

HEADER SIGNALING PROTEIN 20-NOV-20 7DJI
TITLE CRYSTAL STRUCTURE OF LYMNAEA STAGNALIS ACETYLCHOLINE BINDING PROTEIN
TITLE 2 (ACHBP) COMPLEXED WITH PARAHERQUAMIDE A
COMPND MOL_ID: 1;
COMPND 2 MOLECULE: ACETYLCHOLINE-BINDING PROTEIN;
COMPND 3 CHAIN: A, B, C, D, E;
COMPND 4 SYNONYM: ACHBP;
COMPND 5 ENGINEERED: YES
SOURCE MOL_ID: 1;
SOURCE 2 ORGANISM_SCIENTIFIC: LYMNAEA STAGNALIS;
SOURCE 3 ORGANISM_COMMON: GREAT POND SNAIL;
SOURCE 4 ORGANISM_TAXID: 6523;
SOURCE 5 EXPRESSION_SYSTEM: KOMAGATAELLA PASTORIS;
SOURCE 6 EXPRESSION_SYSTEM_TAXID: 4922;
SOURCE 7 EXPRESSION_SYSTEM_STRAIN: X-33;
SOURCE 8 EXPRESSION_SYSTEM_PLASMID: PPICZ ALPHA
KEYWDS PARAHERQUAMIDE A, ACETYLCHOLINE BINDING PROTEIN, NICOTINIC
KEYWDS 2 ACETYLCHOLINE RECEPTOR, SIGNALING PROTEIN
EXPDTA X-RAY DIFFRACTION
AUTHOR M.IHARA,K.MATSUDA
REVDAT 1 24-NOV-21 7DJI 0
JRNL AUTH M.IHARA,W.KOIZUMI,K.MATSUDA
JRNL TITL CRYSTAL STRUCTURE REVEALED MOLECULAR RECOGNITIONS OF
JRNL TITL 2 PARAHERQUAMIDE A BY NEMATODE NICOTINIC ACETYLCHOLINE
JRNL TITL 3 RECEPTORS.
JRNL REF TO BE PUBLISHED
JRNL REFN
REMARK 2
REMARK 2 RESOLUTION. 2.20 ANGSTROMS.
REMARK 3
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : REFMAC 5.8.0267
REMARK 3 AUTHORS : MURSHUDOV,SKUBAK,LEBEDEV,PANNU,STEINER,
REMARK 3 : NICHOLLS,WINN,LONG,VAGIN
REMARK 3
REMARK 3 REFINEMENT TARGET : NULL
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 2.20
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 47.37
REMARK 3 DATA CUTOFF (SIGMA(F)) : NULL
REMARK 3 COMPLETENESS FOR RANGE (%) : 99.9
REMARK 3 NUMBER OF REFLECTIONS : 55135
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD : FREE R-VALUE
REMARK 3 FREE R VALUE TEST SET SELECTION : NULL
REMARK 3 R VALUE (WORKING + TEST SET) : NULL
REMARK 3 R VALUE (WORKING SET) : 0.185
REMARK 3 FREE R VALUE : 0.231
REMARK 3 FREE R VALUE TEST SET SIZE (%) : 4.959
REMARK 3 FREE R VALUE TEST SET COUNT : 2734
REMARK 3

REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
 REMARK 3 TOTAL NUMBER OF BINS USED : 20
 REMARK 3 BIN RESOLUTION RANGE HIGH (A) : 2.20
 REMARK 3 BIN RESOLUTION RANGE LOW (A) : 2.26
 REMARK 3 REFLECTION IN BIN (WORKING SET) : 3906
 REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%) : 99.98
 REMARK 3 BIN R VALUE (WORKING SET) : 0.2680
 REMARK 3 BIN FREE R VALUE SET COUNT : 196
 REMARK 3 BIN FREE R VALUE : 0.2950
 REMARK 3
 REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
 REMARK 3 PROTEIN ATOMS : 8176
 REMARK 3 NUCLEIC ACID ATOMS : 0
 REMARK 3 HETEROGEN ATOMS : 250
 REMARK 3 SOLVENT ATOMS : 486
 REMARK 3
 REMARK 3 B VALUES.
 REMARK 3 FROM WILSON PLOT (A**2) : NULL
 REMARK 3 MEAN B VALUE (OVERALL, A**2) : 49.02
 REMARK 3 OVERALL ANISOTROPIC B VALUE.
 REMARK 3 B11 (A**2) : 0.56500
 REMARK 3 B22 (A**2) : 0.56500
 REMARK 3 B33 (A**2) : -1.83200
 REMARK 3 B12 (A**2) : 0.28200
 REMARK 3 B13 (A**2) : 0.00000
 REMARK 3 B23 (A**2) : 0.00000
 REMARK 3
 REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
 REMARK 3 ESU BASED ON R VALUE (A) : 0.303
 REMARK 3 ESU BASED ON FREE R VALUE (A) : 0.214
 REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD (A) : 0.177
 REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2) : 13.842
 REMARK 3
 REMARK 3 CORRELATION COEFFICIENTS.
 REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.962
 REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.937
 REMARK 3
 REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT
 REMARK 3 BOND LENGTHS REFINED ATOMS (A) : 8678 ; 0.005 ; 0.013
 REMARK 3 BOND LENGTHS OTHERS (A) : 7894 ; 0.002 ; 0.018
 REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES) : 11948 ; 1.413 ; 1.696
 REMARK 3 BOND ANGLES OTHERS (DEGREES) : 18169 ; 1.150 ; 1.625
 REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES) : 1027 ; 7.481 ; 5.000
 REMARK 3 TORSION ANGLES, PERIOD 2 (DEGREES) : 478 ; 32.391 ; 22.029
 REMARK 3 TORSION ANGLES, PERIOD 3 (DEGREES) : 1382 ; 14.299 ; 15.000
 REMARK 3 TORSION ANGLES, PERIOD 4 (DEGREES) : 69 ; 16.604 ; 15.000
 REMARK 3 CHIRAL-CENTER RESTRAINTS (A**3) : 1194 ; 0.048 ; 0.200
 REMARK 3 GENERAL PLANES REFINED ATOMS (A) : 9683 ; 0.004 ; 0.020
 REMARK 3 GENERAL PLANES OTHERS (A) : 1984 ; 0.001 ; 0.020
 REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A) : 1260 ; 0.169 ; 0.200
 REMARK 3 NON-BONDED CONTACTS OTHERS (A) : 77 ; 0.159 ; 0.200
 REMARK 3 NON-BONDED TORSION REFINED ATOMS (A) : 4109 ; 0.158 ; 0.200
 REMARK 3 NON-BONDED TORSION OTHERS (A) : NULL ; NULL ; NULL
 REMARK 3 H-BOND (X...Y) REFINED ATOMS (A) : 514 ; 0.128 ; 0.200

REMARK 3 H-BOND (X...Y) OTHERS (A): NULL ; NULL ; NULL
 REMARK 3 POTENTIAL METAL-ION REFINED ATOMS (A): NULL ; NULL ; NULL
 REMARK 3 POTENTIAL METAL-ION OTHERS (A): NULL ; NULL ; NULL
 REMARK 3 SYMMETRY VDW REFINED ATOMS (A): NULL ; NULL ; NULL
 REMARK 3 SYMMETRY VDW OTHERS (A): NULL ; NULL ; NULL
 REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A): NULL ; NULL ; NULL
 REMARK 3 SYMMETRY H-BOND OTHERS (A): NULL ; NULL ; NULL
 REMARK 3 SYMMETRY METAL-ION REFINED ATOMS (A): NULL ; NULL ; NULL
 REMARK 3 SYMMETRY METAL-ION OTHERS (A): NULL ; NULL ; NULL
 REMARK 3
 REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT
 REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 4105 ; 0.872 ; 3.116
 REMARK 3 MAIN-CHAIN BOND OTHER ATOMS (A**2): 4103 ; 0.872 ; 3.116
 REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 5124 ; 1.571 ; 4.670
 REMARK 3 MAIN-CHAIN ANGLE OTHER ATOMS (A**2): 5124 ; 1.571 ; 4.670
 REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 4573 ; 0.707 ; 3.209
 REMARK 3 SIDE-CHAIN BOND OTHER ATOMS (A**2): 4573 ; 0.707 ; 3.209
 REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 6821 ; 1.254 ; 4.773
 REMARK 3 SIDE-CHAIN ANGLE OTHER ATOMS (A**2): 6822 ; 1.254 ; 4.773
 REMARK 3 LONG RANGE B REFINED ATOMS (A**2): NULL ; NULL ; NULL
 REMARK 3 LONG RANGE B OTHER ATOMS (A**2): NULL ; NULL ; NULL
 REMARK 3
 REMARK 3 ANISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT
 REMARK 3 RIGID-BOND RESTRAINTS (A**2): NULL ; NULL ; NULL
 REMARK 3 SPHERICITY; FREE ATOMS (A**2): NULL ; NULL ; NULL
 REMARK 3 SPHERICITY; BONDED ATOMS (A**2): NULL ; NULL ; NULL
 REMARK 3
 REMARK 3 NCS RESTRAINTS STATISTICS
 REMARK 3 NUMBER OF DIFFERENT NCS GROUPS : NULL
 REMARK 3
 REMARK 3 TLS DETAILS
 REMARK 3 NUMBER OF TLS GROUPS : 5
 REMARK 3
 REMARK 3 TLS GROUP : 1
 REMARK 3 NUMBER OF COMPONENTS GROUP : 2
 REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
 REMARK 3 RESIDUE RANGE : A 1 A 205
 REMARK 3 RESIDUE RANGE : A 401 A 401
 REMARK 3 ORIGIN FOR THE GROUP (A): -35.1483 -22.4525 17.8855
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.1677 T22: 0.0818
 REMARK 3 T33: 0.1039 T12: 0.0061
 REMARK 3 T13: 0.0758 T23: 0.0133
 REMARK 3 L TENSOR
 REMARK 3 L11: 1.3214 L22: 0.9250
 REMARK 3 L33: 2.5874 L12: 0.1210
 REMARK 3 L13: -0.8100 L23: 0.3602
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.0850 S12: -0.0937 S13: -0.2803
 REMARK 3 S21: -0.0877 S22: -0.0216 S23: -0.1703
 REMARK 3 S31: 0.3560 S32: 0.0875 S33: 0.1066
 REMARK 3
 REMARK 3 TLS GROUP : 2
 REMARK 3 NUMBER OF COMPONENTS GROUP : 2

REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : B 1 B 206
REMARK 3 RESIDUE RANGE : B 401 B 401
REMARK 3 ORIGIN FOR THE GROUP (A): -56.1929 -6.1927 22.4720
REMARK 3 T TENSOR
REMARK 3 T11: 0.0203 T22: 0.1550
REMARK 3 T33: 0.0361 T12: -0.0476
REMARK 3 T13: -0.0022 T23: -0.0313
REMARK 3 L TENSOR
REMARK 3 L11: 1.2251 L22: 2.0467
REMARK 3 L33: 3.2911 L12: -0.4582
REMARK 3 L13: -0.2252 L23: -0.3222
REMARK 3 S TENSOR
REMARK 3 S11: -0.0366 S12: 0.1501 S13: -0.0810
REMARK 3 S21: -0.0956 S22: -0.0100 S23: 0.2482
REMARK 3 S31: 0.1118 S32: -0.3790 S33: 0.0466
REMARK 3
REMARK 3 TLS GROUP : 3
REMARK 3 NUMBER OF COMPONENTS GROUP : 2
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : C 1 C 205
REMARK 3 RESIDUE RANGE : C 401 C 401
REMARK 3 ORIGIN FOR THE GROUP (A): -47.1558 19.5709 23.3599
REMARK 3 T TENSOR
REMARK 3 T11: 0.1344 T22: 0.1767
REMARK 3 T33: 0.1810 T12: 0.0101
REMARK 3 T13: 0.0628 T23: 0.0265
REMARK 3 L TENSOR
REMARK 3 L11: 1.3003 L22: 0.9273
REMARK 3 L33: 2.7518 L12: 0.4528
REMARK 3 L13: 0.6272 L23: 0.3179
REMARK 3 S TENSOR
REMARK 3 S11: 0.0021 S12: 0.1539 S13: 0.4096
REMARK 3 S21: -0.0988 S22: 0.0752 S23: 0.1539
REMARK 3 S31: -0.4126 S32: -0.1760 S33: -0.0773
REMARK 3
REMARK 3 TLS GROUP : 4
REMARK 3 NUMBER OF COMPONENTS GROUP : 2
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : D 1 D 205
REMARK 3 RESIDUE RANGE : D 401 D 401
REMARK 3 ORIGIN FOR THE GROUP (A): -20.4393 19.3777 19.7061
REMARK 3 T TENSOR
REMARK 3 T11: 0.1344 T22: 0.1549
REMARK 3 T33: 0.1218 T12: -0.0928
REMARK 3 T13: 0.0775 T23: -0.0505
REMARK 3 L TENSOR
REMARK 3 L11: 2.4681 L22: 1.4548
REMARK 3 L33: 3.1043 L12: -0.1559
REMARK 3 L13: -0.3269 L23: -0.3217
REMARK 3 S TENSOR
REMARK 3 S11: -0.0211 S12: -0.0115 S13: 0.2279
REMARK 3 S21: -0.1792 S22: 0.0539 S23: -0.1755
REMARK 3 S31: -0.2084 S32: 0.1716 S33: -0.0328

REMARK 3
REMARK 3 TLS GROUP : 5
REMARK 3 NUMBER OF COMPONENTS GROUP : 2
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : E 1 E 205
REMARK 3 RESIDUE RANGE : E 401 E 401
REMARK 3 ORIGIN FOR THE GROUP (A): -13.1587 -6.5743 16.3587
REMARK 3 T TENSOR
REMARK 3 T11: 0.0978 T22: 0.2841
REMARK 3 T33: 0.2317 T12: 0.0037
REMARK 3 T13: 0.1215 T23: 0.0202
REMARK 3 L TENSOR
REMARK 3 L11: 1.1846 L22: 2.1182
REMARK 3 L33: 3.0528 L12: 0.3617
REMARK 3 L13: -0.0447 L23: 0.2326
REMARK 3 S TENSOR
REMARK 3 S11: -0.0760 S12: -0.0773 S13: -0.1420
REMARK 3 S21: -0.1915 S22: 0.0393 S23: -0.5289
REMARK 3 S31: -0.0891 S32: 0.3851 S33: 0.0367
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED : BABINET MODEL PLUS MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS : 1.20
REMARK 3 ION PROBE RADIUS : 0.80
REMARK 3 SHRINKAGE RADIUS : 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS: 1. HYDROGENS HAVE BEEN ADDED IN THEIR
REMARK 3 RIDING POSITIONS.
REMARK 3 2. EXTRA H ATOM ON H8U IS PROTONATION OF TERT-AMINE.
REMARK 4
REMARK 4 7DJI COMPLIES WITH FORMAT V. 3.30, 13-JUL-11
REMARK 100
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY PDBJ ON 27-NOV-20.
REMARK 100 THE DEPOSITION ID IS D_1300018366.
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 EXPERIMENT TYPE : X-RAY DIFFRACTION
REMARK 200 DATE OF DATA COLLECTION : 15-APR-17
REMARK 200 TEMPERATURE (KELVIN) : 100
REMARK 200 PH : 5.0
REMARK 200 NUMBER OF CRYSTALS USED : 1
REMARK 200
REMARK 200 SYNCHROTRON (Y/N) : Y
REMARK 200 RADIATION SOURCE : SPRING-8
REMARK 200 BEAMLINE : BL26B1
REMARK 200 X-RAY GENERATOR MODEL : NULL
REMARK 200 MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200 WAVELENGTH OR RANGE (A) : 1.0
REMARK 200 MONOCHROMATOR : SI
REMARK 200 OPTICS : NULL
REMARK 200
REMARK 200 DETECTOR TYPE : CCD
REMARK 200 DETECTOR MANUFACTURER : RAYONIX MX225HE

REMARK 200 INTENSITY-INTEGRATION SOFTWARE : XDS VERSION MAR 15, 2019
REMARK 200 BUILT=20191211
REMARK 200 DATA SCALING SOFTWARE : AIMLESS 0.7.4
REMARK 200
REMARK 200 NUMBER OF UNIQUE REFLECTIONS : 55263
REMARK 200 RESOLUTION RANGE HIGH (A) : 2.200
REMARK 200 RESOLUTION RANGE LOW (A) : 47.374
REMARK 200 REJECTION CRITERIA (SIGMA(I)) : NULL
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE (%) : 100.0
REMARK 200 DATA REDUNDANCY : 10.80
REMARK 200 R MERGE (I) : 0.07100
REMARK 200 R SYM (I) : NULL
REMARK 200 <I/SIGMA(I)> FOR THE DATA SET : 21.7000
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : 2.20
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A) : 2.26
REMARK 200 COMPLETENESS FOR SHELL (%) : 100.0
REMARK 200 DATA REDUNDANCY IN SHELL : 7.10
REMARK 200 R MERGE FOR SHELL (I) : 0.71300
REMARK 200 R SYM FOR SHELL (I) : NULL
REMARK 200 <I/SIGMA(I)> FOR SHELL : NULL
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH
REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: MOLECULAR REPLACEMENT
REMARK 200 SOFTWARE USED: PHASER 2.8.3
REMARK 200 STARTING MODEL: 2ZJU
REMARK 200
REMARK 200 REMARK: ROD
REMARK 280
REMARK 280 CRYSTAL
REMARK 280 SOLVENT CONTENT, VS (%): 48.82
REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): 2.40
REMARK 280
REMARK 280 CRYSTALLIZATION CONDITIONS: 14.1-15.6% PEG 4000, SODIUM CITRATE
REMARK 280 BUFFER PH 5.0, VAPOR DIFFUSION, SITTING DROP, TEMPERATURE 298K
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 65
REMARK 290
REMARK 290 SYMOP SYMMETRY
REMARK 290 NNNMMM OPERATOR
REMARK 290 1555 X,Y,Z
REMARK 290 2555 -Y,X-Y,Z+2/3
REMARK 290 3555 -X+Y,-X,Z+1/3
REMARK 290 4555 -X,-Y,Z+1/2
REMARK 290 5555 Y,-X+Y,Z+1/6
REMARK 290 6555 X-Y,X,Z+5/6
REMARK 290
REMARK 290 WHERE NNN -> OPERATOR NUMBER
REMARK 290 MMM -> TRANSLATION VECTOR
REMARK 290

REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY
REMARK 290 RELATED MOLECULES.

REMARK 290	SMTRY1	1	1.000000	0.000000	0.000000	0.000000
REMARK 290	SMTRY2	1	0.000000	1.000000	0.000000	0.000000
REMARK 290	SMTRY3	1	0.000000	0.000000	1.000000	0.000000
REMARK 290	SMTRY1	2	-0.500000	-0.866025	0.000000	0.000000
REMARK 290	SMTRY2	2	0.866025	-0.500000	0.000000	0.000000
REMARK 290	SMTRY3	2	0.000000	0.000000	1.000000	233.06333
REMARK 290	SMTRY1	3	-0.500000	0.866025	0.000000	0.000000
REMARK 290	SMTRY2	3	-0.866025	-0.500000	0.000000	0.000000
REMARK 290	SMTRY3	3	0.000000	0.000000	1.000000	116.53167
REMARK 290	SMTRY1	4	-1.000000	0.000000	0.000000	0.000000
REMARK 290	SMTRY2	4	0.000000	-1.000000	0.000000	0.000000
REMARK 290	SMTRY3	4	0.000000	0.000000	1.000000	174.79750
REMARK 290	SMTRY1	5	0.500000	0.866025	0.000000	0.000000
REMARK 290	SMTRY2	5	-0.866025	0.500000	0.000000	0.000000
REMARK 290	SMTRY3	5	0.000000	0.000000	1.000000	58.26583
REMARK 290	SMTRY1	6	0.500000	-0.866025	0.000000	0.000000
REMARK 290	SMTRY2	6	0.866025	0.500000	0.000000	0.000000
REMARK 290	SMTRY3	6	0.000000	0.000000	1.000000	291.32917

REMARK 290

REMARK 290 REMARK: NULL

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: PENTAMERIC
REMARK 350 SOFTWARE DETERMINED QUATERNARY STRUCTURE: PENTAMERIC
REMARK 350 SOFTWARE USED: PISA

REMARK 350 TOTAL BURIED SURFACE AREA: 14180 ANGSTROM**2

REMARK 350 SURFACE AREA OF THE COMPLEX: 43850 ANGSTROM**2

REMARK 350 CHANGE IN SOLVENT FREE ENERGY: -32.0 KCAL/MOL

REMARK 350 APPLY THE FOLLOWING TO CHAINS: A, B, C, D, E

REMARK 350	BIOMT1	1	1.000000	0.000000	0.000000	0.000000
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REMARK 350	BIOMT2	1	0.000000	1.000000	0.000000	0.000000
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REMARK 350	BIOMT3	1	0.000000	0.000000	1.000000	0.000000
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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 GLU A -3
REMARK 465 ALA A -2
REMARK 465 GLU A -1
REMARK 465 ALA A 0
REMARK 465 ARG A 206
REMARK 465 SER A 207
REMARK 465 GLU A 208
REMARK 465 ILE A 209
REMARK 465 LEU A 210
REMARK 465 GLU B -3
REMARK 465 ALA B -2
REMARK 465 GLU B -1
REMARK 465 ALA B 0
REMARK 465 SER B 207
REMARK 465 GLU B 208
REMARK 465 ILE B 209
REMARK 465 LEU B 210
REMARK 465 GLU C -3
REMARK 465 ALA C -2
REMARK 465 GLU C -1
REMARK 465 ALA C 0
REMARK 465 ARG C 206
REMARK 465 SER C 207
REMARK 465 GLU C 208
REMARK 465 ILE C 209
REMARK 465 LEU C 210
REMARK 465 GLU D -3
REMARK 465 ALA D -2
REMARK 465 GLU D -1
REMARK 465 ALA D 0
REMARK 465 ARG D 206
REMARK 465 SER D 207
REMARK 465 GLU D 208
REMARK 465 ILE D 209
REMARK 465 LEU D 210
REMARK 465 GLU E -3
REMARK 465 ALA E -2
REMARK 465 GLU E -1
REMARK 465 ALA E 0
REMARK 465 ARG E 206
REMARK 465 SER E 207
REMARK 465 GLU E 208
REMARK 465 ILE E 209
REMARK 465 LEU E 210
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 ARG A 23 -124.86 53.19

REMARK 500 ARG B 23 -147.57 58.40

REMARK 500 ASP B 24 35.38 -96.23

REMARK 500 SER B 67 52.89 -113.20

REMARK 500 THR C 156 66.06 -106.30

REMARK 500 ARG D 23 -141.71 55.68

REMARK 500 ASP D 24 44.17 -102.95

REMARK 500 ASP D 129 56.40 -101.22

REMARK 500 SER E 162 35.75 -96.45

REMARK 500

REMARK 500 REMARK: NULL

REMARK 500

REMARK 500 GEOMETRY AND STEREOCHEMISTRY

REMARK 500 SUBTOPIC: NON-CIS, NON-TRANS

REMARK 500

REMARK 500 THE FOLLOWING PEPTIDE BONDS DEVIATE SIGNIFICANTLY FROM BOTH

REMARK 500 CIS AND TRANS CONFORMATION. CIS BONDS, IF ANY, ARE LISTED

REMARK 500 ON CISPEP RECORDS. TRANS IS DEFINED AS 180 +/- 30 AND

REMARK 500 CIS IS DEFINED AS 0 +/- 30 DEGREES.

REMARK 500 MODEL OMEGA

REMARK 500 CYS B 187 CYS B 188 -149.78

REMARK 500

REMARK 500 REMARK: NULL

DBREF 7DJI A 2 210 UNP P58154 ACHP_LYMST 21 229

DBREF 7DJI B 2 210 UNP P58154 ACHP_LYMST 21 229

DBREF 7DJI C 2 210 UNP P58154 ACHP_LYMST 21 229

DBREF 7DJI D 2 210 UNP P58154 ACHP_LYMST 21 229

DBREF 7DJI E 2 210 UNP P58154 ACHP_LYMST 21 229

SEQADV 7DJI GLU A -3 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA A -2 UNP P58154 EXPRESSION TAG

SEQADV 7DJI GLU A -1 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA A 0 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA A 1 UNP P58154 EXPRESSION TAG

SEQADV 7DJI GLU B -3 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA B -2 UNP P58154 EXPRESSION TAG

SEQADV 7DJI GLU B -1 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA B 0 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA B 1 UNP P58154 EXPRESSION TAG

SEQADV 7DJI GLU C -3 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA C -2 UNP P58154 EXPRESSION TAG

SEQADV 7DJI GLU C -1 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA C 0 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA C 1 UNP P58154 EXPRESSION TAG

SEQADV 7DJI GLU D -3 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA D -2 UNP P58154 EXPRESSION TAG

SEQADV 7DJI GLU D -1 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA D 0 UNP P58154 EXPRESSION TAG

SEQADV 7DJI ALA D 1 UNP P58154 EXPRESSION TAG

SEQADV 7DJI GLU E -3 UNP P58154 EXPRESSION TAG
SEQADV 7DJI ALA E -2 UNP P58154 EXPRESSION TAG
SEQADV 7DJI GLU E -1 UNP P58154 EXPRESSION TAG
SEQADV 7DJI ALA E 0 UNP P58154 EXPRESSION TAG
SEQADV 7DJI ALA E 1 UNP P58154 EXPRESSION TAG
SEQRES 1 A 214 GLU ALA GLU ALA ALA ASP ARG ALA ASP ILE LEU TYR ASN
SEQRES 2 A 214 ILE ARG GLN THR SER ARG PRO ASP VAL ILE PRO THR GLN
SEQRES 3 A 214 ARG ASP ARG PRO VAL ALA VAL SER VAL SER LEU LYS PHE
SEQRES 4 A 214 ILE ASN ILE LEU GLU VAL ASN GLU ILE THR ASN GLU VAL
SEQRES 5 A 214 ASP VAL VAL PHE TRP GLN GLN THR THR TRP SER ASP ARG
SEQRES 6 A 214 THR LEU ALA TRP ASN SER SER HIS SER PRO ASP GLN VAL
SEQRES 7 A 214 SER VAL PRO ILE SER SER LEU TRP VAL PRO ASP LEU ALA
SEQRES 8 A 214 ALA TYR ASN ALA ILE SER LYS PRO GLU VAL LEU THR PRO
SEQRES 9 A 214 GLN LEU ALA ARG VAL VAL SER ASP GLY GLU VAL LEU TYR
SEQRES 10 A 214 MET PRO SER ILE ARG GLN ARG PHE SER CYS ASP VAL SER
SEQRES 11 A 214 GLY VAL ASP THR GLU SER GLY ALA THR CYS ARG ILE LYS
SEQRES 12 A 214 ILE GLY SER TRP THR HIS HIS SER ARG GLU ILE SER VAL
SEQRES 13 A 214 ASP PRO THR THR GLU ASN SER ASP ASP SER GLU TYR PHE
SEQRES 14 A 214 SER GLN TYR SER ARG PHE GLU ILE LEU ASP VAL THR GLN
SEQRES 15 A 214 LYS LYS ASN SER VAL THR TYR SER CYS CYS PRO GLU ALA
SEQRES 16 A 214 TYR GLU ASP VAL GLU VAL SER LEU ASN PHE ARG LYS LYS
SEQRES 17 A 214 GLY ARG SER GLU ILE LEU
SEQRES 1 B 214 GLU ALA GLU ALA ALA ASP ARG ALA ASP ILE LEU TYR ASN
SEQRES 2 B 214 ILE ARG GLN THR SER ARG PRO ASP VAL ILE PRO THR GLN
SEQRES 3 B 214 ARG ASP ARG PRO VAL ALA VAL SER VAL SER LEU LYS PHE
SEQRES 4 B 214 ILE ASN ILE LEU GLU VAL ASN GLU ILE THR ASN GLU VAL
SEQRES 5 B 214 ASP VAL VAL PHE TRP GLN GLN THR THR TRP SER ASP ARG
SEQRES 6 B 214 THR LEU ALA TRP ASN SER SER HIS SER PRO ASP GLN VAL
SEQRES 7 B 214 SER VAL PRO ILE SER SER LEU TRP VAL PRO ASP LEU ALA
SEQRES 8 B 214 ALA TYR ASN ALA ILE SER LYS PRO GLU VAL LEU THR PRO
SEQRES 9 B 214 GLN LEU ALA ARG VAL VAL SER ASP GLY GLU VAL LEU TYR
SEQRES 10 B 214 MET PRO SER ILE ARG GLN ARG PHE SER CYS ASP VAL SER
SEQRES 11 B 214 GLY VAL ASP THR GLU SER GLY ALA THR CYS ARG ILE LYS
SEQRES 12 B 214 ILE GLY SER TRP THR HIS HIS SER ARG GLU ILE SER VAL
SEQRES 13 B 214 ASP PRO THR THR GLU ASN SER ASP ASP SER GLU TYR PHE
SEQRES 14 B 214 SER GLN TYR SER ARG PHE GLU ILE LEU ASP VAL THR GLN
SEQRES 15 B 214 LYS LYS ASN SER VAL THR TYR SER CYS CYS PRO GLU ALA
SEQRES 16 B 214 TYR GLU ASP VAL GLU VAL SER LEU ASN PHE ARG LYS LYS
SEQRES 17 B 214 GLY ARG SER GLU ILE LEU
SEQRES 1 C 214 GLU ALA GLU ALA ALA ASP ARG ALA ASP ILE LEU TYR ASN
SEQRES 2 C 214 ILE ARG GLN THR SER ARG PRO ASP VAL ILE PRO THR GLN
SEQRES 3 C 214 ARG ASP ARG PRO VAL ALA VAL SER VAL SER LEU LYS PHE
SEQRES 4 C 214 ILE ASN ILE LEU GLU VAL ASN GLU ILE THR ASN GLU VAL
SEQRES 5 C 214 ASP VAL VAL PHE TRP GLN GLN THR THR TRP SER ASP ARG
SEQRES 6 C 214 THR LEU ALA TRP ASN SER SER HIS SER PRO ASP GLN VAL
SEQRES 7 C 214 SER VAL PRO ILE SER SER LEU TRP VAL PRO ASP LEU ALA
SEQRES 8 C 214 ALA TYR ASN ALA ILE SER LYS PRO GLU VAL LEU THR PRO
SEQRES 9 C 214 GLN LEU ALA ARG VAL VAL SER ASP GLY GLU VAL LEU TYR
SEQRES 10 C 214 MET PRO SER ILE ARG GLN ARG PHE SER CYS ASP VAL SER
SEQRES 11 C 214 GLY VAL ASP THR GLU SER GLY ALA THR CYS ARG ILE LYS
SEQRES 12 C 214 ILE GLY SER TRP THR HIS HIS SER ARG GLU ILE SER VAL
SEQRES 13 C 214 ASP PRO THR THR GLU ASN SER ASP ASP SER GLU TYR PHE
SEQRES 14 C 214 SER GLN TYR SER ARG PHE GLU ILE LEU ASP VAL THR GLN
SEQRES 15 C 214 LYS LYS ASN SER VAL THR TYR SER CYS CYS PRO GLU ALA

SEQRES 16 C 214 TYR GLU ASP VAL GLU VAL SER LEU ASN PHE ARG LYS LYS
 SEQRES 17 C 214 GLY ARG SER GLU ILE LEU
 SEQRES 1 D 214 GLU ALA GLU ALA ALA ASP ARG ALA ASP ILE LEU TYR ASN
 SEQRES 2 D 214 ILE ARG GLN THR SER ARG PRO ASP VAL ILE PRO THR GLN
 SEQRES 3 D 214 ARG ASP ARG PRO VAL ALA VAL SER VAL SER LEU LYS PHE
 SEQRES 4 D 214 ILE ASN ILE LEU GLU VAL ASN GLU ILE THR ASN GLU VAL
 SEQRES 5 D 214 ASP VAL VAL PHE TRP GLN GLN THR THR TRP SER ASP ARG
 SEQRES 6 D 214 THR LEU ALA TRP ASN SER SER HIS SER PRO ASP GLN VAL
 SEQRES 7 D 214 SER VAL PRO ILE SER SER LEU TRP VAL PRO ASP LEU ALA
 SEQRES 8 D 214 ALA TYR ASN ALA ILE SER LYS PRO GLU VAL LEU THR PRO
 SEQRES 9 D 214 GLN LEU ALA ARG VAL VAL SER ASP GLY GLU VAL LEU TYR
 SEQRES 10 D 214 MET PRO SER ILE ARG GLN ARG PHE SER CYS ASP VAL SER
 SEQRES 11 D 214 GLY VAL ASP THR GLU SER GLY ALA THR CYS ARG ILE LYS
 SEQRES 12 D 214 ILE GLY SER TRP THR HIS HIS SER ARG GLU ILE SER VAL
 SEQRES 13 D 214 ASP PRO THR THR GLU ASN SER ASP ASP SER GLU TYR PHE
 SEQRES 14 D 214 SER GLN TYR SER ARG PHE GLU ILE LEU ASP VAL THR GLN
 SEQRES 15 D 214 LYS LYS ASN SER VAL THR TYR SER CYS CYS PRO GLU ALA
 SEQRES 16 D 214 TYR GLU ASP VAL GLU VAL SER LEU ASN PHE ARG LYS LYS
 SEQRES 17 D 214 GLY ARG SER GLU ILE LEU
 SEQRES 1 E 214 GLU ALA GLU ALA ALA ASP ARG ALA ASP ILE LEU TYR ASN
 SEQRES 2 E 214 ILE ARG GLN THR SER ARG PRO ASP VAL ILE PRO THR GLN
 SEQRES 3 E 214 ARG ASP ARG PRO VAL ALA VAL SER VAL SER LEU LYS PHE
 SEQRES 4 E 214 ILE ASN ILE LEU GLU VAL ASN GLU ILE THR ASN GLU VAL
 SEQRES 5 E 214 ASP VAL VAL PHE TRP GLN GLN THR THR TRP SER ASP ARG
 SEQRES 6 E 214 THR LEU ALA TRP ASN SER SER HIS SER PRO ASP GLN VAL
 SEQRES 7 E 214 SER VAL PRO ILE SER SER LEU TRP VAL PRO ASP LEU ALA
 SEQRES 8 E 214 ALA TYR ASN ALA ILE SER LYS PRO GLU VAL LEU THR PRO
 SEQRES 9 E 214 GLN LEU ALA ARG VAL VAL SER ASP GLY GLU VAL LEU TYR
 SEQRES 10 E 214 MET PRO SER ILE ARG GLN ARG PHE SER CYS ASP VAL SER
 SEQRES 11 E 214 GLY VAL ASP THR GLU SER GLY ALA THR CYS ARG ILE LYS
 SEQRES 12 E 214 ILE GLY SER TRP THR HIS HIS SER ARG GLU ILE SER VAL
 SEQRES 13 E 214 ASP PRO THR THR GLU ASN SER ASP ASP SER GLU TYR PHE
 SEQRES 14 E 214 SER GLN TYR SER ARG PHE GLU ILE LEU ASP VAL THR GLN
 SEQRES 15 E 214 LYS LYS ASN SER VAL THR TYR SER CYS CYS PRO GLU ALA
 SEQRES 16 E 214 TYR GLU ASP VAL GLU VAL SER LEU ASN PHE ARG LYS LYS
 SEQRES 17 E 214 GLY ARG SER GLU ILE LEU
 HET H8U A 401 71
 HET NAG A 402 25
 HET H8U B 401 71
 HET NAG B 402 25
 HET H8U C 401 71
 HET NAG C 402 25
 HET H8U D 401 71
 HET NAG D 402 25
 HET H8U E 401 71
 HET NAG E 402 25
 HETNAM H8U PARAHYDROQUAMIDE A
 HETNAM NAG 2-ACETAMIDO-2-DEOXY-BETA-D-GLUCOPYRANOSE
 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
 FORMUL 6 H8U 5(C28 H35 N3 O5)
 FORMUL 7 NAG 5(C8 H15 N O6)
 FORMUL 16 HOH *486(H2 O)

HELIX	1	AA1	ASP	A	2	SER	A	14	1	13
HELIX	2	AA2	ARG	A	61	ALA	A	64	5	4
HELIX	3	AA3	SER	A	79	LEU	A	81	5	3
HELIX	4	AA4	ASP	B	2	SER	B	14	1	13
HELIX	5	AA5	SER	B	79	LEU	B	81	5	3
HELIX	6	AA6	ASP	C	2	SER	C	14	1	13
HELIX	7	AA7	THR	C	21	ARG	C	25	5	5
HELIX	8	AA8	SER	C	79	LEU	C	81	5	3
HELIX	9	AA9	ASP	D	2	SER	D	14	1	13
HELIX	10	AB1	ARG	D	61	ALA	D	64	5	4
HELIX	11	AB2	SER	D	79	LEU	D	81	5	3
HELIX	12	AB3	ASP	E	2	SER	E	14	1	13
HELIX	13	AB4	ARG	E	61	ALA	E	64	5	4
HELIX	14	AB5	SER	E	79	LEU	E	81	5	3
SHEET	1	AA1	6	GLN	A	73	PRO	A	77	0
SHEET	2	AA1	6	LEU	A	102	VAL	A	106	-1
SHEET	3	AA1	6	GLU	A	110	TYR	A	113	-1
SHEET	4	AA1	6	GLU	A	47	SER	A	59	-1
SHEET	5	AA1	6	SER	A	116	SER	A	122	-1
SHEET	6	AA1	6	GLU	A	96	VAL	A	97	-1
SHEET	1	AA2	6	GLN	A	73	PRO	A	77	0
SHEET	2	AA2	6	LEU	A	102	VAL	A	106	-1
SHEET	3	AA2	6	GLU	A	110	TYR	A	113	-1
SHEET	4	AA2	6	GLU	A	47	SER	A	59	-1
SHEET	5	AA2	6	VAL	A	27	ASN	A	42	-1
SHEET	6	AA2	6	ILE	A	150	ASP	A	153	1
SHEET	1	AA3	4	LEU	A	86	ALA	A	88	0
SHEET	2	AA3	4	ALA	A	134	SER	A	142	-1
SHEET	3	AA3	4	TYR	A	192	LYS	A	203	-1
SHEET	4	AA3	4	PHE	A	171	VAL	A	183	-1
SHEET	1	AA4	6	GLN	B	73	PRO	B	77	0
SHEET	2	AA4	6	LEU	B	102	VAL	B	106	-1
SHEET	3	AA4	6	GLU	B	110	TYR	B	113	-1
SHEET	4	AA4	6	GLU	B	47	SER	B	59	-1
SHEET	5	AA4	6	SER	B	116	SER	B	122	-1
SHEET	6	AA4	6	GLU	B	96	VAL	B	97	-1
SHEET	1	AA5	6	GLN	B	73	PRO	B	77	0
SHEET	2	AA5	6	LEU	B	102	VAL	B	106	-1
SHEET	3	AA5	6	GLU	B	110	TYR	B	113	-1
SHEET	4	AA5	6	GLU	B	47	SER	B	59	-1
SHEET	5	AA5	6	VAL	B	27	ASN	B	42	-1
SHEET	6	AA5	6	ILE	B	150	ASP	B	153	1
SHEET	1	AA6	4	LEU	B	86	ALA	B	88	0
SHEET	2	AA6	4	ALA	B	134	SER	B	142	-1
SHEET	3	AA6	4	TYR	B	192	LYS	B	203	-1
SHEET	4	AA6	4	PHE	B	171	VAL	B	183	-1
SHEET	1	AA7	6	GLN	C	73	PRO	C	77	0
SHEET	2	AA7	6	LEU	C	102	VAL	C	106	-1
SHEET	3	AA7	6	GLU	C	110	TYR	C	113	-1
SHEET	4	AA7	6	GLU	C	47	SER	C	59	-1
SHEET	5	AA7	6	SER	C	116	SER	C	122	-1
SHEET	6	AA7	6	GLU	C	96	VAL	C	97	-1
SHEET	1	AA8	6	GLN	C	73	PRO	C	77	0
SHEET	2	AA8	6	LEU	C	102	VAL	C	106	-1

