.480	228.360	1.00	50.73	O
ATOM	5779	N	SER	L	78	151.988	177.256	230.973	1.00	51.76	N
ATOM	5780	CA	SER	L	78	151.438	176.734	232.216	1.00	52.62	C
ATOM	5781	C	SER	L	78	152.495	175.885	232.901	1.00	56.03	C
ATOM	5782	O	SER	L	78	153.013	174.935	232.307	1.00	61.63	O
ATOM	5783	CB	SER	L	78	150.172	175.910	231.961	1.00	51.88	C
ATOM	5784	OG	SER	L	78	149.205	176.670	231.257	1.00	54.18	O
ATOM	5785	N	LEU	L	79	152.804	176.220	234.151	1.00	51.90	N
ATOM	5786	CA	LEU	L	79	153.858	175.545	234.901	1.00	52.22	C
ATOM	5787	C	LEU	L	79	153.245	174.398	235.695	1.00	57.59	C
ATOM	5788	O	LEU	L	79	152.613	174.619	236.732	1.00	64.41	O
ATOM	5789	CB	LEU	L	79	154.579	176.529	235.817	1.00	53.89	C
ATOM	5790	CG	LEU	L	79	155.955	176.099	236.325	1.00	57.44	C
ATOM	5791	CD1	LEU	L	79	156.957	176.043	235.183	1.00	57.18	C
ATOM	5792	CD2	LEU	L	79	156.433	177.049	237.407	1.00	60.26	C
ATOM	5793	N	GLN	L	80	153.429	173.180	235.207	1.00	57.42	N
ATOM	5794	CA	GLN	L	80	152.969	171.975	235.877	1.00	54.55	C
ATOM	5795	C	GLN	L	80	153.941	171.572	236.977	1.00	58.21	C
ATOM	5796	O	GLN	L	80	155.103	171.987	236.976	1.00	63.61	O
ATOM	5797	CB	GLN	L	80	152.814	170.844	234.862	1.00	49.97	C
ATOM	5798	CG	GLN	L	80	151.926	171.201	233.683	1.00	51.48	C
ATOM	5799	CD	GLN	L	80	150.510	171.542	234.105	1.00	58.28	C
ATOM	5800	OE1	GLN	L	80	150.173	172.709	234.307	1.00	59.75	O
ATOM	5801	NE2	GLN	L	80	149.671	170.522	234.239	1.00	58.89	N
ATOM	5802	N	PRO	L	81	153.489	170.774	237.950	1.00	52.79	N
ATOM	5803	CA	PRO	L	81	154.406	170.336	239.017	1.00	57.49	C
ATOM	5804	C	PRO	L	81	155.615	169.569	238.508	1.00	60.12	C
ATOM	5805	O	PRO	L	81	156.672	169.606	239.150	1.00	61.53	O
ATOM	5806	CB	PRO	L	81	153.516	169.461	239.911	1.00	53.51	C
ATOM	5807	CG	PRO	L	81	152.127	169.906	239.628	1.00	54.90	C
ATOM	5808	CD	PRO	L	81	152.101	170.344	238.198	1.00	55.09	C
ATOM	5809	N	GLU	L	82	155.493	168.864	237.388	1.00	53.05	N
ATOM	5810	CA	GLU	L	82	156.614	168.139	236.806	1.00	51.24	C
ATOM	5811	C	GLU	L	82	157.589	169.042	236.060	1.00	52.57	C
ATOM	5812	O	GLU	L	82	158.612	168.552	235.572	1.00	57.93	O
ATOM	5813	CB	GLU	L	82	156.105	167.046	235.860	1.00	50.80	C
ATOM	5814	CG	GLU	L	82	155.524	167.568	234.558	1.00	54.01	C

ATOM	5815	CD	GLU	L	82	154.012	167.486	234.519	1.00	59.55	C
ATOM	5816	OE1	GLU	L	82	153.402	167.234	235.578	1.00	58.94	O
ATOM	5817	OE2	GLU	L	82	153.434	167.674	233.428	1.00	63.09	O
ATOM	5818	N	ASP	L	83	157.302	170.338	235.956	1.00	46.89	N
ATOM	5819	CA	ASP	L	83	158.123	171.254	235.175	1.00	43.84	C
ATOM	5820	C	ASP	L	83	159.208	171.947	235.991	1.00	43.21	C
ATOM	5821	O	ASP	L	83	159.940	172.772	235.438	1.00	47.41	O
ATOM	5822	CB	ASP	L	83	157.239	172.310	234.503	1.00	44.08	C
ATOM	5823	CG	ASP	L	83	156.497	171.767	233.298	1.00	51.00	C
ATOM	5824	OD1	ASP	L	83	155.581	172.455	232.802	1.00	49.18	O
ATOM	5825	OD2	ASP	L	83	156.830	170.651	232.848	1.00	47.72	O
ATOM	5826	N	PHE	L	84	159.333	171.639	237.280	1.00	41.05	N
ATOM	5827	CA	PHE	L	84	160.376	172.236	238.110	1.00	41.57	C
ATOM	5828	C	PHE	L	84	161.676	171.470	237.898	1.00	43.47	C
ATOM	5829	O	PHE	L	84	161.797	170.311	238.310	1.00	49.48	O
ATOM	5830	CB	PHE	L	84	159.971	172.229	239.580	1.00	45.15	C
ATOM	5831	CG	PHE	L	84	158.720	173.007	239.870	1.00	49.87	C
ATOM	5832	CD1	PHE	L	84	158.734	174.391	239.861	1.00	47.83	C
ATOM	5833	CD2	PHE	L	84	157.534	172.357	240.160	1.00	44.94	C
ATOM	5834	CE1	PHE	L	84	157.587	175.110	240.129	1.00	43.05	C
ATOM	5835	CE2	PHE	L	84	156.383	173.071	240.428	1.00	45.44	C
ATOM	5836	CZ	PHE	L	84	156.410	174.450	240.413	1.00	45.51	C
ATOM	5837	N	ALA	L	85	162.645	172.114	237.263	1.00	27.62	N
ATOM	5838	CA	ALA	L	85	163.940	171.510	236.961	1.00	23.67	C
ATOM	5839	C	ALA	L	85	164.912	172.639	236.636	1.00	26.90	C
ATOM	5840	O	ALA	L	85	164.610	173.819	236.852	1.00	38.03	O
ATOM	5841	CB	ALA	L	85	163.827	170.498	235.821	1.00	27.38	C
ATOM	5842	N	THR	L	86	166.080	172.279	236.115	1.00	16.38	N
ATOM	5843	CA	THR	L	86	167.101	173.239	235.717	1.00	15.86	C
ATOM	5844	C	THR	L	86	167.172	173.290	234.198	1.00	12.77	C
ATOM	5845	O	THR	L	86	167.349	172.257	233.545	1.00	22.41	O
ATOM	5846	CB	THR	L	86	168.465	172.864	236.301	1.00	16.79	C
ATOM	5847	OG1	THR	L	86	168.306	172.444	237.662	1.00	25.33	O
ATOM	5848	CG2	THR	L	86	169.409	174.052	236.255	1.00	18.47	C
ATOM	5849	N	TYR	L	87	167.037	174.488	233.640	1.00	14.08	N
ATOM	5850	CA	TYR	L	87	166.993	174.684	232.199	1.00	12.96	C
ATOM	5851	C	TYR	L	87	168.303	175.289	231.713	1.00	24.29	C
ATOM	5852	O	TYR	L	87	168.828	176.229	232.318	1.00	33.81	O
ATOM	5853	CB	TYR	L	87	165.813	175.577	231.809	1.00	17.54	C
ATOM	5854	CG	TYR	L	87	164.472	174.982	232.175	1.00	20.92	C
ATOM	5855	CD1	TYR	L	87	163.905	175.211	233.421	1.00	20.60	C
ATOM	5856	CD2	TYR	L	87	163.777	174.185	231.277	1.00	19.37	C
ATOM	5857	CE1	TYR	L	87	162.684	174.665	233.761	1.00	15.14	C
ATOM	5858	CE2	TYR	L	87	162.554	173.636	231.609	1.00	19.67	C
ATOM	5859	CZ	TYR	L	87	162.013	173.879	232.851	1.00	17.46	C
ATOM	5860	OH	TYR	L	87	160.795	173.335	233.187	1.00	19.83	O
ATOM	5861	N	TYR	L	88	168.823	174.747	230.616	1.00	12.27	N
ATOM	5862	CA	TYR	L	88	170.123	175.130	230.085	1.00	9.02	C
ATOM	5863	C	TYR	L	88	170.013	175.587	228.638	1.00	17.57	C
ATOM	5864	O	TYR	L	88	169.197	175.067	227.866	1.00	25.10	O

ATOM	5865	CB	TYR	L	88	171.125	173.972	230.168	1.00	11.39	C
ATOM	5866	CG	TYR	L	88	171.525	173.586	231.572	1.00	12.70	C
ATOM	5867	CD1	TYR	L	88	172.536	174.269	232.233	1.00	11.05	C
ATOM	5868	CD2	TYR	L	88	170.902	172.537	232.232	1.00	18.16	C
ATOM	5869	CE1	TYR	L	88	172.913	173.922	233.512	1.00	16.57	C
ATOM	5870	CE2	TYR	L	88	171.273	172.183	233.515	1.00	16.67	C
ATOM	5871	CZ	TYR	L	88	172.279	172.880	234.149	1.00	22.24	C
ATOM	5872	OH	TYR	L	88	172.654	172.534	235.426	1.00	27.49	O
ATOM	5873	N	CYS	L	89	170.860	176.551	228.285	1.00	24.16	N
ATOM	5874	CA	CYS	L	89	171.044	177.003	226.918	1.00	15.38	C
ATOM	5875	C	CYS	L	89	172.200	176.242	226.276	1.00	25.94	C
ATOM	5876	O	CYS	L	89	173.042	175.648	226.953	1.00	37.50	O