SHEET 3 AA8 6 GLU C 110 TYR C 113 -1 O LEU C 112 N ARG C 104
 SHEET 4 AA8 6 GLU C 47 SER C 59 -1 N TRP C 58 O VAL C 111
 SHEET 5 AA8 6 VAL C 27 ASN C 42 -1 N SER C 30 O THR C 57
 SHEET 6 AA8 6 ILE C 150 ASP C 153 1 O SER C 151 N VAL C 29
 SHEET 1 AA9 4 LEU C 86 ALA C 88 0
 SHEET 2 AA9 4 ALA C 134 SER C 142 -1 O GLY C 141 N ALA C 87
 SHEET 3 AA9 4 TYR C 192 LYS C 203 -1 O VAL C 197 N ILE C 138
 SHEET 4 AA9 4 PHE C 171 VAL C 183 -1 N THR C 177 O SER C 198
 SHEET 1 AB1 6 GLN D 73 PRO D 77 0
 SHEET 2 AB1 6 LEU D 102 VAL D 106 -1 O ALA D 103 N VAL D 76
 SHEET 3 AB1 6 GLU D 110 TYR D 113 -1 O LEU D 112 N ARG D 104
 SHEET 4 AB1 6 GLU D 47 SER D 59 -1 N THR D 56 O TYR D 113
 SHEET 5 AB1 6 SER D 116 SER D 122 -1 O ILE D 117 N PHE D 52
 SHEET 6 AB1 6 GLU D 96 VAL D 97 -1 N GLU D 96 O ARG D 118
 SHEET 1 AB2 6 GLN D 73 PRO D 77 0
 SHEET 2 AB2 6 LEU D 102 VAL D 106 -1 O ALA D 103 N VAL D 76
 SHEET 3 AB2 6 GLU D 110 TYR D 113 -1 O LEU D 112 N ARG D 104
 SHEET 4 AB2 6 GLU D 47 SER D 59 -1 N THR D 56 O TYR D 113
 SHEET 5 AB2 6 VAL D 27 ASN D 42 -1 N ILE D 36 O VAL D 51
 SHEET 6 AB2 6 ILE D 150 PRO D 154 1 O SER D 151 N VAL D 29
 SHEET 1 AB3 4 LEU D 86 ALA D 88 0
 SHEET 2 AB3 4 ALA D 134 SER D 142 -1 O GLY D 141 N ALA D 87
 SHEET 3 AB3 4 TYR D 192 LYS D 203 -1 O LEU D 199 N CYS D 136
 SHEET 4 AB3 4 PHE D 171 VAL D 183 -1 N LYS D 179 O GLU D 196
 SHEET 1 AB4 6 GLN E 73 PRO E 77 0
 SHEET 2 AB4 6 LEU E 102 VAL E 106 -1 O ALA E 103 N VAL E 76
 SHEET 3 AB4 6 GLU E 110 TYR E 113 -1 O LEU E 112 N ARG E 104
 SHEET 4 AB4 6 GLU E 47 SER E 59 -1 N TRP E 58 O VAL E 111
 SHEET 5 AB4 6 SER E 116 SER E 122 -1 O ILE E 117 N PHE E 52
 SHEET 6 AB4 6 GLU E 96 VAL E 97 -1 N GLU E 96 O ARG E 118
 SHEET 1 AB5 6 GLN E 73 PRO E 77 0
 SHEET 2 AB5 6 LEU E 102 VAL E 106 -1 O ALA E 103 N VAL E 76
 SHEET 3 AB5 6 GLU E 110 TYR E 113 -1 O LEU E 112 N ARG E 104
 SHEET 4 AB5 6 GLU E 47 SER E 59 -1 N TRP E 58 O VAL E 111
 SHEET 5 AB5 6 VAL E 27 ASN E 42 -1 N GLU E 40 O ASP E 49
 SHEET 6 AB5 6 ILE E 150 PRO E 154 1 O SER E 151 N VAL E 29
 SHEET 1 AB6 4 LEU E 86 ALA E 88 0
 SHEET 2 AB6 4 ALA E 134 SER E 142 -1 O GLY E 141 N ALA E 87
 SHEET 3 AB6 4 CYS E 188 LYS E 203 -1 O VAL E 197 N ILE E 138
 SHEET 4 AB6 4 PHE E 171 TYR E 185 -1 N LYS E 179 O GLU E 196
 SSBOND 1 CYS A 123 CYS A 136 1555 1555 2.06
 SSBOND 2 CYS A 187 CYS A 188 1555 1555 2.06
 SSBOND 3 CYS B 123 CYS B 136 1555 1555 2.05
 SSBOND 4 CYS B 187 CYS B 188 1555 1555 2.06
 SSBOND 5 CYS C 123 CYS C 136 1555 1555 2.05
 SSBOND 6 CYS C 187 CYS C 188 1555 1555 2.06
 SSBOND 7 CYS D 123 CYS D 136 1555 1555 2.04
 SSBOND 8 CYS D 187 CYS D 188 1555 1555 2.05
 SSBOND 9 CYS E 123 CYS E 136 1555 1555 2.05
 SSBOND 10 CYS E 187 CYS E 188 1555 1555 2.06
 LINK ND2 ASN A 66 C1 NAG A 402 1555 1555 1.44
 LINK ND2 ASN B 66 C1 NAG B 402 1555 1555 1.44
 LINK ND2 ASN C 66 C1 NAG C 402 1555 1555 1.44
 LINK ND2 ASN D 66 C1 NAG D 402 1555 1555 1.44

LINK	ND2 ASN E 66	C1 NAGE 402	1555	1555	1.45		
CRYST1	74.373	74.373	349.595	90.00	90.00	120.00	P 65 30
ORIGX1	1.000000	0.000000	0.000000	0.000000	0.000000		
ORIGX2	0.000000	1.000000	0.000000	0.000000	0.000000		
ORIGX3	0.000000	0.000000	1.000000	0.000000	0.000000		
SCALE1	0.013446	0.007763	0.000000	0.000000	0.000000		
SCALE2	0.000000	0.015526	0.000000	0.000000	0.000000		
SCALE3	0.000000	0.000000	0.002860	0.000000	0.000000		
ATOM	1	N	ALA A 1	-21.513	-20.554	-10.887	1.00 64.57 N0
ANISOU	1	N	ALA A 1	9600	7950	6980	-240 2880 -1190 N0
ATOM	2	CA	ALA A 1	-22.235	-19.546	-10.050	1.00 62.76 C0
ANISOU	2	CA	ALA A 1	9370	7730	6750	-270 2740 -1070 C0
ATOM	3	C	ALA A 1	-21.346	-19.111	-8.881	1.00 61.76 C0
ANISOU	3	C	ALA A 1	9080	7620	6770	-240 2740 -1020 C0
ATOM	4	O	ALA A 1	-20.660	-19.980	-8.301	1.00 62.46 O0
ANISOU	4	O	ALA A 1	9040	7690	7000	-160 2770 -1060 O0
ATOM	5	CB	ALA A 1	-23.542	-20.114	-9.545	1.00 61.91 C0
ANISOU	5	CB	ALA A 1	9300	7570	6650	-240 2590 -1060 C0
ATOM	6	H	ALA A 1	-21.956	-21.350	-10.865	1.00 64.45 H0
ANISOU	6	H	ALA A 1	9610	7890	6980	-210 2850 -1240 H0
ATOM	7	HA	ALA A 1	-22.427	-18.757	-10.609	1.00 62.93 H0
ANISOU	7	HA	ALA A 1	9470	7780	6660	-330 2740 -1040 H0
ATOM	8	HB1	ALA A 1	-24.019	-19.433	-9.042	1.00 61.00 H0
ANISOU	8	HB1	ALA A 1	9190	7460	6530	-250 2500 -990 H0
ATOM	9	HB2	ALA A 1	-24.086	-20.398	-10.299	1.00 62.35 H0
ANISOU	9	HB2	ALA A 1	9450	7630	6610	-270 2590 -1100 H0
ATOM	10	HB3	ALA A 1	-23.366	-20.876	-8.969	1.00 61.72 H0
ANISOU	10	HB3	ALA A 1	9210	7500	6740	-180 2590 -1090 H0
ATOM	11	N	ASP A 2	-21.373	-17.818	-8.546	1.00 59.44 N0
ANISOU	11	N	ASP A 2	8780	7350	6450	-300 2700 -930 N0
ATOM	12	CA	ASP A 2	-20.668	-17.253	-7.367	1.00 57.76 C0
ANISOU	12	CA	ASP A 2	8420	7170	6350	-300 2690 -890 C0
ATOM	13	C	ASP A 2	-21.708	-16.992	-6.268	1.00 54.71 C0
ANISOU	13	C	ASP A 2	8040	6740	6010	-280 2520 -810 C0
ATOM	14	O	ASP A 2	-22.910	-17.240	-6.502	1.00 52.88 O0
ANISOU	14	O	ASP A 2	7910	6470	5710	-260 2430 -790 O0
ATOM	15	CB	ASP A 2	-19.818	-16.040	-7.759	1.00 58.75 C0
ANISOU	15	CB	ASP A 2	8550	7350	6420	-410 2800 -870 C0
ATOM	16	CG	ASP A 2	-20.582	-14.814	-8.239	1.00 58.90 C0
ANISOU	16	CG	ASP A 2	8740	7340	6300	-490 2770 -790 C0
ATOM	17	OD1	ASP A 2	-21.838	-14.833	-8.201	1.00 57.24 O0
ANISOU	17	OD1	ASP A 2	8630	7080	6030	-460 2640 -740 O0
ATOM	18	OD2	ASP A 2	-19.904	-13.843	-8.651	1.00 59.86 O0
ANISOU	18	OD2	ASP A 2	8890	7490	6360	-590 2870 -770 O0
ATOM	19	H	ASP A 2	-21.837	-17.199	-9.027	1.00 59.57 H0
ANISOU	19	H	ASP A 2	8900	7370	6360	-350 2690 -900 H0
ATOM	20	HA	ASP A 2	-20.048	-17.942	-7.033	1.00 58.06 H0
ANISOU	20	HA	ASP A 2	8350	7220	6490	-250 2720 -930 H0
ATOM	21	HB2	ASP A 2	-19.277	-15.777	-6.988	1.00 58.65 H0
ANISOU	21	HB2	ASP A 2	8420	7370	6490	-420 2790 -850 H0
ATOM	22	HB3	ASP A 2	-19.207	-16.310	-8.476	1.00 59.82 H0
ANISOU	22	HB3	ASP A 2	8680	7520	6530	-420 2900 -920 H0
ATOM	23	N	ARG A 3	-21.253	-16.531	-5.105	1.00 53.46 N0
ANISOU	23	N	ARG A 3	7750	6610	5950	-280 2480 -760 N0

ATOM	24	CA	ARG	A	3	-22.092	-16.379	-3.885	1.00	51.20	C0	
ANISOU	24	CA	ARG	A	3	7440	6290	5730	-250	2330	-690	C0
ATOM	25	C	ARG	A	3	-23.205	-15.359	-4.155	1.00	49.29	C0	
ANISOU	25	C	ARG	A	3	7350	6010	5370	-300	2260	-630	C0
ATOM	26	O	ARG	A	3	-24.314	-15.555	-3.628	1.00	47.15	O0	
ANISOU	26	O	ARG	A	3	7110	5710	5100	-260	2130	-590	O0
ATOM	27	CB	ARG	A	3	-21.200	-16.023	-2.693	1.00	51.57	C0	
ANISOU	27	CB	ARG	A	3	7320	6390	5890	-250	2330	-670	C0
ATOM	28	CG	ARG	A	3	-20.248	-17.146	-2.306	1.00	53.16	C0	
ANISOU	28	CG	ARG	A	3	7360	6640	6200	-160	2370	-730	C0
ATOM	29	CD	ARG	A	3	-19.456	-16.873	-1.042	1.00	53.90	C0	
ANISOU	29	CD	ARG	A	3	7270	6810	6400	-150	2340	-700	C0
ATOM	30	NE	ARG	A	3	-18.720	-18.048	-0.588	1.00	55.04	N0	
ANISOU	30	NE	ARG	A	3	7270	7000	6650	-20	2360	-730	N0
ATOM	31	CZ	ARG	A	3	-17.566	-18.479	-1.095	1.00	57.23	C0	
ANISOU	31	CZ	ARG	A	3	7440	7350	6950	20	2490	-800	C0
ATOM	32	NH1	ARG	A	3	-16.980	-17.837	-2.094	1.00	58.54	N0	
ANISOU	32	NH1	ARG	A	3	7640	7560	7050	-80	2610	-850	N0
ATOM	33	NH2	ARG	A	3	-16.999	-19.566	-0.600	1.00	58.31	N0	
ANISOU	33	NH2	ARG	A	3	7460	7510	7190	160	2490	-810	N0
ATOM	34	H	ARG	A	3	-20.388	-16.273	-4.990	1.00	53.97	H0	
ANISOU	34	H	ARG	A	3	7730	6720	6050	-300	2550	-780	H0
ATOM	35	HA	ARG	A	3	-22.515	-17.249	-3.702	1.00	50.90	H0	
ANISOU	35	HA	ARG	A	3	7400	6220	5720	-180	2280	-710	H0
ATOM	36	HB2	ARG	A	3	-20.678	-15.224	-2.915	1.00	52.14	H0	
ANISOU	36	HB2	ARG	A	3	7390	6500	5930	-320	2390	-670	H0
ATOM	37	HB3	ARG	A	3	-21.770	-15.809	-1.925	1.00	50.79	H0	
ANISOU	37	HB3	ARG	A	3	7210	6270	5810	-240	2230	-630	H0
ATOM	38	HG2	ARG	A	3	-20.764	-17.971	-2.180	1.00	52.80	H0	
ANISOU	38	HG2	ARG	A	3	7340	6540	6180	-90	2320	-730	H0
ATOM	39	HG3	ARG	A	3	-19.620	-17.299	-3.043	1.00	54.08	H0	
ANISOU	39	HG3	ARG	A	3	7470	6780	6300	-170	2470	-780	H0
ATOM	40	HD2	ARG	A	3	-18.827	-16.138	-1.206	1.00	54.36	H0	
ANISOU	40	HD2	ARG	A	3	7290	6930	6440	-220	2410	-720	H0
ATOM	41	HD3	ARG	A	3	-20.071	-16.587	-0.333	1.00	52.90	H0	
ANISOU	41	HD3	ARG	A	3	7150	6660	6280	-150	2250	-660	H0
ATOM	42	HE	ARG	A	3	-19.065	-18.509	0.067	1.00	54.66	H0	
ANISOU	42	HE	ARG	A	3	7200	6920	6650	40	2290	-710	H0
ATOM	43	HH11	ARG	A	3	-17.347	-17.117	-2.435	1.00	58.04	H0	
ANISOU	43	HH11	ARG	A	3	7660	7470	6920	-170	2610	-830	H0
ATOM	44	HH12	ARG	A	3	-16.219	-18.135	-2.418	1.00	59.37	H0	
ANISOU	44	HH12	ARG	A	3	7670	7720	7170	-50	2690	-890	H0
ATOM	45	HH21	ARG	A	3	-17.382	-19.998	0.066	1.00	57.61	H0	
ANISOU	45	HH21	ARG	A	3	7360	7390	7140	230	2420	-780	H0
ATOM	46	HH22	ARG	A	3	-16.235	-19.854	-0.931	1.00	59.17	H0	
ANISOU	46	HH22	ARG	A	3	7490	7670	7310	200	2570	-860	H0
ATOM	47	N	ALA	A	4	-22.932	-14.341	-4.980	1.00	48.85	N0	
ANISOU	47	N	ALA	A	4	7390	5970	5210	-380	2340	-610	N0
ATOM	48	CA	ALA	A	4	-23.889	-13.270	-5.349	1.00	47.71	C0	
ANISOU	48	CA	ALA	A	4	7400	5790	4930	-410	2290	-530	C0
ATOM	49	C	ALA	A	4	-25.064	-13.859	-6.145	1.00	47.34	C0	
ANISOU	49	C	ALA	A	4	7470	5730	4780	-360	2220	-540	C0
ATOM	50	O	ALA	A	4	-26.216	-13.528	-5.811	1.00	46.65	O0	
ANISOU	50	O	ALA	A	4	7440	5630	4660	-330	2100	-480	O0

ATOM	51	CB	ALA	A	4	-23.181	-12.183	-6.122	1.00	48.81	C0	
ANISOU	51	CB	ALA	A	4	7630	5930	4980	-510	2420	-520	C0
ATOM	52	H	ALA	A	4	-22.119	-14.226	-5.375	1.00	49.71	H0	
ANISOU	52	H	ALA	A	4	7470	6100	5310	-420	2440	-640	H0
ATOM	53	HA	ALA	A	4	-24.247	-12.880	-4.518	1.00	47.06	H0	
ANISOU	53	HA	ALA	A	4	7300	5690	4900	-400	2220	-490	H0
ATOM	54	HB1	ALA	A	4	-23.808	-11.469	-6.327	1.00	48.77	H0	
ANISOU	54	HB1	ALA	A	4	7740	5890	4900	-510	2390	-460	H0
ATOM	55	HB2	ALA	A	4	-22.451	-11.828	-5.588	1.00	48.92	H0	
ANISOU	55	HB2	ALA	A	4	7570	5960	5070	-550	2470	-520	H0
ATOM	56	HB3	ALA	A	4	-22.828	-12.550	-6.950	1.00	49.61	H0	
ANISOU	56	HB3	ALA	A	4	7760	6050	5040	-520	2500	-560	H0
ATOM	57	N	ASP	A	5	-24.791	-14.702	-7.150	1.00	48.07	N0	
ANISOU	57	N	ASP	A	5	7590	5850	4830	-360	2300	-620	N0
ATOM	58	CA	ASP	A	5	-25.831	-15.312	-8.027	1.00	48.04	C0	
ANISOU	58	CA	ASP	A	5	7690	5860	4700	-340	2240	-650	C0
ATOM	59	C	ASP	A	5	-26.764	-16.180	-7.175	1.00	46.08	C0	
ANISOU	59	C	ASP	A	5	7380	5590	4530	-280	2110	-660	C0
ATOM	60	O	ASP	A	5	-27.986	-16.121	-7.391	1.00	45.51	O0	
ANISOU	60	O	ASP	A	5	7380	5540	4370	-270	2010	-640	O0
ATOM	61	CB	ASP	A	5	-25.214	-16.139	-9.159	1.00	50.10	C0	
ANISOU	61	CB	ASP	A	5	7980	6140	4910	-350	2360	-750	C0
ATOM	62	CG	ASP	A	5	-24.544	-15.321	-10.251	1.00	51.77	C0	
ANISOU	62	CG	ASP	A	5	8290	6380	5000	-420	2490	-740	C0
ATOM	63	OD1	ASP	A	5	-24.738	-14.079	-10.276	1.00	52.10	O0	
ANISOU	63	OD1	ASP	A	5	8410	6420	4970	-450	2480	-640	O0
ATOM	64	OD2	ASP	A	5	-23.826	-15.935	-11.067	1.00	53.27	O0	
ANISOU	64	OD2	ASP	A	5	8480	6600	5170	-440	2610	-820	O0
ATOM	65	H	ASP	A	5	-23.941	-14.952	-7.361	1.00	48.64	H0	
ANISOU	65	H	ASP	A	5	7610	5930	4930	-380	2390	-660	H0
ATOM	66	HA	ASP	A	5	-26.362	-14.585	-8.427	1.00	48.22	H0	
ANISOU	66	HA	ASP	A	5	7810	5890	4620	-350	2210	-590	H0
ATOM	67	HB2	ASP	A	5	-24.547	-16.746	-8.780	1.00	50.02	H0	
ANISOU	67	HB2	ASP	A	5	7880	6120	5010	-340	2410	-790	H0
ATOM	68	HB3	ASP	A	5	-25.917	-16.681	-9.573	1.00	50.12	H0	
ANISOU	68	HB3	ASP	A	5	8030	6150	4860	-340	2320	-780	H0
ATOM	69	N	ILE	A	6	-26.204	-16.937	-6.230	1.00	45.38	N0	
ANISOU	69	N	ILE	A	6	7160	5470	4610	-250	2110	-690	N0
ATOM	70	CA	ILE	A	6	-26.969	-17.814	-5.288	1.00	44.37	C0	
ANISOU	70	CA	ILE	A	6	6980	5310	4570	-200	2010	-700	C0
ATOM	71	C	ILE	A	6	-27.912	-16.940	-4.452	1.00	43.27	C0	
ANISOU	71	C	ILE	A	6	6840	5180	4420	-190	1880	-610	C0
ATOM	72	O	ILE	A	6	-29.106	-17.293	-4.329	1.00	42.94	O0	
ANISOU	72	O	ILE	A	6	6830	5150	4340	-180	1770	-610	O0
ATOM	73	CB	ILE	A	6	-26.009	-18.655	-4.421	1.00	44.16	C0	
ANISOU	73	CB	ILE	A	6	6820	5250	4710	-150	2050	-730	C0
ATOM	74	CG1	ILE	A	6	-25.202	-19.637	-5.278	1.00	45.32	C0	
ANISOU	74	CG1	ILE	A	6	6970	5380	4860	-130	2180	-820	C0
ATOM	75	CG2	ILE	A	6	-26.766	-19.372	-3.311	1.00	43.54	C0	
ANISOU	75	CG2	ILE	A	6	6690	5130	4720	-100	1940	-710	C0
ATOM	76	CD1	ILE	A	6	-23.916	-20.104	-4.644	1.00	45.65	C0	
ANISOU	76	CD1	ILE	A	6	6880	5420	5050	-70	2260	-840	C0
ATOM	77	H	ILE	A	6	-25.304	-16.960	-6.096	1.00	45.71	H0	
ANISOU	77	H	ILE	A	6	7140	5520	4710	-250	2190	-710	H0

ATOM	78	HA	ILE	A	6	-27.510	-18.426	-5.818	1.00	44.68	H0	
ANISOU	78	HA	ILE	A	6	7070	5350	4550	-200	1990	-740	H0
ATOM	79	HB	ILE	A	6	-25.367	-18.033	-3.995	1.00	44.11	H0	
ANISOU	79	HB	ILE	A	6	6750	5260	4740	-150	2070	-690	H0
ATOM	80	HG12	ILE	A	6	-25.762	-20.421	-5.465	1.00	45.45	H0	
ANISOU	80	HG12	ILE	A	6	7030	5370	4870	-120	2160	-870	H0
ATOM	81	HG13	ILE	A	6	-24.991	-19.210	-6.135	1.00	45.94	H0	
ANISOU	81	HG13	ILE	A	6	7110	5490	4850	-170	2240	-840	H0
ATOM	82	HG21	ILE	A	6	-27.051	-18.728	-2.640	1.00	42.71	H0	
ANISOU	82	HG21	ILE	A	6	6560	5040	4630	-110	1870	-650	H0
ATOM	83	HG22	ILE	A	6	-26.186	-20.033	-2.895	1.00	43.63	H0	
ANISOU	83	HG22	ILE	A	6	6640	5120	4820	-60	1980	-730	H0
ATOM	84	HG23	ILE	A	6	-27.546	-19.817	-3.684	1.00	43.52	H0	
ANISOU	84	HG23	ILE	A	6	6750	5120	4660	-110	1910	-740	H0
ATOM	85	HD11	ILE	A	6	-23.356	-19.335	-4.437	1.00	45.64	H0	
ANISOU	85	HD11	ILE	A	6	6820	5470	5050	-90	2280	-810	H0
ATOM	86	HD12	ILE	A	6	-23.443	-20.691	-5.259	1.00	46.57	H0	
ANISOU	86	HD12	ILE	A	6	7000	5530	5160	-50	2340	-900	H0
ATOM	87	HD13	ILE	A	6	-24.113	-20.589	-3.824	1.00	45.19	H0	
ANISOU	87	HD13	ILE	A	6	6770	5330	5070	-20	2200	-820	H0
ATOM	88	N	LEU	A	7	-27.409	-15.828	-3.913	1.00	43.09	N0	
ANISOU	88	N	LEU	A	7	6790	5160	4430	-210	1890	-540	N0
ATOM	89	CA	LEU	A	7	-28.217	-14.880	-3.104	1.00	42.08	C0	
ANISOU	89	CA	LEU	A	7	6670	5030	4290	-200	1780	-460	C0
ATOM	90	C	LEU	A	7	-29.333	-14.279	-3.968	1.00	42.81	C0	
ANISOU	90	C	LEU	A	7	6900	5150	4220	-190	1730	-420	C0
ATOM	91	O	LEU	A	7	-30.486	-14.202	-3.489	1.00	42.04	O0	
ANISOU	91	O	LEU	A	7	6800	5070	4100	-160	1610	-390	O0
ATOM	92	CB	LEU	A	7	-27.310	-13.781	-2.546	1.00	42.08	C0	
ANISOU	92	CB	LEU	A	7	6640	5020	4340	-240	1840	-410	C0
ATOM	93	CG	LEU	A	7	-28.037	-12.698	-1.756	1.00	41.53	C0	
ANISOU	93	CG	LEU	A	7	6600	4930	4260	-230	1760	-340	C0
ATOM	94	CD1	LEU	A	7	-28.891	-13.319	-0.661	1.00	40.72	C0	
ANISOU	94	CD1	LEU	A	7	6410	4830	4230	-180	1630	-330	C0
ATOM	95	CD2	LEU	A	7	-27.052	-11.696	-1.178	1.00	42.06	C0	
ANISOU	95	CD2	LEU	A	7	6630	4980	4370	-290	1830	-310	C0
ATOM	96	H	LEU	A	7	-26.535	-15.588	-4.006	1.00	43.44	H0	
ANISOU	96	H	LEU	A	7	6800	5210	4490	-230	1970	-550	H0
ATOM	97	HA	LEU	A	7	-28.626	-15.379	-2.361	1.00	41.55	H0	
ANISOU	97	HA	LEU	A	7	6550	4950	4290	-170	1720	-460	H0
ATOM	98	HB2	LEU	A	7	-26.641	-14.196	-1.966	1.00	41.99	H0	
ANISOU	98	HB2	LEU	A	7	6520	5010	4420	-240	1860	-440	H0
ATOM	99	HB3	LEU	A	7	-26.837	-13.360	-3.291	1.00	42.85	H0	
ANISOU	99	HB3	LEU	A	7	6790	5120	4370	-270	1920	-420	H0
ATOM	100	HG	LEU	A	7	-28.636	-12.214	-2.375	1.00	41.91	H0	
ANISOU	100	HG	LEU	A	7	6750	4970	4200	-220	1740	-300	H0
ATOM	101	HD11	LEU	A	7	-29.703	-13.687	-1.049	1.00	40.62	H0	
ANISOU	101	HD11	LEU	A	7	6440	4830	4160	-160	1580	-340	H0
ATOM	102	HD12	LEU	A	7	-29.126	-12.639	-0.006	1.00	40.23	H0	
ANISOU	102	HD12	LEU	A	7	6350	4760	4180	-180	1590	-290	H0
ATOM	103	HD13	LEU	A	7	-28.391	-14.030	-0.223	1.00	40.50	H0	
ANISOU	103	HD13	LEU	A	7	6300	4800	4290	-180	1640	-360	H0
ATOM	104	HD21	LEU	A	7	-26.381	-12.165	-0.654	1.00	41.88	H0	
ANISOU	104	HD21	LEU	A	7	6500	4980	4440	-300	1850	-350	H0

ATOM	105	HD22	LEU	A	7	-27.525	-11.065	-0.609	1.00	41.53	H0	
ANISOU	105	HD22	LEU	A	7	6580	4890	4310	-290	1780	-270	H0
ATOM	106	HD23	LEU	A	7	-26.616	-11.215	-1.903	1.00	42.71	H0	
ANISOU	106	HD23	LEU	A	7	6780	5050	4400	-340	1910	-310	H0
ATOM	107	N	TYR	A	8	-29.012	-13.863	-5.195	1.00	44.65	N0	
ANISOU	107	N	TYR	A	8	7240	5400	4330	-220	1820	-430	N0
ATOM	108	CA	TYR	A	8	-29.973	-13.182	-6.102	1.00	45.83	C0	
ANISOU	108	CA	TYR	A	8	7520	5580	4300	-200	1770	-370	C0
ATOM	109	C	TYR	A	8	-31.059	-14.179	-6.520	1.00	46.14	C0	
ANISOU	109	C	TYR	A	8	7560	5690	4280	-180	1680	-430	C0
ATOM	110	O	TYR	A	8	-32.229	-13.769	-6.628	1.00	46.30	O0	
ANISOU	110	O	TYR	A	8	7630	5760	4200	-140	1580	-380	O0
ATOM	111	CB	TYR	A	8	-29.247	-12.513	-7.274	1.00	47.44	C0	
ANISOU	111	CB	TYR	A	8	7850	5790	4390	-240	1900	-360	C0
ATOM	112	CG	TYR	A	8	-28.175	-11.521	-6.884	1.00	47.99	C0	
ANISOU	112	CG	TYR	A	8	7920	5800	4520	-300	2000	-320	C0
ATOM	113	CD1	TYR	A	8	-28.169	-10.897	-5.642	1.00	47.39	C0	
ANISOU	113	CD1	TYR	A	8	7780	5670	4550	-290	1960	-270	C0
ATOM	114	CD2	TYR	A	8	-27.164	-11.187	-7.771	1.00	49.75	C0	
ANISOU	114	CD2	TYR	A	8	8200	6010	4690	-360	2150	-330	C0
ATOM	115	CE1	TYR	A	8	-27.181	-9.992	-5.287	1.00	47.82	C0	
ANISOU	115	CE1	TYR	A	8	7840	5680	4650	-360	2060	-250	C0
ATOM	116	CE2	TYR	A	8	-26.174	-10.276	-7.436	1.00	50.41	C0	
ANISOU	116	CE2	TYR	A	8	8280	6050	4820	-430	2250	-300	C0
ATOM	117	CZ	TYR	A	8	-26.182	-9.676	-6.189	1.00	49.62	C0	
ANISOU	117	CZ	TYR	A	8	8120	5910	4820	-440	2210	-270	C0
ATOM	118	OH	TYR	A	8	-25.209	-8.777	-5.860	1.00	51.16	O0	
ANISOU	118	OH	TYR	A	8	8320	6060	5060	-530	2310	-250	O0
ATOM	119	H	TYR	A	8	-28.188	-13.972	-5.567	1.00	45.13	H0	
ANISOU	119	H	TYR	A	8	7290	5450	4400	-250	1910	-460	H0
ATOM	120	HA	TYR	A	8	-30.420	-12.468	-5.581	1.00	45.41	H0	
ANISOU	120	HA	TYR	A	8	7480	5520	4250	-180	1720	-310	H0
ATOM	121	HB2	TYR	A	8	-28.840	-13.215	-7.824	1.00	47.93	H0	
ANISOU	121	HB2	TYR	A	8	7900	5870	4450	-270	1950	-430	H0
ATOM	122	HB3	TYR	A	8	-29.913	-12.054	-7.824	1.00	47.90	H0	
ANISOU	122	HB3	TYR	A	8	8000	5870	4330	-220	1860	-320	H0
ATOM	123	HD1	TYR	A	8	-28.841	-11.105	-5.017	1.00	46.63	H0	
ANISOU	123	HD1	TYR	A	8	7640	5580	4490	-250	1860	-260	H0
ATOM	124	HD2	TYR	A	8	-27.147	-11.591	-8.623	1.00	50.36	H0	
ANISOU	124	HD2	TYR	A	8	8320	6130	4690	-370	2180	-370	H0
ATOM	125	HE1	TYR	A	8	-27.196	-9.583	-4.438	1.00	47.40	H0	
ANISOU	125	HE1	TYR	A	8	7740	5600	4660	-360	2030	-220	H0
ATOM	126	HE2	TYR	A	8	-25.494	-10.067	-8.055	1.00	51.19	H0	
ANISOU	126	HE2	TYR	A	8	8420	6150	4870	-490	2360	-320	H0
ATOM	127	N	ASN	A	9	-30.705	-15.454	-6.704	1.00	46.86	N0	
ANISOU	127	N	ASN	A	9	7600	5780	4420	-210	1720	-530	N0
ATOM	128	CA	ASN	A	9	-31.693	-16.521	-7.018	1.00	47.67	C0	
ANISOU	128	CA	ASN	A	9	7700	5930	4480	-210	1650	-610	C0
ATOM	129	C	ASN	A	9	-32.634	-16.699	-5.821	1.00	46.90	C0	
ANISOU	129	C	ASN	A	9	7530	5830	4460	-180	1520	-580	C0
ATOM	130	O	ASN	A	9	-33.840	-16.896	-6.043	1.00	47.50	O0	
ANISOU	130	O	ASN	A	9	7620	5990	4450	-180	1430	-600	O0
ATOM	131	CB	ASN	A	9	-31.040	-17.854	-7.385	1.00	48.32	C0	
ANISOU	131	CB	ASN	A	9	7770	5970	4620	-250	1740	-720	C0

ATOM	132	CG	ASN	A	9	-32.073	-18.918	-7.689	1.00	48.97	C0	
ANISOU	132	CG	ASN	A	9	7860	6100	4650	-270	1680	-810	C0
ATOM	133	OD1	ASN	A	9	-32.247	-19.857	-6.921	1.00	49.30	O0	
ANISOU	133	OD1	ASN	A	9	7840	6080	4800	-280	1660	-850	O0
ATOM	134	ND2	ASN	A	9	-32.800	-18.754	-8.781	1.00	50.73	N0	
ANISOU	134	ND2	ASN	A	9	8170	6420	4690	-300	1650	-830	N0
ATOM	135	H	ASN	A	9	-29.843	-15.744	-6.658	1.00	46.99	H0	
ANISOU	135	H	ASN	A	9	7590	5760	4510	-220	1800	-560	H0
ATOM	136	HA	ASN	A	9	-32.226	-16.226	-7.793	1.00	48.27	H0	
ANISOU	136	HA	ASN	A	9	7850	6070	4420	-210	1630	-600	H0
ATOM	137	HB2	ASN	A	9	-30.467	-17.726	-8.168	1.00	49.12	H0	
ANISOU	137	HB2	ASN	A	9	7920	6080	4660	-260	1820	-740	H0
ATOM	138	HB3	ASN	A	9	-30.479	-18.152	-6.640	1.00	47.86	H0	
ANISOU	138	HB3	ASN	A	9	7640	5860	4690	-230	1770	-720	H0
ATOM	139	HD21	ASN	A	9	-33.408	-19.356	-9.002	1.00	50.82	H0	
ANISOU	139	HD21	ASN	A	9	8180	6470	4660	-330	1610	-890	H0
ATOM	140	HD22	ASN	A	9	-32.678	-18.042	-9.291	1.00	50.83	H0	
ANISOU	140	HD22	ASN	A	9	8230	6470	4610	-290	1660	-790	H0
ATOM	141	N	ILE	A	10	-32.098	-16.652	-4.602	1.00	46.06	N0	
ANISOU	141	N	ILE	A	10	7330	5660	4510	-170	1530	-550	N0
ATOM	142	CA	ILE	A	10	-32.894	-16.771	-3.345	1.00	46.20	C0	
ANISOU	142	CA	ILE	A	10	7270	5670	4610	-140	1420	-520	C0
ATOM	143	C	ILE	A	10	-33.845	-15.570	-3.238	1.00	46.52	C0	
ANISOU	143	C	ILE	A	10	7350	5770	4560	-100	1330	-430	C0
ATOM	144	O	ILE	A	10	-35.011	-15.784	-2.869	1.00	46.79	O0	
ANISOU	144	O	ILE	A	10	7350	5860	4570	-90	1220	-430	O0
ATOM	145	CB	ILE	A	10	-31.969	-16.929	-2.118	1.00	45.05	C0	
ANISOU	145	CB	ILE	A	10	7030	5450	4640	-130	1450	-500	C0
ATOM	146	CG1	ILE	A	10	-31.312	-18.312	-2.107	1.00	44.91	C0	
ANISOU	146	CG1	ILE	A	10	6970	5380	4710	-140	1520	-580	C0
ATOM	147	CG2	ILE	A	10	-32.717	-16.652	-0.824	1.00	44.20	C0	
ANISOU	147	CG2	ILE	A	10	6850	5350	4590	-110	1340	-440	C0
ATOM	148	CD1	ILE	A	10	-30.096	-18.416	-1.217	1.00	44.70	C0	
ANISOU	148	CD1	ILE	A	10	6850	5300	4830	-110	1570	-560	C0
ATOM	149	H	ILE	A	10	-31.204	-16.551	-4.461	1.00	46.30	H0	
ANISOU	149	H	ILE	A	10	7340	5650	4610	-170	1600	-540	H0
ATOM	150	HA	ILE	A	10	-33.437	-17.577	-3.413	1.00	46.13	H0	
ANISOU	150	HA	ILE	A	10	7250	5680	4600	-160	1390	-570	H0
ATOM	151	HB	ILE	A	10	-31.249	-16.257	-2.197	1.00	45.15	H0	
ANISOU	151	HB	ILE	A	10	7050	5450	4660	-130	1500	-470	H0
ATOM	152	HG12	ILE	A	10	-31.973	-18.970	-1.810	1.00	44.87	H0	
ANISOU	152	HG12	ILE	A	10	6950	5370	4720	-140	1470	-600	H0
ATOM	153	HG13	ILE	A	10	-31.050	-18.543	-3.023	1.00	45.78	H0	
ANISOU	153	HG13	ILE	A	10	7130	5500	4770	-160	1580	-620	H0
ATOM	154	HG21	ILE	A	10	-32.832	-15.692	-0.710	1.00	43.97	H0	
ANISOU	154	HG21	ILE	A	10	6850	5330	4530	-90	1320	-390	H0
ATOM	155	HG22	ILE	A	10	-32.212	-17.005	-0.071	1.00	43.77	H0	
ANISOU	155	HG22	ILE	A	10	6740	5250	4640	-100	1360	-440	H0
ATOM	156	HG23	ILE	A	10	-33.591	-17.080	-0.853	1.00	44.14	H0	
ANISOU	156	HG23	ILE	A	10	6850	5370	4550	-110	1280	-470	H0
ATOM	157	HD11	ILE	A	10	-29.483	-17.688	-1.416	1.00	44.83	H0	
ANISOU	157	HD11	ILE	A	10	6870	5330	4830	-120	1620	-530	H0
ATOM	158	HD12	ILE	A	10	-29.650	-19.266	-1.375	1.00	45.12	H0	
ANISOU	158	HD12	ILE	A	10	6890	5330	4930	-100	1630	-610	H0

ATOM	159	HD13	ILE	A	10	-30.369	-18.364	-0.284	1.00	44.01	H0	
ANISOU	159	HD13	ILE	A	10	6710	5210	4800	-90	1510	-520	H0
ATOM	160	N	ARG	A	11	-33.384	-14.366	-3.586	1.00	48.14	N0	
ANISOU	160	N	ARG	A	11	7620	5960	4710	-90	1370	-360	N0
ATOM	161	CA	ARG	A	11	-34.163	-13.104	-3.447	1.00	49.23	C0	
ANISOU	161	CA	ARG	A	11	7810	6120	4770	-30	1310	-270	C0
ATOM	162	C	ARG	A	11	-35.312	-13.043	-4.464	1.00	51.26	C0	
ANISOU	162	C	ARG	A	11	8140	6490	4850	10	1230	-270	C0
ATOM	163	O	ARG	A	11	-36.320	-12.388	-4.152	1.00	52.57	O0	
ANISOU	163	O	ARG	A	11	8310	6710	4960	80	1140	-210	O0
ATOM	164	CB	ARG	A	11	-33.250	-11.885	-3.598	1.00	49.86	C0	
ANISOU	164	CB	ARG	A	11	7970	6130	4840	-30	1400	-200	C0
ATOM	165	CG	ARG	A	11	-32.394	-11.628	-2.370	1.00	49.59	C0	
ANISOU	165	CG	ARG	A	11	7860	6020	4960	-60	1440	-190	C0
ATOM	166	CD	ARG	A	11	-31.703	-10.283	-2.366	1.00	50.65	C0	
ANISOU	166	CD	ARG	A	11	8080	6090	5080	-80	1520	-130	C0
ATOM	167	NE	ARG	A	11	-31.101	-10.061	-1.057	1.00	50.96	N0	
ANISOU	167	NE	ARG	A	11	8020	6080	5260	-120	1530	-130	N0
ATOM	168	CZ	ARG	A	11	-30.119	-9.206	-0.801	1.00	51.56	C0	
ANISOU	168	CZ	ARG	A	11	8110	6100	5370	-180	1630	-120	C0
ATOM	169	NH1	ARG	A	11	-29.606	-8.457	-1.765	1.00	52.53	N0	
ANISOU	169	NH1	ARG	A	11	8360	6190	5400	-220	1730	-90	N0
ATOM	170	NH2	ARG	A	11	-29.647	-9.110	0.428	1.00	50.97	N0	
ANISOU	170	NH2	ARG	A	11	7930	6010	5420	-220	1620	-130	N0
ATOM	171	H	ARG	A	11	-32.549	-14.245	-3.929	1.00	48.41	H0	
ANISOU	171	H	ARG	A	11	7680	5960	4750	-110	1450	-370	H0
ATOM	172	HA	ARG	A	11	-34.554	-13.089	-2.543	1.00	48.57	H0	
ANISOU	172	HA	ARG	A	11	7670	6030	4750	-10	1250	-250	H0
ATOM	173	HB2	ARG	A	11	-32.665	-12.020	-4.372	1.00	50.56	H0	
ANISOU	173	HB2	ARG	A	11	8110	6220	4880	-60	1480	-230	H0
ATOM	174	HB3	ARG	A	11	-33.804	-11.095	-3.770	1.00	50.23	H0	
ANISOU	174	HB3	ARG	A	11	8090	6190	4800	10	1370	-140	H0
ATOM	175	HG2	ARG	A	11	-32.960	-11.690	-1.571	1.00	48.95	H0	
ANISOU	175	HG2	ARG	A	11	7720	5950	4930	-40	1360	-180	H0
ATOM	176	HG3	ARG	A	11	-31.713	-12.329	-2.304	1.00	49.50	H0	
ANISOU	176	HG3	ARG	A	11	7790	6000	5020	-100	1480	-250	H0
ATOM	177	HD2	ARG	A	11	-31.011	-10.267	-3.060	1.00	51.40	H0	
ANISOU	177	HD2	ARG	A	11	8210	6170	5140	-120	1610	-150	H0
ATOM	178	HD3	ARG	A	11	-32.353	-9.574	-2.558	1.00	51.04	H0	
ANISOU	178	HD3	ARG	A	11	8210	6140	5050	-40	1490	-70	H0
ATOM	179	HE	ARG	A	11	-31.400	-10.537	-0.390	1.00	50.14	H0	
ANISOU	179	HE	ARG	A	11	7840	6000	5220	-100	1470	-150	H0
ATOM	180	HH11	ARG	A	11	-29.912	-8.517	-2.585	1.00	53.03	H0	
ANISOU	180	HH11	ARG	A	11	8500	6270	5380	-200	1740	-80	H0
ATOM	181	HH12	ARG	A	11	-28.958	-7.893	-1.580	1.00	52.83	H0	
ANISOU	181	HH12	ARG	A	11	8410	6190	5470	-280	1800	-90	H0
ATOM	182	HH21	ARG	A	11	-29.988	-9.605	1.072	1.00	50.26	H0	
ANISOU	182	HH21	ARG	A	11	7770	5950	5380	-190	1550	-140	H0
ATOM	183	HH22	ARG	A	11	-29.002	-8.539	0.603	1.00	51.19	H0	
ANISOU	183	HH22	ARG	A	11	7970	6020	5460	-270	1680	-130	H0
ATOM	184	N	GLN	A	12	-35.171	-13.678	-5.631	1.00	52.69	N0	
ANISOU	184	N	GLN	A	12	8370	6720	4930	-30	1280	-330	N0
ATOM	185	CA	GLN	A	12	-36.229	-13.721	-6.676	1.00	55.33	C0	
ANISOU	185	CA	GLN	A	12	8750	7190	5080	0	1200	-340	C0

ATOM	186	C	GLN	A	12	-37.216	-14.857	-6.378	1.00	55.20	C0	
ANISOU	186	C	GLN	A	12	8640	7260	5070	-40	1110	-430	C0
ATOM	187	O	GLN	A	12	-38.298	-14.864	-6.996	1.00	56.03	O0	
ANISOU	187	O	GLN	A	12	8750	7510	5030	-10	1020	-440	O0
ATOM	188	CB	GLN	A	12	-35.619	-13.913	-8.068	1.00	57.59	C0	
ANISOU	188	CB	GLN	A	12	9140	7500	5240	-40	1300	-380	C0
ATOM	189	CG	GLN	A	12	-34.819	-12.714	-8.553	1.00	59.00	C0	
ANISOU	189	CG	GLN	A	12	9440	7610	5360	-20	1390	-290	C0
ATOM	190	CD	GLN	A	12	-34.146	-12.992	-9.873	1.00	61.86	C0	
ANISOU	190	CD	GLN	A	12	9890	8000	5620	-70	1490	-340	C0
ATOM	191	OE1	GLN	A	12	-32.920	-13.029	-9.974	1.00	62.61	O0	
ANISOU	191	OE1	GLN	A	12	10000	8010	5780	-120	1630	-360	O0
ATOM	192	NE2	GLN	A	12	-34.950	-13.213	-10.901	1.00	64.27	N0	
ANISOU	192	NE2	GLN	A	12	10250	8440	5730	-60	1440	-360	N0
ATOM	193	H	GLN	A	12	-34.409	-14.122	-5.860	1.00	53.05	H0	
ANISOU	193	H	GLN	A	12	8410	6730	5020	-70	1350	-370	H0
ATOM	194	HA	GLN	A	12	-36.718	-12.867	-6.660	1.00	55.41	H0	
ANISOU	194	HA	GLN	A	12	8800	7230	5020	60	1160	-260	H0
ATOM	195	HB2	GLN	A	12	-35.036	-14.701	-8.048	1.00	57.38	H0	
ANISOU	195	HB2	GLN	A	12	9080	7430	5290	-100	1350	-450	H0
ATOM	196	HB3	GLN	A	12	-36.343	-14.093	-8.704	1.00	58.28	H0	
ANISOU	196	HB3	GLN	A	12	9250	7690	5210	-30	1240	-400	H0
ATOM	197	HG2	GLN	A	12	-35.418	-11.943	-8.652	1.00	59.49	H0	
ANISOU	197	HG2	GLN	A	12	9550	7710	5340	50	1340	-210	H0
ATOM	198	HG3	GLN	A	12	-34.139	-12.485	-7.885	1.00	58.47	H0	
ANISOU	198	HG3	GLN	A	12	9340	7460	5420	-30	1440	-270	H0
ATOM	199	HE21	GLN	A	12	-34.632	-13.576	-11.642	1.00	64.58	H0	
ANISOU	199	HE21	GLN	A	12	10330	8500	5710	-100	1490	-410	H0
ATOM	200	HE22	GLN	A	12	-35.806	-12.998	-10.848	1.00	63.99	H0	
ANISOU	200	HE22	GLN	A	12	10200	8470	5640	-10	1350	-330	H0
ATOM	201	N	THR	A	13	-36.856	-15.779	-5.478	1.00	54.24	N0	
ANISOU	201	N	THR	A	13	8430	7060	5120	-90	1130	-490	N0
ATOM	202	CA	THR	A	13	-37.590	-17.049	-5.231	1.00	53.99	C0	
ANISOU	202	CA	THR	A	13	8330	7070	5120	-150	1080	-590	C0
ATOM	203	C	THR	A	13	-38.184	-17.047	-3.821	1.00	53.41	C0	
ANISOU	203	C	THR	A	13	8160	6980	5160	-130	1000	-560	C0
ATOM	204	O	THR	A	13	-39.398	-17.290	-3.704	1.00	54.23	O0	
ANISOU	204	O	THR	A	13	8210	7200	5200	-140	900	-590	O0
ATOM	205	CB	THR	A	13	-36.677	-18.260	-5.459	1.00	53.89	C0	
ANISOU	205	CB	THR	A	13	8330	6960	5190	-230	1190	-690	C0
ATOM	206	OG1	THR	A	13	-36.320	-18.285	-6.841	1.00	54.07	O0	
ANISOU	206	OG1	THR	A	13	8440	7030	5080	-250	1250	-740	O0
ATOM	207	CG2	THR	A	13	-37.332	-19.568	-5.079	1.00	54.26	C0	
ANISOU	207	CG2	THR	A	13	8320	7010	5280	-300	1160	-790	C0
ATOM	208	H	THR	A	13	-36.121	-15.699	-4.951	1.00	53.60	H0	
ANISOU	208	H	THR	A	13	8330	6890	5140	-90	1180	-470	H0
ATOM	209	HA	THR	A	13	-38.332	-17.100	-5.877	1.00	54.85	H0	
ANISOU	209	HA	THR	A	13	8450	7290	5100	-160	1030	-620	H0
ATOM	210	HB	THR	A	13	-35.861	-18.141	-4.917	1.00	53.20	H0	
ANISOU	210	HB	THR	A	13	8220	6780	5210	-210	1240	-660	H0
ATOM	211	HG21	THR	A	13	-37.214	-19.728	-4.126	1.00	53.36	H0	
ANISOU	211	HG21	THR	A	13	8160	6830	5280	-290	1150	-770	H0
ATOM	212	HG22	THR	A	13	-36.923	-20.293	-5.582	1.00	54.72	H0	
ANISOU	212	HG22	THR	A	13	8420	7030	5340	-340	1230	-860	H0

ATOM	213	HG23	THR	A	13	-38.283	-19.528	-5.285	1.00	54.54	H0	
ANISOU	213	HG23	THR	A	13	8340	7150	5230	-310	1080	-810	H0
ATOM	214	N	SER	A	14	-37.358	-16.818	-2.796	1.00	53.22	N0	
ANISOU	214	N	SER	A	14	8100	6840	5280	-110	1040	-510	N0
ATOM	215	CA	SER	A	14	-37.795	-16.754	-1.376	1.00	52.29	C0	
ANISOU	215	CA	SER	A	14	7890	6700	5280	-90	980	-470	C0
ATOM	216	C	SER	A	14	-38.673	-15.518	-1.166	1.00	52.53	C0	
ANISOU	216	C	SER	A	14	7920	6810	5230	-20	890	-390	C0
ATOM	217	O	SER	A	14	-38.361	-14.452	-1.745	1.00	52.03	O0	
ANISOU	217	O	SER	A	14	7940	6740	5090	40	920	-320	O0
ATOM	218	CB	SER	A	14	-36.638	-16.751	-0.417	1.00	51.47	C0	
ANISOU	218	CB	SER	A	14	7750	6470	5330	-90	1040	-440	C0
ATOM	219	OG	SER	A	14	-37.113	-16.672	0.920	1.00	50.77	O0	
ANISOU	219	OG	SER	A	14	7590	6380	5330	-80	980	-400	O0
ATOM	220	H	SER	A	14	-36.462	-16.689	-2.891	1.00	52.96	H0	
ANISOU	220	H	SER	A	14	8090	6740	5290	-110	1120	-500	H0
ATOM	221	HA	SER	A	14	-38.349	-17.561	-1.194	1.00	52.41	H0	
ANISOU	221	HA	SER	A	14	7870	6740	5300	-140	950	-530	H0
ATOM	222	HB2	SER	A	14	-36.111	-17.573	-0.533	1.00	51.66	H0	
ANISOU	222	HB2	SER	A	14	7780	6450	5410	-120	1100	-490	H0
ATOM	223	HB3	SER	A	14	-36.057	-15.981	-0.604	1.00	51.50	H0	
ANISOU	223	HB3	SER	A	14	7790	6450	5330	-60	1080	-400	H0
ATOM	224	N	ARG	A	15	-39.731	-15.674	-0.368	1.00	52.78	N0	
ANISOU	224	N	ARG	A	15	7870	6910	5280	-10	800	-390	N0
ATOM	225	CA	ARG	A	15	-40.632	-14.577	0.063	1.00	53.20	C0	
ANISOU	225	CA	ARG	A	15	7900	7030	5280	80	720	-320	C0
ATOM	226	C	ARG	A	15	-40.706	-14.603	1.586	1.00	50.95	C0	
ANISOU	226	C	ARG	A	15	7540	6700	5130	80	700	-300	C0
ATOM	227	O	ARG	A	15	-41.297	-15.513	2.165	1.00	49.82	O0	
ANISOU	227	O	ARG	A	15	7310	6590	5030	20	660	-350	O0
ATOM	228	CB	ARG	A	15	-41.997	-14.729	-0.613	1.00	56.16	C0	
ANISOU	228	CB	ARG	A	15	8250	7590	5500	100	620	-350	C0
ATOM	229	CG	ARG	A	15	-41.931	-14.666	-2.132	1.00	59.72	C0	
ANISOU	229	CG	ARG	A	15	8780	8110	5800	100	640	-370	C0
ATOM	230	CD	ARG	A	15	-43.160	-14.044	-2.768	1.00	62.94	C0	
ANISOU	230	CD	ARG	A	15	9180	8710	6030	190	540	-340	C0
ATOM	231	NE	ARG	A	15	-42.989	-13.862	-4.208	1.00	65.43	N0	
ANISOU	231	NE	ARG	A	15	9590	9090	6180	210	560	-340	N0
ATOM	232	CZ	ARG	A	15	-43.323	-14.748	-5.148	1.00	67.63	C0	
ANISOU	232	CZ	ARG	A	15	9860	9490	6350	130	540	-440	C0
ATOM	233	NH1	ARG	A	15	-43.112	-14.460	-6.422	1.00	69.39	N0	
ANISOU	233	NH1	ARG	A	15	10180	9770	6420	150	560	-420	N0
ATOM	234	NH2	ARG	A	15	-43.860	-15.915	-4.824	1.00	67.99	N0	
ANISOU	234	NH2	ARG	A	15	9800	9590	6440	10	510	-550	N0
ATOM	235	H	ARG	A	15	-39.969	-16.487	-0.033	1.00	52.62	H0	
ANISOU	235	H	ARG	A	15	7810	6890	5300	-60	790	-440	H0
ATOM	236	HA	ARG	A	15	-40.238	-13.724	-0.222	1.00	53.36	H0	
ANISOU	236	HA	ARG	A	15	7990	7020	5270	130	750	-260	H0
ATOM	237	HB2	ARG	A	15	-42.382	-15.589	-0.349	1.00	56.16	H0	
ANISOU	237	HB2	ARG	A	15	8180	7620	5530	30	600	-420	H0
ATOM	238	HB3	ARG	A	15	-42.590	-14.019	-0.289	1.00	56.27	H0	
ANISOU	238	HB3	ARG	A	15	8240	7660	5490	170	570	-300	H0
ATOM	239	HG2	ARG	A	15	-41.143	-14.145	-2.397	1.00	59.54	H0	
ANISOU	239	HG2	ARG	A	15	8830	8010	5780	130	700	-320	H0

ATOM	240	HG3 ARG A 15	-41.819	-15.575	-2.485	1.00	59.87	H0	
ANISOU	240	HG3 ARG A 15	8790	8140	5820	20	660	-450	H0
ATOM	241	HD2 ARG A 15	-43.939	-14.615	-2.597	1.00	62.96	H0	
ANISOU	241	HD2 ARG A 15	9100	8810	6010	150	480	-400	H0
ATOM	242	HD3 ARG A 15	-43.331	-13.172	-2.353	1.00	62.53	H0	
ANISOU	242	HD3 ARG A 15	9130	8640	5980	280	520	-260	H0
ATOM	243	HE ARG A 15	-42.638	-13.111	-4.476	1.00	65.67	H0	
ANISOU	243	HE ARG A 15	9690	9080	6180	270	590	-270	H0
ATOM	244	HH11 ARG A 15	-42.756	-13.687	-6.644	1.00	69.23	H0	
ANISOU	244	HH11 ARG A 15	10230	9700	6370	220	590	-350	H0
ATOM	245	HH12 ARG A 15	-43.331	-15.040	-7.045	1.00	69.85	H0	
ANISOU	245	HH12 ARG A 15	10230	9910	6400	90	550	-500	H0
ATOM	246	HH21 ARG A 15	-44.003	-16.121	-3.982	1.00	67.07	H0	
ANISOU	246	HH21 ARG A 15	9630	9430	6420	-10	500	-560	H0
ATOM	247	HH22 ARG A 15	-44.073	-16.488	-5.458	1.00	68.56	H0	
ANISOU	247	HH22 ARG A 15	9880	9740	6440	-50	510	-630	H0
ATOM	248	N PRO A 16	-40.083	-13.621	2.277	1.00	49.10	N0	
ANISOU	248	N PRO A 16	7320	6370	4960	130	730	-220	N0
ATOM	249	CA PRO A 16	-40.102	-13.568	3.740	1.00	47.92	C0	
ANISOU	249	CA PRO A 16	7100	6180	4930	120	710	-200	C0
ATOM	250	C PRO A 16	-41.480	-13.803	4.382	1.00	47.27	C0	
ANISOU	250	C PRO A 16	6930	6210	4820	130	610	-220	C0
ATOM	251	O PRO A 16	-41.513	-14.369	5.457	1.00	47.41	O0	
ANISOU	251	O PRO A 16	6880	6200	4940	90	600	-230	O0
ATOM	252	CB PRO A 16	-39.626	-12.138	4.047	1.00	47.73	C0	
ANISOU	252	CB PRO A 16	7140	6090	4910	190	740	-120	C0
ATOM	253	CG PRO A 16	-38.738	-11.777	2.877	1.00	48.30	C0	
ANISOU	253	CG PRO A 16	7320	6110	4930	180	820	-110	C0
ATOM	254	CD PRO A 16	-39.318	-12.510	1.686	1.00	49.28	C0	
ANISOU	254	CD PRO A 16	7450	6330	4940	170	790	-160	C0
ATOM	255	HA PRO A 16	-39.448	-14.217	4.099	1.00	47.39	H0	
ANISOU	255	HA PRO A 16	7010	6050	4940	70	750	-230	H0
ATOM	256	HB2 PRO A 16	-40.386	-11.520	4.110	1.00	47.97	H0	
ANISOU	256	HB2 PRO A 16	7170	6170	4880	250	690	-90	H0
ATOM	257	HB3 PRO A 16	-39.123	-12.109	4.888	1.00	47.14	H0	
ANISOU	257	HB3 PRO A 16	7030	5960	4920	160	760	-120	H0
ATOM	258	HG2 PRO A 16	-38.744	-10.810	2.724	1.00	48.65	H0	
ANISOU	258	HG2 PRO A 16	7420	6140	4930	230	830	-60	H0
ATOM	259	HG3 PRO A 16	-37.816	-12.063	3.042	1.00	48.05	H0	
ANISOU	259	HG3 PRO A 16	7280	6010	4960	130	880	-130	H0
ATOM	260	HD2 PRO A 16	-39.901	-11.925	1.167	1.00	49.88	H0	
ANISOU	260	HD2 PRO A 16	7570	6460	4920	230	760	-130	H0
ATOM	261	HD3 PRO A 16	-38.610	-12.846	1.106	1.00	49.49	H0	
ANISOU	261	HD3 PRO A 16	7520	6320	4970	130	850	-180	H0
ATOM	262	N ASP A 17	-42.560	-13.365	3.723	1.00	47.54	N0	
ANISOU	262	N ASP A 17	6960	6370	4730	190	550	-210	N0
ATOM	263	CA ASP A 17	-43.939	-13.320	4.284	1.00	48.00	C0	
ANISOU	263	CA ASP A 17	6920	6560	4750	230	460	-220	C0
ATOM	264	C ASP A 17	-44.802	-14.470	3.742	1.00	47.65	C0	
ANISOU	264	C ASP A 17	6810	6650	4640	140	410	-310	C0
ATOM	265	O ASP A 17	-46.010	-14.459	4.019	1.00	47.70	O0	
ANISOU	265	O ASP A 17	6720	6810	4590	160	330	-330	O0
ATOM	266	CB ASP A 17	-44.597	-11.973	3.979	1.00	50.01	C0	
ANISOU	266	CB ASP A 17	7210	6890	4900	370	410	-150	C0

ATOM	267	CG	ASP	A	17	-43.767	-10.773	4.409	1.00	51.25	C0	
ANISOU	267	CG	ASP	A	17	7460	6900	5110	440	480	-70	C0
ATOM	268	OD1	ASP	A	17	-43.029	-10.891	5.413	1.00	52.10	O0	
ANISOU	268	OD1	ASP	A	17	7560	6900	5350	380	520	-70	O0
ATOM	269	OD2	ASP	A	17	-43.872	-9.724	3.745	1.00	52.11	O0	
ANISOU	269	OD2	ASP	A	17	7670	7010	5130	550	480	0	O0
ATOM	270	H	ASP	A	17	-42.514	-13.045	2.872	1.00	48.32	H0	
ANISOU	270	H	ASP	A	17	7120	6490	4750	230	560	-200	H0
ATOM	271	HA	ASP	A	17	-43.876	-13.413	5.261	1.00	47.39	H0	
ANISOU	271	HA	ASP	A	17	6800	6440	4760	210	460	-220	H0
ATOM	272	HB2	ASP	A	17	-44.759	-11.908	3.016	1.00	50.84	H0	
ANISOU	272	HB2	ASP	A	17	7360	7050	4910	400	400	-150	H0
ATOM	273	HB3	ASP	A	17	-45.461	-11.928	4.437	1.00	50.22	H0	
ANISOU	273	HB3	ASP	A	17	7160	7000	4910	400	360	-160	H0
ATOM	274	N	VAL	A	18	-44.217	-15.420	3.005	1.00	46.72	N0	
ANISOU	274	N	VAL	A	18	6730	6490	4520	50	460	-370	N0
ATOM	275	CA	VAL	A	18	-44.941	-16.576	2.395	1.00	47.23	C0	
ANISOU	275	CA	VAL	A	18	6760	6670	4520	-50	430	-480	C0
ATOM	276	C	VAL	A	18	-44.288	-17.880	2.867	1.00	46.10	C0	
ANISOU	276	C	VAL	A	18	6620	6390	4500	-180	510	-540	C0
ATOM	277	O	VAL	A	18	-43.131	-18.121	2.489	1.00	46.57	O0	
ANISOU	277	O	VAL	A	18	6760	6320	4610	-190	590	-540	O0
ATOM	278	CB	VAL	A	18	-44.949	-16.494	0.857	1.00	48.45	C0	
ANISOU	278	CB	VAL	A	18	6970	6910	4530	-40	430	-510	C0
ATOM	279	CG1	VAL	A	18	-45.647	-17.696	0.238	1.00	49.45	C0	
ANISOU	279	CG1	VAL	A	18	7060	7150	4580	-170	410	-630	C0
ATOM	280	CG2	VAL	A	18	-45.567	-15.196	0.358	1.00	49.26	C0	
ANISOU	280	CG2	VAL	A	18	7090	7130	4500	110	360	-430	C0
ATOM	281	H	VAL	A	18	-43.325	-15.424	2.827	1.00	46.62	H0	
ANISOU	281	H	VAL	A	18	6780	6380	4550	40	520	-360	H0
ATOM	282	HA	VAL	A	18	-45.863	-16.562	2.708	1.00	47.47	H0	
ANISOU	282	HA	VAL	A	18	6710	6810	4520	-50	370	-500	H0
ATOM	283	HB	VAL	A	18	-44.008	-16.512	0.559	1.00	48.21	H0	
ANISOU	283	HB	VAL	A	18	7020	6770	4530	-50	500	-500	H0
ATOM	284	HG11	VAL	A	18	-45.046	-18.461	0.244	1.00	49.25	H0	
ANISOU	284	HG11	VAL	A	18	7070	7020	4620	-250	480	-680	H0
ATOM	285	HG12	VAL	A	18	-45.898	-17.490	-0.679	1.00	50.33	H0	
ANISOU	285	HG12	VAL	A	18	7190	7360	4570	-150	390	-650	H0
ATOM	286	HG13	VAL	A	18	-46.446	-17.907	0.752	1.00	49.58	H0	
ANISOU	286	HG13	VAL	A	18	6990	7250	4600	-200	360	-660	H0
ATOM	287	HG21	VAL	A	18	-46.493	-15.142	0.655	1.00	49.55	H0	
ANISOU	287	HG21	VAL	A	18	7040	7290	4500	120	300	-440	H0
ATOM	288	HG22	VAL	A	18	-45.537	-15.175	-0.614	1.00	50.00	H0	
ANISOU	288	HG22	VAL	A	18	7220	7280	4490	110	360	-440	H0
ATOM	289	HG23	VAL	A	18	-45.069	-14.440	0.713	1.00	48.66	H0	
ANISOU	289	HG23	VAL	A	18	7050	6970	4470	180	390	-360	H0
ATOM	290	N	ILE	A	19	-45.015	-18.696	3.637	1.00	44.82	N0	
ANISOU	290	N	ILE	A	19	6380	6270	4380	-260	480	-590	N0
ATOM	291	CA	ILE	A	19	-44.533	-20.012	4.155	1.00	44.43	C0	
ANISOU	291	CA	ILE	A	19	6360	6080	4440	-380	550	-650	C0
ATOM	292	C	ILE	A	19	-44.298	-20.944	2.962	1.00	45.49	C0	
ANISOU	292	C	ILE	A	19	6560	6200	4520	-460	610	-740	C0
ATOM	293	O	ILE	A	19	-45.168	-21.092	2.105	1.00	45.95	O0	
ANISOU	293	O	ILE	A	19	6600	6410	4450	-510	560	-820	O0

ATOM 294 CB ILE A 19	-45.511	-20.593	5.202	1.00	43.87	C0	
ANISOU 294 CB ILE A 19	6200	6060	4410	-460	520	-680	C0
ATOM 295 CG1 ILE A 19	-44.895	-21.786	5.937	1.00	43.98	C0	
ANISOU 295 CG1 ILE A 19	6260	5900	4550	-540	600	-690	C0
ATOM 296 CG2 ILE A 19	-46.859	-20.944	4.584	1.00	45.09	C0	
ANISOU 296 CG2 ILE A 19	6290	6420	4430	-540	460	-770	C0
ATOM 297 CD1 ILE A 19	-45.715	-22.293	7.112	1.00	43.68	C0	
ANISOU 297 CD1 ILE A 19	6160	5890	4550	-620	590	-700	C0
ATOM 298 H ILE A 19	-45.857	-18.484	3.910	1.00	45.29	H0	
ANISOU 298 H ILE A 19	6380	6430	4400	-260	430	-600	H0
ATOM 299 HA ILE A 19	-43.682	-19.861	4.598	1.00	43.66	H0	
ANISOU 299 HA ILE A 19	6290	5870	4430	-340	600	-600	H0
ATOM 300 HB ILE A 19	-45.670	-19.886	5.875	1.00	43.48	H0	
ANISOU 300 HB ILE A 19	6110	6040	4380	-390	490	-620	H0
ATOM 301 HG12 ILE A 19	-44.778	-22.521	5.299	1.00	44.48	H0	
ANISOU 301 HG12 ILE A 19	6370	5940	4590	-610	650	-760	H0
ATOM 302 HG13 ILE A 19	-44.007	-21.529	6.262	1.00	43.13	H0	
ANISOU 302 HG13 ILE A 19	6190	5690	4510	-480	640	-630	H0
ATOM 303 HG21 ILE A 19	-47.102	-20.274	3.924	1.00	45.48	H0	
ANISOU 303 HG21 ILE A 19	6320	6570	4390	-480	420	-760	H0
ATOM 304 HG22 ILE A 19	-47.538	-20.971	5.280	1.00	45.11	H0	
ANISOU 304 HG22 ILE A 19	6220	6480	4440	-570	430	-780	H0
ATOM 305 HG23 ILE A 19	-46.804	-21.815	4.154	1.00	45.73	H0	
ANISOU 305 HG23 ILE A 19	6400	6460	4510	-640	500	-850	H0
ATOM 306 HD11 ILE A 19	-45.819	-21.582	7.768	1.00	43.15	H0	
ANISOU 306 HD11 ILE A 19	6040	5850	4500	-550	550	-640	H0
ATOM 307 HD12 ILE A 19	-45.259	-23.047	7.522	1.00	43.71	H0	
ANISOU 307 HD12 ILE A 19	6210	5770	4630	-660	650	-700	H0
ATOM 308 HD13 ILE A 19	-46.592	-22.577	6.801	1.00	44.54	H0	
ANISOU 308 HD13 ILE A 19	6220	6110	4590	-690	560	-770	H0
ATOM 309 N PRO A 20	-43.096	-21.554	2.830	1.00	45.24	N0	
ANISOU 309 N PRO A 20	6610	6000	4580	-480	710	-750	N0
ATOM 310 CA PRO A 20	-42.793	-22.429	1.695	1.00	47.42	C0	
ANISOU 310 CA PRO A 20	6970	6240	4810	-550	770	-850	C0
ATOM 311 C PRO A 20	-43.269	-23.882	1.865	1.00	48.75	C0	
ANISOU 311 C PRO A 20	7160	6360	5000	-700	820	-950	C0
ATOM 312 O PRO A 20	-42.441	-24.770	1.951	1.00	48.89	O0	
ANISOU 312 O PRO A 20	7250	6210	5110	-720	920	-980	O0
ATOM 313 CB PRO A 20	-41.260	-22.343	1.640	1.00	46.46	C0	
ANISOU 313 CB PRO A 20	6920	5960	4780	-480	860	-800	C0
ATOM 314 CG PRO A 20	-40.860	-22.240	3.093	1.00	45.23	C0	
ANISOU 314 CG PRO A 20	6720	5700	4760	-430	860	-710	C0
ATOM 315 CD PRO A 20	-41.938	-21.375	3.718	1.00	44.55	C0	
ANISOU 315 CD PRO A 20	6550	5750	4630	-410	760	-670	C0
ATOM 316 HA PRO A 20	-43.173	-22.041	0.868	1.00	47.76	H0	
ANISOU 316 HA PRO A 20	7010	6400	4740	-550	740	-870	H0
ATOM 317 HB2 PRO A 20	-40.871	-23.140	1.223	1.00	47.08	H0	
ANISOU 317 HB2 PRO A 20	7050	5960	4870	-530	930	-860	H0
ATOM 318 HB3 PRO A 20	-40.970	-21.550	1.141	1.00	46.41	H0	
ANISOU 318 HB3 PRO A 20	6920	5990	4720	-420	850	-760	H0
ATOM 319 HG2 PRO A 20	-40.836	-23.124	3.513	1.00	45.40	H0	
ANISOU 319 HG2 PRO A 20	6750	5650	4840	-480	900	-740	H0
ATOM 320 HG3 PRO A 20	-39.981	-21.820	3.185	1.00	44.73	H0	
ANISOU 320 HG3 PRO A 20	6670	5580	4750	-370	890	-660	H0

ATOM	321	HD2 PRO A 20	-42.144	-21.672	4.624	1.00	44.19	H0	
ANISOU	321	HD2 PRO A 20	6460	5680	4650	-430	750	-650	H0
ATOM	322	HD3 PRO A 20	-41.662	-20.441	3.745	1.00	44.03	H0	
ANISOU	322	HD3 PRO A 20	6470	5700	4550	-330	740	-600	H0
ATOM	323	N THR A 21	-44.589	-24.090	1.888	1.00	50.58	N0	
ANISOU	323	N THR A 21	7320	6750	5150	-790	750	-1020	N0
ATOM	324	CA THR A 21	-45.232	-25.427	1.950	1.00	52.87	C0	
ANISOU	324	CA THR A 21	7630	7020	5440	-970	800	-1140	C0
ATOM	325	C THR A 21	-45.235	-26.037	0.546	1.00	56.12	C0	
ANISOU	325	C THR A 21	8110	7460	5750	-1060	840	-1270	C0
ATOM	326	O THR A 21	-45.308	-25.261	-0.433	1.00	55.47	O0	
ANISOU	326	O THR A 21	8010	7520	5540	-1000	790	-1270	O0
ATOM	327	CB THR A 21	-46.672	-25.365	2.480	1.00	53.11	C0	
ANISOU	327	CB THR A 21	7540	7230	5410	-1050	710	-1170	C0
ATOM	328	OG1 THR A 21	-47.379	-24.407	1.692	1.00	53.94	O0	
ANISOU	328	OG1 THR A 21	7560	7570	5370	-990	610	-1180	O0
ATOM	329	CG2 THR A 21	-46.765	-25.007	3.948	1.00	51.85	C0	
ANISOU	329	CG2 THR A 21	7320	7030	5360	-990	690	-1070	C0
ATOM	330	H THR A 21	-45.198	-23.412	1.860	1.00	50.54	H0	
ANISOU	330	H THR A 21	7250	6870	5080	-760	680	-1000	H0
ATOM	331	HA THR A 21	-44.698	-26.000	2.546	1.00	52.67	H0	
ANISOU	331	HA THR A 21	7650	6840	5520	-980	860	-1120	H0
ATOM	332	HB THR A 21	-47.086	-26.250	2.345	1.00	54.16	H0	
ANISOU	332	HB THR A 21	7690	7360	5530	-1180	750	-1270	H0
ATOM	333	HG21 THR A 21	-46.296	-25.678	4.477	1.00	51.73	H0	
ANISOU	333	HG21 THR A 21	7360	6860	5440	-1020	750	-1060	H0
ATOM	334	HG22 THR A 21	-47.700	-24.979	4.218	1.00	52.27	H0	
ANISOU	334	HG22 THR A 21	7290	7210	5370	-1050	640	-1100	H0
ATOM	335	HG23 THR A 21	-46.358	-24.135	4.098	1.00	51.01	H0	
ANISOU	335	HG23 THR A 21	7190	6920	5270	-870	650	-990	H0
ATOM	336	N GLN A 22	-45.161	-27.369	0.475	1.00	59.56	N0	
ANISOU	336	N GLN A 22	8630	7770	6230	-1200	940	-1370	N0
ATOM	337	CA GLN A 22	-45.390	-28.174	-0.753	1.00	64.49	C0	
ANISOU	337	CA GLN A 22	9330	8430	6740	-1340	990	-1530	C0
ATOM	338	C GLN A 22	-46.786	-28.799	-0.649	1.00	67.74	C0	
ANISOU	338	C GLN A 22	9680	8990	7070	-1530	960	-1660	C0
ATOM	339	O GLN A 22	-47.021	-29.531	0.332	1.00	68.44	O0	
ANISOU	339	O GLN A 22	9780	8960	7260	-1620	1010	-1660	O0
ATOM	340	CB GLN A 22	-44.304	-29.244	-0.911	1.00	65.14	C0	
ANISOU	340	CB GLN A 22	9570	8250	6930	-1360	1150	-1580	C0
ATOM	341	CG GLN A 22	-42.910	-28.674	-1.156	1.00	64.47	C0	
ANISOU	341	CG GLN A 22	9530	8050	6910	-1180	1190	-1480	C0
ATOM	342	CD GLN A 22	-41.974	-29.648	-1.840	1.00	66.08	C0	
ANISOU	342	CD GLN A 22	9880	8070	7150	-1200	1330	-1560	C0
ATOM	343	OE1 GLN A 22	-42.344	-30.342	-2.789	1.00	67.28	O0	
ANISOU	343	OE1 GLN A 22	10100	8260	7210	-1340	1380	-1710	O0
ATOM	344	NE2 GLN A 22	-40.738	-29.704	-1.367	1.00	65.22	N0	
ANISOU	344	NE2 GLN A 22	9820	7780	7180	-1070	1410	-1470	N0
ATOM	345	H GLN A 22	-44.959	-27.879	1.202	1.00	59.46	H0	
ANISOU	345	H GLN A 22	8650	7630	6310	-1220	990	-1350	H0
ATOM	346	HA GLN A 22	-45.365	-27.575	-1.533	1.00	64.36	H0	
ANISOU	346	HA GLN A 22	9300	8530	6630	-1290	950	-1530	H0
ATOM	347	HB2 GLN A 22	-44.288	-29.792	-0.099	1.00	65.05	H0	
ANISOU	347	HB2 GLN A 22	9580	8120	7010	-1390	1190	-1560	H0

ATOM	348	HB3	GLN	A	22	-44.551	-29.826	-1.659	1.00	66.39	H0	
ANISOU	348	HB3	GLN	A	22	9780	8430	7020	-1470	1190	-1690	H0
ATOM	349	HG2	GLN	A	22	-42.987	-27.868	-1.709	1.00	64.33	H0	
ANISOU	349	HG2	GLN	A	22	9470	8170	6800	-1130	1130	-1460	H0
ATOM	350	HG3	GLN	A	22	-42.519	-28.408	-0.296	1.00	63.53	H0	
ANISOU	350	HG3	GLN	A	22	9390	7860	6890	-1100	1180	-1380	H0
ATOM	351	HE21	GLN	A	22	-40.250	-30.431	-1.492	1.00	65.88	H0	
ANISOU	351	HE21	GLN	A	22	9980	7730	7320	-1080	1500	-1510	H0
ATOM	352	HE22	GLN	A	22	-40.399	-29.015	-0.928	1.00	64.22	H0	
ANISOU	352	HE22	GLN	A	22	9630	7670	7090	-970	1370	-1370	H0
ATOM	353	N	ARG	A	23	-47.669	-28.493	-1.609	1.00	71.17	N0	
ANISOU	353	N	ARG	A	23	10040	9680	7330	-1600	880	-1740	N0
ATOM	354	CA	ARG	A	23	-49.088	-28.951	-1.671	1.00	73.32	C0	
ANISOU	354	CA	ARG	A	23	10210	10160	7490	-1790	830	-1880	C0
ATOM	355	C	ARG	A	23	-49.797	-28.610	-0.350	1.00	72.57	C0	
ANISOU	355	C	ARG	A	23	9990	10120	7460	-1770	760	-1800	C0
ATOM	356	O	ARG	A	23	-49.764	-27.430	0.054	1.00	71.17	O0	
ANISOU	356	O	ARG	A	23	9720	10020	7290	-1590	670	-1660	O0
ATOM	357	CB	ARG	A	23	-49.153	-30.445	-2.011	1.00	76.26	C0	
ANISOU	357	CB	ARG	A	23	10700	10410	7870	-2020	960	-2050	C0
ATOM	358	CG	ARG	A	23	-48.849	-30.777	-3.466	1.00	78.50	C0	
ANISOU	358	CG	ARG	A	23	11070	10720	8030	-2080	1000	-2180	C0
ATOM	359	CD	ARG	A	23	-47.437	-31.280	-3.713	1.00	78.58	C0	
ANISOU	359	CD	ARG	A	23	11270	10440	8150	-2010	1140	-2160	C0
ATOM	360	NE	ARG	A	23	-47.349	-32.061	-4.946	1.00	80.45	N0	
ANISOU	360	NE	ARG	A	23	11610	10670	8280	-2150	1220	-2330	N0
ATOM	361	CZ	ARG	A	23	-47.775	-33.317	-5.095	1.00	81.96	C0	
ANISOU	361	CZ	ARG	A	23	11890	10790	8460	-2390	1330	-2510	C0
ATOM	362	NH1	ARG	A	23	-47.637	-33.921	-6.263	1.00	83.63	N0	
ANISOU	362	NH1	ARG	A	23	12200	11000	8570	-2500	1400	-2670	N0
ATOM	363	NH2	ARG	A	23	-48.341	-33.965	-4.090	1.00	82.24	N0	
ANISOU	363	NH2	ARG	A	23	11920	10740	8590	-2510	1360	-2530	N0
ATOM	364	H	ARG	A	23	-47.443	-27.963	-2.314	1.00	70.74	H0	
ANISOU	364	H	ARG	A	23	9980	9700	7200	-1530	840	-1730	H0
ATOM	365	HA	ARG	A	23	-49.533	-28.450	-2.393	1.00	74.01	H0	
ANISOU	365	HA	ARG	A	23	10230	10450	7440	-1780	750	-1900	H0
ATOM	366	HB2	ARG	A	23	-48.523	-30.926	-1.436	1.00	75.65	H0	
ANISOU	366	HB2	ARG	A	23	10720	10100	7920	-2010	1040	-2010	H0
ATOM	367	HB3	ARG	A	23	-50.054	-30.772	-1.808	1.00	77.03	H0	
ANISOU	367	HB3	ARG	A	23	10730	10620	7920	-2160	930	-2130	H0
ATOM	368	HG2	ARG	A	23	-49.482	-31.461	-3.772	1.00	79.84	H0	
ANISOU	368	HG2	ARG	A	23	11240	10960	8130	-2260	1020	-2310	H0
ATOM	369	HG3	ARG	A	23	-48.994	-29.976	-4.012	1.00	78.24	H0	
ANISOU	369	HG3	ARG	A	23	10970	10870	7890	-2000	910	-2140	H0
ATOM	370	HD2	ARG	A	23	-46.828	-30.513	-3.774	1.00	77.36	H0	
ANISOU	370	HD2	ARG	A	23	11100	10270	8020	-1850	1110	-2050	H0
ATOM	371	HD3	ARG	A	23	-47.149	-31.833	-2.957	1.00	78.18	H0	
ANISOU	371	HD3	ARG	A	23	11280	10200	8230	-2030	1220	-2130	H0
ATOM	372	HE	ARG	A	23	-46.983	-31.678	-5.639	1.00	80.35	H0	
ANISOU	372	HE	ARG	A	23	11610	10710	8210	-2090	1210	-2330	H0
ATOM	373	HH11	ARG	A	23	-47.264	-33.496	-6.936	1.00	83.53	H0	
ANISOU	373	HH11	ARG	A	23	12200	11050	8500	-2430	1380	-2660	H0
ATOM	374	HH12	ARG	A	23	-47.919	-34.747	-6.365	1.00	84.91	H0	
ANISOU	374	HH12	ARG	A	23	12430	11110	8730	-2660	1480	-2790	H0