ATOM	5877	CB	CYS	L	89	171.333	178.504	226.882	1.00	28.38	C
ATOM	5878	SG	CYS	L	89	169.952	179.579	227.310	1.00	63.11	S
ATOM	5879	N	GLN	L	90	172.238	176.261	224.947	1.00	10.81	N
ATOM	5880	CA	GLN	L	90	173.363	175.656	224.239	1.00	3.69	C
ATOM	5881	C	GLN	L	90	173.527	176.341	222.895	1.00	14.75	C
ATOM	5882	O	GLN	L	90	172.609	176.314	222.072	1.00	34.76	O
ATOM	5883	CB	GLN	L	90	173.150	174.160	224.055	1.00	4.83	C
ATOM	5884	CG	GLN	L	90	174.369	173.414	223.547	1.00	7.86	C
ATOM	5885	CD	GLN	L	90	174.002	172.294	222.599	1.00	4.49	C
ATOM	5886	OE1	GLN	L	90	173.226	172.486	221.664	1.00	12.17	O
ATOM	5887	NE2	GLN	L	90	174.557	171.113	222.836	1.00	15.34	N
ATOM	5888	N	GLN	L	91	174.690	176.946	222.676	1.00	18.45	N
ATOM	5889	CA	GLN	L	91	175.048	177.539	221.391	1.00	22.51	C
ATOM	5890	C	GLN	L	91	176.038	176.582	220.740	1.00	27.03	C
ATOM	5891	O	GLN	L	91	177.234	176.604	221.030	1.00	31.92	O
ATOM	5892	CB	GLN	L	91	175.640	178.926	221.584	1.00	32.09	C
ATOM	5893	CG	GLN	L	91	176.071	179.614	220.314	1.00	34.59	C
ATOM	5894	CD	GLN	L	91	175.690	181.073	220.318	1.00	35.67	C
ATOM	5895	OE1	GLN	L	91	176.432	181.913	220.826	1.00	43.03	O
ATOM	5896	NE2	GLN	L	91	174.528	181.387	219.757	1.00	32.89	N
ATOM	5897	N	SER	L	92	175.534	175.736	219.849	1.00	19.96	N
ATOM	5898	CA	SER	L	92	176.305	174.622	219.316	1.00	21.06	C
ATOM	5899	C	SER	L	92	176.589	174.841	217.836	1.00	22.88	C
ATOM	5900	O	SER	L	92	175.668	174.844	217.013	1.00	35.21	O
ATOM	5901	CB	SER	L	92	175.563	173.303	219.529	1.00	26.12	C
ATOM	5902	OG	SER	L	92	174.185	173.442	219.236	1.00	22.53	O
ATOM	5903	N	SER	L	93	177.864	175.031	217.510	1.00	17.62	N
ATOM	5904	CA	SER	L	93	178.343	175.000	216.138	1.00	25.03	C
ATOM	5905	C	SER	L	93	179.546	174.072	216.087	1.00	34.12	C
ATOM	5906	O	SER	L	93	179.989	173.541	217.109	1.00	41.50	O
ATOM	5907	CB	SER	L	93	178.709	176.398	215.628	1.00	34.17	C
ATOM	5908	OG	SER	L	93	180.035	176.741	215.991	1.00	34.52	O
ATOM	5909	N	SER	L	94	180.074	173.867	214.886	1.00	30.96	N
ATOM	5910	CA	SER	L	94	181.279	173.063	214.750	1.00	31.20	C
ATOM	5911	C	SER	L	94	182.456	173.774	215.405	1.00	35.37	C
ATOM	5912	O	SER	L	94	182.561	175.003	215.362	1.00	34.80	O
ATOM	5913	CB	SER	L	94	181.576	172.787	213.278	1.00	32.82	C
ATOM	5914	OG	SER	L	94	182.856	172.202	213.121	1.00	37.90	O

ATOM	5915	N	SER	L	95	183.329	172.989	216.037	1.00	29.71	N
ATOM	5916	CA	SER	L	95	184.567	173.410	216.691	1.00	35.62	C
ATOM	5917	C	SER	L	95	184.346	174.157	218.002	1.00	35.04	C
ATOM	5918	O	SER	L	95	185.329	174.467	218.686	1.00	32.27	O
ATOM	5919	CB	SER	L	95	185.450	174.275	215.779	1.00	36.99	C
ATOM	5920	OG	SER	L	95	184.999	175.619	215.760	1.00	36.36	O
ATOM	5921	N	LEU	L	96	183.104	174.450	218.388	1.00	23.71	N
ATOM	5922	CA	LEU	L	96	182.857	175.143	219.648	1.00	20.67	C
ATOM	5923	C	LEU	L	96	181.405	174.958	220.059	1.00	22.16	C
ATOM	5924	O	LEU	L	96	180.496	175.257	219.280	1.00	29.27	O
ATOM	5925	CB	LEU	L	96	183.185	176.636	219.535	1.00	29.13	C
ATOM	5926	CG	LEU	L	96	182.766	177.496	220.730	1.00	25.49	C