ATOM	375	HH21	ARG	A	23	-48.439	-33.576	-3.308	1.00	81.18	H0	
ANISOU	375	HH21	ARG	A	23	11720	10600	8520	-2430	1320	-2420	H0
ATOM	376	HH22	ARG	A	23	-48.618	-34.794	-4.205	1.00	83.53	H0	
ANISOU	376	HH22	ARG	A	23	12160	10840	8740	-2670	1440	-2640	H0
ATOM	377	N	ASP	A	24	-50.393	-29.607	0.311	1.00	73.90	N0	
ANISOU	377	N	ASP	A	24	10160	10240	7680	-1960	820	-1880	N0
ATOM	378	CA	ASP	A	24	-51.253	-29.431	1.513	1.00	73.93	C0	
ANISOU	378	CA	ASP	A	24	10040	10330	7720	-1990	770	-1840	C0
ATOM	379	C	ASP	A	24	-50.428	-29.638	2.791	1.00	70.42	C0	
ANISOU	379	C	ASP	A	24	9690	9600	7470	-1910	850	-1710	C0
ATOM	380	O	ASP	A	24	-51.000	-29.476	3.889	1.00	70.80	O0	
ANISOU	380	O	ASP	A	24	9650	9690	7560	-1920	820	-1660	O0
ATOM	381	CB	ASP	A	24	-52.443	-30.395	1.461	1.00	77.72	C0	
ANISOU	381	CB	ASP	A	24	10470	10930	8120	-2270	800	-2010	C0
ATOM	382	CG	ASP	A	24	-52.047	-31.838	1.193	1.00	80.72	C0	
ANISOU	382	CG	ASP	A	24	11050	11080	8550	-2460	960	-2140	C0
ATOM	383	OD1	ASP	A	24	-51.246	-32.383	1.980	1.00	81.83	O0	
ANISOU	383	OD1	ASP	A	24	11330	10920	8850	-2430	1070	-2060	O0
ATOM	384	OD2	ASP	A	24	-52.526	-32.401	0.185	1.00	83.56	O0	
ANISOU	384	OD2	ASP	A	24	11410	11550	8780	-2640	980	-2310	O0
ATOM	385	H	ASP	A	24	-50.274	-30.477	0.087	1.00	74.77	H0	
ANISOU	385	H	ASP	A	24	10370	10240	7800	-2080	910	-1970	H0
ATOM	386	HA	ASP	A	24	-51.603	-28.509	1.512	1.00	73.29	H0	
ANISOU	386	HA	ASP	A	24	9850	10410	7580	-1880	670	-1780	H0
ATOM	387	HB2	ASP	A	24	-52.922	-30.360	2.314	1.00	77.45	H0	
ANISOU	387	HB2	ASP	A	24	10370	10930	8130	-2290	790	-1980	H0
ATOM	388	HB3	ASP	A	24	-53.056	-30.106	0.754	1.00	78.56	H0	
ANISOU	388	HB3	ASP	A	24	10490	11270	8090	-2300	730	-2090	H0
ATOM	389	N	ARG	A	25	-49.134	-29.955	2.653	1.00	67.29	N0	
ANISOU	389	N	ARG	A	25	9450	8950	7170	-1820	940	-1660	N0
ATOM	390	CA	ARG	A	25	-48.276	-30.514	3.733	1.00	64.66	C0	
ANISOU	390	CA	ARG	A	25	9230	8330	7010	-1770	1040	-1560	C0
ATOM	391	C	ARG	A	25	-47.540	-29.400	4.473	1.00	58.02	C0	
ANISOU	391	C	ARG	A	25	8340	7460	6250	-1540	980	-1380	C0
ATOM	392	O	ARG	A	25	-47.252	-28.348	3.906	1.00	56.20	O0	
ANISOU	392	O	ARG	A	25	8050	7340	5970	-1410	900	-1330	O0
ATOM	393	CB	ARG	A	25	-47.266	-31.502	3.143	1.00	67.79	C0	
ANISOU	393	CB	ARG	A	25	9820	8480	7460	-1790	1180	-1610	C0
ATOM	394	CG	ARG	A	25	-47.893	-32.705	2.456	1.00	71.95	C0	
ANISOU	394	CG	ARG	A	25	10430	8990	7920	-2040	1270	-1800	C0
ATOM	395	CD	ARG	A	25	-46.820	-33.535	1.783	1.00	75.35	C0	
ANISOU	395	CD	ARG	A	25	11050	9170	8410	-2020	1410	-1850	C0
ATOM	396	NE	ARG	A	25	-45.864	-34.062	2.753	1.00	77.23	N0	
ANISOU	396	NE	ARG	A	25	11410	9120	8810	-1920	1510	-1740	N0
ATOM	397	CZ	ARG	A	25	-44.551	-34.204	2.552	1.00	79.10	C0	
ANISOU	397	CZ	ARG	A	25	11750	9170	9140	-1760	1580	-1680	C0
ATOM	398	NH1	ARG	A	25	-43.790	-34.699	3.515	1.00	79.39	N0	
ANISOU	398	NH1	ARG	A	25	11870	8970	9320	-1660	1660	-1570	N0
ATOM	399	NH2	ARG	A	25	-43.993	-33.844	1.406	1.00	79.73	N0	
ANISOU	399	NH2	ARG	A	25	11840	9300	9160	-1690	1580	-1720	N0
ATOM	400	H	ARG	A	25	-48.685	-29.834	1.872	1.00	67.54	H0	
ANISOU	400	H	ARG	A	25	9520	8970	7160	-1780	950	-1680	H0
ATOM	401	HA	ARG	A	25	-48.854	-30.992	4.369	1.00	64.96	H0	
ANISOU	401	HA	ARG	A	25	9260	8360	7070	-1880	1060	-1590	H0

ATOM	402	HB2	ARG	A	25	-46.706	-31.025	2.496	1.00	67.25	H0	
ANISOU	402	HB2	ARG	A	25	9750	8430	7370	-1700	1160	-1590	H0
ATOM	403	HB3	ARG	A	25	-46.685	-31.819	3.865	1.00	67.18	H0	
ANISOU	403	HB3	ARG	A	25	9810	8220	7500	-1740	1240	-1540	H0
ATOM	404	HG2	ARG	A	25	-48.365	-33.255	3.117	1.00	72.59	H0	
ANISOU	404	HG2	ARG	A	25	10530	9020	8040	-2140	1310	-1820	H0
ATOM	405	HG3	ARG	A	25	-48.541	-32.404	1.784	1.00	72.65	H0	
ANISOU	405	HG3	ARG	A	25	10440	9270	7890	-2100	1210	-1880	H0
ATOM	406	HD2	ARG	A	25	-47.240	-34.281	1.304	1.00	76.73	H0	
ANISOU	406	HD2	ARG	A	25	11280	9340	8530	-2190	1470	-1980	H0
ATOM	407	HD3	ARG	A	25	-46.352	-32.979	1.126	1.00	74.81	H0	
ANISOU	407	HD3	ARG	A	25	10960	9160	8300	-1920	1380	-1840	H0
ATOM	408	HE	ARG	A	25	-46.177	-34.315	3.527	1.00	77.32	H0	
ANISOU	408	HE	ARG	A	25	11420	9090	8870	-1960	1520	-1710	H0
ATOM	409	HH11	ARG	A	25	-44.150	-34.937	4.281	1.00	79.11	H0	
ANISOU	409	HH11	ARG	A	25	11840	8900	9320	-1700	1670	-1530	H0
ATOM	410	HH12	ARG	A	25	-42.924	-34.790	3.388	1.00	78.92	H0	
ANISOU	410	HH12	ARG	A	25	11870	8800	9310	-1550	1710	-1530	H0
ATOM	411	HH21	ARG	A	25	-44.483	-33.516	0.755	1.00	79.65	H0	
ANISOU	411	HH21	ARG	A	25	11770	9450	9050	-1750	1530	-1790	H0
ATOM	412	HH22	ARG	A	25	-43.125	-33.944	1.292	1.00	79.21	H0	
ANISOU	412	HH22	ARG	A	25	11830	9110	9150	-1590	1640	-1680	H0
ATOM	413	N	PRO	A	26	-47.193	-29.612	5.762	1.00	53.25	N0	
ANISOU	413	N	PRO	A	26	7760	6700	5770	-1500	1010	-1280	N0
ATOM	414	CA	PRO	A	26	-46.496	-28.598	6.549	1.00	49.78	C0	
ANISOU	414	CA	PRO	A	26	7270	6240	5400	-1300	960	-1120	C0
ATOM	415	C	PRO	A	26	-44.990	-28.495	6.261	1.00	47.03	C0	
ANISOU	415	C	PRO	A	26	7010	5720	5130	-1150	1010	-1050	C0
ATOM	416	O	PRO	A	26	-44.403	-29.446	5.796	1.00	47.19	O0	
ANISOU	416	O	PRO	A	26	7160	5580	5190	-1190	1120	-1100	O0
ATOM	417	CB	PRO	A	26	-46.716	-29.063	8.000	1.00	49.87	C0	
ANISOU	417	CB	PRO	A	26	7280	6160	5500	-1340	990	-1060	C0
ATOM	418	CG	PRO	A	26	-46.873	-30.569	7.900	1.00	51.68	C0	
ANISOU	418	CG	PRO	A	26	7650	6230	5750	-1510	1110	-1150	C0
ATOM	419	CD	PRO	A	26	-47.485	-30.827	6.538	1.00	53.61	C0	
ANISOU	419	CD	PRO	A	26	7890	6600	5880	-1650	1110	-1310	C0
ATOM	420	HA	PRO	A	26	-46.931	-27.719	6.415	1.00	49.30	H0	
ANISOU	420	HA	PRO	A	26	7110	6340	5280	-1260	870	-1100	H0
ATOM	421	HB2	PRO	A	26	-45.948	-28.831	8.564	1.00	49.00	H0	
ANISOU	421	HB2	PRO	A	26	7190	5950	5470	-1230	1000	-960	H0
ATOM	422	HB3	PRO	A	26	-47.521	-28.655	8.380	1.00	49.74	H0	
ANISOU	422	HB3	PRO	A	26	7170	6280	5440	-1370	930	-1060	H0
ATOM	423	HG2	PRO	A	26	-46.004	-31.013	7.977	1.00	51.75	H0	
ANISOU	423	HG2	PRO	A	26	7760	6070	5840	-1450	1180	-1110	H0
ATOM	424	HG3	PRO	A	26	-47.459	-30.903	8.610	1.00	52.12	H0	
ANISOU	424	HG3	PRO	A	26	7690	6290	5820	-1600	1130	-1150	H0
ATOM	425	HD2	PRO	A	26	-47.083	-31.611	6.120	1.00	54.43	H0	
ANISOU	425	HD2	PRO	A	26	8110	6560	6010	-1700	1200	-1370	H0
ATOM	426	HD3	PRO	A	26	-48.446	-30.969	6.612	1.00	54.32	H0	
ANISOU	426	HD3	PRO	A	26	7920	6810	5910	-1770	1090	-1380	H0
ATOM	427	N	VAL	A	27	-44.405	-27.336	6.562	1.00	44.42	N0	
ANISOU	427	N	VAL	A	27	6620	5430	4830	-990	950	-940	N0
ATOM	428	CA	VAL	A	27	-42.928	-27.150	6.667	1.00	43.35	C0	
ANISOU	428	CA	VAL	A	27	6540	5150	4790	-840	1000	-850	C0

ATOM	429	C	VAL A 27	-42.477	-27.855	7.948	1.00	42.74	C0	
ANISOU	429	C	VAL A 27	6500	4910	4830	-820	1050	-770	C0
ATOM	430	O	VAL A 27	-42.898	-27.421	9.038	1.00	42.12	O0	
ANISOU	430	O	VAL A 27	6350	4880	4770	-810	990	-700	O0
ATOM	431	CB	VAL A 27	-42.531	-25.661	6.672	1.00	41.54	C0	
ANISOU	431	CB	VAL A 27	6220	5020	4540	-700	920	-760	C0
ATOM	432	CG1	VAL A 27	-41.040	-25.480	6.893	1.00	40.74	C0	
ANISOU	432	CG1	VAL A 27	6160	4790	4530	-580	970	-680	C0
ATOM	433	CG2	VAL A 27	-42.974	-24.959	5.400	1.00	42.48	C0	
ANISOU	433	CG2	VAL A 27	6320	5290	4530	-710	870	-820	C0
ATOM	434	H	VAL A 27	-44.881	-26.579	6.735	1.00	44.17	H0	
ANISOU	434	H	VAL A 27	6500	5520	4760	-960	880	-910	H0
ATOM	435	HA	VAL A 27	-42.507	-27.583	5.904	1.00	43.82	H0	
ANISOU	435	HA	VAL A 27	6660	5150	4840	-860	1050	-900	H0
ATOM	436	HB	VAL A 27	-43.001	-25.234	7.430	1.00	41.23	H0	
ANISOU	436	HB	VAL A 27	6120	5040	4510	-690	860	-720	H0
ATOM	437	HG11	VAL A 27	-40.830	-25.619	7.833	1.00	40.44	H0	
ANISOU	437	HG11	VAL A 27	6110	4690	4560	-550	970	-620	H0
ATOM	438	HG12	VAL A 27	-40.780	-24.578	6.635	1.00	40.24	H0	
ANISOU	438	HG12	VAL A 27	6060	4780	4450	-510	930	-650	H0
ATOM	439	HG13	VAL A 27	-40.551	-26.124	6.352	1.00	41.39	H0	
ANISOU	439	HG13	VAL A 27	6310	4780	4630	-590	1040	-720	H0
ATOM	440	HG21	VAL A 27	-42.604	-25.421	4.628	1.00	42.88	H0	
ANISOU	440	HG21	VAL A 27	6430	5290	4570	-730	920	-870	H0
ATOM	441	HG22	VAL A 27	-42.658	-24.039	5.408	1.00	41.59	H0	
ANISOU	441	HG22	VAL A 27	6170	5220	4410	-620	830	-760	H0
ATOM	442	HG23	VAL A 27	-43.945	-24.966	5.346	1.00	42.70	H0	
ANISOU	442	HG23	VAL A 27	6300	5430	4490	-770	820	-860	H0
ATOM	443	N	ALA A 28	-41.680	-28.917	7.823	1.00	43.24	N0	
ANISOU	443	N	ALA A 28	6680	4780	4960	-820	1160	-790	N0
ATOM	444	CA	ALA A 28	-41.115	-29.664	8.968	1.00	43.06	C0	
ANISOU	444	CA	ALA A 28	6720	4590	5050	-770	1220	-700	C0
ATOM	445	C	ALA A 28	-39.967	-28.843	9.559	1.00	41.86	C0	
ANISOU	445	C	ALA A 28	6510	4440	4960	-590	1190	-580	C0
ATOM	446	O	ALA A 28	-38.891	-28.787	8.934	1.00	42.05	O0	
ANISOU	446	O	ALA A 28	6550	4410	5020	-490	1230	-570	O0
ATOM	447	CB	ALA A 28	-40.677	-31.045	8.541	1.00	44.22	C0	
ANISOU	447	CB	ALA A 28	7030	4530	5240	-800	1360	-760	C0
ATOM	448	H	ALA A 28	-41.422	-29.260	7.019	1.00	43.82	H0	
ANISOU	448	H	ALA A 28	6810	4810	5020	-830	1210	-850	H0
ATOM	449	HA	ALA A 28	-41.814	-29.755	9.653	1.00	43.07	H0	
ANISOU	449	HA	ALA A 28	6700	4620	5040	-830	1200	-690	H0
ATOM	450	HB1	ALA A 28	-40.299	-31.516	9.302	1.00	44.55	H0	
ANISOU	450	HB1	ALA A 28	7110	4460	5350	-750	1400	-700	H0
ATOM	451	HB2	ALA A 28	-41.443	-31.539	8.203	1.00	45.14	H0	
ANISOU	451	HB2	ALA A 28	7180	4660	5310	-930	1380	-850	H0
ATOM	452	HB3	ALA A 28	-40.006	-30.972	7.841	1.00	44.40	H0	
ANISOU	452	HB3	ALA A 28	7070	4530	5270	-740	1390	-780	H0
ATOM	453	N	VAL A 29	-40.213	-28.188	10.696	1.00	40.82	N0	
ANISOU	453	N	VAL A 29	6290	4380	4840	-560	1110	-490	N0
ATOM	454	CA	VAL A 29	-39.201	-27.365	11.421	1.00	40.15	C0	
ANISOU	454	CA	VAL A 29	6130	4310	4810	-410	1070	-380	C0
ATOM	455	C	VAL A 29	-38.603	-28.217	12.549	1.00	41.36	C0	
ANISOU	455	C	VAL A 29	6330	4340	5050	-350	1120	-290	C0

ATOM	456	O	VAL A 29	-39.380	-28.839	13.308	1.00	41.25	OO	
ANISOU	456	O	VAL A 29	6350	4290	5030	-430	1130	-280	OO
ATOM	457	CB	VAL A 29	-39.811	-26.053	11.950	1.00	39.23	CO	
ANISOU	457	CB	VAL A 29	5890	4360	4650	-410	960	-340	CO
ATOM	458	CG1	VAL A 29	-38.781	-25.208	12.683	1.00	38.50	CO	
ANISOU	458	CG1	VAL A 29	5730	4290	4600	-280	930	-250	CO
ATOM	459	CG2	VAL A 29	-40.470	-25.247	10.841	1.00	39.14	CO	
ANISOU	459	CG2	VAL A 29	5850	4480	4540	-450	920	-420	CO
ATOM	460	H	VAL A 29	-41.027	-28.201	11.104	1.00	40.95	H0	
ANISOU	460	H	VAL A 29	6280	4450	4830	-630	1080	-500	H0
ATOM	461	HA	VAL A 29	-38.489	-27.139	10.797	1.00	40.21	H0	
ANISOU	461	HA	VAL A 29	6140	4310	4830	-350	1090	-390	H0
ATOM	462	HB	VAL A 29	-40.514	-26.298	12.600	1.00	39.35	H0	
ANISOU	462	HB	VAL A 29	5900	4390	4660	-460	950	-340	H0
ATOM	463	HG11	VAL A 29	-38.589	-25.607	13.549	1.00	38.59	H0	
ANISOU	463	HG11	VAL A 29	5750	4260	4650	-260	940	-190	H0
ATOM	464	HG12	VAL A 29	-39.130	-24.309	12.812	1.00	37.83	H0	
ANISOU	464	HG12	VAL A 29	5590	4300	4480	-280	870	-240	H0
ATOM	465	HG13	VAL A 29	-37.963	-25.165	12.158	1.00	38.54	H0	
ANISOU	465	HG13	VAL A 29	5750	4260	4630	-230	960	-250	H0
ATOM	466	HG21	VAL A 29	-39.827	-25.087	10.128	1.00	39.12	H0	
ANISOU	466	HG21	VAL A 29	5860	4460	4540	-410	940	-430	H0
ATOM	467	HG22	VAL A 29	-40.777	-24.395	11.196	1.00	38.46	H0	
ANISOU	467	HG22	VAL A 29	5690	4490	4430	-430	860	-390	H0
ATOM	468	HG23	VAL A 29	-41.230	-25.741	10.486	1.00	39.70	H0	
ANISOU	468	HG23	VAL A 29	5940	4570	4570	-540	930	-480	H0
ATOM	469	N	SER A 30	-37.272	-28.284	12.618	1.00	42.32	N0	
ANISOU	469	N	SER A 30	6450	4390	5230	-210	1150	-230	N0
ATOM	470	CA	SER A 30	-36.506	-28.855	13.753	1.00	43.83	CO	
ANISOU	470	CA	SER A 30	6660	4500	5500	-110	1180	-120	CO
ATOM	471	C	SER A 30	-36.125	-27.707	14.687	1.00	43.89	CO	
ANISOU	471	C	SER A 30	6530	4640	5500	-40	1080	-40	CO
ATOM	472	O	SER A 30	-35.637	-26.675	14.184	1.00	43.29	OO	
ANISOU	472	O	SER A 30	6380	4660	5410	0	1050	-60	OO
ATOM	473	CB	SER A 30	-35.292	-29.609	13.299	1.00	44.68	CO	
ANISOU	473	CB	SER A 30	6830	4480	5670	10	1270	-110	CO
ATOM	474	OG	SER A 30	-35.656	-30.653	12.418	1.00	46.91	OO	
ANISOU	474	OG	SER A 30	7250	4630	5950	-60	1370	-200	OO
ATOM	475	H	SER A 30	-36.725	-27.977	11.956	1.00	42.24	H0	
ANISOU	475	H	SER A 30	6430	4400	5220	-170	1170	-250	H0
ATOM	476	HA	SER A 30	-37.100	-29.479	14.245	1.00	44.32	H0	
ANISOU	476	HA	SER A 30	6780	4500	5560	-160	1200	-110	H0
ATOM	477	HB2	SER A 30	-34.677	-28.994	12.846	1.00	44.53	H0	
ANISOU	477	HB2	SER A 30	6750	4530	5650	70	1250	-120	H0
ATOM	478	HB3	SER A 30	-34.829	-29.985	14.082	1.00	45.36	H0	
ANISOU	478	HB3	SER A 30	6920	4520	5790	100	1280	-30	H0
ATOM	479	N	VAL A 31	-36.382	-27.876	15.983	1.00	44.64	N0	
ANISOU	479	N	VAL A 31	6620	4740	5600	-30	1050	40	N0
ATOM	480	CA	VAL A 31	-36.075	-26.875	17.043	1.00	45.17	CO	
ANISOU	480	CA	VAL A 31	6560	4940	5660	20	970	120	CO
ATOM	481	C	VAL A 31	-35.383	-27.611	18.186	1.00	46.80	CO	
ANISOU	481	C	VAL A 31	6790	5090	5900	120	980	230	CO
ATOM	482	O	VAL A 31	-35.946	-28.614	18.671	1.00	49.59	OO	
ANISOU	482	O	VAL A 31	7240	5340	6260	90	1030	260	OO

ATOM	483	CB	VAL A 31	-37.338	-26.151	17.543	1.00	44.87	C0	
ANISOU	483	CB	VAL A 31	6480	5010	5560	-90	900	100	C0
ATOM	484	CG1	VAL A 31	-36.983	-25.014	18.485	1.00	44.66	C0	
ANISOU	484	CG1	VAL A 31	6340	5110	5520	-40	820	150	C0
ATOM	485	CG2	VAL A 31	-38.192	-25.641	16.396	1.00	45.02	C0	
ANISOU	485	CG2	VAL A 31	6500	5080	5530	-180	890	-10	C0
ATOM	486	H	VAL A 31	-36.773	-28.632	16.307	1.00	45.42	H0	
ANISOU	486	H	VAL A 31	6790	4770	5710	-60	1090	50	H0
ATOM	487	HA	VAL A 31	-35.462	-26.215	16.679	1.00	44.71	H0	
ANISOU	487	HA	VAL A 31	6450	4940	5600	70	950	110	H0
ATOM	488	HB	VAL A 31	-37.875	-26.808	18.051	1.00	45.49	H0	
ANISOU	488	HB	VAL A 31	6610	5040	5640	-130	920	120	H0
ATOM	489	HG11	VAL A 31	-36.641	-25.377	19.320	1.00	44.83	H0	
ANISOU	489	HG11	VAL A 31	6360	5120	5560	0	820	220	H0
ATOM	490	HG12	VAL A 31	-37.777	-24.482	18.666	1.00	43.98	H0	
ANISOU	490	HG12	VAL A 31	6220	5090	5400	-100	780	130	H0
ATOM	491	HG13	VAL A 31	-36.303	-24.452	18.074	1.00	44.16	H0	
ANISOU	491	HG13	VAL A 31	6230	5080	5470	0	810	140	H0
ATOM	492	HG21	VAL A 31	-37.641	-25.116	15.789	1.00	44.53	H0	
ANISOU	492	HG21	VAL A 31	6410	5040	5470	-140	880	-30	H0
ATOM	493	HG22	VAL A 31	-38.909	-25.083	16.746	1.00	44.38	H0	
ANISOU	493	HG22	VAL A 31	6370	5080	5410	-230	840	-10	H0
ATOM	494	HG23	VAL A 31	-38.576	-26.395	15.915	1.00	45.46	H0	
ANISOU	494	HG23	VAL A 31	6620	5070	5580	-230	930	-50	H0
ATOM	495	N	SER A 32	-34.205	-27.143	18.586	1.00	47.03	N0	
ANISOU	495	N	SER A 32	6730	5190	5950	240	950	290	N0
ATOM	496	CA	SER A 32	-33.520	-27.579	19.826	1.00	48.73	C0	
ANISOU	496	CA	SER A 32	6920	5410	6180	350	940	410	C0
ATOM	497	C	SER A 32	-32.856	-26.367	20.475	1.00	47.47	C0	
ANISOU	497	C	SER A 32	6610	5430	6000	390	850	430	C0
ATOM	498	O	SER A 32	-32.253	-25.564	19.744	1.00	46.67	O0	
ANISOU	498	O	SER A 32	6430	5400	5910	400	850	380	O0
ATOM	499	CB	SER A 32	-32.532	-28.678	19.554	1.00	51.22	C0	
ANISOU	499	CB	SER A 32	7300	5600	6560	490	1020	450	C0
ATOM	500	OG	SER A 32	-31.422	-28.183	18.824	1.00	52.72	O0	
ANISOU	500	OG	SER A 32	7400	5860	6770	580	1020	420	O0
ATOM	501	H	SER A 32	-33.725	-26.522	18.122	1.00	46.77	H0	
ANISOU	501	H	SER A 32	6630	5210	5920	260	940	260	H0
ATOM	502	HA	SER A 32	-34.210	-27.923	20.449	1.00	48.82	H0	
ANISOU	502	HA	SER A 32	6980	5390	6170	310	930	440	H0
ATOM	503	HB2	SER A 32	-32.222	-29.058	20.407	1.00	52.00	H0	
ANISOU	503	HB2	SER A 32	7400	5700	6650	570	1010	540	H0
ATOM	504	HB3	SER A 32	-32.971	-29.393	19.042	1.00	51.89	H0	
ANISOU	504	HB3	SER A 32	7490	5570	6660	460	1080	420	H0
ATOM	505	N	LEU A 33	-32.994	-26.232	21.793	1.00	46.84	N0	
ANISOU	505	N	LEU A 33	6490	5420	5890	400	800	510	N0
ATOM	506	CA	LEU A 33	-32.257	-25.220	22.587	1.00	45.73	C0	
ANISOU	506	CA	LEU A 33	6200	5460	5720	440	720	540	C0
ATOM	507	C	LEU A 33	-30.924	-25.833	23.026	1.00	46.22	C0	
ANISOU	507	C	LEU A 33	6220	5540	5800	600	730	630	C0
ATOM	508	O	LEU A 33	-30.908	-27.022	23.395	1.00	47.75	O0	
ANISOU	508	O	LEU A 33	6500	5630	6010	680	770	710	O0
ATOM	509	CB	LEU A 33	-33.121	-24.770	23.768	1.00	45.28	C0	
ANISOU	509	CB	LEU A 33	6130	5480	5600	360	660	570	C0

ATOM 510 CG LEU A 33	-34.523	-24.294	23.395	1.00	44.50	C0
ANISOU 510 CG LEU A 33	6070	5360	5470	220	660	490
ATOM 511 CD1 LEU A 33	-35.179	-23.569	24.557	1.00	44.82	C0
ANISOU 511 CD1 LEU A 33	6060	5510	5450	150	600	510
ATOM 512 CD2 LEU A 33	-34.498	-23.405	22.166	1.00	44.10	C0
ANISOU 512 CD2 LEU A 33	5990	5330	5440	170	660	390
ATOM 513 H LEU A 33	-33.554	-26.754	22.286	1.00	47.16	H0
ANISOU 513 H LEU A 33	6590	5410	5910	380	810	550
ATOM 514 HA LEU A 33	-32.072	-24.449	22.009	1.00	45.08	H0
ANISOU 514 HA LEU A 33	6070	5420	5640	400	710	480
ATOM 515 HB2 LEU A 33	-33.201	-25.517	24.394	1.00	46.06	H0
ANISOU 515 HB2 LEU A 33	6280	5530	5690	400	670	640
ATOM 516 HB3 LEU A 33	-32.658	-24.043	24.231	1.00	45.12	H0
ANISOU 516 HB3 LEU A 33	6020	5570	5550	370	610	570
ATOM 517 HG LEU A 33	-35.069	-25.089	23.182	1.00	45.04	H0
ANISOU 517 HG LEU A 33	6230	5330	5550	190	700	490
ATOM 518 HD11 LEU A 33	-35.196	-24.152	25.336	1.00	45.20	H0
ANISOU 518 HD11 LEU A 33	6140	5550	5480	180	600	570
ATOM 519 HD12 LEU A 33	-36.089	-23.324	24.316	1.00	44.08	H0
ANISOU 519 HD12 LEU A 33	5990	5410	5340	70	600	460
ATOM 520 HD13 LEU A 33	-34.672	-22.765	24.766	1.00	44.26	H0
ANISOU 520 HD13 LEU A 33	5910	5540	5370	160	560	500
ATOM 521 HD21 LEU A 33	-33.730	-22.810	22.210	1.00	43.83	H0
ANISOU 521 HD21 LEU A 33	5880	5360	5400	210	640	390
ATOM 522 HD22 LEU A 33	-35.314	-22.876	22.129	1.00	43.35	H0
ANISOU 522 HD22 LEU A 33	5900	5260	5310	100	640	350
ATOM 523 HD23 LEU A 33	-34.434	-23.956	21.366	1.00	44.22	H0
ANISOU 523 HD23 LEU A 33	6060	5260	5480	190	710	370
ATOM 524 N LYS A 34	-29.841	-25.063	22.900	1.00	45.22	N0
ANISOU 524 N LYS A 34	5950	5550	5680	650	700	610
ATOM 525 CA LYS A 34	-28.490	-25.411	23.407	1.00	46.10	C0
ANISOU 525 CA LYS A 34	5970	5750	5800	810	680	680
ATOM 526 C LYS A 34	-28.124	-24.361	24.457	1.00	44.51	C0
ANISOU 526 C LYS A 34	5620	5760	5530	770	590	690
ATOM 527 O LYS A 34	-27.904	-23.200	24.081	1.00	42.80	O0
ANISOU 527 O LYS A 34	5310	5640	5310	680	580	600
ATOM 528 CB LYS A 34	-27.485	-25.471	22.254	1.00	47.95	C0
ANISOU 528 CB LYS A 34	6150	5980	6090	880	740	630
ATOM 529 CG LYS A 34	-26.230	-26.287	22.531	1.00	50.99	C0
ANISOU 529 CG LYS A 34	6470	6400	6500	1080	760	710
ATOM 530 CD LYS A 34	-26.393	-27.772	22.242	1.00	53.02	C0
ANISOU 530 CD LYS A 34	6890	6450	6800	1190	840	770
ATOM 531 CE LYS A 34	-25.109	-28.552	22.434	1.00	55.87	C0
ANISOU 531 CE LYS A 34	7190	6850	7190	1420	870	850
ATOM 532 NZ LYS A 34	-25.206	-29.923	21.877	1.00	57.73	N0
ANISOU 532 NZ LYS A 34	7600	6850	7480	1530	970	880
ATOM 533 H LYS A 34	-29.868	-24.254	22.483	1.00	44.61	H0
ANISOU 533 H LYS A 34	5830	5520	5600	580	690	540
ATOM 534 HA LYS A 34	-28.533	-26.294	23.840	1.00	47.03	H0
ANISOU 534 HA LYS A 34	6150	5800	5920	880	700	760
ATOM 535 HB2 LYS A 34	-27.936	-25.851	21.471	1.00	47.70	H0
ANISOU 535 HB2 LYS A 34	6220	5820	6090	850	800	590
ATOM 536 HB3 LYS A 34	-27.217	-24.556	22.026	1.00	47.31	H0
ANISOU 536 HB3 LYS A 34	5990	5990	6000	810	720	570

ATOM	537	HG2	LYS	A	34	-25.497	-25.935	21.983	1.00	51.02	H0	
ANISOU	537	HG2	LYS	A	34	6390	6470	6520	1100	780	660	H0
ATOM	538	HG3	LYS	A	34	-25.981	-26.172	23.473	1.00	51.30	H0	
ANISOU	538	HG3	LYS	A	34	6440	6550	6500	1110	700	770	H0
ATOM	539	HD2	LYS	A	34	-27.081	-28.141	22.835	1.00	53.03	H0	
ANISOU	539	HD2	LYS	A	34	6980	6390	6780	1170	830	820	H0
ATOM	540	HD3	LYS	A	34	-26.699	-27.887	21.317	1.00	52.63	H0	
ANISOU	540	HD3	LYS	A	34	6910	6300	6780	1140	900	700	H0
ATOM	541	HE2	LYS	A	34	-24.374	-28.083	21.996	1.00	55.84	H0	
ANISOU	541	HE2	LYS	A	34	7070	6950	7200	1440	870	800	H0
ATOM	542	HE3	LYS	A	34	-24.904	-28.611	23.386	1.00	56.38	H0	
ANISOU	542	HE3	LYS	A	34	7200	7010	7210	1480	810	930	H0
ATOM	543	HZ1	LYS	A	34	-25.893	-30.366	22.269	1.00	57.56	H0	
ANISOU	543	HZ1	LYS	A	34	7690	6730	7450	1510	980	930	H0
ATOM	544	HZ2	LYS	A	34	-24.434	-30.373	22.033	1.00	58.75	H0	
ANISOU	544	HZ2	LYS	A	34	7690	7010	7630	1690	990	940	H0
ATOM	545	HZ3	LYS	A	34	-25.350	-29.882	20.983	1.00	57.08	H0	
ANISOU	545	HZ3	LYS	A	34	7550	6700	7430	1480	1030	800	H0
ATOM	546	N	PHE	A	35	-28.121	-24.743	25.733	1.00	44.12	N0	
ANISOU	546	N	PHE	A	35	5550	5780	5430	830	540	790	N0
ATOM	547	CA	PHE	A	35	-27.955	-23.796	26.865	1.00	43.46	C0	
ANISOU	547	CA	PHE	A	35	5350	5890	5270	770	450	790	C0
ATOM	548	C	PHE	A	35	-26.477	-23.419	26.975	1.00	43.20	C0	
ANISOU	548	C	PHE	A	35	5140	6050	5230	860	420	790	C0
ATOM	549	O	PHE	A	35	-25.618	-24.318	27.030	1.00	44.90	O0	
ANISOU	549	O	PHE	A	35	5320	6280	5460	1030	430	870	O0
ATOM	550	CB	PHE	A	35	-28.572	-24.372	28.141	1.00	43.62	C0	
ANISOU	550	CB	PHE	A	35	5430	5910	5230	800	420	900	C0
ATOM	551	CG	PHE	A	35	-30.073	-24.486	28.055	1.00	42.73	C0	
ANISOU	551	CG	PHE	A	35	5470	5660	5110	670	450	880	C0
ATOM	552	CD1	PHE	A	35	-30.875	-23.364	28.188	1.00	41.76	C0	
ANISOU	552	CD1	PHE	A	35	5320	5590	4960	520	420	790	C0
ATOM	553	CD2	PHE	A	35	-30.683	-25.703	27.799	1.00	43.53	C0	
ANISOU	553	CD2	PHE	A	35	5720	5570	5250	700	510	930	C0
ATOM	554	CE1	PHE	A	35	-32.254	-23.458	28.081	1.00	40.89	C0	
ANISOU	554	CE1	PHE	A	35	5320	5370	4840	410	440	760	C0
ATOM	555	CE2	PHE	A	35	-32.063	-25.799	27.708	1.00	42.67	C0	
ANISOU	555	CE2	PHE	A	35	5730	5350	5130	570	540	900	C0
ATOM	556	CZ	PHE	A	35	-32.845	-24.677	27.843	1.00	41.40	C0	
ANISOU	556	CZ	PHE	A	35	5520	5270	4940	430	500	810	C0
ATOM	557	H	PHE	A	35	-28.215	-25.608	26.003	1.00	45.01	H0	
ANISOU	557	H	PHE	A	35	5740	5810	5550	900	560	860	H0
ATOM	558	HA	PHE	A	35	-28.456	-22.971	26.639	1.00	42.20	H0	
ANISOU	558	HA	PHE	A	35	5190	5740	5100	660	450	720	H0
ATOM	559	HB2	PHE	A	35	-28.189	-25.258	28.306	1.00	44.83	H0	
ANISOU	559	HB2	PHE	A	35	5620	6030	5390	920	430	980	H0
ATOM	560	HB3	PHE	A	35	-28.336	-23.793	28.895	1.00	43.84	H0	
ANISOU	560	HB3	PHE	A	35	5370	6090	5200	770	360	900	H0
ATOM	561	HD1	PHE	A	35	-30.476	-22.524	28.347	1.00	41.41	H0	
ANISOU	561	HD1	PHE	A	35	5180	5660	4890	490	380	750	H0
ATOM	562	HD2	PHE	A	35	-30.152	-26.479	27.703	1.00	44.41	H0	
ANISOU	562	HD2	PHE	A	35	5870	5620	5380	820	540	990	H0
ATOM	563	HE1	PHE	A	35	-32.788	-22.687	28.184	1.00	40.14	H0	
ANISOU	563	HE1	PHE	A	35	5200	5320	4730	320	430	710	H0

ATOM	564	HE2 PHE A 35	-32.466	-26.636	27.540	1.00	43.14	H0
ANISOU	564	HE2 PHE A 35	5900	5280	5210	580	590	930
ATOM	565	HZ PHE A 35	-33.784	-24.744	27.780	1.00	40.98	H0
ANISOU	565	HZ PHE A 35	5530	5160	4880	350	520	790
ATOM	566	N ILE A 36	-26.210	-22.114	26.949	1.00	41.66	N0
ANISOU	566	N ILE A 36	4830	5990	5010	740	390	690
ATOM	567	CA ILE A 36	-24.850	-21.511	27.040	1.00	42.43	C0
ANISOU	567	CA ILE A 36	4740	6300	5090	760	360	660
ATOM	568	C ILE A 36	-24.643	-20.953	28.451	1.00	42.58	C0
ANISOU	568	C ILE A 36	4640	6530	5000	730	270	680
ATOM	569	O ILE A 36	-23.512	-21.069	28.962	1.00	44.70	O0
ANISOU	569	O ILE A 36	4760	6990	5230	820	220	710
ATOM	570	CB ILE A 36	-24.661	-20.426	25.961	1.00	41.50	C0
ANISOU	570	CB ILE A 36	4590	6180	5000	630	410	520
ATOM	571	CG1 ILE A 36	-25.045	-20.935	24.568	1.00	41.00	C0
ANISOU	571	CG1 ILE A 36	4650	5910	5020	650	500	500
ATOM	572	CG2 ILE A 36	-23.244	-19.879	25.989	1.00	42.64	C0
ANISOU	572	CG2 ILE A 36	4530	6540	5130	640	400	470
ATOM	573	CD1 ILE A 36	-24.352	-22.214	24.166	1.00	42.45	C0
ANISOU	573	CD1 ILE A 36	4840	6040	5260	830	540	560
ATOM	574	H ILE A 36	-26.866	-21.489	26.856	1.00	40.87	H0
ANISOU	574	H ILE A 36	4770	5860	4900	630	390	640
ATOM	575	HA ILE A 36	-24.190	-22.211	26.889	1.00	43.37	H0
ANISOU	575	HA ILE A 36	4820	6430	5230	890	380	700
ATOM	576	HB ILE A 36	-25.272	-19.680	26.181	1.00	40.70	H0
ANISOU	576	HB ILE A 36	4520	6070	4870	520	400	480
ATOM	577	HG12 ILE A 36	-26.014	-21.081	24.542	1.00	40.26	H0
ANISOU	577	HG12 ILE A 36	4670	5700	4930	610	500	500
ATOM	578	HG13 ILE A 36	-24.829	-20.241	23.909	1.00	40.62	H0
ANISOU	578	HG13 ILE A 36	4580	5870	4990	580	530	420
ATOM	579	HG21 ILE A 36	-23.124	-19.319	26.775	1.00	42.85	H0
ANISOU	579	HG21 ILE A 36	4490	6690	5100	580	350	460
ATOM	580	HG22 ILE A 36	-23.082	-19.350	25.189	1.00	42.22	H0
ANISOU	580	HG22 ILE A 36	4480	6460	5110	570	450	400
ATOM	581	HG23 ILE A 36	-22.611	-20.617	26.020	1.00	43.71	H0
ANISOU	581	HG23 ILE A 36	4620	6710	5280	770	400	530
ATOM	582	HD11 ILE A 36	-23.388	-22.097	24.228	1.00	43.25	H0
ANISOU	582	HD11 ILE A 36	4810	6270	5350	890	530	560
ATOM	583	HD12 ILE A 36	-24.591	-22.439	23.251	1.00	41.99	H0
ANISOU	583	HD12 ILE A 36	4860	5850	5240	830	600	530
ATOM	584	HD13 ILE A 36	-24.628	-22.936	24.755	1.00	42.82	H0
ANISOU	584	HD13 ILE A 36	4930	6050	5290	910	520	640
ATOM	585	N ASN A 37	-25.676	-20.357	29.052	1.00	40.90	N0
ANISOU	585	N ASN A 37	4500	6300	4740	600	240	650
ATOM	586	CA ASN A 37	-25.548	-19.718	30.386	1.00	41.76	C0
ANISOU	586	CA ASN A 37	4520	6600	4750	540	160	660
ATOM	587	C ASN A 37	-26.904	-19.657	31.103	1.00	41.16	C0
ANISOU	587	C ASN A 37	4570	6450	4630	460	150	680
ATOM	588	O ASN A 37	-27.956	-19.617	30.432	1.00	39.64	O0
ANISOU	588	O ASN A 37	4500	6070	4490	400	200	640
ATOM	589	CB ASN A 37	-24.907	-18.331	30.279	1.00	41.38	C0
ANISOU	589	CB ASN A 37	4340	6710	4680	400	160	520
ATOM	590	CG ASN A 37	-23.905	-18.058	31.381	1.00	42.63	C0
ANISOU	590	CG ASN A 37	4320	7140	4740	410	80	530

ATOM	591	OD1 ASN A 37	-24.116	-18.449	32.530	1.00	42.35	O0	
ANISOU	591	OD1 ASN A 37	4280	7200	4620	450	10	610	O0
ATOM	592	ND2 ASN A 37	-22.812	-17.393	31.037	1.00	42.94	N0	
ANISOU	592	ND2 ASN A 37	4200	7340	4780	350	90	440	N0
ATOM	593	H ASN A 37	-26.505	-20.295	28.682	1.00	40.20	H0	
ANISOU	593	H ASN A 37	4520	6080	4680	540	270	630	H0
ATOM	594	HA ASN A 37	-24.944	-20.279	30.927	1.00	42.88	H0	
ANISOU	594	HA ASN A 37	4590	6850	4860	640	120	730	H0
ATOM	595	HB2 ASN A 37	-24.457	-18.255	29.413	1.00	41.31	H0	
ANISOU	595	HB2 ASN A 37	4310	6660	4720	400	200	480	H0
ATOM	596	HB3 ASN A 37	-25.612	-17.652	30.314	1.00	40.47	H0	
ANISOU	596	HB3 ASN A 37	4290	6540	4550	280	170	470	H0
ATOM	597	HD21 ASN A 37	-22.044	-17.565	31.440	1.00	44.24	H0	
ANISOU	597	HD21 ASN A 37	4250	7660	4900	410	40	460	H0
ATOM	598	HD22 ASN A 37	-22.850	-16.776	30.404	1.00	42.43	H0	
ANISOU	598	HD22 ASN A 37	4160	7220	4750	260	130	360	H0
ATOM	599	N ILE A 38	-26.845	-19.686	32.434	1.00	42.80	N0	
ANISOU	599	N ILE A 38	4720	6800	4740	470	80	740	N0
ATOM	600	CA ILE A 38	-27.951	-19.326	33.369	1.00	43.04	C0	
ANISOU	600	CA ILE A 38	4830	6830	4690	370	60	730	C0
ATOM	601	C ILE A 38	-27.417	-18.197	34.251	1.00	43.97	C0	
ANISOU	601	C ILE A 38	4810	7180	4720	270	0	660	C0
ATOM	602	O ILE A 38	-26.469	-18.451	35.007	1.00	45.41	O0	
ANISOU	602	O ILE A 38	4870	7560	4820	340	-70	710	O0
ATOM	603	CB ILE A 38	-28.416	-20.556	34.176	1.00	43.73	C0	
ANISOU	603	CB ILE A 38	5000	6870	4740	480	40	880	C0
ATOM	604	CG1 ILE A 38	-28.811	-21.713	33.252	1.00	43.47	C0	
ANISOU	604	CG1 ILE A 38	5110	6610	4800	570	110	950	C0
ATOM	605	CG2 ILE A 38	-29.546	-20.182	35.125	1.00	43.04	C0	
ANISOU	605	CG2 ILE A 38	4980	6800	4570	360	20	880	C0
ATOM	606	CD1 ILE A 38	-28.995	-23.037	33.958	1.00	44.81	C0	
ANISOU	606	CD1 ILE A 38	5370	6720	4930	700	110	1110	C0
ATOM	607	H ILE A 38	-26.089	-19.944	32.874	1.00	43.90	H0	
ANISOU	607	H ILE A 38	4770	7070	4840	550	40	780	H0
ATOM	608	HA ILE A 38	-28.703	-18.992	32.849	1.00	41.86	H0	
ANISOU	608	HA ILE A 38	4750	6560	4590	290	100	680	H0
ATOM	609	HB ILE A 38	-27.651	-20.860	34.724	1.00	44.91	H0	
ANISOU	609	HB ILE A 38	5070	7150	4840	560	-10	950	H0
ATOM	610	HG12 ILE A 38	-29.649	-21.481	32.800	1.00	42.45	H0	
ANISOU	610	HG12 ILE A 38	5060	6360	4710	480	150	900	H0
ATOM	611	HG13 ILE A 38	-28.121	-21.818	32.566	1.00	43.71	H0	
ANISOU	611	HG13 ILE A 38	5090	6630	4890	630	130	930	H0
ATOM	612	HG21 ILE A 38	-29.223	-19.542	35.783	1.00	43.48	H0	
ANISOU	612	HG21 ILE A 38	4960	7010	4560	320	-20	840	H0
ATOM	613	HG22 ILE A 38	-29.866	-20.978	35.582	1.00	43.65	H0	
ANISOU	613	HG22 ILE A 38	5130	6830	4620	420	20	970	H0
ATOM	614	HG23 ILE A 38	-30.277	-19.784	34.621	1.00	42.01	H0	
ANISOU	614	HG23 ILE A 38	4910	6560	4490	280	60	810	H0
ATOM	615	HD11 ILE A 38	-28.239	-23.198	34.550	1.00	45.91	H0	
ANISOU	615	HD11 ILE A 38	5430	6990	5020	780	60	1170	H0
ATOM	616	HD12 ILE A 38	-29.047	-23.752	33.300	1.00	44.83	H0	
ANISOU	616	HD12 ILE A 38	5450	6580	5000	760	160	1140	H0
ATOM	617	HD13 ILE A 38	-29.816	-23.018	34.479	1.00	44.47	H0	
ANISOU	617	HD13 ILE A 38	5400	6650	4850	630	110	1120	H0

ATOM 618 N LEU A 39	-27.976	-16.992	34.116	1.00	44.64	N0	
ANISOU 618 N LEU A 39	4920	7240	4800	110	20	530	N0
ATOM 619 CA LEU A 39	-27.364	-15.729	34.616	1.00	46.97	C0	
ANISOU 619 CA LEU A 39	5100	7720	5030	-20	0	420	C0
ATOM 620 C LEU A 39	-28.020	-15.292	35.929	1.00	49.27	C0	
ANISOU 620 C LEU A 39	5410	8100	5210	-110	-40	400	C0
ATOM 621 O LEU A 39	-27.280	-14.944	36.873	1.00	51.79	O0	
ANISOU 621 O LEU A 39	5600	8650	5420	-140	-100	380	O0
ATOM 622 CB LEU A 39	-27.513	-14.652	33.540	1.00	45.48	C0	
ANISOU 622 CB LEU A 39	4950	7420	4910	-140	70	280	C0
ATOM 623 CG LEU A 39	-26.808	-14.959	32.221	1.00	45.63	C0	
ANISOU 623 CG LEU A 39	4950	7360	5030	-80	120	280	C0
ATOM 624 CD1 LEU A 39	-27.099	-13.883	31.190	1.00	44.63	C0	
ANISOU 624 CD1 LEU A 39	4890	7110	4960	-200	200	160	C0
ATOM 625 CD2 LEU A 39	-25.311	-15.107	32.437	1.00	47.04	C0	
ANISOU 625 CD2 LEU A 39	4940	7750	5180	-30	80	280	C0
ATOM 626 H LEU A 39	-28.778	-16.871	33.702	1.00	43.70	H0	
ANISOU 626 H LEU A 39	4890	6990	4720	70	60	510	H0
ATOM 627 HA LEU A 39	-26.408	-15.892	34.785	1.00	47.93	H0	
ANISOU 627 HA LEU A 39	5110	7980	5120	20	-40	430	H0
ATOM 628 HB2 LEU A 39	-28.466	-14.522	33.361	1.00	44.71	H0	
ANISOU 628 HB2 LEU A 39	4960	7190	4840	-170	100	270	H0
ATOM 629 HB3 LEU A 39	-27.161	-13.811	33.893	1.00	46.02	H0	
ANISOU 629 HB3 LEU A 39	4960	7590	4940	-240	70	200	H0
ATOM 630 HG LEU A 39	-27.157	-15.818	31.877	1.00	45.26	H0	
ANISOU 630 HG LEU A 39	4960	7210	5030	10	130	350	H0
ATOM 631 HD11 LEU A 39	-28.061	-13.785	31.085	1.00	43.76	H0	
ANISOU 631 HD11 LEU A 39	4880	6880	4860	-210	220	160	H0
ATOM 632 HD12 LEU A 39	-26.704	-14.135	30.338	1.00	44.53	H0	
ANISOU 632 HD12 LEU A 39	4870	7040	5010	-150	230	170	H0
ATOM 633 HD13 LEU A 39	-26.717	-13.039	31.487	1.00	45.00	H0	
ANISOU 633 HD13 LEU A 39	4880	7240	4970	-290	200	90	H0
ATOM 634 HD21 LEU A 39	-24.981	-14.353	32.955	1.00	47.56	H0	
ANISOU 634 HD21 LEU A 39	4940	7950	5190	-130	60	210	H0
ATOM 635 HD22 LEU A 39	-24.860	-15.130	31.576	1.00	46.99	H0	
ANISOU 635 HD22 LEU A 39	4920	7700	5230	-20	120	260	H0
ATOM 636 HD23 LEU A 39	-25.130	-15.934	32.917	1.00	47.75	H0	
ANISOU 636 HD23 LEU A 39	5000	7900	5240	80	30	380	H0
ATOM 637 N GLU A 40	-29.351	-15.296	35.983	1.00	50.01	N0	
ANISOU 637 N GLU A 40	5640	8050	5310	-140	-10	410	N0
ATOM 638 CA GLU A 40	-30.115	-14.847	37.172	1.00	51.94	C0	
ANISOU 638 CA GLU A 40	5910	8370	5460	-220	-30	390	C0
ATOM 639 C GLU A 40	-31.271	-15.820	37.406	1.00	50.61	C0	
ANISOU 639 C GLU A 40	5860	8070	5290	-160	-10	490	C0
ATOM 640 O GLU A 40	-32.017	-16.119	36.443	1.00	51.12	O0	
ANISOU 640 O GLU A 40	6020	7940	5450	-150	40	500	O0
ATOM 641 CB GLU A 40	-30.602	-13.409	36.995	1.00	53.94	C0	
ANISOU 641 CB GLU A 40	6200	8580	5720	-370	20	230	C0
ATOM 642 CG GLU A 40	-31.300	-12.860	38.227	1.00	57.11	C0	
ANISOU 642 CG GLU A 40	6620	9070	6010	-460	10	190	C0
ATOM 643 CD GLU A 40	-31.326	-11.343	38.320	1.00	59.80	C0	
ANISOU 643 CD GLU A 40	6970	9430	6330	-610	50	30	C0
ATOM 644 OE1 GLU A 40	-32.420	-10.783	38.576	1.00	61.15	O0	
ANISOU 644 OE1 GLU A 40	7230	9520	6490	-660	90	-20	O0

ATOM	645	OE2	GLU	A	40	-30.249	-10.723	38.145	1.00	63.18	O0	
ANISOU	645	OE2	GLU	A	40	7310	9950	6750	-670	50	-50	O0
ATOM	646	H	GLU	A	40	-29.872	-15.578	35.292	1.00	49.15	H0	
ANISOU	646	H	GLU	A	40	5610	7790	5280	-120	30	420	H0
ATOM	647	HA	GLU	A	40	-29.517	-14.880	37.953	1.00	52.95	H0	
ANISOU	647	HA	GLU	A	40	5960	8660	5500	-220	-80	410	H0
ATOM	648	HB2	GLU	A	40	-29.832	-12.842	36.781	1.00	54.29	H0	
ANISOU	648	HB2	GLU	A	40	6180	8690	5760	-420	20	170	H0
ATOM	649	HB3	GLU	A	40	-31.221	-13.378	36.236	1.00	52.95	H0	
ANISOU	649	HB3	GLU	A	40	6150	8300	5660	-370	70	220	H0
ATOM	650	HG2	GLU	A	40	-32.225	-13.186	38.239	1.00	56.45	H0	
ANISOU	650	HG2	GLU	A	40	6620	8890	5940	-440	30	230	H0
ATOM	651	HG3	GLU	A	40	-30.854	-13.211	39.028	1.00	57.97	H0	
ANISOU	651	HG3	GLU	A	40	6670	9320	6040	-440	-40	240	H0
ATOM	652	N	VAL	A	41	-31.379	-16.304	38.640	1.00	49.22	N0	
ANISOU	652	N	VAL	A	41	5680	8010	5010	-140	-60	570	N0
ATOM	653	CA	VAL	A	41	-32.435	-17.240	39.109	1.00	48.97	C0	
ANISOU	653	CA	VAL	A	41	5760	7890	4950	-100	-50	680	C0
ATOM	654	C	VAL	A	41	-33.101	-16.583	40.319	1.00	48.37	C0	
ANISOU	654	C	VAL	A	41	5690	7930	4760	-210	-60	630	C0
ATOM	655	O	VAL	A	41	-32.409	-15.852	41.047	1.00	49.42	O0	
ANISOU	655	O	VAL	A	41	5730	8250	4800	-260	-100	570	O0
ATOM	656	CB	VAL	A	41	-31.822	-18.618	39.427	1.00	50.42	C0	
ANISOU	656	CB	VAL	A	41	5950	8100	5110	50	-80	850	C0
ATOM	657	CG1	VAL	A	41	-32.779	-19.544	40.152	1.00	50.62	C0	
ANISOU	657	CG1	VAL	A	41	6100	8060	5080	70	-60	960	C0
ATOM	658	CG2	VAL	A	41	-31.299	-19.289	38.166	1.00	50.40	C0	
ANISOU	658	CG2	VAL	A	41	5960	7960	5230	160	-50	880	C0
ATOM	659	H	VAL	A	41	-30.788	-16.085	39.297	1.00	50.60	H0	
ANISOU	659	H	VAL	A	41	5780	8340	5110	-150	-110	570	H0
ATOM	660	HA	VAL	A	41	-33.098	-17.345	38.404	1.00	47.97	H0	
ANISOU	660	HA	VAL	A	41	5710	7620	4900	-110	0	660	H0
ATOM	661	HB	VAL	A	41	-31.052	-18.461	40.024	1.00	51.34	H0	
ANISOU	661	HB	VAL	A	41	5980	8380	5150	70	-140	860	H0
ATOM	662	HG11	VAL	A	41	-33.051	-19.143	40.995	1.00	50.99	H0	
ANISOU	662	HG11	VAL	A	41	6130	8210	5040	10	-80	940	H0
ATOM	663	HG12	VAL	A	41	-32.339	-20.393	40.325	1.00	51.58	H0	
ANISOU	663	HG12	VAL	A	41	6230	8180	5190	180	-80	1070	H0
ATOM	664	HG13	VAL	A	41	-33.562	-19.693	39.595	1.00	49.79	H0	
ANISOU	664	HG13	VAL	A	41	6070	7810	5040	40	-10	940	H0
ATOM	665	HG21	VAL	A	41	-32.043	-19.483	37.569	1.00	49.45	H0	
ANISOU	665	HG21	VAL	A	41	5930	7680	5180	130	0	870	H0
ATOM	666	HG22	VAL	A	41	-30.849	-20.118	38.402	1.00	51.25	H0	
ANISOU	666	HG22	VAL	A	41	6070	8080	5320	260	-70	990	H0
ATOM	667	HG23	VAL	A	41	-30.671	-18.696	37.718	1.00	50.14	H0	
ANISOU	667	HG23	VAL	A	41	5850	7970	5230	140	-60	810	H0
ATOM	668	N	ASN	A	42	-34.406	-16.790	40.485	1.00	47.15	N0	
ANISOU	668	N	ASN	A	42	5640	7670	4600	-250	-10	640	N0
ATOM	669	CA	ASN	A	42	-35.192	-16.253	41.625	1.00	46.83	C0	
ANISOU	669	CA	ASN	A	42	5620	7720	4450	-340	0	600	C0
ATOM	670	C	ASN	A	42	-36.261	-17.286	41.983	1.00	46.37	C0	
ANISOU	670	C	ASN	A	42	5660	7580	4380	-330	30	700	C0
ATOM	671	O	ASN	A	42	-37.250	-17.408	41.226	1.00	44.50	O0	
ANISOU	671	O	ASN	A	42	5500	7190	4230	-350	100	670	O0

ATOM	672	CB	ASN	A	42	-35.766	-14.872	41.302	1.00	45.95	C0	
ANISOU	672	CB	ASN	A	42	5500	7580	4370	-450	40	430	C0
ATOM	673	CG	ASN	A	42	-36.298	-14.148	42.521	1.00	46.78	C0	
ANISOU	673	CG	ASN	A	42	5610	7810	4360	-550	40	360	C0
ATOM	674	OD1	ASN	A	42	-36.852	-14.758	43.433	1.00	46.90	O0	
ANISOU	674	OD1	ASN	A	42	5660	7880	4280	-550	40	440	O0
ATOM	675	ND2	ASN	A	42	-36.140	-12.837	42.539	1.00	47.06	N0	
ANISOU	675	ND2	ASN	A	42	5610	7890	4380	-640	60	220	N0
ATOM	676	H	ASN	A	42	-34.901	-17.278	39.896	1.00	46.61	H0	
ANISOU	676	H	ASN	A	42	5630	7470	4600	-220	30	670	H0
ATOM	677	HA	ASN	A	42	-34.586	-16.150	42.396	1.00	47.80	H0	
ANISOU	677	HA	ASN	A	42	5680	8000	4480	-340	-50	620	H0
ATOM	678	HB2	ASN	A	42	-35.064	-14.328	40.890	1.00	45.90	H0	
ANISOU	678	HB2	ASN	A	42	5450	7600	4400	-460	30	370	H0
ATOM	679	HB3	ASN	A	42	-36.488	-14.975	40.651	1.00	45.16	H0	
ANISOU	679	HB3	ASN	A	42	5460	7350	4350	-450	90	420	H0
ATOM	680	HD21	ASN	A	42	-36.024	-12.416	43.308	1.00	47.59	H0	
ANISOU	680	HD21	ASN	A	42	5650	8070	4360	-690	50	180	H0
ATOM	681	HD22	ASN	A	42	-36.152	-12.379	41.783	1.00	46.27	H0	
ANISOU	681	HD22	ASN	A	42	5520	7700	4360	-640	90	160	H0
ATOM	682	N	GLU	A	43	-36.048	-18.012	43.084	1.00	47.32	N0	
ANISOU	682	N	GLU	A	43	5790	7810	4380	-290	0	820	N0
ATOM	683	CA	GLU	A	43	-36.931	-19.117	43.535	1.00	47.91	C0	
ANISOU	683	CA	GLU	A	43	5980	7800	4420	-270	40	940	C0
ATOM	684	C	GLU	A	43	-38.231	-18.540	44.109	1.00	47.43	C0	
ANISOU	684	C	GLU	A	43	5960	7760	4300	-400	90	860	C0
ATOM	685	O	GLU	A	43	-39.244	-19.267	44.097	1.00	47.51	O0	
ANISOU	685	O	GLU	A	43	6060	7660	4330	-430	150	910	O0
ATOM	686	CB	GLU	A	43	-36.197	-20.008	44.539	1.00	49.73	C0	
ANISOU	686	CB	GLU	A	43	6220	8150	4530	-180	-20	1110	C0
ATOM	687	CG	GLU	A	43	-37.026	-21.193	45.006	1.00	50.69	C0	
ANISOU	687	CG	GLU	A	43	6480	8170	4610	-170	40	1240	C0
ATOM	688	CD	GLU	A	43	-36.259	-22.301	45.706	1.00	52.29	C0	
ANISOU	688	CD	GLU	A	43	6730	8420	4720	-30	0	1440	C0
ATOM	689	OE1	GLU	A	43	-36.880	-23.337	46.005	1.00	52.70	O0	
ANISOU	689	OE1	GLU	A	43	6920	8360	4740	-20	60	1560	O0
ATOM	690	OE2	GLU	A	43	-35.050	-22.129	45.945	1.00	53.29	O0	
ANISOU	690	OE2	GLU	A	43	6760	8700	4790	60	-90	1470	O0
ATOM	691	H	GLU	A	43	-35.336	-17.867	43.634	1.00	48.24	H0	
ANISOU	691	H	GLU	A	43	5850	8060	4420	-270	-60	840	H0
ATOM	692	HA	GLU	A	43	-37.161	-19.660	42.748	1.00	47.37	H0	
ANISOU	692	HA	GLU	A	43	5970	7590	4440	-240	70	970	H0
ATOM	693	HB2	GLU	A	43	-35.374	-20.337	44.121	1.00	50.01	H0	
ANISOU	693	HB2	GLU	A	43	6230	8170	4600	-90	-50	1150	H0
ATOM	694	HB3	GLU	A	43	-35.947	-19.467	45.316	1.00	50.33	H0	
ANISOU	694	HB3	GLU	A	43	6240	8380	4500	-220	-60	1080	H0
ATOM	695	HG2	GLU	A	43	-37.719	-20.869	45.619	1.00	50.64	H0	
ANISOU	695	HG2	GLU	A	43	6490	8210	4530	-250	60	1210	H0
ATOM	696	HG3	GLU	A	43	-37.482	-21.582	44.229	1.00	49.91	H0	
ANISOU	696	HG3	GLU	A	43	6440	7910	4610	-170	90	1240	H0
ATOM	697	N	ILE	A	44	-38.219	-17.290	44.584	1.00	47.61	N0	
ANISOU	697	N	ILE	A	44	5910	7910	4270	-480	70	730	N0
ATOM	698	CA	ILE	A	44	-39.430	-16.615	45.145	1.00	47.89	C0	
ANISOU	698	CA	ILE	A	44	5970	7970	4260	-590	130	630	C0

ATOM 699 C ILE A 44	-40.375	-16.252	43.989	1.00	45.68	C0	
ANISOU 699 C ILE A 44	5710	7530	4110	-610	200	540	C0
ATOM 700 O ILE A 44	-41.557	-16.628	44.071	1.00	45.73	O0	
ANISOU 700 O ILE A 44	5770	7490	4120	-660	260	550	O0
ATOM 701 CB ILE A 44	-39.049	-15.397	46.015	1.00	49.51	C0	
ANISOU 701 CB ILE A 44	6100	8360	4350	-660	100	520	C0
ATOM 702 CG1 ILE A 44	-38.255	-15.818	47.258	1.00	51.33	C0	
ANISOU 702 CG1 ILE A 44	6300	8780	4420	-640	30	610	C0
ATOM 703 CG2 ILE A 44	-40.288	-14.594	46.395	1.00	49.54	C0	
ANISOU 703 CG2 ILE A 44	6130	8360	4330	-760	170	400	C0
ATOM 704 CD1 ILE A 44	-37.546	-14.678	47.958	1.00	52.07	C0	
ANISOU 704 CD1 ILE A 44	6310	9060	4410	-720	-20	500	C0
ATOM 705 H ILE A 44	-37.469	-16.774	44.604	1.00	47.79	H0	
ANISOU 705 H ILE A 44	5870	8010	4280	-480	30	690	H0
ATOM 706 HA ILE A 44	-39.889	-17.255	45.717	1.00	48.46	H0	
ANISOU 706 HA ILE A 44	6090	8060	4270	-600	150	710	H0
ATOM 707 HB ILE A 44	-38.466	-14.811	45.473	1.00	48.95	H0	
ANISOU 707 HB ILE A 44	5980	8280	4340	-660	80	450	H0
ATOM 708 HG12 ILE A 44	-38.870	-16.243	47.893	1.00	51.82	H0	
ANISOU 708 HG12 ILE A 44	6410	8860	4410	-660	50	670	H0
ATOM 709 HG13 ILE A 44	-37.588	-16.486	46.993	1.00	51.57	H0	
ANISOU 709 HG13 ILE A 44	6330	8800	4470	-560	-10	710	H0
ATOM 710 HG21 ILE A 44	-40.589	-14.076	45.629	1.00	48.55	H0	
ANISOU 710 HG21 ILE A 44	6000	8150	4300	-760	200	320	H0
ATOM 711 HG22 ILE A 44	-40.077	-13.991	47.127	1.00	50.06	H0	
ANISOU 711 HG22 ILE A 44	6160	8550	4310	-810	160	340	H0
ATOM 712 HG23 ILE A 44	-40.997	-15.201	46.672	1.00	49.66	H0	
ANISOU 712 HG23 ILE A 44	6190	8360	4320	-770	200	460	H0
ATOM 713 HD11 ILE A 44	-37.059	-14.146	47.305	1.00	51.50	H0	
ANISOU 713 HD11 ILE A 44	6190	8960	4420	-720	-20	420	H0
ATOM 714 HD12 ILE A 44	-36.921	-15.037	48.612	1.00	53.14	H0	
ANISOU 714 HD12 ILE A 44	6410	9330	4450	-690	-70	570	H0
ATOM 715 HD13 ILE A 44	-38.198	-14.116	48.411	1.00	52.07	H0	
ANISOU 715 HD13 ILE A 44	6320	9090	4370	-790	20	420	H0
ATOM 716 N THR A 45	-39.878	-15.583	42.939	1.00	44.44	N0	
ANISOU 716 N THR A 45	5520	7310	4060	-590	190	460	N0
ATOM 717 CA THR A 45	-40.693	-15.121	41.775	1.00	42.72	C0	
ANISOU 717 CA THR A 45	5320	6950	3960	-600	240	370	C0
ATOM 718 C THR A 45	-40.827	-16.220	40.707	1.00	41.90	C0	
ANISOU 718 C THR A 45	5260	6700	3960	-540	260	450	C0
ATOM 719 O THR A 45	-41.678	-16.054	39.806	1.00	41.69	O0	
ANISOU 719 O THR A 45	5250	6570	4010	-550	300	390	O0
ATOM 720 CB THR A 45	-40.124	-13.843	41.142	1.00	41.94	C0	
ANISOU 720 CB THR A 45	5180	6840	3910	-600	240	250	C0
ATOM 721 OG1 THR A 45	-38.869	-14.148	40.530	1.00	41.74	O0	
ANISOU 721 OG1 THR A 45	5120	6800	3940	-550	190	290	O0
ATOM 722 CG2 THR A 45	-39.959	-12.715	42.138	1.00	42.57	C0	
ANISOU 722 CG2 THR A 45	5230	7050	3900	-680	240	150	C0
ATOM 723 H THR A 45	-38.998	-15.360	42.861	1.00	44.54	H0	
ANISOU 723 H THR A 45	5490	7360	4070	-570	150	460	H0
ATOM 724 HA THR A 45	-41.595	-14.915	42.111	1.00	42.74	H0	
ANISOU 724 HA THR A 45	5340	6970	3940	-640	280	330	H0
ATOM 725 HB THR A 45	-40.751	-13.548	40.439	1.00	41.26	H0	
ANISOU 725 HB THR A 45	5110	6670	3890	-600	270	200	H0

ATOM	726	HG21	THR	A	45	-40.805	-12.558	42.595	1.00	42.70	H0	
ANISOU	726	HG21	THR	A	45	5260	7090	3870	-710	270	120	H0
ATOM	727	HG22	THR	A	45	-39.688	-11.905	41.671	1.00	42.22	H0	
ANISOU	727	HG22	THR	A	45	5170	6980	3890	-690	250	70	H0
ATOM	728	HG23	THR	A	45	-39.278	-12.954	42.792	1.00	43.30	H0	
ANISOU	728	HG23	THR	A	45	5290	7240	3920	-680	190	190	H0
ATOM	729	N	ASN	A	46	-40.037	-17.295	40.782	1.00	41.64	N0	
ANISOU	729	N	ASN	A	46	5250	6650	3920	-480	230	580	N0
ATOM	730	CA	ASN	A	46	-39.993	-18.355	39.737	1.00	40.87	C0	
ANISOU	730	CA	ASN	A	46	5210	6400	3920	-420	250	650	C0
ATOM	731	C	ASN	A	46	-39.636	-17.713	38.388	1.00	40.06	C0	
ANISOU	731	C	ASN	A	46	5070	6210	3930	-390	250	560	C0
ATOM	732	O	ASN	A	46	-40.391	-17.902	37.398	1.00	38.87	O0	
ANISOU	732	O	ASN	A	46	4960	5940	3860	-400	290	530	O0
ATOM	733	CB	ASN	A	46	-41.307	-19.136	39.682	1.00	40.24	C0	
ANISOU	733	CB	ASN	A	46	5200	6230	3850	-470	310	680	C0
ATOM	734	CG	ASN	A	46	-41.365	-20.271	40.680	1.00	41.38	C0	
ANISOU	734	CG	ASN	A	46	5420	6390	3910	-470	330	810	C0
ATOM	735	OD1	ASN	A	46	-40.351	-20.901	40.969	1.00	41.28	O0	
ANISOU	735	OD1	ASN	A	46	5420	6380	3870	-380	290	920	O0
ATOM	736	ND2	ASN	A	46	-42.552	-20.547	41.199	1.00	41.62	N0	
ANISOU	736	ND2	ASN	A	46	5490	6430	3890	-560	380	810	N0
ATOM	737	H	ASN	A	46	-39.473	-17.446	41.480	1.00	42.48	H0	
ANISOU	737	H	ASN	A	46	5340	6840	3960	-460	190	630	H0
ATOM	738	HA	ASN	A	46	-39.276	-18.988	39.976	1.00	41.53	H0	
ANISOU	738	HA	ASN	A	46	5300	6490	3990	-360	220	740	H0
ATOM	739	HB2	ASN	A	46	-42.048	-18.523	39.857	1.00	40.09	H0	
ANISOU	739	HB2	ASN	A	46	5160	6250	3820	-530	330	600	H0
ATOM	740	HB3	ASN	A	46	-41.425	-19.501	38.783	1.00	39.92	H0	
ANISOU	740	HB3	ASN	A	46	5190	6090	3890	-450	340	670	H0
ATOM	741	HD21	ASN	A	46	-42.609	-21.004	41.954	1.00	42.49	H0	
ANISOU	741	HD21	ASN	A	46	5640	6570	3930	-570	390	880	H0
ATOM	742	HD22	ASN	A	46	-43.289	-20.277	40.791	1.00	41.14	H0	
ANISOU	742	HD22	ASN	A	46	5420	6340	3870	-610	420	740	H0
ATOM	743	N	GLU	A	47	-38.532	-16.966	38.349	1.00	40.49	N0	
ANISOU	743	N	GLU	A	47	5060	6340	3990	-370	200	520	N0
ATOM	744	CA	GLU	A	47	-38.027	-16.308	37.115	1.00	40.90	C0	
ANISOU	744	CA	GLU	A	47	5090	6320	4140	-350	210	450	C0
ATOM	745	C	GLU	A	47	-36.561	-16.691	36.906	1.00	41.97	C0	
ANISOU	745	C	GLU	A	47	5170	6490	4290	-270	170	500	C0
ATOM	746	O	GLU	A	47	-35.807	-16.718	37.905	1.00	42.35	O0	
ANISOU	746	O	GLU	A	47	5160	6680	4250	-260	120	550	O0
ATOM	747	CB	GLU	A	47	-38.217	-14.795	37.199	1.00	40.75	C0	
ANISOU	747	CB	GLU	A	47	5030	6350	4100	-410	220	310	C0
ATOM	748	CG	GLU	A	47	-39.677	-14.394	37.273	1.00	41.16	C0	
ANISOU	748	CG	GLU	A	47	5130	6370	4140	-460	270	250	C0
ATOM	749	CD	GLU	A	47	-39.936	-12.902	37.386	1.00	41.88	C0	
ANISOU	749	CD	GLU	A	47	5210	6490	4220	-510	290	130	C0
ATOM	750	OE1	GLU	A	47	-41.104	-12.527	37.604	1.00	42.57	O0	
ANISOU	750	OE1	GLU	A	47	5310	6580	4280	-530	330	80	O0
ATOM	751	OE2	GLU	A	47	-38.975	-12.120	37.249	1.00	44.12	O0	
ANISOU	751	OE2	GLU	A	47	5460	6800	4500	-520	280	70	O0
ATOM	752	H	GLU	A	47	-38.016	-16.815	39.084	1.00	41.29	H0	
ANISOU	752	H	GLU	A	47	5130	6540	4020	-370	170	540	H0

ATOM	753	HA	GLU	A	47	-38.548	-16.645	36.354	1.00	40.29	H0	
ANISOU	753	HA	GLU	A	47	5050	6140	4120	-340	240	450	H0
ATOM	754	HB2	GLU	A	47	-37.750	-14.461	37.993	1.00	41.47	H0	
ANISOU	754	HB2	GLU	A	47	5090	6550	4120	-440	190	310	H0
ATOM	755	HB3	GLU	A	47	-37.809	-14.382	36.410	1.00	40.46	H0	
ANISOU	755	HB3	GLU	A	47	4990	6270	4120	-400	230	270	H0
ATOM	756	HG2	GLU	A	47	-40.136	-14.725	36.471	1.00	40.68	H0	
ANISOU	756	HG2	GLU	A	47	5090	6220	4140	-440	290	260	H0
ATOM	757	HG3	GLU	A	47	-40.087	-14.835	38.047	1.00	41.64	H0	
ANISOU	757	HG3	GLU	A	47	5190	6480	4150	-480	270	300	H0
ATOM	758	N	VAL	A	48	-36.195	-16.985	35.654	1.00	41.79	N0	
ANISOU	758	N	VAL	A	48	5160	6350	4370	-220	190	500	N0
ATOM	759	CA	VAL	A	48	-34.807	-17.340	35.234	1.00	43.11	C0	
ANISOU	759	CA	VAL	A	48	5270	6540	4570	-140	160	550	C0
ATOM	760	C	VAL	A	48	-34.418	-16.451	34.052	1.00	42.79	C0	
ANISOU	760	C	VAL	A	48	5210	6450	4600	-160	180	440	C0
ATOM	761	O	VAL	A	48	-35.288	-16.179	33.204	1.00	42.40	O0	
ANISOU	761	O	VAL	A	48	5220	6280	4610	-190	230	390	O0
ATOM	762	CB	VAL	A	48	-34.659	-18.835	34.876	1.00	43.41	C0	
ANISOU	762	CB	VAL	A	48	5370	6470	4650	-40	170	670	C0
ATOM	763	CG1	VAL	A	48	-34.996	-19.734	36.049	1.00	44.75	C0	
ANISOU	763	CG1	VAL	A	48	5590	6680	4740	-10	160	780	C0
ATOM	764	CG2	VAL	A	48	-35.484	-19.228	33.661	1.00	42.84	C0	
ANISOU	764	CG2	VAL	A	48	5390	6220	4670	-50	230	640	C0
ATOM	765	H	VAL	A	48	-36.787	-16.980	34.962	1.00	41.27	H0	
ANISOU	765	H	VAL	A	48	5140	6190	4350	-230	220	480	H0
ATOM	766	HA	VAL	A	48	-34.209	-17.144	35.974	1.00	43.70	H0	
ANISOU	766	HA	VAL	A	48	5290	6740	4580	-140	120	560	H0
ATOM	767	HB	VAL	A	48	-33.708	-18.986	34.650	1.00	43.98	H0	
ANISOU	767	HB	VAL	A	48	5390	6580	4740	20	150	690	H0
ATOM	768	HG11	VAL	A	48	-34.457	-19.480	36.819	1.00	45.29	H0	
ANISOU	768	HG11	VAL	A	48	5590	6880	4730	0	110	800	H0
ATOM	769	HG12	VAL	A	48	-34.808	-20.659	35.814	1.00	45.09	H0	
ANISOU	769	HG12	VAL	A	48	5680	6650	4810	60	170	860	H0
ATOM	770	HG13	VAL	A	48	-35.939	-19.640	36.269	1.00	44.31	H0	
ANISOU	770	HG13	VAL	A	48	5580	6600	4660	-80	180	760	H0
ATOM	771	HG21	VAL	A	48	-36.399	-18.917	33.774	1.00	42.29	H0	
ANISOU	771	HG21	VAL	A	48	5350	6140	4580	-110	250	600	H0
ATOM	772	HG22	VAL	A	48	-35.481	-20.196	33.568	1.00	43.18	H0	
ANISOU	772	HG22	VAL	A	48	5480	6190	4730	0	250	710	H0
ATOM	773	HG23	VAL	A	48	-35.101	-18.826	32.862	1.00	42.29	H0	
ANISOU	773	HG23	VAL	A	48	5290	6120	4650	-40	240	590	H0
ATOM	774	N	ASP	A	49	-33.154	-16.028	34.025	1.00	43.37	N0	
ANISOU	774	N	ASP	A	49	5190	6620	4670	-150	160	420	N0
ATOM	775	CA	ASP	A	49	-32.480	-15.356	32.886	1.00	43.05	C0	
ANISOU	775	CA	ASP	A	49	5120	6540	4700	-170	190	340	C0
ATOM	776	C	ASP	A	49	-31.511	-16.378	32.276	1.00	42.93	C0	
ANISOU	776	C	ASP	A	49	5070	6500	4740	-60	180	420	C0
ATOM	777	O	ASP	A	49	-30.630	-16.851	33.024	1.00	43.84	O0	
ANISOU	777	O	ASP	A	49	5100	6750	4800	10	130	480	O0
ATOM	778	CB	ASP	A	49	-31.774	-14.091	33.388	1.00	44.42	C0	
ANISOU	778	CB	ASP	A	49	5210	6850	4820	-260	170	250	C0
ATOM	779	CG	ASP	A	49	-31.566	-12.995	32.356	1.00	43.87	C0	
ANISOU	779	CG	ASP	A	49	5160	6710	4800	-330	230	140	C0

ATOM	780	OD1 ASP A 49	-31.556	-13.308	31.154	1.00	43.61	O0
ANISOU	780	OD1 ASP A 49	5170	6550	4850	-280	270 150	O0
ATOM	781	OD2 ASP A 49	-31.383	-11.833	32.773	1.00	44.56	O0
ANISOU	781	OD2 ASP A 49	5230	6860	4850	-430	240 40	O0
ATOM	782	H ASP A 49	-32.602	-16.132	34.742	1.00	44.15	H0
ANISOU	782	H ASP A 49	5230	6830	4710	-140	120 450	H0
ATOM	783	HA ASP A 49	-33.157	-15.106	32.214	1.00	42.31	H0
ANISOU	783	HA ASP A 49	5090	6340	4650	-190	220 300	H0
ATOM	784	HB2 ASP A 49	-32.293	-13.715	34.127	1.00	44.26	H0
ANISOU	784	HB2 ASP A 49	5210	6870	4740	-310	160 220	H0
ATOM	785	HB3 ASP A 49	-30.894	-14.340	33.736	1.00	45.01	H0
ANISOU	785	HB3 ASP A 49	5210	7030	4870	-230	140 270	H0
ATOM	786	N VAL A 50	-31.683	-16.741	30.999	1.00	41.37	N0
ANISOU	786	N VAL A 50	4940	6160	4630	-20	230 410	N0
ATOM	787	CA VAL A 50	-30.863	-17.797	30.325	1.00	41.73	C0
ANISOU	787	CA VAL A 50	4970	6160	4730	100	240 480	C0
ATOM	788	C VAL A 50	-30.402	-17.317	28.941	1.00	40.45	C0
ANISOU	788	C VAL A 50	4800	5920	4640	80	290 400	C0
ATOM	789	O VAL A 50	-31.131	-16.556	28.289	1.00	38.48	O0
ANISOU	789	O VAL A 50	4610	5590	4410	0	330 330	O0
ATOM	790	CB VAL A 50	-31.615	-19.139	30.213	1.00	41.66	C0
ANISOU	790	CB VAL A 50	5070	6010	4750	170	270 570	C0
ATOM	791	CG1 VAL A 50	-31.933	-19.720	31.580	1.00	42.48	C0
ANISOU	791	CG1 VAL A 50	5180	6180	4780	190	230 660	C0
ATOM	792	CG2 VAL A 50	-32.874	-19.026	29.370	1.00	40.23	C0
ANISOU	792	CG2 VAL A 50	4990	5680	4610	100	310 520	C0
ATOM	793	H VAL A 50	-32.313	-16.365	30.459	1.00	40.81	H0
ANISOU	793	H VAL A 50	4920	6000	4580	-60	260 370	H0
ATOM	794	HA VAL A 50	-30.069	-17.947	30.867	1.00	42.44	H0
ANISOU	794	HA VAL A 50	4980	6360	4790	140	210 510	H0
ATOM	795	HB VAL A 50	-31.010	-19.774	29.756	1.00	42.08	H0
ANISOU	795	HB VAL A 50	5120	6030	4840	240	280 610	H0
ATOM	796	HG11 VAL A 50	-31.117	-19.776	32.107	1.00	43.27	H0
ANISOU	796	HG11 VAL A 50	5210	6390	4840	240	190 700	H0
ATOM	797	HG12 VAL A 50	-32.312	-20.610	31.475	1.00	42.66	H0
ANISOU	797	HG12 VAL A 50	5280	6100	4820	230	250 720	H0
ATOM	798	HG13 VAL A 50	-32.574	-19.147	32.036	1.00	42.06	H0
ANISOU	798	HG13 VAL A 50	5140	6160	4680	110	220 630	H0
ATOM	799	HG21 VAL A 50	-33.443	-18.322	29.726	1.00	39.90	H0
ANISOU	799	HG21 VAL A 50	4950	5670	4540	30	300 470	H0
ATOM	800	HG22 VAL A 50	-33.356	-19.872	29.392	1.00	40.49	H0
ANISOU	800	HG22 VAL A 50	5090	5640	4650	120	330 570	H0
ATOM	801	HG23 VAL A 50	-32.635	-18.816	28.452	1.00	39.97	H0
ANISOU	801	HG23 VAL A 50	4960	5600	4620	100	340 470	H0
ATOM	802	N VAL A 51	-29.211	-17.769	28.537	1.00	41.25	N0
ANISOU	802	N VAL A 51	4830	6070	4780	160	300 430	N0
ATOM	803	CA VAL A 51	-28.634	-17.622	27.168	1.00	40.32	C0
ANISOU	803	CA VAL A 51	4710	5890	4730	170	360 370	C0
ATOM	804	C VAL A 51	-28.632	-19.012	26.531	1.00	40.10	C0
ANISOU	804	C VAL A 51	4740	5730	4760	290	390 440	C0
ATOM	805	O VAL A 51	-28.137	-19.953	27.172	1.00	40.91	O0
ANISOU	805	O VAL A 51	4810	5880	4850	410	360 540	O0
ATOM	806	CB VAL A 51	-27.216	-17.022	27.192	1.00	40.92	C0
ANISOU	806	CB VAL A 51	4630	6120	4790	160	350 330	C0