ATOM	5927	CD1	LEU	L	96	183.580	177.131	221.960	1.00	24.39	C
ATOM	5928	CD2	LEU	L	96	182.910	178.974	220.410	1.00	28.33	C
ATOM	5929	N	ILE	L	97	181.196	174.481	221.284	1.00	25.13	N
ATOM	5930	CA	ILE	L	97	179.870	174.333	221.871	1.00	21.60	C
ATOM	5931	C	ILE	L	97	179.898	174.950	223.261	1.00	19.36	C
ATOM	5932	O	ILE	L	97	180.788	174.643	224.062	1.00	17.48	O
ATOM	5933	CB	ILE	L	97	179.431	172.857	221.941	1.00	12.94	C
ATOM	5934	CG1	ILE	L	97	179.209	172.299	220.535	1.00	12.70	C
ATOM	5935	CG2	ILE	L	97	178.174	172.712	222.783	1.00	14.48	C
ATOM	5936	CD1	ILE	L	97	178.590	170.924	220.515	1.00	16.45	C
ATOM	5937	N	THR	L	98	178.930	175.817	223.547	1.00	24.14	N
ATOM	5938	CA	THR	L	98	178.867	176.531	224.812	1.00	26.70	C
ATOM	5939	C	THR	L	98	177.504	176.321	225.460	1.00	20.64	C
ATOM	5940	O	THR	L	98	176.462	176.475	224.817	1.00	24.57	O
ATOM	5941	CB	THR	L	98	179.135	178.032	224.613	1.00	23.08	C
ATOM	5942	OG1	THR	L	98	180.547	178.257	224.523	1.00	30.97	O
ATOM	5943	CG2	THR	L	98	178.580	178.842	225.772	1.00	22.90	C
ATOM	5944	N	PHE	L	99	177.524	175.965	226.742	1.00	18.11	N
ATOM	5945	CA	PHE	L	99	176.320	175.722	227.521	1.00	17.11	C
ATOM	5946	C	PHE	L	99	176.015	176.919	228.410	1.00	30.66	C
ATOM	5947	O	PHE	L	99	176.915	177.665	228.807	1.00	37.85	O
ATOM	5948	CB	PHE	L	99	176.460	174.467	228.394	1.00	11.77	C
ATOM	5949	CG	PHE	L	99	176.064	173.196	227.703	1.00	10.26	C
ATOM	5950	CD1	PHE	L	99	174.730	172.852	227.572	1.00	7.34	C
ATOM	5951	CD2	PHE	L	99	177.024	172.342	227.191	1.00	15.79	C
ATOM	5952	CE1	PHE	L	99	174.362	171.682	226.940	1.00	11.13	C
ATOM	5953	CE2	PHE	L	99	176.662	171.171	226.558	1.00	13.99	C
ATOM	5954	CZ	PHE	L	99	175.329	170.841	226.433	1.00	14.02	C
ATOM	5955	N	GLY	L	100	174.732	177.099	228.714	1.00	24.90	N
ATOM	5956	CA	GLY	L	100	174.319	178.089	229.687	1.00	18.87	C
ATOM	5957	C	GLY	L	100	174.477	177.566	231.100	1.00	31.75	C
ATOM	5958	O	GLY	L	100	175.183	176.577	231.318	1.00	32.13	O
ATOM	5959	N	GLN	L	101	173.828	178.207	232.068	1.00	33.72	N
ATOM	5960	CA	GLN	L	101	173.940	177.766	233.451	1.00	28.05	C
ATOM	5961	C	GLN	L	101	172.771	178.314	234.254	1.00	27.99	C
ATOM	5962	O	GLN	L	101	172.135	179.299	233.870	1.00	38.72	O
ATOM	5963	CB	GLN	L	101	175.268	178.208	234.076	1.00	32.96	C
ATOM	5964	CG	GLN	L	101	175.325	179.685	234.430	1.00	31.59	C

ATOM	5965	CD	GLN	L	101	175.865	180.538	233.300	1.00	36.83		C
ATOM	5966	OE1	GLN	L	101	176.398	180.023	232.318	1.00	39.23		O
ATOM	5967	NE2	GLN	L	101	175.732	181.853	233.436	1.00	34.81		N
ATOM	5968	N	GLY	L	102	172.499	177.656	235.377	1.00	32.90		N
ATOM	5969	CA	GLY	L	102	171.525	178.172	236.322	1.00	40.76		C
ATOM	5970	C	GLY	L	102	170.101	178.037	235.828	1.00	29.64		C
ATOM	5971	O	GLY	L	102	169.748	177.099	235.104	1.00	20.24		O
ATOM	5972	N	THR	L	103	169.267	178.998	236.230	1.00	30.81		N
ATOM	5973	CA	THR	L	103	167.833	179.009	235.943	1.00	29.13		C
ATOM	5974	C	THR	L	103	167.157	177.748	236.486	1.00	28.87		C
ATOM	5975	O	THR	L	103	166.611	176.926	235.748	1.00	29.73		O
ATOM	5976	CB	THR	L	103	167.565	179.182	234.445	1.00	26.67		C
ATOM	5977	OG1	THR	L	103	168.513	180.103	233.893	1.00	31.83		O
ATOM	5978	CG2	THR	L	103	166.167	179.725	234.229	1.00	28.37		C
ATOM	5979	N	LYS	L	104	167.209	177.611	237.809	1.00	35.04		N
ATOM	5980	CA	LYS	L	104	166.554	176.509	238.510	1.00	32.89		C
ATOM	5981	C	LYS	L	104	165.170	176.986	238.934	1.00	39.28		C
ATOM	5982	O	LYS	L	104	165.036	177.902	239.749	1.00	47.13		O
ATOM	5983	CB	LYS	L	104	167.388	176.060	239.705	1.00	34.55		C
ATOM	5984	CG	LYS	L	104	166.616	175.276	240.753	1.00	34.95		C
ATOM	5985	CD	LYS	L	104	167.499	174.940	241.943	1.00	35.66		C
ATOM	5986	CE	LYS	L	104	166.829	173.935	242.866	1.00	39.56		C
ATOM	5987	NZ	LYS	L	104	165.791	173.135	242.159	1.00	43.91		N
ATOM	5988	N	VAL	L	105	164.131	176.365	238.374	1.00	40.76		N
ATOM	5989	CA	VAL	L	105	162.765	176.770	238.680	1.00	41.28		C
ATOM	5990	C	VAL	L	105	162.309	176.087	239.960	1.00	45.38		C
ATOM	5991	O	VAL	L	105	162.350	174.855	240.076	1.00	46.43		O
ATOM	5992	CB	VAL	L	105	161.831	176.443	237.507	1.00	35.80		C
ATOM	5993	CG1	VAL	L	105	160.407	176.865	237.830	1.00	35.71		C
ATOM	5994	CG2	VAL	L	105	162.315	177.130	236.242	1.00	41.00		C
ATOM	5995	N	GLU	L	106	161.872	176.884	240.927	1.00	52.46		N
ATOM	5996	CA	GLU	L	106	161.426	176.399	242.225	1.00	53.06		C
ATOM	5997	C	GLU	L	106	159.960	176.766	242.436	1.00	56.33		C
ATOM	5998	O	GLU	L	106	159.296	177.310	241.551	1.00	59.89		O
ATOM	5999	CB	GLU	L	106	162.299	176.968	243.347	1.00	51.51		C
ATOM	6000	CG	GLU	L	106	163.760	177.139	242.971	1.00	53.24		C
ATOM	6001	CD	GLU	L	106	164.570	177.797	244.069	1.00	61.66		C
ATOM	6002	OE1	GLU	L	106	163.978	178.164	245.106	1.00	61.57		O
ATOM	6003	OE2	GLU	L	106	165.798	177.946	243.897	1.00	59.07		O
ATOM	6004	N	ILE	L	107	159.461	176.466	243.634	1.00	56.14		N
ATOM	6005	CA	ILE	L	107	158.077	176.728	243.996	1.00	55.05		C
ATOM	6006	C	ILE	L	107	158.051	177.525	245.294	1.00	59.11		C
ATOM	6007	O	ILE	L	107	159.011	177.533	246.070	1.00	61.57		O
ATOM	6008	CB	ILE	L	107	157.255	175.427	244.131	1.00	55.35		C
ATOM	6009	CG1	ILE	L	107	155.793	175.672	243.749	1.00	59.80		C
ATOM	6010	CG2	ILE	L	107	157.363	174.859	245.539	1.00	55.41		C
ATOM	6011	CD1	ILE	L	107	154.937	174.425	243.780	1.00	58.27		C
ATOM	6012	N	LYS	L	108	156.936	178.214	245.516	1.00	63.21		N
ATOM	6013	CA	LYS	L	108	156.765	179.030	246.712	1.00	66.28		C
ATOM	6014	C	LYS	L	108	156.434	178.166	247.924	1.00	65.28		C

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ATOM   6015  O   LYS L 108     156.067 178.678 248.982  1.00 60.33           O
ATOM   6016  CB  LYS L 108     155.668 180.074 246.495  1.00 61.86           C
ATOM   6017  CG  LYS L 108     155.598 180.616 245.078  1.00 61.00           C
ATOM   6018  CD  LYS L 108     154.568 181.727 244.964  1.00 64.87           C
ATOM   6019  CE  LYS L 108     154.869 182.642 243.789  1.00 65.02           C
ATOM   6020  NZ  LYS L 108     155.828 183.721 244.154  1.00 62.59           N