ATOM	807	CG1 VAL A 51	-26.676	-16.820	25.782	1.00	40.67	C0	
ANISOU	807	CG1 VAL A 51	4600	6020	4830	150	420	270	C0
ATOM	808	CG2 VAL A 51	-27.155	-15.727	27.984	1.00	40.77	C0	
ANISOU	808	CG2 VAL A 51	4550	6230	4710	30	320	250	C0
ATOM	809	H VAL A 51	-28.653	-18.216	29.102	1.00	41.91	H0	
ANISOU	809	H VAL A 51	4850	6240	4840	220	270	480	H0
ATOM	810	HA VAL A 51	-29.211	-17.039	26.650	1.00	39.51	H0	
ANISOU	810	HA VAL A 51	4660	5710	4640	100	390	320	H0
ATOM	811	HB VAL A 51	-26.629	-17.677	27.644	1.00	41.82	H0	
ANISOU	811	HB VAL A 51	4680	6310	4890	250	320	390	H0
ATOM	812	HG11 VAL A 51	-26.451	-17.682	25.392	1.00	41.01	H0	
ANISOU	812	HG11 VAL A 51	4660	6020	4910	250	440	310	H0
ATOM	813	HG12 VAL A 51	-25.879	-16.263	25.815	1.00	41.21	H0	
ANISOU	813	HG12 VAL A 51	4580	6200	4880	110	430	220	H0
ATOM	814	HG13 VAL A 51	-27.352	-16.384	25.234	1.00	39.85	H0	
ANISOU	814	HG13 VAL A 51	4590	5820	4740	90	450	230	H0
ATOM	815	HG21 VAL A 51	-27.825	-15.108	27.647	1.00	40.02	H0	
ANISOU	815	HG21 VAL A 51	4540	6050	4620	-50	350	200	H0
ATOM	816	HG22 VAL A 51	-26.271	-15.330	27.892	1.00	41.43	H0	
ANISOU	816	HG22 VAL A 51	4550	6410	4780	0	330	210	H0
ATOM	817	HG23 VAL A 51	-27.329	-15.912	28.923	1.00	41.16	H0	
ANISOU	817	HG23 VAL A 51	4580	6350	4710	40	280	290	H0
ATOM	818	N PHE A 52	-29.179	-19.135	25.326	1.00	38.97	N0	
ANISOU	818	N PHE A 52	4700	5440	4670	280	450	410	N0
ATOM	819	CA PHE A 52	-29.271	-20.420	24.592	1.00	39.66	C0	
ANISOU	819	CA PHE A 52	4870	5380	4810	370	500	450	C0
ATOM	820	C PHE A 52	-29.241	-20.162	23.084	1.00	39.34	C0	
ANISOU	820	C PHE A 52	4870	5250	4820	340	560	370	C0
ATOM	821	O PHE A 52	-29.619	-19.052	22.636	1.00	38.04	O0	
ANISOU	821	O PHE A 52	4720	5090	4640	240	570	300	O0
ATOM	822	CB PHE A 52	-30.548	-21.154	24.997	1.00	39.51	C0	
ANISOU	822	CB PHE A 52	4970	5260	4780	350	500	500	C0
ATOM	823	CG PHE A 52	-31.808	-20.397	24.674	1.00	38.79	C0	
ANISOU	823	CG PHE A 52	4940	5120	4680	230	500	430	C0
ATOM	824	CD1 PHE A 52	-32.316	-19.459	25.557	1.00	38.69	C0	
ANISOU	824	CD1 PHE A 52	4900	5200	4610	150	450	410	C0
ATOM	825	CD2 PHE A 52	-32.470	-20.605	23.474	1.00	38.41	C0	
ANISOU	825	CD2 PHE A 52	4980	4950	4660	200	550	380	C0
ATOM	826	CE1 PHE A 52	-33.470	-18.754	25.249	1.00	38.25	C0	
ANISOU	826	CE1 PHE A 52	4890	5110	4530	70	460	350	C0
ATOM	827	CE2 PHE A 52	-33.625	-19.904	23.172	1.00	37.61	C0	
ANISOU	827	CE2 PHE A 52	4920	4830	4530	110	540	320	C0
ATOM	828	CZ PHE A 52	-34.125	-18.982	24.061	1.00	37.49	C0	
ANISOU	828	CZ PHE A 52	4870	4900	4470	50	500	310	C0
ATOM	829	H PHE A 52	-29.542	-18.439	24.864	1.00	38.49	H0	
ANISOU	829	H PHE A 52	4660	5350	4610	200	470	350	H0
ATOM	830	HA PHE A 52	-28.491	-20.978	24.832	1.00	40.55	H0	
ANISOU	830	HA PHE A 52	4930	5540	4940	460	490	500	H0
ATOM	831	HB2 PHE A 52	-30.569	-22.020	24.539	1.00	39.94	H0	
ANISOU	831	HB2 PHE A 52	5090	5220	4870	410	530	530	H0
ATOM	832	HB3 PHE A 52	-30.517	-21.324	25.962	1.00	40.03	H0	
ANISOU	832	HB3 PHE A 52	5010	5390	4810	370	460	550	H0
ATOM	833	HD1 PHE A 52	-31.873	-19.300	26.374	1.00	39.13	H0	
ANISOU	833	HD1 PHE A 52	4890	5350	4630	170	420	440	H0

ATOM	834	HD2 PHE A	52	-32.134	-21.239	22.862	1.00	38.78	H0	
ANISOU	834	HD2 PHE A	52	5060	4930	4740	250	580	390	H0
ATOM	835	HE1 PHE A	52	-33.812	-18.123	25.861	1.00	37.82	H0	
ANISOU	835	HE1 PHE A	52	4820	5110	4440	20	430	330	H0
ATOM	836	HE2 PHE A	52	-34.071	-20.061	22.355	1.00	37.42	H0	
ANISOU	836	HE2 PHE A	52	4950	4740	4520	90	570	290	H0
ATOM	837	HZ PHE A	52	-34.911	-18.502	23.854	1.00	36.97	H0	
ANISOU	837	HZ PHE A	52	4830	4830	4390	0	500	270	H0
ATOM	838	N TRP A	53	-28.799	-21.160	22.318	1.00	40.13	N0	
ANISOU	838	N TRP A	53	5010	5260	4980	430	620	390	N0
ATOM	839	CA TRP A	53	-28.981	-21.179	20.846	1.00	40.04	C0	
ANISOU	839	CA TRP A	53	5070	5140	5000	400	680	330	C0
ATOM	840	C TRP A	53	-30.357	-21.776	20.564	1.00	39.80	C0	
ANISOU	840	C TRP A	53	5180	4970	4970	360	700	320	C0
ATOM	841	O TRP A	53	-30.630	-22.886	21.049	1.00	40.40	O0	
ANISOU	841	O TRP A	53	5310	4980	5060	410	700	390	O0
ATOM	842	CB TRP A	53	-27.874	-21.955	20.123	1.00	40.91	C0	
ANISOU	842	CB TRP A	53	5150	5220	5160	510	740	330	C0
ATOM	843	CG TRP A	53	-26.481	-21.536	20.470	1.00	41.38	C0	
ANISOU	843	CG TRP A	53	5050	5450	5220	570	730	340	C0
ATOM	844	CD1 TRP A	53	-26.069	-20.334	20.962	1.00	41.02	C0	
ANISOU	844	CD1 TRP A	53	4900	5550	5140	490	690	300	C0
ATOM	845	CD2 TRP A	53	-25.294	-22.330	20.313	1.00	42.88	C0	
ANISOU	845	CD2 TRP A	53	5170	5670	5450	710	770	370	C0
ATOM	846	NE1 TRP A	53	-24.712	-20.334	21.143	1.00	42.19	N0	
ANISOU	846	NE1 TRP A	53	4900	5840	5290	560	690	300	N0
ATOM	847	CE2 TRP A	53	-24.209	-21.544	20.753	1.00	43.29	C0	
ANISOU	847	CE2 TRP A	53	5050	5920	5480	710	730	350	C0
ATOM	848	CE3 TRP A	53	-25.048	-23.630	19.859	1.00	43.96	C0	
ANISOU	848	CE3 TRP A	53	5370	5690	5640	850	830	410	C0
ATOM	849	CZ2 TRP A	53	-22.898	-22.015	20.740	1.00	45.07	C0	
ANISOU	849	CZ2 TRP A	53	5140	6260	5730	840	750	370	C0
ATOM	850	CZ3 TRP A	53	-23.754	-24.099	19.854	1.00	45.63	C0	
ANISOU	850	CZ3 TRP A	53	5470	5990	5880	990	850	440	C0
ATOM	851	CH2 TRP A	53	-22.697	-23.300	20.291	1.00	46.23	C0	
ANISOU	851	CH2 TRP A	53	5350	6290	5930	990	810	420	C0
ATOM	852	H TRP A	53	-28.363	-21.890	22.647	1.00	40.95	H0	
ANISOU	852	H TRP A	53	5100	5370	5090	520	620	450	H0
ATOM	853	HA TRP A	53	-28.960	-20.250	20.524	1.00	39.49	H0	
ANISOU	853	HA TRP A	53	4980	5110	4920	330	680	270	H0
ATOM	854	HB2 TRP A	53	-27.981	-22.905	20.333	1.00	41.41	H0	
ANISOU	854	HB2 TRP A	53	5270	5220	5250	590	760	380	H0
ATOM	855	HB3 TRP A	53	-28.007	-21.848	19.159	1.00	40.56	H0	
ANISOU	855	HB3 TRP A	53	5160	5120	5130	480	790	280	H0
ATOM	856	HD1 TRP A	53	-26.635	-19.606	21.166	1.00	40.37	H0	
ANISOU	856	HD1 TRP A	53	4840	5480	5030	400	670	270	H0
ATOM	857	HE1 TRP A	53	-24.245	-19.664	21.453	1.00	42.47	H0	
ANISOU	857	HE1 TRP A	53	4840	5990	5300	510	670	270	H0
ATOM	858	HE3 TRP A	53	-25.759	-24.177	19.564	1.00	43.71	H0	
ANISOU	858	HE3 TRP A	53	5460	5530	5620	840	850	410	H0
ATOM	859	HZ2 TRP A	53	-22.183	-21.479	21.039	1.00	45.53	H0	
ANISOU	859	HZ2 TRP A	53	5070	6460	5760	820	730	350	H0
ATOM	860	HZ3 TRP A	53	-23.577	-24.974	19.548	1.00	46.30	H0	
ANISOU	860	HZ3 TRP A	53	5610	5990	6000	1100	900	460	H0

ATOM	861	HH2	TRP	A	53	-21.825	-23.647	20.275	1.00	47.22	H0	
ANISOU	861	HH2	TRP	A	53	5390	6480	6070	1100	830	440	H0
ATOM	862	N	GLN	A	54	-31.202	-21.035	19.854	1.00	39.88	N0	
ANISOU	862	N	GLN	A	54	5240	4960	4960	260	700	260	N0
ATOM	863	CA	GLN	A	54	-32.488	-21.547	19.323	1.00	40.79	C0	
ANISOU	863	CA	GLN	A	54	5470	4970	5070	210	720	230	C0
ATOM	864	C	GLN	A	54	-32.179	-22.131	17.943	1.00	40.69	C0	
ANISOU	864	C	GLN	A	54	5510	4860	5090	230	790	180	C0
ATOM	865	O	GLN	A	54	-32.270	-21.390	16.947	1.00	38.86	O0	
ANISOU	865	O	GLN	A	54	5290	4640	4840	190	810	120	O0
ATOM	866	CB	GLN	A	54	-33.534	-20.432	19.306	1.00	41.12	C0	
ANISOU	866	CB	GLN	A	54	5510	5050	5060	120	680	180	C0
ATOM	867	CG	GLN	A	54	-34.957	-20.945	19.171	1.00	42.48	C0	
ANISOU	867	CG	GLN	A	54	5760	5170	5210	60	680	170	C0
ATOM	868	CD	GLN	A	54	-35.960	-19.845	19.424	1.00	43.65	C0	
ANISOU	868	CD	GLN	A	54	5890	5390	5300	-10	630	140	C0
ATOM	869	OE1	GLN	A	54	-36.089	-19.341	20.541	1.00	44.73	O0	
ANISOU	869	OE1	GLN	A	54	5980	5590	5420	-20	590	160	O0
ATOM	870	NE2	GLN	A	54	-36.672	-19.456	18.379	1.00	43.96	N0	
ANISOU	870	NE2	GLN	A	54	5970	5420	5320	-40	640	80	N0
ATOM	871	H	GLN	A	54	-31.040	-20.162	19.650	1.00	39.56	H0	
ANISOU	871	H	GLN	A	54	5160	4960	4900	220	700	220	H0
ATOM	872	HA	GLN	A	54	-32.805	-22.271	19.911	1.00	41.03	H0	
ANISOU	872	HA	GLN	A	54	5530	4960	5100	230	710	270	H0
ATOM	873	HB2	GLN	A	54	-33.455	-19.919	20.137	1.00	41.03	H0	
ANISOU	873	HB2	GLN	A	54	5450	5110	5030	110	640	200	H0
ATOM	874	HB3	GLN	A	54	-33.338	-19.828	18.561	1.00	40.92	H0	
ANISOU	874	HB3	GLN	A	54	5490	5030	5030	100	700	140	H0
ATOM	875	HG2	GLN	A	54	-35.090	-21.307	18.269	1.00	42.68	H0	
ANISOU	875	HG2	GLN	A	54	5840	5140	5240	50	710	130	H0
ATOM	876	HG3	GLN	A	54	-35.105	-21.671	19.814	1.00	42.92	H0	
ANISOU	876	HG3	GLN	A	54	5840	5200	5270	70	680	210	H0
ATOM	877	HE21	GLN	A	54	-37.458	-19.066	18.501	1.00	43.52	H0	
ANISOU	877	HE21	GLN	A	54	5910	5390	5230	-70	620	60	H0
ATOM	878	HE22	GLN	A	54	-36.364	-19.582	17.559	1.00	43.88	H0	
ANISOU	878	HE22	GLN	A	54	5990	5370	5310	-30	670	50	H0
ATOM	879	N	GLN	A	55	-31.749	-23.393	17.914	1.00	41.71	N0	
ANISOU	879	N	GLN	A	55	5690	4900	5260	310	840	220	N0
ATOM	880	CA	GLN	A	55	-31.279	-24.078	16.683	1.00	43.04	C0	
ANISOU	880	CA	GLN	A	55	5910	4970	5460	350	920	180	C0
ATOM	881	C	GLN	A	55	-32.509	-24.470	15.865	1.00	42.30	C0	
ANISOU	881	C	GLN	A	55	5940	4790	5350	260	950	110	C0
ATOM	882	O	GLN	A	55	-33.256	-25.367	16.304	1.00	41.37	O0	
ANISOU	882	O	GLN	A	55	5900	4590	5230	230	960	140	O0
ATOM	883	CB	GLN	A	55	-30.391	-25.270	17.034	1.00	44.71	C0	
ANISOU	883	CB	GLN	A	55	6140	5120	5730	490	970	240	C0
ATOM	884	CG	GLN	A	55	-29.142	-24.870	17.807	1.00	45.92	C0	
ANISOU	884	CG	GLN	A	55	6150	5400	5890	580	930	300	C0
ATOM	885	CD	GLN	A	55	-28.222	-26.038	18.061	1.00	48.09	C0	
ANISOU	885	CD	GLN	A	55	6430	5630	6220	750	980	370	C0
ATOM	886	OE1	GLN	A	55	-27.059	-26.033	17.668	1.00	50.37	O0	
ANISOU	886	OE1	GLN	A	55	6630	5970	6530	840	1010	360	O0
ATOM	887	NE2	GLN	A	55	-28.748	-27.064	18.708	1.00	49.57	N0	
ANISOU	887	NE2	GLN	A	55	6720	5710	6410	790	990	440	N0

ATOM	888	H	GLN	A	55	-31.721	-23.917	18.658	1.00	42.29	H0	
ANISOU	888	H	GLN	A	55	5760	4960	5340	350	830	280	H0
ATOM	889	HA	GLN	A	55	-30.747	-23.436	16.161	1.00	42.68	H0	
ANISOU	889	HA	GLN	A	55	5820	4980	5420	350	930	140	H0
ATOM	890	HB2	GLN	A	55	-30.912	-25.903	17.568	1.00	45.10	H0	
ANISOU	890	HB2	GLN	A	55	6250	5110	5780	480	960	280	H0
ATOM	891	HB3	GLN	A	55	-30.127	-25.720	16.205	1.00	45.28	H0	
ANISOU	891	HB3	GLN	A	55	6250	5120	5820	510	1030	200	H0
ATOM	892	HG2	GLN	A	55	-28.656	-24.184	17.302	1.00	45.64	H0	
ANISOU	892	HG2	GLN	A	55	6050	5430	5860	570	940	250	H0
ATOM	893	HG3	GLN	A	55	-29.406	-24.479	18.667	1.00	45.54	H0	
ANISOU	893	HG3	GLN	A	55	6060	5420	5820	560	870	330	H0
ATOM	894	HE21	GLN	A	55	-28.386	-27.867	18.633	1.00	50.27	H0	
ANISOU	894	HE21	GLN	A	55	6850	5720	6530	880	1040	470	H0
ATOM	895	HE22	GLN	A	55	-29.462	-26.949	19.217	1.00	48.85	H0	
ANISOU	895	HE22	GLN	A	55	6650	5620	6290	720	950	450	H0
ATOM	896	N	THR	A	56	-32.713	-23.782	14.739	1.00	40.82	N0	
ANISOU	896	N	THR	A	56	5760	4620	5130	200	960	40	N0
ATOM	897	CA	THR	A	56	-33.920	-23.879	13.881	1.00	40.72	C0	
ANISOU	897	CA	THR	A	56	5830	4580	5070	100	960	-30	C0
ATOM	898	C	THR	A	56	-33.493	-24.276	12.462	1.00	40.45	C0	
ANISOU	898	C	THR	A	56	5850	4480	5030	110	1040	-100	C0
ATOM	899	O	THR	A	56	-32.835	-23.458	11.790	1.00	40.47	O0	
ANISOU	899	O	THR	A	56	5820	4540	5020	130	1050	-130	O0
ATOM	900	CB	THR	A	56	-34.704	-22.560	13.919	1.00	40.13	C0	
ANISOU	900	CB	THR	A	56	5710	4610	4930	40	890	-50	C0
ATOM	901	OG1	THR	A	56	-34.706	-22.087	15.266	1.00	40.44	O0	
ANISOU	901	OG1	THR	A	56	5680	4710	4970	50	830	10	O0
ATOM	902	CG2	THR	A	56	-36.130	-22.707	13.439	1.00	40.36	C0	
ANISOU	902	CG2	THR	A	56	5790	4640	4900	-50	870	-110	C0
ATOM	903	H	THR	A	56	-32.106	-23.188	14.410	1.00	40.94	H0	
ANISOU	903	H	THR	A	56	5730	4690	5140	220	960	20	H0
ATOM	904	HA	THR	A	56	-34.493	-24.588	14.244	1.00	40.91	H0	
ANISOU	904	HA	THR	A	56	5900	4550	5100	80	970	-20	H0
ATOM	905	HB	THR	A	56	-34.239	-21.903	13.348	1.00	40.07	H0	
ANISOU	905	HB	THR	A	56	5680	4630	4910	50	900	-70	H0
ATOM	906	HG21	THR	A	56	-36.133	-23.001	12.511	1.00	40.60	H0	
ANISOU	906	HG21	THR	A	56	5870	4640	4920	-70	910	-160	H0
ATOM	907	HG22	THR	A	56	-36.587	-21.849	13.508	1.00	39.74	H0	
ANISOU	907	HG22	THR	A	56	5680	4640	4780	-70	830	-110	H0
ATOM	908	HG23	THR	A	56	-36.593	-23.364	13.989	1.00	40.52	H0	
ANISOU	908	HG23	THR	A	56	5830	4630	4930	-80	870	-90	H0
ATOM	909	N	THR	A	57	-33.847	-25.484	12.028	1.00	40.41	N0	
ANISOU	909	N	THR	A	57	5950	4360	5040	90	1100	-140	N0
ATOM	910	CA	THR	A	57	-33.565	-25.991	10.660	1.00	40.51	C0	
ANISOU	910	CA	THR	A	57	6030	4310	5050	80	1180	-220	C0
ATOM	911	C	THR	A	57	-34.887	-26.372	9.988	1.00	40.06	C0	
ANISOU	911	C	THR	A	57	6060	4230	4930	-40	1180	-310	C0
ATOM	912	O	THR	A	57	-35.811	-26.839	10.684	1.00	39.08	O0	
ANISOU	912	O	THR	A	57	5960	4090	4800	-110	1160	-300	O0
ATOM	913	CB	THR	A	57	-32.588	-27.172	10.659	1.00	42.03	C0	
ANISOU	913	CB	THR	A	57	6280	4380	5320	180	1280	-210	C0
ATOM	914	OG1	THR	A	57	-33.302	-28.315	11.119	1.00	43.81	O0	
ANISOU	914	OG1	THR	A	57	6600	4480	5560	150	1310	-200	O0

ATOM	915	CG2 THR A 57	-31.361	-26.959	11.518	1.00	42.48	C0	
ANISOU	915	CG2 THR A 57	6230	4470	5430	320	1270	-120	C0
ATOM	916	H THR A 57	-34.289	-26.092	12.542	1.00	40.75	H0	
ANISOU	916	H THR A 57	6030	4360	5100	70	1100	-120	H0
ATOM	917	HA THR A 57	-33.160	-25.258	10.148	1.00	40.23	H0	
ANISOU	917	HA THR A 57	5960	4330	4990	90	1180	-240	H0
ATOM	918	HB THR A 57	-32.299	-27.331	9.729	1.00	42.66	H0	
ANISOU	918	HB THR A 57	6390	4430	5390	180	1330	-270	H0
ATOM	919	HG21 THR A 57	-30.944	-26.109	11.285	1.00	41.88	H0	
ANISOU	919	HG21 THR A 57	6090	4490	5340	320	1240	-120	H0
ATOM	920	HG22 THR A 57	-30.727	-27.682	11.365	1.00	43.26	H0	
ANISOU	920	HG22 THR A 57	6360	4500	5570	390	1330	-110	H0
ATOM	921	HG23 THR A 57	-31.618	-26.947	12.457	1.00	42.14	H0	
ANISOU	921	HG23 THR A 57	6170	4450	5390	320	1220	-60	H0
ATOM	922	N TRP A 58	-34.963	-26.147	8.680	1.00	39.56	N0	
ANISOU	922	N TRP A 58	6030	4190	4810	-80	1210	-390	N0
ATOM	923	CA TRP A 58	-36.096	-26.538	7.802	1.00	39.68	C0	
ANISOU	923	CA TRP A 58	6120	4220	4740	-210	1210	-490	C0
ATOM	924	C TRP A 58	-35.586	-26.559	6.360	1.00	40.71	C0	
ANISOU	924	C TRP A 58	6300	4340	4830	-210	1280	-570	C0
ATOM	925	O TRP A 58	-34.431	-26.159	6.134	1.00	39.64	O0	
ANISOU	925	O TRP A 58	6130	4200	4730	-110	1310	-540	O0
ATOM	926	CB TRP A 58	-37.282	-25.579	7.974	1.00	38.03	C0	
ANISOU	926	CB TRP A 58	5840	4150	4450	-280	1110	-490	C0
ATOM	927	CG TRP A 58	-37.019	-24.185	7.495	1.00	36.51	C0	
ANISOU	927	CG TRP A 58	5590	4070	4210	-230	1060	-470	C0
ATOM	928	CD1 TRP A 58	-37.347	-23.669	6.276	1.00	36.56	C0	
ANISOU	928	CD1 TRP A 58	5620	4150	4120	-260	1050	-520	C0
ATOM	929	CD2 TRP A 58	-36.369	-23.122	8.218	1.00	35.38	C0	
ANISOU	929	CD2 TRP A 58	5370	3970	4100	-160	1020	-380	C0
ATOM	930	NE1 TRP A 58	-36.950	-22.363	6.190	1.00	35.77	N0	
ANISOU	930	NE1 TRP A 58	5470	4120	4000	-210	1010	-470	N0
ATOM	931	CE2 TRP A 58	-36.338	-22.002	7.359	1.00	34.69	C0	
ANISOU	931	CE2 TRP A 58	5280	3970	3940	-150	1000	-390	C0
ATOM	932	CE3 TRP A 58	-35.808	-23.004	9.496	1.00	34.87	C0	
ANISOU	932	CE3 TRP A 58	5250	3890	4110	-100	1000	-300	C0
ATOM	933	CZ2 TRP A 58	-35.775	-20.786	7.739	1.00	34.03	C0	
ANISOU	933	CZ2 TRP A 58	5140	3930	3860	-100	980	-330	C0
ATOM	934	CZ3 TRP A 58	-35.255	-21.800	9.873	1.00	34.24	C0	
ANISOU	934	CZ3 TRP A 58	5100	3880	4030	-50	970	-250	C0
ATOM	935	CH2 TRP A 58	-35.237	-20.707	9.003	1.00	33.73	C0	
ANISOU	935	CH2 TRP A 58	5040	3870	3900	-60	960	-270	C0
ATOM	936	H TRP A 58	-34.300	-25.720	8.224	1.00	39.56	H0	
ANISOU	936	H TRP A 58	6010	4220	4810	-40	1230	-390	H0
ATOM	937	HA TRP A 58	-36.388	-27.445	8.056	1.00	40.30	H0	
ANISOU	937	HA TRP A 58	6250	4210	4850	-240	1250	-500	H0
ATOM	938	HB2 TRP A 58	-38.047	-25.945	7.485	1.00	38.52	H0	
ANISOU	938	HB2 TRP A 58	5940	4230	4460	-360	1110	-550	H0
ATOM	939	HB3 TRP A 58	-37.520	-25.551	8.923	1.00	37.70	H0	
ANISOU	939	HB3 TRP A 58	5770	4110	4440	-270	1070	-440	H0
ATOM	940	HD1 TRP A 58	-37.784	-24.142	5.584	1.00	37.17	H0	
ANISOU	940	HD1 TRP A 58	5740	4230	4150	-320	1070	-590	H0
ATOM	941	HE1 TRP A 58	-37.055	-21.851	5.492	1.00	35.80	H0	
ANISOU	941	HE1 TRP A 58	5490	4170	3940	-210	1010	-490	H0

ATOM	942	HE3	TRP	A	58	-35.811	-23.738	10.089	1.00	35.17	H0	
ANISOU	942	HE3	TRP	A	58	5300	3870	4190	-90	1020	-280	H0
ATOM	943	HZ2	TRP	A	58	-35.771	-20.048	7.156	1.00	34.06	H0	
ANISOU	943	HZ2	TRP	A	58	5160	3970	3810	-90	970	-340	H0
ATOM	944	HZ3	TRP	A	58	-34.870	-21.714	10.731	1.00	33.95	H0	
ANISOU	944	HZ3	TRP	A	58	5020	3840	4040	-20	960	-200	H0
ATOM	945	HH2	TRP	A	58	-34.851	-19.897	9.288	1.00	33.43	H0	
ANISOU	945	HH2	TRP	A	58	4970	3870	3870	-40	950	-240	H0
ATOM	946	N	SER	A	59	-36.425	-26.997	5.427	1.00	42.48	N0	
ANISOU	946	N	SER	A	59	6590	4580	4980	-310	1290	-670	N0
ATOM	947	CA	SER	A	59	-36.071	-27.147	3.996	1.00	44.08	C0	
ANISOU	947	CA	SER	A	59	6850	4770	5120	-330	1360	-760	C0
ATOM	948	C	SER	A	59	-36.994	-26.265	3.153	1.00	43.89	C0	
ANISOU	948	C	SER	A	59	6800	4910	4960	-400	1280	-800	C0
ATOM	949	O	SER	A	59	-38.184	-26.141	3.493	1.00	43.76	O0	
ANISOU	949	O	SER	A	59	6750	4980	4890	-480	1200	-810	O0
ATOM	950	CB	SER	A	59	-36.136	-28.589	3.589	1.00	46.18	C0	
ANISOU	950	CB	SER	A	59	7240	4900	5410	-390	1460	-850	C0
ATOM	951	OG	SER	A	59	-35.557	-28.775	2.311	1.00	49.29	O0	
ANISOU	951	OG	SER	A	59	7690	5270	5760	-390	1550	-940	O0
ATOM	952	H	SER	A	59	-37.286	-27.239	5.600	1.00	42.54	H0	
ANISOU	952	H	SER	A	59	6600	4600	4960	-390	1270	-690	H0
ATOM	953	HA	SER	A	59	-35.137	-26.827	3.871	1.00	43.90	H0	
ANISOU	953	HA	SER	A	59	6810	4740	5130	-250	1390	-730	H0
ATOM	954	HB2	SER	A	59	-35.654	-29.136	4.249	1.00	46.77	H0	
ANISOU	954	HB2	SER	A	59	7330	4870	5570	-330	1510	-810	H0
ATOM	955	HB3	SER	A	59	-37.074	-28.883	3.572	1.00	46.83	H0	
ANISOU	955	HB3	SER	A	59	7340	5010	5450	-490	1440	-900	H0
ATOM	956	N	ASP	A	60	-36.440	-25.648	2.112	1.00	44.07	N0	
ANISOU	956	N	ASP	A	60	6840	4990	4930	-370	1300	-820	N0
ATOM	957	CA	ASP	A	60	-37.205	-24.933	1.061	1.00	44.13	C0	
ANISOU	957	CA	ASP	A	60	6850	5140	4780	-420	1250	-870	C0
ATOM	958	C	ASP	A	60	-36.546	-25.290	-0.275	1.00	45.08	C0	
ANISOU	958	C	ASP	A	60	7050	5230	4850	-440	1340	-950	C0
ATOM	959	O	ASP	A	60	-35.549	-24.649	-0.633	1.00	45.25	O0	
ANISOU	959	O	ASP	A	60	7060	5250	4880	-360	1380	-910	O0
ATOM	960	CB	ASP	A	60	-37.262	-23.438	1.382	1.00	43.46	C0	
ANISOU	960	CB	ASP	A	60	6690	5160	4670	-360	1160	-770	C0
ATOM	961	CG	ASP	A	60	-38.081	-22.605	0.414	1.00	44.05	C0	
ANISOU	961	CG	ASP	A	60	6770	5390	4580	-380	1090	-790	C0
ATOM	962	OD1	ASP	A	60	-38.653	-23.178	-0.537	1.00	45.08	O0	
ANISOU	962	OD1	ASP	A	60	6940	5570	4620	-460	1100	-880	O0
ATOM	963	OD2	ASP	A	60	-38.131	-21.381	0.620	1.00	44.64	O0	
ANISOU	963	OD2	ASP	A	60	6800	5530	4630	-310	1040	-700	O0
ATOM	964	H	ASP	A	60	-35.538	-25.623	1.984	1.00	44.07	H0	
ANISOU	964	H	ASP	A	60	6840	4940	4970	-310	1360	-810	H0
ATOM	965	HA	ASP	A	60	-38.127	-25.282	1.058	1.00	44.56	H0	
ANISOU	965	HA	ASP	A	60	6900	5240	4790	-500	1210	-910	H0
ATOM	966	HB2	ASP	A	60	-37.642	-23.324	2.277	1.00	42.87	H0	
ANISOU	966	HB2	ASP	A	60	6560	5090	4630	-350	1110	-720	H0
ATOM	967	HB3	ASP	A	60	-36.350	-23.083	1.393	1.00	43.17	H0	
ANISOU	967	HB3	ASP	A	60	6650	5080	4670	-300	1200	-730	H0
ATOM	968	N	ARG	A	61	-37.075	-26.306	-0.959	1.00	46.06	N0	
ANISOU	968	N	ARG	A	61	7240	5330	4920	-540	1390	-1070	N0

ATOM	969	CA	ARG	A	61	-36.447	-26.919	-2.159	1.00	47.62	C0	
ANISOU	969	CA	ARG	A	61	7540	5480	5080	-560	1500	-1170	C0
ATOM	970	C	ARG	A	61	-36.536	-25.964	-3.361	1.00	46.99	C0	
ANISOU	970	C	ARG	A	61	7460	5550	4840	-560	1470	-1180	C0
ATOM	971	O	ARG	A	61	-35.876	-26.253	-4.368	1.00	47.61	O0	
ANISOU	971	O	ARG	A	61	7610	5600	4880	-570	1560	-1250	O0
ATOM	972	CB	ARG	A	61	-37.089	-28.277	-2.459	1.00	49.67	C0	
ANISOU	972	CB	ARG	A	61	7880	5670	5320	-690	1560	-1310	C0
ATOM	973	CG	ARG	A	61	-36.813	-29.350	-1.412	1.00	50.48	C0	
ANISOU	973	CG	ARG	A	61	8020	5580	5570	-670	1630	-1290	C0
ATOM	974	CD	ARG	A	61	-35.391	-29.876	-1.482	1.00	51.61	C0	
ANISOU	974	CD	ARG	A	61	8220	5560	5820	-560	1760	-1280	C0
ATOM	975	NE	ARG	A	61	-35.158	-30.725	-2.648	1.00	53.90	N0	
ANISOU	975	NE	ARG	A	61	8630	5780	6060	-620	1880	-1420	N0
ATOM	976	CZ	ARG	A	61	-33.961	-31.041	-3.149	1.00	54.87	C0	
ANISOU	976	CZ	ARG	A	61	8800	5810	6240	-520	2000	-1440	C0
ATOM	977	NH1	ARG	A	61	-32.852	-30.579	-2.596	1.00	54.00	N0	
ANISOU	977	NH1	ARG	A	61	8610	5680	6230	-370	2010	-1330	N0
ATOM	978	NH2	ARG	A	61	-33.880	-31.826	-4.212	1.00	56.80	N0	
ANISOU	978	NH2	ARG	A	61	9160	6000	6420	-590	2110	-1580	N0
ATOM	979	H	ARG	A	61	-37.867	-26.690	-0.725	1.00	46.42	H0	
ANISOU	979	H	ARG	A	61	7290	5400	4950	-610	1350	-1100	H0
ATOM	980	HA	ARG	A	61	-35.495	-27.065	-1.958	1.00	47.44	H0	
ANISOU	980	HA	ARG	A	61	7520	5360	5140	-490	1570	-1140	H0
ATOM	981	HB2	ARG	A	61	-38.058	-28.154	-2.535	1.00	49.75	H0	
ANISOU	981	HB2	ARG	A	61	7870	5780	5250	-770	1480	-1330	H0
ATOM	982	HB3	ARG	A	61	-36.759	-28.592	-3.326	1.00	50.50	H0	
ANISOU	982	HB3	ARG	A	61	8050	5760	5380	-710	1620	-1380	H0
ATOM	983	HG2	ARG	A	61	-36.971	-28.978	-0.518	1.00	49.58	H0	
ANISOU	983	HG2	ARG	A	61	7850	5480	5510	-630	1560	-1210	H0
ATOM	984	HG3	ARG	A	61	-37.436	-30.097	-1.542	1.00	51.34	H0	
ANISOU	984	HG3	ARG	A	61	8190	5660	5660	-770	1650	-1370	H0
ATOM	985	HD2	ARG	A	61	-34.774	-29.117	-1.509	1.00	50.91	H0	
ANISOU	985	HD2	ARG	A	61	8080	5520	5740	-470	1740	-1220	H0
ATOM	986	HD3	ARG	A	61	-35.199	-30.390	-0.668	1.00	51.58	H0	
ANISOU	986	HD3	ARG	A	61	8230	5450	5920	-520	1780	-1240	H0
ATOM	987	HE	ARG	A	61	-35.858	-31.056	-3.049	1.00	54.46	H0	
ANISOU	987	HE	ARG	A	61	8740	5880	6070	-720	1870	-1500	H0
ATOM	988	HH11	ARG	A	61	-32.893	-30.063	-1.890	1.00	53.06	H0	
ANISOU	988	HH11	ARG	A	61	8420	5600	6140	-330	1940	-1250	H0
ATOM	989	HH12	ARG	A	61	-32.070	-30.796	-2.936	1.00	54.58	H0	
ANISOU	989	HH12	ARG	A	61	8710	5700	6330	-310	2090	-1350	H0
ATOM	990	HH21	ARG	A	61	-34.614	-32.136	-4.588	1.00	57.23	H0	
ANISOU	990	HH21	ARG	A	61	9260	6080	6410	-700	2100	-1660	H0
ATOM	991	HH22	ARG	A	61	-33.091	-32.034	-4.546	1.00	57.15	H0	
ANISOU	991	HH22	ARG	A	61	9230	5980	6500	-520	2190	-1600	H0
ATOM	992	N	THR	A	62	-37.295	-24.866	-3.258	1.00	45.66	N0	
ANISOU	992	N	THR	A	62	7230	5530	4590	-550	1350	-1120	N0
ATOM	993	CA	THR	A	62	-37.367	-23.799	-4.296	1.00	45.41	C0	
ANISOU	993	CA	THR	A	62	7210	5640	4410	-530	1310	-1090	C0
ATOM	994	C	THR	A	62	-36.036	-23.035	-4.331	1.00	44.17	C0	
ANISOU	994	C	THR	A	62	7060	5420	4310	-430	1370	-1010	C0
ATOM	995	O	THR	A	62	-35.746	-22.440	-5.378	1.00	44.65	O0	
ANISOU	995	O	THR	A	62	7170	5540	4260	-420	1400	-1010	O0

ATOM	996	CB	THR	A	62	-38.545	-22.832	-4.082	1.00	44.81	C0	
ANISOU	996	CB	THR	A	62	7070	5730	4230	-510	1170	-1030	C0
ATOM	997	OG1	THR	A	62	-38.311	-22.049	-2.915	1.00	42.97	O0	
ANISOU	997	OG1	THR	A	62	6770	5450	4110	-430	1120	-910	O0
ATOM	998	CG2	THR	A	62	-39.886	-23.519	-3.951	1.00	45.63	C0	
ANISOU	998	CG2	THR	A	62	7130	5920	4280	-620	1100	-1120	C0
ATOM	999	H	THR	A	62	-37.829	-24.692	-2.544	1.00	45.14	H0	
ANISOU	999	H	THR	A	62	7110	5490	4550	-550	1280	-1080	H0
ATOM	1000	HA	THR	A	62	-37.489	-24.242	-5.167	1.00	46.33	H0	
ANISOU	1000	HA	THR	A	62	7380	5780	4440	-580	1340	-1180	H0
ATOM	1001	HB	THR	A	62	-38.583	-22.227	-4.861	1.00	45.18	H0	
ANISOU	1001	HB	THR	A	62	7140	5860	4170	-490	1150	-1020	H0
ATOM	1002	HG21	THR	A	62	-40.032	-24.097	-4.721	1.00	46.57	H0	
ANISOU	1002	HG21	THR	A	62	7300	6070	4330	-690	1130	-1210	H0
ATOM	1003	HG22	THR	A	62	-40.592	-22.850	-3.912	1.00	45.43	H0	
ANISOU	1003	HG22	THR	A	62	7060	6020	4180	-600	1010	-1080	H0
ATOM	1004	HG23	THR	A	62	-39.902	-24.054	-3.138	1.00	45.19	H0	
ANISOU	1004	HG23	THR	A	62	7060	5780	4330	-640	1110	-1120	H0
ATOM	1005	N	LEU	A	63	-35.263	-23.063	-3.237	1.00	42.83	N0	
ANISOU	1005	N	LEU	A	63	6840	5140	4300	-360	1400	-940	N0
ATOM	1006	CA	LEU	A	63	-33.993	-22.302	-3.076	1.00	42.42	C0	
ANISOU	1006	CA	LEU	A	63	6760	5040	4310	-280	1460	-870	C0
ATOM	1007	C	LEU	A	63	-32.816	-23.097	-3.651	1.00	42.33	C0	
ANISOU	1007	C	LEU	A	63	6790	4940	4350	-270	1600	-930	C0
ATOM	1008	O	LEU	A	63	-31.736	-22.509	-3.779	1.00	41.76	O0	
ANISOU	1008	O	LEU	A	63	6700	4860	4310	-220	1660	-890	O0
ATOM	1009	CB	LEU	A	63	-33.740	-22.017	-1.589	1.00	42.25	C0	
ANISOU	1009	CB	LEU	A	63	6650	4970	4430	-230	1420	-780	C0
ATOM	1010	CG	LEU	A	63	-34.378	-20.755	-1.012	1.00	42.22	C0	
ANISOU	1010	CG	LEU	A	63	6600	5050	4390	-200	1310	-680	C0
ATOM	1011	CD1	LEU	A	63	-35.823	-20.606	-1.459	1.00	43.13	C0	
ANISOU	1011	CD1	LEU	A	63	6740	5280	4370	-250	1220	-710	C0
ATOM	1012	CD2	LEU	A	63	-34.284	-20.753	0.509	1.00	41.03	C0	
ANISOU	1012	CD2	LEU	A	63	6370	4850	4370	-170	1270	-620	C0
ATOM	1013	H	LEU	A	63	-35.480	-23.555	-2.504	1.00	42.69	H0	
ANISOU	1013	H	LEU	A	63	6790	5070	4360	-370	1390	-940	H0
ATOM	1014	HA	LEU	A	63	-34.072	-21.451	-3.566	1.00	42.41	H0	
ANISOU	1014	HA	LEU	A	63	6780	5110	4230	-280	1440	-830	H0
ATOM	1015	HB2	LEU	A	63	-34.056	-22.783	-1.072	1.00	42.22	H0	
ANISOU	1015	HB2	LEU	A	63	6640	4920	4480	-240	1410	-800	H0
ATOM	1016	HB3	LEU	A	63	-32.773	-21.956	-1.452	1.00	42.18	H0	
ANISOU	1016	HB3	LEU	A	63	6620	4920	4490	-190	1480	-760	H0
ATOM	1017	HG	LEU	A	63	-33.873	-19.975	-1.350	1.00	42.11	H0	
ANISOU	1017	HG	LEU	A	63	6600	5060	4350	-180	1340	-650	H0
ATOM	1018	HD11	LEU	A	63	-35.848	-20.310	-2.385	1.00	43.52	H0	
ANISOU	1018	HD11	LEU	A	63	6840	5380	4320	-260	1230	-730	H0
ATOM	1019	HD12	LEU	A	63	-36.272	-19.950	-0.898	1.00	42.34	H0	
ANISOU	1019	HD12	LEU	A	63	6600	5220	4270	-220	1150	-650	H0
ATOM	1020	HD13	LEU	A	63	-36.276	-21.462	-1.380	1.00	43.23	H0	
ANISOU	1020	HD13	LEU	A	63	6750	5280	4400	-290	1210	-760	H0
ATOM	1021	HD21	LEU	A	63	-34.731	-21.541	0.863	1.00	41.18	H0	
ANISOU	1021	HD21	LEU	A	63	6380	4850	4420	-190	1260	-650	H0
ATOM	1022	HD22	LEU	A	63	-34.711	-19.952	0.861	1.00	40.58	H0	
ANISOU	1022	HD22	LEU	A	63	6290	4850	4290	-160	1210	-570	H0