TER    6021      LYS L 108
HETATM 6022  C1  NAG B   1     181.590 181.179 139.216  1.00 64.12           C
HETATM 6023  C2  NAG B   1     180.355 181.046 140.102  1.00 66.16           C
HETATM 6024  C3  NAG B   1     180.502 179.844 141.028  1.00 62.38           C
HETATM 6025  C4  NAG B   1     180.794 178.587 140.219  1.00 63.17           C
HETATM 6026  C5  NAG B   1     182.009 178.814 139.323  1.00 61.88           C
HETATM 6027  C6  NAG B   1     182.290 177.651 138.400  1.00 63.76           C
HETATM 6028  C7  NAG B   1     179.107 183.093 140.641  1.00 63.87           C
HETATM 6029  C8  NAG B   1     178.180 182.710 139.526  1.00 59.37           C
HETATM 6030  N2  NAG B   1     180.128 182.260 140.870  1.00 68.42           N
HETATM 6031  O1  NAG B   1     181.419 182.246 138.341  1.00 62.29           O
HETATM 6032  O3  NAG B   1     179.315 179.676 141.795  1.00 60.92           O
HETATM 6033  O4  NAG B   1     181.051 177.492 141.090  1.00 64.69           O
HETATM 6034  O5  NAG B   1     181.794 179.963 138.488  1.00 62.03           O
HETATM 6035  O6  NAG B   1     183.462 177.874 137.628  1.00 64.16           O
HETATM 6036  O7  NAG B   1     178.940 184.112 141.305  1.00 61.93           O
HETATM 6037  C1  BDP B   2     179.709 179.622 143.179  1.00 53.02           C
HETATM 6038  C2  BDP B   2     178.672 180.333 144.037  1.00 54.58           C
HETATM 6039  C3  BDP B   2     179.062 180.324 145.440  1.00 53.71           C
HETATM 6040  C4  BDP B   2     179.346 178.953 145.945  1.00 55.63           C
HETATM 6041  C5  BDP B   2     180.292 178.185 145.041  1.00 56.45           C
HETATM 6042  C6  BDP B   2     180.339 176.780 145.501  1.00 55.38           C
HETATM 6043  O2  BDP B   2     178.536 181.719 143.593  1.00 54.75           O
HETATM 6044  O3  BDP B   2     177.936 180.930 146.253  1.00 54.95           O
HETATM 6045  O4  BDP B   2     179.975 179.050 147.221  1.00 57.09           O
HETATM 6046  O5  BDP B   2     179.885 178.226 143.643  1.00 59.96           O
HETATM 6047  O6A BDP B   2     181.421 176.214 145.630  1.00 53.82           O
HETATM 6048  O6B BDP B   2     179.286 176.177 145.759  1.00 54.24           O
HETATM 6049  C1  NAG B   3     179.058 178.623 148.242  1.00 49.72           C
HETATM 6050  C2  NAG B   3     179.835 178.477 149.554  1.00 45.31           C
HETATM 6051  C3  NAG B   3     178.890 178.135 150.705  1.00 45.04           C
HETATM 6052  C4  NAG B   3     177.732 179.123 150.761  1.00 48.80           C
HETATM 6053  C5  NAG B   3     177.045 179.193 149.403  1.00 49.11           C
HETATM 6054  C6  NAG B   3     175.934 180.215 149.351  1.00 49.80           C
HETATM 6055  C7  NAG B   3     182.150 177.674 149.746  1.00 51.84           C
HETATM 6056  C8  NAG B   3     183.073 176.509 149.557  1.00 48.32           C
HETATM 6057  N2  NAG B   3     180.869 177.462 149.429  1.00 51.78           N
HETATM 6058  O3  NAG B   3     179.622 178.171 151.925  1.00 54.89           O
HETATM 6059  O4  NAG B   3     176.783 178.717 151.740  1.00 50.71           O
HETATM 6060  O5  NAG B   3     178.004 179.569 148.407  1.00 54.06           O
HETATM 6061  O6  NAG B   3     175.153 180.070 148.173  1.00 52.07           O
HETATM 6062  O7  NAG B   3     182.546 178.757 150.166  1.00 46.28           O
HETATM 6063  C1  BDP B   4     179.263 177.058 152.768  1.00 52.87           C
HETATM 6064  C2  BDP B   4     180.205 177.029 153.962  1.00 47.87           C
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HETATM	6065	C3	BDP	B	4	179.811	176.031	154.944	1.00	47.63	C
HETATM	6066	C4	BDP	B	4	178.422	176.228	155.431	1.00	51.61	C
HETATM	6067	C5	BDP	B	4	177.436	176.288	154.278	1.00	51.33	C
HETATM	6068	C6	BDP	B	4	176.154	176.842	154.757	1.00	52.11	C
HETATM	6069	O2	BDP	B	4	181.553	176.710	153.499	1.00	49.41	O
HETATM	6070	O3	BDP	B	4	180.762	176.103	156.121	1.00	47.86	O
HETATM	6071	O4	BDP	B	4	178.082	175.103	156.244	1.00	52.23	O
HETATM	6072	O5	BDP	B	4	177.845	177.153	153.180	1.00	53.08	O
HETATM	6073	O6A	BDP	B	4	175.185	176.888	153.984	1.00	46.94	O
HETATM	6074	O6B	BDP	B	4	176.046	177.272	155.900	1.00	52.99	O
HETATM	6075	C1	NAG	B	5	177.905	175.475	157.628	1.00	47.87	C
HETATM	6076	C2	NAG	B	5	177.356	174.248	158.357	1.00	37.53	C
HETATM	6077	C3	NAG	B	5	177.192	174.535	159.849	1.00	44.37	C
HETATM	6078	C4	NAG	B	5	178.484	175.092	160.432	1.00	51.67	C
HETATM	6079	C5	NAG	B	5	178.969	176.283	159.613	1.00	49.38	C
HETATM	6080	C6	NAG	B	5	180.308	176.808	160.075	1.00	43.66	C
HETATM	6081	C7	NAG	B	5	175.862	172.583	157.337	1.00	44.26	C
HETATM	6082	C8	NAG	B	5	176.996	171.613	157.481	1.00	47.76	C
HETATM	6083	N2	NAG	B	5	176.092	173.825	157.776	1.00	38.84	N
HETATM	6084	O3	NAG	B	5	176.864	173.318	160.510	1.00	51.11	O
HETATM	6085	O4	NAG	B	5	178.275	175.508	161.777	1.00	53.19	O
HETATM	6086	O5	NAG	B	5	179.125	175.894	158.241	1.00	55.60	O
HETATM	6087	O6	NAG	B	5	180.756	176.132	161.243	1.00	47.91	O
HETATM	6088	O7	NAG	B	5	174.787	172.256	156.848	1.00	45.60	O
HETATM	6089	C1	BDP	B	6	175.788	173.483	161.456	1.00	52.24	C
HETATM	6090	C2	BDP	B	6	175.542	172.129	162.108	1.00	51.30	C
HETATM	6091	C3	BDP	B	6	174.548	172.171	163.172	1.00	52.88	C
HETATM	6092	C4	BDP	B	6	174.791	173.249	164.167	1.00	52.61	C
HETATM	6093	C5	BDP	B	6	175.033	174.590	163.498	1.00	47.64	C
HETATM	6094	C6	BDP	B	6	175.438	175.570	164.530	1.00	54.21	C
HETATM	6095	O2	BDP	B	6	175.090	171.186	161.087	1.00	51.94	O
HETATM	6096	O3	BDP	B	6	174.578	170.839	163.893	1.00	51.63	O
HETATM	6097	O4	BDP	B	6	173.635	173.360	165.002	1.00	56.55	O
HETATM	6098	O5	BDP	B	6	176.068	174.523	162.472	1.00	49.37	O
HETATM	6099	O6A	BDP	B	6	176.628	175.793	164.732	1.00	57.75	O
HETATM	6100	O6B	BDP	B	6	174.573	176.165	165.191	1.00	55.78	O
HETATM	6101	C1	NAG	B	7	173.962	172.998	166.361	1.00	50.52	C
HETATM	6102	C2	NAG	B	7	172.655	172.755	167.124	1.00	45.55	C
HETATM	6103	C3	NAG	B	7	172.945	172.316	168.559	1.00	49.58	C