ATOM 1023 HD23 LEU A 63	-33.349	-20.764	0.777	1.00	41.02	H0	
ANISOU 1023 HD23 LEU A 63	6340	4810	4440	-140	1320	-600	H0
ATOM 1024 N ALA A 64	-32.998	-24.388	-3.938	1.00	42.85	N0	
ANISOU 1024 N ALA A 64	6910	4940	4430	-320	1660	-1040	N0
ATOM 1025 CA ALA A 64	-31.894	-25.331	-4.230	1.00	43.65	C0	
ANISOU 1025 CA ALA A 64	7050	4920	4620	-280	1800	-1100	C0
ATOM 1026 C ALA A 64	-31.170	-24.897	-5.511	1.00	44.27	C0	
ANISOU 1026 C ALA A 64	7170	5050	4600	-280	1880	-1140	C0
ATOM 1027 O ALA A 64	-31.820	-24.281	-6.386	1.00	44.37	O0	
ANISOU 1027 O ALA A 64	7230	5180	4460	-340	1840	-1160	O0
ATOM 1028 CB ALA A 64	-32.421	-26.743	-4.322	1.00	44.78	C0	
ANISOU 1028 CB ALA A 64	7270	4970	4780	-340	1840	-1210	C0
ATOM 1029 H ALA A 64	-33.815	-24.786	-3.977	1.00	43.14	H0	
ANISOU 1029 H ALA A 64	6970	4990	4430	-370	1620	-1080	H0
ATOM 1030 HA ALA A 64	-31.252	-25.285	-3.484	1.00	43.20	H0	
ANISOU 1030 HA ALA A 64	6930	4820	4660	-210	1810	-1040	H0
ATOM 1031 HB1 ALA A 64	-31.702	-27.342	-4.583	1.00	45.46	H0	
ANISOU 1031 HB1 ALA A 64	7390	4980	4910	-310	1940	-1250	H0
ATOM 1032 HB2 ALA A 64	-32.772	-27.016	-3.458	1.00	44.28	H0	
ANISOU 1032 HB2 ALA A 64	7180	4870	4780	-340	1800	-1170	H0
ATOM 1033 HB3 ALA A 64	-33.130	-26.783	-4.985	1.00	45.20	H0	
ANISOU 1033 HB3 ALA A 64	7360	5090	4720	-420	1820	-1270	H0
ATOM 1034 N TRP A 65	-29.865	-25.169	-5.595	1.00	44.49	N0	
ANISOU 1034 N TRP A 65	7180	5010	4710	-210	2000	-1150	N0
ATOM 1035 CA TRP A 65	-29.035	-24.891	-6.800	1.00	45.65	C0	
ANISOU 1035 CA TRP A 65	7370	5200	4780	-220	2110	-1200	C0
ATOM 1036 C TRP A 65	-27.999	-26.004	-7.002	1.00	47.27	C0	
ANISOU 1036 C TRP A 65	7590	5300	5080	-160	2260	-1280	C0
ATOM 1037 O TRP A 65	-27.827	-26.838	-6.090	1.00	47.26	O0	
ANISOU 1037 O TRP A 65	7560	5190	5220	-90	2270	-1270	O0
ATOM 1038 CB TRP A 65	-28.374	-23.510	-6.706	1.00	44.49	C0	
ANISOU 1038 CB TRP A 65	7150	5130	4620	-190	2100	-1100	C0
ATOM 1039 CG TRP A 65	-27.260	-23.420	-5.708	1.00	43.76	C0	
ANISOU 1039 CG TRP A 65	6940	5000	4690	-100	2140	-1040	C0
ATOM 1040 CD1 TRP A 65	-25.933	-23.636	-5.940	1.00	44.56	C0	
ANISOU 1040 CD1 TRP A 65	7000	5080	4850	-50	2270	-1070	C0
ATOM 1041 CD2 TRP A 65	-27.371	-23.076	-4.316	1.00	42.14	C0	
ANISOU 1041 CD2 TRP A 65	6640	4780	4580	-60	2040	-940	C0
ATOM 1042 NE1 TRP A 65	-25.214	-23.455	-4.789	1.00	43.79	N0	
ANISOU 1042 NE1 TRP A 65	6770	4980	4880	30	2250	-1000	N0
ATOM 1043 CE2 TRP A 65	-26.069	-23.113	-3.776	1.00	42.40	C0	
ANISOU 1043 CE2 TRP A 65	6570	4810	4730	20	2120	-920	C0
ATOM 1044 CE3 TRP A 65	-28.439	-22.751	-3.474	1.00	41.30	C0	
ANISOU 1044 CE3 TRP A 65	6520	4690	4480	-80	1910	-880	C0
ATOM 1045 CZ2 TRP A 65	-25.810	-22.831	-2.434	1.00	41.80	C0	
ANISOU 1045 CZ2 TRP A 65	6380	4740	4770	70	2050	-830	C0
ATOM 1046 CZ3 TRP A 65	-28.184	-22.468	-2.147	1.00	40.51	C0	
ANISOU 1046 CZ3 TRP A 65	6320	4580	4490	-30	1850	-800	C0
ATOM 1047 CH2 TRP A 65	-26.885	-22.510	-1.637	1.00	40.70	C0	
ANISOU 1047 CH2 TRP A 65	6240	4600	4620	40	1920	-770	C0
ATOM 1048 H TRP A 65	-29.393	-25.543	-4.911	1.00	44.46	H0	
ANISOU 1048 H TRP A 65	7130	4940	4820	-160	2030	-1130	H0
ATOM 1049 HA TRP A 65	-29.636	-24.881	-7.582	1.00	46.09	H0	
ANISOU 1049 HA TRP A 65	7490	5300	4720	-280	2100	-1250	H0

ATOM 1050 HB2 TRP A 65	-28.028	-23.275	-7.591	1.00	45.23	H0	
ANISOU 1050 HB2 TRP A 65	7290	5260	4640	-210	2170	-1130	H0
ATOM 1051 HB3 TRP A 65	-29.063	-22.855	-6.472	1.00	43.83	H0	
ANISOU 1051 HB3 TRP A 65	7070	5100	4490	-210	2010	-1040	H0
ATOM 1052 HD1 TRP A 65	-25.558	-23.876	-6.771	1.00	45.44	H0	
ANISOU 1052 HD1 TRP A 65	7150	5200	4920	-60	2350	-1130	H0
ATOM 1053 HE1 TRP A 65	-24.349	-23.546	-4.718	1.00	44.30	H0	
ANISOU 1053 HE1 TRP A 65	6770	5050	5000	70	2320	-1000	H0
ATOM 1054 HE3 TRP A 65	-29.318	-22.718	-3.811	1.00	41.22	H0	
ANISOU 1054 HE3 TRP A 65	6570	4700	4390	-130	1860	-900	H0
ATOM 1055 HZ2 TRP A 65	-24.934	-22.859	-2.090	1.00	42.03	H0	
ANISOU 1055 HZ2 TRP A 65	6330	4780	4860	120	2100	-820	H0
ATOM 1056 HZ3 TRP A 65	-28.899	-22.246	-1.574	1.00	39.75	H0	
ANISOU 1056 HZ3 TRP A 65	6220	4500	4390	-40	1770	-760	H0
ATOM 1057 HH2 TRP A 65	-26.741	-22.316	-0.728	1.00	40.15	H0	
ANISOU 1057 HH2 TRP A 65	6100	4540	4620	70	1880	-720	H0
ATOM 1058 N ASN A 66	-27.338	-25.988	-8.161	1.00	48.47	N0	
ANISOU 1058 N ASN A 66	7780	5480	5150	-170	2380	-1350	N0
ATOM 1059 CA ASN A 66	-26.281	-26.950	-8.561	1.00	50.65	C0	
ANISOU 1059 CA ASN A 66	8080	5670	5500	-110	2540	-1440	C0
ATOM 1060 C ASN A 66	-24.942	-26.485	-7.979	1.00	50.72	C0	
ANISOU 1060 C ASN A 66	7950	5690	5630	0	2590	-1370	C0
ATOM 1061 O ASN A 66	-24.444	-25.429	-8.417	1.00	50.00	O0	
ANISOU 1061 O ASN A 66	7820	5710	5470	-30	2610	-1330	O0
ATOM 1062 CB ASN A 66	-26.217	-27.080	-10.087	1.00	52.18	C0	
ANISOU 1062 CB ASN A 66	8380	5900	5550	-180	2640	-1560	C0
ATOM 1063 CG ASN A 66	-25.285	-28.173	-10.552	1.00	53.83	C0	
ANISOU 1063 CG ASN A 66	8620	6010	5820	-120	2810	-1670	C0
ATOM 1064 OD1 ASN A 66	-24.500	-28.698	-9.765	1.00	53.85	O0	
ANISOU 1064 OD1 ASN A 66	8550	5930	5980	10	2870	-1640	O0
ATOM 1065 ND2 ASN A 66	-25.373	-28.513	-11.828	1.00	55.53	N0	
ANISOU 1065 ND2 ASN A 66	8950	6250	5900	-190	2900	-1790	N0
ATOM 1066 H ASN A 66	-27.504	-25.359	-8.799	1.00	48.70	H0	
ANISOU 1066 H ASN A 66	7840	5580	5080	-220	2360	-1350	H0
ATOM 1067 HA ASN A 66	-26.504	-27.836	-8.189	1.00	50.87	H0	
ANISOU 1067 HA ASN A 66	8130	5600	5600	-90	2550	-1480	H0
ATOM 1068 HB2 ASN A 66	-27.117	-27.263	-10.426	1.00	52.27	H0	
ANISOU 1068 HB2 ASN A 66	8460	5930	5470	-260	2590	-1600	H0
ATOM 1069 HB3 ASN A 66	-25.921	-26.226	-10.465	1.00	52.00	H0	
ANISOU 1069 HB3 ASN A 66	8330	5970	5460	-190	2640	-1520	H0
ATOM 1070 N SER A 67	-24.377	-27.256	-7.045	1.00	51.96	N0	
ANISOU 1070 N SER A 67	8040	5760	5940	120	2630	-1350	N0
ATOM 1071 CA SER A 67	-23.157	-26.900	-6.275	1.00	53.31	C0	
ANISOU 1071 CA SER A 67	8050	5970	6230	230	2650	-1270	C0
ATOM 1072 C SER A 67	-21.924	-27.663	-6.778	1.00	55.88	C0	
ANISOU 1072 C SER A 67	8350	6260	6620	330	2830	-1350	C0
ATOM 1073 O SER A 67	-20.858	-27.499	-6.154	1.00	56.51	O0	
ANISOU 1073 O SER A 67	8280	6390	6800	440	2860	-1300	O0
ATOM 1074 CB SER A 67	-23.366	-27.129	-4.801	1.00	52.73	C0	
ANISOU 1074 CB SER A 67	7910	5850	6280	300	2550	-1180	C0
ATOM 1075 OG SER A 67	-23.552	-28.507	-4.516	1.00	54.17	O0	
ANISOU 1075 OG SER A 67	8160	5880	6540	370	2600	-1220	O0
ATOM 1076 H SER A 67	-24.706	-28.072	-6.808	1.00	52.34	H0	
ANISOU 1076 H SER A 67	8140	5720	6030	130	2630	-1380	H0

ATOM 1077 HA SER A 67	-22.987	-25.930	-6.411	1.00	52.75	H0	
ANISOU 1077 HA SER A 67	7940	5990	6110	180	2630	-1230	H0
ATOM 1078 HB2 SER A 67	-22.585	-26.796	-4.307	1.00	52.73	H0	
ANISOU 1078 HB2 SER A 67	7790	5900	6340	370	2560	-1130	H0
ATOM 1079 HB3 SER A 67	-24.153	-26.624	-4.503	1.00	51.73	H0	
ANISOU 1079 HB3 SER A 67	7790	5750	6110	240	2450	-1130	H0
ATOM 1080 N SER A 68	-22.044	-28.452	-7.854	1.00	58.42	N0	
ANISOU 1080 N SER A 68	8810	6520	6880	310	2930	-1480	N0
ATOM 1081 CA SER A 68	-20.938	-29.285	-8.400	1.00	61.13	C0	
ANISOU 1081 CA SER A 68	9140	6810	7270	420	3110	-1570	C0
ATOM 1082 C SER A 68	-19.732	-28.390	-8.715	1.00	62.08	C0	
ANISOU 1082 C SER A 68	9120	7080	7380	440	3180	-1550	C0
ATOM 1083 O SER A 68	-18.613	-28.773	-8.329	1.00	63.17	O0	
ANISOU 1083 O SER A 68	9140	7230	7630	580	3270	-1550	O0
ATOM 1084 CB SER A 68	-21.372	-30.088	-9.605	1.00	62.55	C0	
ANISOU 1084 CB SER A 68	9500	6910	7360	350	3210	-1710	C0
ATOM 1085 OG SER A 68	-21.568	-29.250	-10.732	1.00	62.78	O0	
ANISOU 1085 OG SER A 68	9570	7060	7220	210	3220	-1750	O0
ATOM 1086 H SER A 68	-22.812	-28.534	-8.336	1.00	58.26	H0	
ANISOU 1086 H SER A 68	8890	6480	6770	220	2910	-1520	H0
ATOM 1087 HA SER A 68	-20.664	-29.924	-7.688	1.00	61.38	H0	
ANISOU 1087 HA SER A 68	9140	6770	7410	530	3120	-1540	H0
ATOM 1088 HB2 SER A 68	-20.685	-30.761	-9.813	1.00	63.86	H0	
ANISOU 1088 HB2 SER A 68	9670	7020	7580	440	3330	-1770	H0
ATOM 1089 HB3 SER A 68	-22.211	-30.560	-9.398	1.00	62.33	H0	
ANISOU 1089 HB3 SER A 68	9560	6800	7320	310	3160	-1730	H0
ATOM 1090 N HIS A 69	-19.962	-27.239	-9.359	1.00	62.44	N0	
ANISOU 1090 N HIS A 69	9180	7240	7300	300	3150	-1530	N0
ATOM 1091 CA HIS A 69	-18.928	-26.223	-9.704	1.00	64.02	C0	
ANISOU 1091 CA HIS A 69	9270	7590	7470	270	3220	-1510	C0
ATOM 1092 C HIS A 69	-19.323	-24.849	-9.149	1.00	62.22	C0	
ANISOU 1092 C HIS A 69	8990	7450	7200	180	3090	-1400	C0
ATOM 1093 O HIS A 69	-18.967	-23.827	-9.776	1.00	62.91	O0	
ANISOU 1093 O HIS A 69	9070	7640	7190	90	3130	-1390	O0
ATOM 1094 CB HIS A 69	-18.697	-26.187	-11.220	1.00	66.71	C0	
ANISOU 1094 CB HIS A 69	9710	7970	7670	200	3360	-1620	C0
ATOM 1095 CG HIS A 69	-18.029	-27.410	-11.746	1.00	69.68	C0	
ANISOU 1095 CG HIS A 69	10110	8270	8090	300	3520	-1740	C0
ATOM 1096 ND1 HIS A 69	-18.713	-28.374	-12.463	1.00	71.74	N0	
ANISOU 1096 ND1 HIS A 69	10540	8420	8290	270	3560	-1850	N0
ATOM 1097 CD2 HIS A 69	-16.749	-27.835	-11.658	1.00	72.27	C0	
ANISOU 1097 CD2 HIS A 69	10310	8630	8520	430	3650	-1780	C0
ATOM 1098 CE1 HIS A 69	-17.880	-29.339	-12.804	1.00	74.00	C0	
ANISOU 1098 CE1 HIS A 69	10820	8650	8640	390	3720	-1950	C0
ATOM 1099 NE2 HIS A 69	-16.667	-29.033	-12.321	1.00	74.46	N0	
ANISOU 1099 NE2 HIS A 69	10690	8800	8800	490	3780	-1900	N0
ATOM 1100 H HIS A 69	-20.792	-26.992	-9.644	1.00	61.93	H0	
ANISOU 1100 H HIS A 69	9200	7180	7150	210	3090	-1530	H0
ATOM 1101 HA HIS A 69	-18.084	-26.491	-9.271	1.00	64.55	H0	
ANISOU 1101 HA HIS A 69	9220	7670	7630	370	3270	-1510	H0
ATOM 1102 HB2 HIS A 69	-19.563	-26.078	-11.672	1.00	66.28	H0	
ANISOU 1102 HB2 HIS A 69	9770	7900	7510	110	3300	-1630	H0
ATOM 1103 HB3 HIS A 69	-18.143	-25.405	-11.442	1.00	66.76	H0	
ANISOU 1103 HB3 HIS A 69	9660	8070	7640	160	3390	-1600	H0

ATOM 1104 HD2 HIS A 69	-16.042	-27.391	-11.229	1.00	72.08	H0	
ANISOU 1104 HD2 HIS A 69	10140	8690	8550	470	3660	-1730	H0
ATOM 1105 HE1 HIS A 69	-18.102	-30.111	-13.297	1.00	74.76	H0	
ANISOU 1105 HE1 HIS A 69	11030	8660	8720	390	3790	-2040	H0
ATOM 1106 N SER A 70	-20.017	-24.833	-8.008	1.00	60.11	N0	
ANISOU 1106 N SER A 70	8700	7140	7000	210	2940	-1310	N0
ATOM 1107 CA SER A 70	-20.443	-23.614	-7.272	1.00	57.93	C0	
ANISOU 1107 CA SER A 70	8380	6930	6710	140	2810	-1200	C0
ATOM 1108 C SER A 70	-20.331	-23.875	-5.773	1.00	55.72	C0	
ANISOU 1108 C SER A 70	7970	6620	6580	230	2720	-1120	C0
ATOM 1109 O SER A 70	-20.285	-25.028	-5.351	1.00	55.48	O0	
ANISOU 1109 O SER A 70	7940	6510	6640	340	2730	-1150	O0
ATOM 1110 CB SER A 70	-21.840	-23.209	-7.661	1.00	57.56	C0	
ANISOU 1110 CB SER A 70	8480	6860	6540	30	2700	-1180	C0
ATOM 1111 OG SER A 70	-21.936	-23.044	-9.067	1.00	59.76	O0	
ANISOU 1111 OG SER A 70	8870	7170	6660	-40	2780	-1250	O0
ATOM 1112 H SER A 70	-20.279	-25.592	-7.583	1.00	60.11	H0	
ANISOU 1112 H SER A 70	8710	7060	7060	270	2920	-1320	H0
ATOM 1113 HA SER A 70	-19.820	-22.878	-7.511	1.00	58.13	H0	
ANISOU 1113 HA SER A 70	8350	7030	6710	100	2860	-1190	H0
ATOM 1114 HB2 SER A 70	-22.475	-23.899	-7.366	1.00	57.44	H0	
ANISOU 1114 HB2 SER A 70	8500	6770	6550	60	2650	-1190	H0
ATOM 1115 HB3 SER A 70	-22.074	-22.365	-7.214	1.00	56.82	H0	
ANISOU 1115 HB3 SER A 70	8360	6800	6430	0	2630	-1110	H0
ATOM 1116 N PRO A 71	-20.256	-22.821	-4.929	1.00	53.99	N0	
ANISOU 1116 N PRO A 71	7660	6480	6380	200	2630	-1030	N0
ATOM 1117 CA PRO A 71	-20.258	-22.996	-3.473	1.00	52.56	C0	
ANISOU 1117 CA PRO A 71	7360	6290	6310	280	2530	-960	C0
ATOM 1118 C PRO A 71	-21.452	-23.830	-2.980	1.00	51.01	C0	
ANISOU 1118 C PRO A 71	7270	5980	6140	310	2430	-940	C0
ATOM 1119 O PRO A 71	-22.543	-23.611	-3.452	1.00	49.62	O0	
ANISOU 1119 O PRO A 71	7220	5770	5870	220	2380	-950	O0
ATOM 1120 CB PRO A 71	-20.335	-21.552	-2.953	1.00	51.70	C0	
ANISOU 1120 CB PRO A 71	7200	6270	6170	180	2450	-880	C0
ATOM 1121 CG PRO A 71	-19.683	-20.735	-4.049	1.00	52.66	C0	
ANISOU 1121 CG PRO A 71	7340	6460	6200	90	2570	-920	C0
ATOM 1122 CD PRO A 71	-20.133	-21.409	-5.327	1.00	53.63	C0	
ANISOU 1122 CD PRO A 71	7620	6520	6240	80	2640	-1000	C0
ATOM 1123 HA PRO A 71	-19.405	-23.409	-3.187	1.00	53.33	H0	
ANISOU 1123 HA PRO A 71	7360	6420	6490	360	2580	-970	H0
ATOM 1124 HB2 PRO A 71	-21.267	-21.275	-2.817	1.00	50.77	H0	
ANISOU 1124 HB2 PRO A 71	7160	6120	6010	130	2370	-850	H0
ATOM 1125 HB3 PRO A 71	-19.848	-21.456	-2.107	1.00	51.59	H0	
ANISOU 1125 HB3 PRO A 71	7070	6300	6230	220	2430	-850	H0
ATOM 1126 HG2 PRO A 71	-19.986	-19.804	-4.019	1.00	52.10	H0	
ANISOU 1126 HG2 PRO A 71	7300	6420	6080	10	2530	-880	H0
ATOM 1127 HG3 PRO A 71	-18.708	-20.755	-3.968	1.00	53.48	H0	
ANISOU 1127 HG3 PRO A 71	7330	6630	6350	120	2640	-940	H0
ATOM 1128 HD2 PRO A 71	-20.988	-21.053	-5.632	1.00	53.00	H0	
ANISOU 1128 HD2 PRO A 71	7640	6420	6080	10	2580	-980	H0
ATOM 1129 HD3 PRO A 71	-19.470	-21.297	-6.033	1.00	54.53	H0	
ANISOU 1129 HD3 PRO A 71	7720	6680	6320	60	2740	-1050	H0
ATOM 1130 N ASP A 72	-21.207	-24.767	-2.059	1.00	51.57	N0	
ANISOU 1130 N ASP A 72	7280	5990	6330	430	2420	-920	N0

ATOM 1131 CA ASP A 72	-22.221	-25.702	-1.495	1.00	51.52	C0	
ANISOU 1131 CA ASP A 72	7360	5860	6360	460	2350	-900	C0
ATOM 1132 C ASP A 72	-23.194	-24.951	-0.583	1.00	49.30	C0	
ANISOU 1132 C ASP A 72	7070	5600	6060	390	2190	-810	C0
ATOM 1133 O ASP A 72	-24.352	-25.409	-0.453	1.00	48.78	O0	
ANISOU 1133 O ASP A 72	7110	5450	5970	350	2130	-810	O0
ATOM 1134 CB ASP A 72	-21.569	-26.810	-0.670	1.00	53.14	C0	
ANISOU 1134 CB ASP A 72	7500	6000	6690	630	2380	-870	C0
ATOM 1135 CG ASP A 72	-20.626	-27.684	-1.468	1.00	56.21	C0	
ANISOU 1135 CG ASP A 72	7900	6350	7110	730	2540	-960	C0
ATOM 1136 OD1 ASP A 72	-21.116	-28.450	-2.323	1.00	57.98	O0	
ANISOU 1136 OD1 ASP A 72	8280	6450	7290	700	2610	-1040	O0
ATOM 1137 OD2 ASP A 72	-19.410	-27.582	-1.230	1.00	58.89	O0	
ANISOU 1137 OD2 ASP A 72	8090	6780	7510	840	2600	-940	O0
ATOM 1138 H ASP A 72	-20.376	-24.885	-1.704	1.00	52.15	H0	
ANISOU 1138 H ASP A 72	7240	6110	6460	510	2460	-900	H0
ATOM 1139 HA ASP A 72	-22.725	-26.108	-2.236	1.00	51.79	H0	
ANISOU 1139 HA ASP A 72	7510	5830	6340	420	2380	-960	H0
ATOM 1140 HB2 ASP A 72	-21.068	-26.407	0.068	1.00	53.02	H0	
ANISOU 1140 HB2 ASP A 72	7370	6060	6720	670	2350	-820	H0
ATOM 1141 HB3 ASP A 72	-22.269	-27.380	-0.290	1.00	53.01	H0	
ANISOU 1141 HB3 ASP A 72	7560	5890	6690	640	2340	-860	H0
ATOM 1142 N GLN A 73	-22.720	-23.882	0.065	1.00	47.87	N0	
ANISOU 1142 N GLN A 73	6770	5530	5890	380	2140	-750	N0
ATOM 1143 CA GLN A 73	-23.481	-23.120	1.090	1.00	46.30	C0	
ANISOU 1143 CA GLN A 73	6540	5360	5690	330	2010	-660	C0
ATOM 1144 C GLN A 73	-23.179	-21.622	0.976	1.00	44.95	C0	
ANISOU 1144 C GLN A 73	6320	5300	5460	230	1990	-640	C0
ATOM 1145 O GLN A 73	-22.080	-21.259	0.508	1.00	45.15	O0	
ANISOU 1145 O GLN A 73	6280	5400	5480	230	2090	-670	O0
ATOM 1146 CB GLN A 73	-23.108	-23.564	2.505	1.00	46.76	C0	
ANISOU 1146 CB GLN A 73	6490	5430	5850	430	1950	-600	C0
ATOM 1147 CG GLN A 73	-23.128	-25.069	2.716	1.00	48.20	C0	
ANISOU 1147 CG GLN A 73	6720	5490	6100	550	1990	-610	C0
ATOM 1148 CD GLN A 73	-23.006	-25.436	4.174	1.00	48.43	C0	
ANISOU 1148 CD GLN A 73	6660	5520	6220	640	1920	-520	C0
ATOM 1149 OE1 GLN A 73	-22.951	-24.577	5.056	1.00	48.66	O0	
ANISOU 1149 OE1 GLN A 73	6590	5650	6250	610	1830	-450	O0
ATOM 1150 NE2 GLN A 73	-22.965	-26.730	4.440	1.00	49.85	N0	
ANISOU 1150 NE2 GLN A 73	6890	5590	6460	760	1960	-510	N0
ATOM 1151 H GLN A 73	-21.882	-23.556	-0.079	1.00	48.51	H0	
ANISOU 1151 H GLN A 73	6770	5680	5980	390	2200	-760	H0
ATOM 1152 HA GLN A 73	-24.442	-23.267	0.946	1.00	45.78	H0	
ANISOU 1152 HA GLN A 73	6570	5250	5580	280	1960	-670	H0
ATOM 1153 HB2 GLN A 73	-22.211	-23.229	2.706	1.00	47.16	H0	
ANISOU 1153 HB2 GLN A 73	6430	5560	5930	460	1980	-590	H0
ATOM 1154 HB3 GLN A 73	-23.731	-23.144	3.133	1.00	45.86	H0	
ANISOU 1154 HB3 GLN A 73	6370	5320	5730	390	1860	-550	H0
ATOM 1155 HG2 GLN A 73	-23.967	-25.434	2.362	1.00	47.96	H0	
ANISOU 1155 HG2 GLN A 73	6800	5380	6040	500	1980	-630	H0
ATOM 1156 HG3 GLN A 73	-22.387	-25.476	2.219	1.00	49.17	H0	
ANISOU 1156 HG3 GLN A 73	6820	5610	6250	600	2080	-650	H0
ATOM 1157 HE21 GLN A 73	-22.808	-27.007	5.265	1.00	49.82	H0	
ANISOU 1157 HE21 GLN A 73	6840	5580	6500	830	1920	-450	H0

ATOM 1158 HE22 GLN A 73	-23.093	-27.320	3.794	1.00	50.28	H0	
ANISOU 1158 HE22 GLN A 73	7040	5560	6510	760	2020	-560	H0
ATOM 1159 N VAL A 74	-24.120	-20.793	1.429	1.00	43.04	N0	
ANISOU 1159 N VAL A 74	6120	5070	5170	160	1890	-590	N0
ATOM 1160 CA VAL A 74	-23.922	-19.330	1.625	1.00	42.53	C0	
ANISOU 1160 CA VAL A 74	6010	5080	5060	80	1870	-550	C0
ATOM 1161 C VAL A 74	-24.575	-18.913	2.944	1.00	40.75	C0	
ANISOU 1161 C VAL A 74	5750	4860	4870	80	1740	-480	C0
ATOM 1162 O VAL A 74	-25.577	-19.537	3.356	1.00	39.40	O0	
ANISOU 1162 O VAL A 74	5630	4630	4710	100	1670	-460	O0
ATOM 1163 CB VAL A 74	-24.470	-18.517	0.437	1.00	42.77	C0	
ANISOU 1163 CB VAL A 74	6180	5100	4970	-10	1890	-570	C0
ATOM 1164 CG1 VAL A 74	-23.577	-18.650	-0.787	1.00	44.05	C0	
ANISOU 1164 CG1 VAL A 74	6360	5290	5090	-20	2030	-630	C0
ATOM 1165 CG2 VAL A 74	-25.905	-18.893	0.098	1.00	42.40	C0	
ANISOU 1165 CG2 VAL A 74	6260	5000	4850	-20	1820	-570	C0
ATOM 1166 H VAL A 74	-24.957	-21.079	1.650	1.00	42.71	H0	
ANISOU 1166 H VAL A 74	6130	4980	5120	160	1830	-580	H0
ATOM 1167 HA VAL A 74	-22.966	-19.162	1.694	1.00	43.04	H0	
ANISOU 1167 HA VAL A 74	5990	5200	5160	90	1920	-560	H0
ATOM 1168 HB VAL A 74	-24.467	-17.565	0.707	1.00	42.41	H0	
ANISOU 1168 HB VAL A 74	6120	5090	4900	-50	1870	-530	H0
ATOM 1169 HG11 VAL A 74	-22.671	-18.377	-0.560	1.00	44.45	H0	
ANISOU 1169 HG11 VAL A 74	6320	5390	5180	-20	2080	-640	H0
ATOM 1170 HG12 VAL A 74	-23.916	-18.082	-1.501	1.00	44.08	H0	
ANISOU 1170 HG12 VAL A 74	6450	5290	5010	-80	2040	-630	H0
ATOM 1171 HG13 VAL A 74	-23.570	-19.576	-1.086	1.00	44.47	H0	
ANISOU 1171 HG13 VAL A 74	6430	5300	5160	30	2060	-670	H0
ATOM 1172 HG21 VAL A 74	-25.925	-19.785	-0.291	1.00	42.82	H0	
ANISOU 1172 HG21 VAL A 74	6340	5020	4920	10	1850	-610	H0
ATOM 1173 HG22 VAL A 74	-26.265	-18.254	-0.541	1.00	42.36	H0	
ANISOU 1173 HG22 VAL A 74	6320	5010	4760	-60	1820	-570	H0
ATOM 1174 HG23 VAL A 74	-26.446	-18.880	0.906	1.00	41.64	H0	
ANISOU 1174 HG23 VAL A 74	6140	4900	4790	0	1740	-530	H0
ATOM 1175 N SER A 75	-24.005	-17.896	3.583	1.00	40.49	N0	
ANISOU 1175 N SER A 75	5630	4900	4850	40	1730	-450	N0
ATOM 1176 CA SER A 75	-24.658	-17.127	4.669	1.00	39.40	C0	
ANISOU 1176 CA SER A 75	5480	4780	4710	0	1630	-390	C0
ATOM 1177 C SER A 75	-25.541	-16.060	4.020	1.00	39.12	C0	
ANISOU 1177 C SER A 75	5580	4710	4570	-80	1610	-380	C0
ATOM 1178 O SER A 75	-25.055	-15.382	3.081	1.00	40.21	O0	
ANISOU 1178 O SER A 75	5760	4860	4650	-130	1700	-400	O0
ATOM 1179 CB SER A 75	-23.651	-16.541	5.607	1.00	39.29	C0	
ANISOU 1179 CB SER A 75	5320	4860	4750	-20	1630	-380	C0
ATOM 1180 OG SER A 75	-22.912	-17.577	6.227	1.00	39.86	O0	
ANISOU 1180 OG SER A 75	5270	4980	4910	80	1630	-380	O0
ATOM 1181 H SER A 75	-23.166	-17.593	3.398	1.00	41.08	H0	
ANISOU 1181 H SER A 75	5650	5030	4930	20	1790	-470	H0
ATOM 1182 HA SER A 75	-25.239	-17.749	5.180	1.00	38.96	H0	
ANISOU 1182 HA SER A 75	5430	4690	4680	50	1570	-370	H0
ATOM 1183 HB2 SER A 75	-23.042	-15.950	5.110	1.00	39.90	H0	
ANISOU 1183 HB2 SER A 75	5390	4970	4800	-70	1700	-410	H0
ATOM 1184 HB3 SER A 75	-24.111	-16.006	6.293	1.00	38.76	H0	
ANISOU 1184 HB3 SER A 75	5250	4800	4680	-50	1570	-350	H0

ATOM 1185 N VAL A 76	-26.790	-15.962	4.474	1.00	37.65	N0	
ANISOU 1185 N VAL A 76	5450	4490	4360	-70	1510	-340	N0
ATOM 1186 CA VAL A 76	-27.835	-15.059	3.918	1.00	37.67	C0	
ANISOU 1186 CA VAL A 76	5580	4470	4260	-110	1480	-320	C0
ATOM 1187 C VAL A 76	-28.511	-14.342	5.081	1.00	36.78	C0	
ANISOU 1187 C VAL A 76	5450	4370	4170	-110	1390	-270	C0
ATOM 1188 O VAL A 76	-28.839	-14.983	6.076	1.00	35.27	O0	
ANISOU 1188 O VAL A 76	5180	4180	4030	-80	1320	-260	O0
ATOM 1189 CB VAL A 76	-28.854	-15.863	3.090	1.00	38.06	C0	
ANISOU 1189 CB VAL A 76	5710	4490	4250	-80	1450	-350	C0
ATOM 1190 CG1 VAL A 76	-30.042	-15.018	2.659	1.00	38.23	C0	
ANISOU 1190 CG1 VAL A 76	5840	4520	4170	-90	1400	-310	C0
ATOM 1191 CG2 VAL A 76	-28.209	-16.525	1.882	1.00	39.22	C0	
ANISOU 1191 CG2 VAL A 76	5900	4630	4380	-80	1550	-410	C0
ATOM 1192 H VAL A 76	-27.090	-16.460	5.176	1.00	37.51	H0	
ANISOU 1192 H VAL A 76	5390	4470	4390	-30	1460	-330	H0
ATOM 1193 HA VAL A 76	-27.407	-14.403	3.343	1.00	38.10	H0	
ANISOU 1193 HA VAL A 76	5670	4530	4280	-150	1540	-330	H0
ATOM 1194 HB VAL A 76	-29.199	-16.583	3.674	1.00	37.79	H0	
ANISOU 1194 HB VAL A 76	5640	4450	4270	-50	1410	-350	H0
ATOM 1195 HG11 VAL A 76	-30.586	-14.800	3.434	1.00	37.53	H0	
ANISOU 1195 HG11 VAL A 76	5730	4430	4100	-80	1330	-290	H0
ATOM 1196 HG12 VAL A 76	-30.580	-15.517	2.020	1.00	38.31	H0	
ANISOU 1196 HG12 VAL A 76	5900	4530	4130	-90	1380	-340	H0
ATOM 1197 HG13 VAL A 76	-29.726	-14.199	2.243	1.00	38.41	H0	
ANISOU 1197 HG13 VAL A 76	5910	4540	4150	-120	1440	-300	H0
ATOM 1198 HG21 VAL A 76	-27.782	-15.847	1.330	1.00	39.54	H0	
ANISOU 1198 HG21 VAL A 76	5970	4680	4370	-110	1610	-400	H0
ATOM 1199 HG22 VAL A 76	-28.890	-16.984	1.361	1.00	39.23	H0	
ANISOU 1199 HG22 VAL A 76	5960	4620	4330	-80	1530	-430	H0
ATOM 1200 HG23 VAL A 76	-27.542	-17.167	2.180	1.00	39.39	H0	
ANISOU 1200 HG23 VAL A 76	5850	4650	4470	-50	1580	-420	H0
ATOM 1201 N PRO A 77	-28.773	-13.016	4.979	1.00	36.87	N0	
ANISOU 1201 N PRO A 77	5530	4370	4110	-160	1400	-240	N0
ATOM 1202 CA PRO A 77	-29.515	-12.303	6.018	1.00	36.29	C0	
ANISOU 1202 CA PRO A 77	5450	4290	4040	-150	1320	-200	C0
ATOM 1203 C PRO A 77	-30.955	-12.833	6.048	1.00	36.40	C0	
ANISOU 1203 C PRO A 77	5500	4300	4020	-100	1220	-190	C0
ATOM 1204 O PRO A 77	-31.495	-13.129	4.996	1.00	36.61	O0	
ANISOU 1204 O PRO A 77	5600	4320	3980	-80	1230	-200	O0
ATOM 1205 CB PRO A 77	-29.439	-10.828	5.597	1.00	36.78	C0	
ANISOU 1205 CB PRO A 77	5620	4320	4040	-200	1370	-180	C0
ATOM 1206 CG PRO A 77	-29.219	-10.884	4.095	1.00	37.72	C0	
ANISOU 1206 CG PRO A 77	5830	4420	4080	-210	1450	-190	C0
ATOM 1207 CD PRO A 77	-28.408	-12.140	3.855	1.00	37.51	C0	
ANISOU 1207 CD PRO A 77	5710	4430	4110	-200	1480	-250	C0
ATOM 1208 HA PRO A 77	-29.078	-12.429	6.896	1.00	36.25	H0	
ANISOU 1208 HA PRO A 77	5360	4310	4100	-160	1300	-200	H0
ATOM 1209 HB2 PRO A 77	-30.272	-10.356	5.811	1.00	36.53	H0	
ANISOU 1209 HB2 PRO A 77	5640	4270	3970	-180	1320	-150	H0
ATOM 1210 HB3 PRO A 77	-28.693	-10.373	6.042	1.00	37.02	H0	
ANISOU 1210 HB3 PRO A 77	5610	4360	4100	-250	1410	-190	H0
ATOM 1211 HG2 PRO A 77	-30.074	-10.929	3.622	1.00	37.51	H0	
ANISOU 1211 HG2 PRO A 77	5880	4380	3990	-170	1410	-180	H0