HETATM	6104	C4	NAG	B	7	173.897	171.125	168.566	1.00	51.65	C
HETATM	6105	C5	NAG	B	7	175.146	171.440	167.747	1.00	52.46	C
HETATM	6106	C6	NAG	B	7	176.082	170.260	167.622	1.00	47.48	C
HETATM	6107	C7	NAG	B	7	172.118	175.121	167.614	1.00	51.77	C
HETATM	6108	C8	NAG	B	7	171.078	176.193	167.483	1.00	47.17	C
HETATM	6109	N2	NAG	B	7	171.791	173.927	167.102	1.00	47.00	N
HETATM	6110	O3	NAG	B	7	171.717	171.973	169.194	1.00	51.75	O
HETATM	6111	O4	NAG	B	7	174.292	170.805	169.895	1.00	51.07	O
HETATM	6112	O5	NAG	B	7	174.776	171.819	166.414	1.00	49.63	O
HETATM	6113	O6	NAG	B	7	176.172	169.538	168.843	1.00	46.06	O
HETATM	6114	O7	NAG	B	7	173.199	175.330	168.158	1.00	52.12	O

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HETATM 6115  C1  BDP B   8     171.725 172.385 170.576  1.00 42.88           C
HETATM 6116  C2  BDP B   8     170.297 172.686 171.021  1.00 45.01           C
HETATM 6117  C3  BDP B   8     170.178 172.909 172.458  1.00 43.82           C
HETATM 6118  C4  BDP B   8     170.783 171.806 173.258  1.00 42.28           C
HETATM 6119  C5  BDP B   8     172.227 171.601 172.844  1.00 43.52           C
HETATM 6120  C6  BDP B   8     172.787 170.448 173.579  1.00 50.80           C
HETATM 6121  O2  BDP B   8     169.815 173.878 170.325  1.00 42.49           O
HETATM 6122  O3  BDP B   8     168.702 173.044 172.776  1.00 45.61           O
HETATM 6123  O4  BDP B   8     170.782 172.130 174.651  1.00 42.53           O
HETATM 6124  O5  BDP B   8     172.360 171.346 171.417  1.00 38.52           O
HETATM 6125  O6A BDP B   8     172.722 169.322 173.094  1.00 47.89           O
HETATM 6126  O6B BDP B   8     173.325 170.624 174.683  1.00 51.65           O
HETATM 6127  C1  NAG B   9     169.646 171.544 175.321  1.00 35.48           C
HETATM 6128  C2  NAG B   9     170.121 170.617 176.443  1.00 33.86           C
HETATM 6129  C3  NAG B   9     168.925 170.066 177.220  1.00 39.35           C
HETATM 6130  C4  NAG B   9     168.026 171.198 177.695  1.00 33.15           C
HETATM 6131  C5  NAG B   9     167.630 172.082 176.518  1.00 33.01           C
HETATM 6132  C6  NAG B   9     166.829 173.293 176.935  1.00 38.56           C
HETATM 6133  C7  NAG B   9     171.772 168.809 176.659  1.00 39.36           C
HETATM 6134  C8  NAG B   9     172.518 167.724 175.943  1.00 37.45           C
HETATM 6135  N2  NAG B   9     170.927 169.529 175.913  1.00 35.37           N
HETATM 6136  O3  NAG B   9     169.385 169.317 178.339  1.00 39.39           O
HETATM 6137  O4  NAG B   9     166.851 170.667 178.297  1.00 35.44           O
HETATM 6138  O5  NAG B   9     168.809 172.572 175.864  1.00 37.28           O
HETATM 6139  O6  NAG B   9     166.752 174.249 175.887  1.00 37.37           O
HETATM 6140  O7  NAG B   9     171.925 169.023 177.857  1.00 43.14           O
HETATM 6141  O   HOH A 601     172.864 174.960 174.556  1.00 40.44           O
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