ATOM 1212	HG3 PRO A 77	-28.731	-10.094	3.788	1.00	38.10	H0	
ANISOU 1212	HG3 PRO A 77	5930	4450	4100	-250	1520	-190	H0
ATOM 1213	HD2 PRO A 77	-28.643	-12.547	3.001	1.00	37.91	H0	
ANISOU 1213	HD2 PRO A 77	5820	4470	4120	-180	1500	-260	H0
ATOM 1214	HD3 PRO A 77	-27.453	-11.947	3.860	1.00	38.08	H0	
ANISOU 1214	HD3 PRO A 77	5740	4510	4210	-240	1550	-260	H0
ATOM 1215	N ILE A 78	-31.536	-12.954	7.243	1.00	35.82	N0	
ANISOU 1215	N ILE A 78	5370	4240	3990	-80	1140	-170	N0
ATOM 1216	CA ILE A 78	-32.863	-13.607	7.441	1.00	36.08	C0	
ANISOU 1216	CA ILE A 78	5410	4290	4010	-50	1060	-160	C0
ATOM 1217	C ILE A 78	-33.977	-12.765	6.801	1.00	36.61	C0	
ANISOU 1217	C ILE A 78	5570	4370	3970	-20	1020	-140	C0
ATOM 1218	O ILE A 78	-35.031	-13.346	6.508	1.00	37.18	O0	
ANISOU 1218	O ILE A 78	5650	4480	4000	0	960	-160	O0
ATOM 1219	CB ILE A 78	-33.126	-13.903	8.929	1.00	35.46	C0	
ANISOU 1219	CB ILE A 78	5240	4230	4000	-40	990	-150	C0
ATOM 1220	CG1 ILE A 78	-33.106	-12.638	9.795	1.00	35.49	C0	
ANISOU 1220	CG1 ILE A 78	5240	4250	4000	-60	980	-120	C0
ATOM 1221	CG2 ILE A 78	-32.145	-14.957	9.416	1.00	35.54	C0	
ANISOU 1221	CG2 ILE A 78	5170	4240	4100	-40	1020	-160	C0
ATOM 1222	CD1 ILE A 78	-33.573	-12.858	11.222	1.00	35.54	C0	
ANISOU 1222	CD1 ILE A 78	5170	4280	4050	-50	910	-100	C0
ATOM 1223	H ILE A 78	-31.149	-12.654	8.009	1.00	35.82	H0	
ANISOU 1223	H ILE A 78	5320	4260	4030	-100	1140	-160	H0
ATOM 1224	HA ILE A 78	-32.839	-14.461	6.974	1.00	36.21	H0	
ANISOU 1224	HA ILE A 78	5420	4310	4030	-40	1070	-190	H0
ATOM 1225	HB ILE A 78	-34.034	-14.289	8.995	1.00	35.32	H0	
ANISOU 1225	HB ILE A 78	5230	4230	3960	-30	940	-150	H0
ATOM 1226	HG12 ILE A 78	-32.191	-12.286	9.818	1.00	35.82	H0	
ANISOU 1226	HG12 ILE A 78	5260	4280	4060	-80	1030	-120	H0
ATOM 1227	HG13 ILE A 78	-33.679	-11.960	9.379	1.00	35.65	H0	
ANISOU 1227	HG13 ILE A 78	5330	4260	3960	-40	970	-110	H0
ATOM 1228	HG21 ILE A 78	-32.132	-15.704	8.793	1.00	35.83	H0	
ANISOU 1228	HG21 ILE A 78	5220	4260	4130	-20	1040	-180	H0
ATOM 1229	HG22 ILE A 78	-32.418	-15.275	10.294	1.00	35.26	H0	
ANISOU 1229	HG22 ILE A 78	5080	4220	4090	-30	970	-140	H0
ATOM 1230	HG23 ILE A 78	-31.254	-14.571	9.476	1.00	35.79	H0	
ANISOU 1230	HG23 ILE A 78	5170	4280	4150	-50	1060	-160	H0
ATOM 1231	HD11 ILE A 78	-34.433	-13.313	11.216	1.00	35.18	H0	
ANISOU 1231	HD11 ILE A 78	5130	4250	3990	-30	870	-100	H0
ATOM 1232	HD12 ILE A 78	-33.666	-11.999	11.670	1.00	35.29	H0	
ANISOU 1232	HD12 ILE A 78	5150	4250	4010	-60	900	-90	H0
ATOM 1233	HD13 ILE A 78	-32.923	-13.403	11.698	1.00	35.38	H0	
ANISOU 1233	HD13 ILE A 78	5080	4280	4080	-60	920	-100	H0
ATOM 1234	N SER A 79	-33.745	-11.473	6.549	1.00	37.44	N0	
ANISOU 1234	N SER A 79	5750	4450	4030	-20	1060	-110	N0
ATOM 1235	CA SER A 79	-34.698	-10.561	5.860	1.00	38.43	C0	
ANISOU 1235	CA SER A 79	5980	4570	4050	30	1040	-80	C0
ATOM 1236	C SER A 79	-34.869	-10.946	4.382	1.00	39.36	C0	
ANISOU 1236	C SER A 79	6170	4710	4070	40	1060	-90	C0
ATOM 1237	O SER A 79	-35.821	-10.439	3.757	1.00	41.50	O0	
ANISOU 1237	O SER A 79	6510	5010	4240	100	1020	-60	O0
ATOM 1238	CB SER A 79	-34.261	-9.130	5.991	1.00	39.21	C0	
ANISOU 1238	CB SER A 79	6160	4610	4130	20	1100	-40	C0

ATOM 1239 OG SER A 79	-32.926	-8.968	5.534	1.00	40.77	O0	
ANISOU 1239 OG SER A 79	6380	4770	4340	-60	1210	-60	O0
ATOM 1240 H SER A 79	-32.982	-11.045	6.799	1.00	37.55	H0	
ANISOU 1240 H SER A 79	5750	4440	4070	-60	1110	-110	H0
ATOM 1241 HA SER A 79	-35.583	-10.657	6.304	1.00	38.15	H0	
ANISOU 1241 HA SER A 79	5920	4570	4000	60	970	-70	H0
ATOM 1242 HB2 SER A 79	-34.861	-8.554	5.465	1.00	39.78	H0	
ANISOU 1242 HB2 SER A 79	6320	4680	4120	60	1090	-10	H0
ATOM 1243 HB3 SER A 79	-34.321	-8.855	6.934	1.00	39.01	H0	
ANISOU 1243 HB3 SER A 79	6100	4580	4150	10	1080	-40	H0
ATOM 1244 N SER A 80	-33.985	-11.784	3.832	1.00	39.17	N0	
ANISOU 1244 N SER A 80	6130	4680	4080	0	1120	-140	N0
ATOM 1245 CA SER A 80	-34.089	-12.334	2.451	1.00	39.76	C0	
ANISOU 1245 CA SER A 80	6260	4780	4070	0	1150	-170	C0
ATOM 1246 C SER A 80	-34.857	-13.663	2.439	1.00	39.17	C0	
ANISOU 1246 C SER A 80	6130	4750	4000	0	1080	-220	C0
ATOM 1247 O SER A 80	-35.073	-14.190	1.335	1.00	39.52	O0	
ANISOU 1247 O SER A 80	6220	4830	3960	-10	1100	-260	O0
ATOM 1248 CB SER A 80	-32.729	-12.503	1.831	1.00	40.28	C0	
ANISOU 1248 CB SER A 80	6340	4810	4160	-50	1260	-200	C0
ATOM 1249 OG SER A 80	-32.134	-11.240	1.598	1.00	40.92	O0	
ANISOU 1249 OG SER A 80	6500	4850	4200	-70	1330	-160	O0
ATOM 1250 H SER A 80	-33.234	-12.070	4.259	1.00	39.06	H0	
ANISOU 1250 H SER A 80	6060	4650	4140	-30	1150	-150	H0
ATOM 1251 HA SER A 80	-34.600	-11.682	1.901	1.00	40.12	H0	
ANISOU 1251 HA SER A 80	6380	4840	4020	30	1130	-140	H0
ATOM 1252 HB2 SER A 80	-32.157	-13.032	2.431	1.00	40.01	H0	
ANISOU 1252 HB2 SER A 80	6230	4760	4210	-70	1270	-220	H0
ATOM 1253 HB3 SER A 80	-32.814	-12.988	0.979	1.00	40.77	H0	
ANISOU 1253 HB3 SER A 80	6440	4890	4170	-50	1280	-230	H0
ATOM 1254 N LEU A 81	-35.252	-14.177	3.609	1.00	38.45	N0	
ANISOU 1254 N LEU A 81	5950	4670	3990	0	1020	-220	N0
ATOM 1255 CA LEU A 81	-35.759	-15.565	3.783	1.00	38.92	C0	
ANISOU 1255 CA LEU A 81	5960	4740	4080	-30	990	-280	C0
ATOM 1256 C LEU A 81	-37.082	-15.568	4.547	1.00	38.27	C0	
ANISOU 1256 C LEU A 81	5830	4720	3990	-20	890	-270	C0
ATOM 1257 O LEU A 81	-37.254	-14.711	5.433	1.00	38.49	O0	
ANISOU 1257 O LEU A 81	5830	4750	4040	10	860	-220	O0
ATOM 1258 CB LEU A 81	-34.727	-16.377	4.570	1.00	38.72	C0	
ANISOU 1258 CB LEU A 81	5870	4650	4190	-40	1040	-290	C0
ATOM 1259 CG LEU A 81	-33.454	-16.739	3.815	1.00	39.25	C0	
ANISOU 1259 CG LEU A 81	5960	4680	4280	-50	1140	-320	C0
ATOM 1260 CD1 LEU A 81	-32.402	-17.256	4.777	1.00	39.72	C0	
ANISOU 1260 CD1 LEU A 81	5930	4700	4460	-40	1170	-310	C0
ATOM 1261 CD2 LEU A 81	-33.745	-17.760	2.731	1.00	39.82	C0	
ANISOU 1261 CD2 LEU A 81	6080	4750	4300	-80	1170	-390	C0
ATOM 1262 H LEU A 81	-35.241	-13.700	4.382	1.00	38.17	H0	
ANISOU 1262 H LEU A 81	5890	4620	3990	0	1010	-190	H0
ATOM 1263 HA LEU A 81	-35.897	-15.968	2.899	1.00	39.33	H0	
ANISOU 1263 HA LEU A 81	6050	4810	4080	-40	1010	-320	H0
ATOM 1264 HB2 LEU A 81	-34.479	-15.867	5.367	1.00	38.27	H0	
ANISOU 1264 HB2 LEU A 81	5770	4590	4180	-30	1020	-250	H0
ATOM 1265 HB3 LEU A 81	-35.152	-17.205	4.872	1.00	38.64	H0	
ANISOU 1265 HB3 LEU A 81	5840	4640	4200	-60	1010	-310	H0

ATOM 1266 HG LEU A 81	-33.106	-15.920	3.384	1.00	39.53	H0	
ANISOU 1266 HG LEU A 81	6030	4720	4280	-50	1170	-300	H0
ATOM 1267 HD11 LEU A 81	-32.191	-16.565	5.429	1.00	39.15	H0	
ANISOU 1267 HD11 LEU A 81	5820	4640	4410	-40	1160	-280	H0
ATOM 1268 HD12 LEU A 81	-31.598	-17.491	4.283	1.00	39.97	H0	
ANISOU 1268 HD12 LEU A 81	5960	4710	4510	-40	1240	-340	H0
ATOM 1269 HD13 LEU A 81	-32.741	-18.043	5.237	1.00	39.40	H0	
ANISOU 1269 HD13 LEU A 81	5870	4640	4460	-40	1150	-320	H0
ATOM 1270 HD21 LEU A 81	-34.250	-18.501	3.109	1.00	39.79	H0	
ANISOU 1270 HD21 LEU A 81	6060	4740	4320	-90	1140	-410	H0
ATOM 1271 HD22 LEU A 81	-32.907	-18.093	2.366	1.00	40.26	H0	
ANISOU 1271 HD22 LEU A 81	6140	4770	4380	-80	1240	-420	H0
ATOM 1272 HD23 LEU A 81	-34.263	-17.343	2.021	1.00	40.15	H0	
ANISOU 1272 HD23 LEU A 81	6170	4830	4250	-80	1150	-400	H0
ATOM 1273 N TRP A 82	-37.957	-16.530	4.246	1.00	38.29	N0	
ANISOU 1273 N TRP A 82	5820	4770	3950	-50	850	-320	N0
ATOM 1274 CA TRP A 82	-39.016	-16.954	5.195	1.00	37.84	C0	
ANISOU 1274 CA TRP A 82	5700	4760	3920	-70	780	-330	C0
ATOM 1275 C TRP A 82	-38.321	-17.636	6.374	1.00	37.68	C0	
ANISOU 1275 C TRP A 82	5630	4660	4030	-90	810	-320	C0
ATOM 1276 O TRP A 82	-37.432	-18.469	6.127	1.00	37.63	O0	
ANISOU 1276 O TRP A 82	5640	4580	4080	-110	880	-340	O0
ATOM 1277 CB TRP A 82	-40.065	-17.882	4.571	1.00	38.06	C0	
ANISOU 1277 CB TRP A 82	5720	4870	3870	-130	750	-410	C0
ATOM 1278 CG TRP A 82	-41.057	-18.358	5.594	1.00	37.62	C0	
ANISOU 1278 CG TRP A 82	5590	4860	3850	-170	690	-420	C0
ATOM 1279 CD1 TRP A 82	-42.185	-17.708	6.004	1.00	37.29	C0	
ANISOU 1279 CD1 TRP A 82	5490	4930	3750	-140	610	-400	C0
ATOM 1280 CD2 TRP A 82	-40.976	-19.558	6.388	1.00	36.94	C0	
ANISOU 1280 CD2 TRP A 82	5480	4700	3850	-230	710	-440	C0
ATOM 1281 NE1 TRP A 82	-42.824	-18.428	6.977	1.00	37.26	N0	
ANISOU 1281 NE1 TRP A 82	5420	4940	3800	-200	580	-420	N0
ATOM 1282 CE2 TRP A 82	-42.109	-19.570	7.233	1.00	37.14	C0	
ANISOU 1282 CE2 TRP A 82	5440	4800	3870	-260	650	-440	C0
ATOM 1283 CE3 TRP A 82	-40.077	-20.629	6.457	1.00	36.65	C0	
ANISOU 1283 CE3 TRP A 82	5490	4540	3900	-260	790	-470	C0
ATOM 1284 CZ2 TRP A 82	-42.356	-20.610	8.130	1.00	36.69	C0	
ANISOU 1284 CZ2 TRP A 82	5360	4700	3880	-330	660	-460	C0
ATOM 1285 CZ3 TRP A 82	-40.323	-21.658	7.340	1.00	36.75	C0	
ANISOU 1285 CZ3 TRP A 82	5490	4490	3980	-320	810	-480	C0
ATOM 1286 CH2 TRP A 82	-41.449	-21.648	8.163	1.00	36.88	C0	
ANISOU 1286 CH2 TRP A 82	5440	4580	3980	-360	740	-470	C0
ATOM 1287 H TRP A 82	-37.961	-16.981	3.454	1.00	38.85	H0	
ANISOU 1287 H TRP A 82	5930	4850	3980	-70	870	-360	H0
ATOM 1288 HA TRP A 82	-39.477	-16.146	5.518	1.00	37.69	H0	
ANISOU 1288 HA TRP A 82	5660	4780	3870	-30	740	-290	H0
ATOM 1289 HB2 TRP A 82	-40.533	-17.399	3.861	1.00	38.57	H0	
ANISOU 1289 HB2 TRP A 82	5810	5000	3850	-110	720	-410	H0
ATOM 1290 HB3 TRP A 82	-39.610	-18.652	4.172	1.00	38.44	H0	
ANISOU 1290 HB3 TRP A 82	5800	4860	3940	-170	800	-450	H0
ATOM 1291 HD1 TRP A 82	-42.491	-16.882	5.664	1.00	37.50	H0	
ANISOU 1291 HD1 TRP A 82	5520	5010	3710	-80	580	-370	H0
ATOM 1292 HE1 TRP A 82	-43.571	-18.199	7.366	1.00	37.21	H0	
ANISOU 1292 HE1 TRP A 82	5370	5000	3770	-190	540	-420	H0

ATOM 1293 HE3 TRP A 82	-39.314	-20.646	5.902	1.00	36.96	H0	
ANISOU 1293 HE3 TRP A 82	5570	4530	3950	-240	840	-470	H0
ATOM 1294 HZ2 TRP A 82	-43.117	-20.605	8.684	1.00	36.81	H0	
ANISOU 1294 HZ2 TRP A 82	5330	4770	3890	-360	630	-460	H0
ATOM 1295 HZ3 TRP A 82	-39.718	-22.381	7.391	1.00	37.09	H0	
ANISOU 1295 HZ3 TRP A 82	5570	4440	4080	-320	860	-490	H0
ATOM 1296 HH2 TRP A 82	-41.588	-22.361	8.761	1.00	37.00	H0	
ANISOU 1296 HH2 TRP A 82	5460	4550	4040	-400	760	-480	H0
ATOM 1297 N VAL A 83	-38.726	-17.285	7.593	1.00	37.21	N0	
ANISOU 1297 N VAL A 83	5510	4620	4010	-80	760	-280	N0
ATOM 1298 CA VAL A 83	-38.232	-17.878	8.868	1.00	36.97	C0	
ANISOU 1298 CA VAL A 83	5430	4530	4090	-90	770	-250	C0
ATOM 1299 C VAL A 83	-39.456	-18.267	9.693	1.00	36.25	C0	
ANISOU 1299 C VAL A 83	5290	4490	3990	-120	710	-260	C0
ATOM 1300 O VAL A 83	-40.462	-17.560	9.667	1.00	36.12	O0	
ANISOU 1300 O VAL A 83	5250	4560	3910	-110	650	-260	O0
ATOM 1301 CB VAL A 83	-37.315	-16.871	9.586	1.00	37.32	C0	
ANISOU 1301 CB VAL A 83	5450	4550	4180	-50	780	-200	C0
ATOM 1302 CG1 VAL A 83	-36.992	-17.266	11.020	1.00	37.88	C0	
ANISOU 1302 CG1 VAL A 83	5450	4600	4330	-50	770	-160	C0
ATOM 1303 CG2 VAL A 83	-36.041	-16.656	8.787	1.00	37.49	C0	
ANISOU 1303 CG2 VAL A 83	5500	4530	4210	-30	860	-200	C0
ATOM 1304 H VAL A 83	-39.351	-16.634	7.725	1.00	37.14	H0	
ANISOU 1304 H VAL A 83	5490	4660	3960	-50	720	-260	H0
ATOM 1305 HA VAL A 83	-37.721	-18.678	8.661	1.00	37.24	H0	
ANISOU 1305 HA VAL A 83	5480	4510	4160	-100	810	-270	H0
ATOM 1306 HB VAL A 83	-37.796	-16.008	9.616	1.00	37.17	H0	
ANISOU 1306 HB VAL A 83	5430	4570	4120	-30	750	-180	H0
ATOM 1307 HG11 VAL A 83	-37.814	-17.337	11.535	1.00	37.43	H0	
ANISOU 1307 HG11 VAL A 83	5380	4580	4260	-60	720	-160	H0
ATOM 1308 HG12 VAL A 83	-36.419	-16.589	11.421	1.00	37.36	H0	
ANISOU 1308 HG12 VAL A 83	5370	4540	4290	-30	770	-140	H0
ATOM 1309 HG13 VAL A 83	-36.530	-18.122	11.026	1.00	37.81	H0	
ANISOU 1309 HG13 VAL A 83	5440	4550	4370	-50	800	-170	H0
ATOM 1310 HG21 VAL A 83	-35.639	-17.517	8.577	1.00	37.79	H0	
ANISOU 1310 HG21 VAL A 83	5540	4530	4290	-40	890	-220	H0
ATOM 1311 HG22 VAL A 83	-35.415	-16.127	9.310	1.00	37.31	H0	
ANISOU 1311 HG22 VAL A 83	5450	4500	4230	-20	870	-170	H0
ATOM 1312 HG23 VAL A 83	-36.250	-16.187	7.961	1.00	37.76	H0	
ANISOU 1312 HG23 VAL A 83	5580	4580	4190	-30	860	-210	H0
ATOM 1313 N PRO A 84	-39.427	-19.407	10.420	1.00	35.94	N0	
ANISOU 1313 N PRO A 84	5240	4400	4020	-160	720	-260	N0
ATOM 1314 CA PRO A 84	-40.535	-19.792	11.291	1.00	35.83	C0	
ANISOU 1314 CA PRO A 84	5180	4430	4000	-210	680	-270	C0
ATOM 1315 C PRO A 84	-40.869	-18.692	12.310	1.00	34.34	C0	
ANISOU 1315 C PRO A 84	4930	4310	3800	-170	620	-220	C0
ATOM 1316 O PRO A 84	-39.948	-18.131	12.862	1.00	33.77	O0	
ANISOU 1316 O PRO A 84	4850	4200	3780	-120	640	-170	O0
ATOM 1317 CB PRO A 84	-40.021	-21.035	12.033	1.00	36.34	C0	
ANISOU 1317 CB PRO A 84	5260	4400	4140	-230	720	-250	C0
ATOM 1318 CG PRO A 84	-38.917	-21.579	11.168	1.00	36.79	C0	
ANISOU 1318 CG PRO A 84	5380	4360	4240	-210	800	-270	C0
ATOM 1319 CD PRO A 84	-38.328	-20.384	10.449	1.00	36.64	C0	
ANISOU 1319 CD PRO A 84	5360	4380	4180	-160	790	-260	C0

ATOM 1320 HA PRO A 84	-41.330	-20.024	10.748	1.00	36.15	H0	
ANISOU 1320 HA PRO A 84	5230	4530	3980	-250	660	-310	H0
ATOM 1321 HB2 PRO A 84	-39.676	-20.795	12.916	1.00	35.91	H0	
ANISOU 1321 HB2 PRO A 84	5180	4340	4130	-210	710	-200	H0
ATOM 1322 HB3 PRO A 84	-40.736	-21.698	12.143	1.00	36.66	H0	
ANISOU 1322 HB3 PRO A 84	5310	4440	4170	-290	720	-280	H0
ATOM 1323 HG2 PRO A 84	-38.236	-22.021	11.715	1.00	36.87	H0	
ANISOU 1323 HG2 PRO A 84	5390	4310	4310	-180	820	-230	H0
ATOM 1324 HG3 PRO A 84	-39.270	-22.227	10.524	1.00	37.37	H0	
ANISOU 1324 HG3 PRO A 84	5500	4420	4290	-260	820	-320	H0
ATOM 1325 HD2 PRO A 84	-37.560	-20.031	10.933	1.00	36.20	H0	
ANISOU 1325 HD2 PRO A 84	5280	4310	4170	-110	800	-220	H0
ATOM 1326 HD3 PRO A 84	-38.051	-20.625	9.547	1.00	36.88	H0	
ANISOU 1326 HD3 PRO A 84	5430	4390	4200	-160	830	-300	H0
ATOM 1327 N ASP A 85	-42.161	-18.419	12.526	1.00	34.25	N0	
ANISOU 1327 N ASP A 85	4880	4400	3730	-190	570	-240	N0
ATOM 1328 CA ASP A 85	-42.665	-17.431	13.522	1.00	33.05	C0	
ANISOU 1328 CA ASP A 85	4670	4310	3570	-150	520	-200	C0
ATOM 1329 C ASP A 85	-42.706	-18.089	14.909	1.00	32.85	C0	
ANISOU 1329 C ASP A 85	4610	4270	3610	-190	530	-170	C0
ATOM 1330 O ASP A 85	-43.795	-18.147	15.520	1.00	32.91	O0	
ANISOU 1330 O ASP A 85	4570	4360	3580	-230	500	-190	O0
ATOM 1331 CB ASP A 85	-44.039	-16.892	13.121	1.00	33.02	C0	
ANISOU 1331 CB ASP A 85	4630	4440	3480	-140	470	-230	C0
ATOM 1332 CG ASP A 85	-45.134	-17.946	13.134	1.00	33.59	C0	
ANISOU 1332 CG ASP A 85	4650	4590	3520	-230	450	-290	C0
ATOM 1333 OD1 ASP A 85	-44.803	-19.127	12.911	1.00	34.27	O0	
ANISOU 1333 OD1 ASP A 85	4780	4600	3640	-310	500	-320	O0
ATOM 1334 OD2 ASP A 85	-46.306	-17.582	13.375	1.00	33.25	O0	
ANISOU 1334 OD2 ASP A 85	4540	4680	3420	-230	410	-310	O0
ATOM 1335 H ASP A 85	-42.824	-18.835	12.061	1.00	34.55	H0	
ANISOU 1335 H ASP A 85	4920	4480	3730	-230	560	-280	H0
ATOM 1336 HA ASP A 85	-42.034	-16.674	13.553	1.00	32.80	H0	
ANISOU 1336 HA ASP A 85	4650	4250	3550	-100	530	-170	H0
ATOM 1337 HB2 ASP A 85	-44.294	-16.175	13.737	1.00	32.89	H0	
ANISOU 1337 HB2 ASP A 85	4580	4460	3460	-100	450	-210	H0
ATOM 1338 HB3 ASP A 85	-43.984	-16.515	12.220	1.00	33.35	H0	
ANISOU 1338 HB3 ASP A 85	4700	4500	3480	-100	470	-240	H0
ATOM 1339 N LEU A 86	-41.565	-18.577	15.395	1.00	32.77	N0	
ANISOU 1339 N LEU A 86	4620	4160	3670	-190	570	-130	N0
ATOM 1340 CA LEU A 86	-41.502	-19.337	16.670	1.00	33.20	C0	
ANISOU 1340 CA LEU A 86	4660	4190	3770	-220	570	-100	C0
ATOM 1341 C LEU A 86	-41.576	-18.342	17.828	1.00	32.51	C0	
ANISOU 1341 C LEU A 86	4520	4160	3670	-190	540	-60	C0
ATOM 1342 O LEU A 86	-40.997	-17.244	17.714	1.00	31.61	O0	
ANISOU 1342 O LEU A 86	4400	4060	3560	-140	530	-50	O0
ATOM 1343 CB LEU A 86	-40.224	-20.180	16.716	1.00	33.96	C0	
ANISOU 1343 CB LEU A 86	4790	4180	3930	-200	620	-60	C0
ATOM 1344 CG LEU A 86	-40.143	-21.302	15.680	1.00	35.33	C0	
ANISOU 1344 CG LEU A 86	5040	4270	4120	-230	670	-100	C0
ATOM 1345 CD1 LEU A 86	-38.926	-22.181	15.921	1.00	36.28	C0	
ANISOU 1345 CD1 LEU A 86	5190	4280	4310	-180	730	-60	C0
ATOM 1346 CD2 LEU A 86	-41.408	-22.152	15.669	1.00	36.06	C0	
ANISOU 1346 CD2 LEU A 86	5150	4380	4170	-330	680	-150	C0

ATOM 1347 H LEU A 86	-40.760	-18.460	14.987	1.00	32.77	H0	
ANISOU 1347 H LEU A 86	4650	4120	3690	-160	590	-130	H0
ATOM 1348 HA LEU A 86	-42.285	-19.928	16.714	1.00	33.54	H0	
ANISOU 1348 HA LEU A 86	4700	4250	3790	-280	570	-120	H0
ATOM 1349 HB2 LEU A 86	-39.457	-19.586	16.590	1.00	33.73	H0	
ANISOU 1349 HB2 LEU A 86	4760	4140	3910	-150	620	-50	H0
ATOM 1350 HB3 LEU A 86	-40.148	-20.575	17.607	1.00	34.07	H0	
ANISOU 1350 HB3 LEU A 86	4800	4180	3970	-200	620	-20	H0
ATOM 1351 HG LEU A 86	-40.047	-20.886	14.792	1.00	35.27	H0	
ANISOU 1351 HG LEU A 86	5040	4280	4080	-220	680	-140	H0
ATOM 1352 HD11 LEU A 86	-38.122	-21.632	15.911	1.00	35.83	H0	
ANISOU 1352 HD11 LEU A 86	5110	4230	4270	-130	730	-40	H0
ATOM 1353 HD12 LEU A 86	-38.867	-22.854	15.220	1.00	36.57	H0	
ANISOU 1353 HD12 LEU A 86	5280	4260	4350	-200	770	-90	H0
ATOM 1354 HD13 LEU A 86	-39.007	-22.620	16.785	1.00	36.27	H0	
ANISOU 1354 HD13 LEU A 86	5190	4260	4320	-190	730	-20	H0
ATOM 1355 HD21 LEU A 86	-41.697	-22.316	16.583	1.00	36.01	H0	
ANISOU 1355 HD21 LEU A 86	5120	4380	4180	-350	670	-120	H0
ATOM 1356 HD22 LEU A 86	-41.226	-23.001	15.230	1.00	36.54	H0	
ANISOU 1356 HD22 LEU A 86	5270	4360	4250	-350	720	-170	H0
ATOM 1357 HD23 LEU A 86	-42.111	-21.683	15.185	1.00	35.96	H0	
ANISOU 1357 HD23 LEU A 86	5110	4440	4110	-350	650	-190	H0
ATOM 1358 N ALA A 87	-42.321	-18.692	18.875	1.00	32.82	N0	
ANISOU 1358 N ALA A 87	4520	4240	3700	-240	520	-50	N0
ATOM 1359 CA ALA A 87	-42.335	-17.957	20.160	1.00	33.01	C0	
ANISOU 1359 CA ALA A 87	4500	4320	3720	-220	490	-10	C0
ATOM 1360 C ALA A 87	-42.108	-18.946	21.302	1.00	33.86	C0	
ANISOU 1360 C ALA A 87	4610	4400	3860	-250	510	40	C0
ATOM 1361 O ALA A 87	-42.626	-20.083	21.231	1.00	32.70	O0	
ANISOU 1361 O ALA A 87	4490	4220	3710	-310	530	30	O0
ATOM 1362 CB ALA A 87	-43.626	-17.198	20.334	1.00	32.70	C0	
ANISOU 1362 CB ALA A 87	4410	4390	3630	-220	460	-50	C0
ATOM 1363 H ALA A 87	-42.881	-19.411	18.878	1.00	33.25	H0	
ANISOU 1363 H ALA A 87	4580	4300	3750	-290	530	-60	H0
ATOM 1364 HA ALA A 87	-41.589	-17.311	20.157	1.00	32.71	H0	
ANISOU 1364 HA ALA A 87	4460	4270	3700	-180	490	0	H0
ATOM 1365 HB1 ALA A 87	-43.613	-16.724	21.182	1.00	32.66	H0	
ANISOU 1365 HB1 ALA A 87	4380	4410	3620	-210	450	-30	H0
ATOM 1366 HB2 ALA A 87	-43.728	-16.559	19.609	1.00	32.72	H0	
ANISOU 1366 HB2 ALA A 87	4420	4400	3610	-190	450	-70	H0
ATOM 1367 HB3 ALA A 87	-44.373	-17.820	20.322	1.00	33.15	H0	
ANISOU 1367 HB3 ALA A 87	4460	4470	3670	-270	460	-70	H0
ATOM 1368 N ALA A 88	-41.340	-18.515	22.301	1.00	34.92	N0	
ANISOU 1368 N ALA A 88	4720	4550	4000	-220	490	80	N0
ATOM 1369 CA ALA A 88	-41.201	-19.201	23.599	1.00	36.59	C0	
ANISOU 1369 CA ALA A 88	4930	4760	4210	-240	500	140	C0
ATOM 1370 C ALA A 88	-42.399	-18.794	24.457	1.00	37.94	C0	
ANISOU 1370 C ALA A 88	5060	5030	4330	-290	480	130	C0
ATOM 1371 O ALA A 88	-42.426	-17.648	24.930	1.00	39.10	O0	
ANISOU 1371 O ALA A 88	5160	5240	4450	-270	450	110	O0
ATOM 1372 CB ALA A 88	-39.885	-18.844	24.232	1.00	37.20	C0	
ANISOU 1372 CB ALA A 88	4980	4850	4310	-190	480	190	C0
ATOM 1373 H ALA A 88	-40.841	-17.753	22.256	1.00	34.64	H0	
ANISOU 1373 H ALA A 88	4670	4520	3970	-190	490	80	H0

ATOM 1374 HA ALA A 88	-41.233 -20.172 23.449	1.00 37.11	H0
ANISOU 1374 HA ALA A 88	5030 4770 4300	-260 520 160	H0
ATOM 1375 HB1 ALA A 88	-39.699 -19.463 24.956	1.00 37.37	H0
ANISOU 1375 HB1 ALA A 88	5000 4860 4330	-190 480 240	H0
ATOM 1376 HB2 ALA A 88	-39.178 -18.905 23.567	1.00 36.97	H0
ANISOU 1376 HB2 ALA A 88	4960 4780 4310	-150 500 190	H0
ATOM 1377 HB3 ALA A 88	-39.923 -17.938 24.580	1.00 36.73	H0
ANISOU 1377 HB3 ALA A 88	4880 4840 4230	-190 460 170	H0
ATOM 1378 N TYR A 89	-43.362 -19.703 24.612	1.00 39.27	N0
ANISOU 1378 N TYR A 89	5240 5190 4490	-360 500 120	N0
ATOM 1379 CA TYR A 89	-44.726 -19.423 25.124	1.00 40.41	C0
ANISOU 1379 CA TYR A 89	5340 5440 4580	-420 490 80	C0
ATOM 1380 C TYR A 89	-44.661 -18.874 26.555	1.00 40.97	C0
ANISOU 1380 C TYR A 89	5370 5580 4610	-420 470 120	C0
ATOM 1381 O TYR A 89	-45.489 -18.004 26.867	1.00 42.38	O0
ANISOU 1381 O TYR A 89	5500 5860 4750	-420 460 70	O0
ATOM 1382 CB TYR A 89	-45.598 -20.673 24.979	1.00 42.37	C0
ANISOU 1382 CB TYR A 89	5620 5670 4820	-520 530 70	C0
ATOM 1383 CG TYR A 89	-45.906 -21.080 23.553	1.00 43.52	C0
ANISOU 1383 CG TYR A 89	5780 5780 4970	-550 540 0	C0
ATOM 1384 CD1 TYR A 89	-45.957 -20.145 22.530	1.00 43.35	C0
ANISOU 1384 CD1 TYR A 89	5730 5800 4940	-490 510 -50	C0
ATOM 1385 CD2 TYR A 89	-46.203 -22.396 23.226	1.00 45.07	C0
ANISOU 1385 CD2 TYR A 89	6050 5900 5180	-640 590 -10	C0
ATOM 1386 CE1 TYR A 89	-46.269 -20.504 21.229	1.00 44.44	C0
ANISOU 1386 CE1 TYR A 89	5890 5930 5070	-510 520 -110	C0
ATOM 1387 CE2 TYR A 89	-46.508 -22.775 21.927	1.00 45.28	C0
ANISOU 1387 CE2 TYR A 89	6090 5910 5200	-680 610 -80	C0
ATOM 1388 CZ TYR A 89	-46.542 -21.824 20.921	1.00 45.29	C0
ANISOU 1388 CZ TYR A 89	6050 5970 5190	-610 560 -130	C0
ATOM 1389 OH TYR A 89	-46.852 -22.154 19.629	1.00 46.21	O0
ANISOU 1389 OH TYR A 89	6180 6090 5290	-650 570 -200	O0
ATOM 1390 H TYR A 89	-43.241 -20.584 24.414	1.00 39.67	H0
ANISOU 1390 H TYR A 89	5340 5180 4550	-380 520 140	H0
ATOM 1391 HA TYR A 89	-45.118 -18.712 24.559	1.00 40.32	H0
ANISOU 1391 HA TYR A 89	5300 5470 4550	-400 470 30	H0
ATOM 1392 HB2 TYR A 89	-45.146 -21.418 25.428	1.00 42.63	H0
ANISOU 1392 HB2 TYR A 89	5700 5630 4870	-530 550 120	H0
ATOM 1393 HB3 TYR A 89	-46.442 -20.513 25.449	1.00 42.51	H0
ANISOU 1393 HB3 TYR A 89	5590 5760 4800	-560 530 40	H0
ATOM 1394 HD1 TYR A 89	-45.777 -19.241 22.721	1.00 43.04	H0
ANISOU 1394 HD1 TYR A 89	5660 5800 4890	-430 480 -40	H0
ATOM 1395 HD2 TYR A 89	-46.182 -23.053 23.902	1.00 45.32	H0
ANISOU 1395 HD2 TYR A 89	6120 5890 5220	-680 620 30	H0
ATOM 1396 HE1 TYR A 89	-46.288 -19.850 20.550	1.00 43.95	H0
ANISOU 1396 HE1 TYR A 89	5800 5900 4990	-470 490 -130	H0
ATOM 1397 HE2 TYR A 89	-46.698 -23.678 21.728	1.00 46.03	H0
ANISOU 1397 HE2 TYR A 89	6240 5950 5310	-750 650 -100	H0
ATOM 1398 N ASN A 90	-43.697 -19.309 27.376	1.00 40.75	N0
ANISOU 1398 N ASN A 90	5370 5510 4600	-400 470 190	N0
ATOM 1399 CA ASN A 90	-43.605 -18.912 28.811	1.00 40.80	C0
ANISOU 1399 CA ASN A 90	5350 5600 4560	-400 460 230	C0
ATOM 1400 C ASN A 90	-42.504 -17.860 29.007	1.00 39.52	C0
ANISOU 1400 C ASN A 90	5150 5460 4400	-340 430 230	C0

ATOM 1401 O ASN A 90	-42.078	-17.660	30.161	1.00	38.68	O0	
ANISOU 1401 O ASN A 90	5030	5420	4250	-340	410	260	O0
ATOM 1402 CB ASN A 90	-43.420	-20.123	29.736	1.00	41.71	C0	
ANISOU 1402 CB ASN A 90	5510	5680	4660	-430	480	310	C0
ATOM 1403 CG ASN A 90	-42.204	-20.961	29.407	1.00	42.24	C0	
ANISOU 1403 CG ASN A 90	5630	5640	4770	-370	490	390	C0
ATOM 1404 OD1 ASN A 90	-41.941	-21.249	28.238	1.00	41.85	O0	
ANISOU 1404 OD1 ASN A 90	5610	5510	4780	-350	500	360	O0
ATOM 1405 ND2 ASN A 90	-41.479	-21.383	30.432	1.00	42.72	N0	
ANISOU 1405 ND2 ASN A 90	5710	5720	4810	-330	480	480	N0
ATOM 1406 H ASN A 90	-43.037	-19.873	27.105	1.00	40.92	H0	
ANISOU 1406 H ASN A 90	5430	5470	4650	-380	480	220	H0
ATOM 1407 HA ASN A 90	-44.463	-18.496	29.059	1.00	40.70	H0	
ANISOU 1407 HA ASN A 90	5300	5650	4510	-430	460	190	H0
ATOM 1408 HB2 ASN A 90	-43.348	-19.806	30.659	1.00	41.88	H0	
ANISOU 1408 HB2 ASN A 90	5510	5770	4640	-430	460	340	H0
ATOM 1409 HB3 ASN A 90	-44.218	-20.687	29.676	1.00	42.09	H0	
ANISOU 1409 HB3 ASN A 90	5580	5720	4690	-490	510	300	H0
ATOM 1410 HD21 ASN A 90	-40.607	-21.501	30.338	1.00	42.85	H0	
ANISOU 1410 HD21 ASN A 90	5730	5710	4840	-270	460	510	H0
ATOM 1411 HD22 ASN A 90	-41.866	-21.548	31.210	1.00	43.13	H0	
ANISOU 1411 HD22 ASN A 90	5770	5810	4820	-370	480	500	H0
ATOM 1412 N ALA A 91	-42.081	-17.181	27.937	1.00	38.38	N0	
ANISOU 1412 N ALA A 91	5010	5280	4290	-300	420	180	N0
ATOM 1413 CA ALA A 91	-41.141	-16.040	28.016	1.00	37.58	C0	
ANISOU 1413 CA ALA A 91	4880	5200	4190	-260	400	160	C0
ATOM 1414 C ALA A 91	-41.869	-14.832	28.607	1.00	37.18	C0	
ANISOU 1414 C ALA A 91	4810	5230	4090	-270	400	100	C0
ATOM 1415 O ALA A 91	-43.090	-14.689	28.371	1.00	36.85	O0	
ANISOU 1415 O ALA A 91	4760	5210	4030	-280	410	70	O0
ATOM 1416 CB ALA A 91	-40.559	-15.719	26.669	1.00	37.79	C0	
ANISOU 1416 CB ALA A 91	4930	5160	4270	-220	420	130	C0
ATOM 1417 H ALA A 91	-42.337	-17.365	27.083	1.00	38.28	H0	
ANISOU 1417 H ALA A 91	5010	5230	4300	-290	430	160	H0
ATOM 1418 HA ALA A 91	-40.406	-16.288	28.625	1.00	37.98	H0	
ANISOU 1418 HA ALA A 91	4920	5270	4240	-250	390	200	H0
ATOM 1419 HB1 ALA A 91	-39.965	-14.954	26.746	1.00	37.50	H0	
ANISOU 1419 HB1 ALA A 91	4880	5140	4230	-210	410	120	H0
ATOM 1420 HB2 ALA A 91	-40.058	-16.484	26.340	1.00	37.73	H0	
ANISOU 1420 HB2 ALA A 91	4940	5110	4290	-210	420	170	H0
ATOM 1421 HB3 ALA A 91	-41.275	-15.509	26.046	1.00	37.44	H0	
ANISOU 1421 HB3 ALA A 91	4900	5110	4220	-220	420	100	H0
ATOM 1422 N ILE A 92	-41.137	-14.009	29.361	1.00	36.71	N0	
ANISOU 1422 N ILE A 92	4730	5210	4010	-280	390	90	N0
ATOM 1423 CA ILE A 92	-41.658	-12.767	29.997	1.00	37.03	C0	
ANISOU 1423 CA ILE A 92	4760	5310	4010	-290	400	30	C0
ATOM 1424 C ILE A 92	-40.781	-11.578	29.599	1.00	37.16	C0	
ANISOU 1424 C ILE A 92	4790	5290	4040	-280	420	-20	C0
ATOM 1425 O ILE A 92	-41.022	-10.480	30.104	1.00	38.80	O0	
ANISOU 1425 O ILE A 92	5010	5520	4210	-290	440	-80	O0
ATOM 1426 CB ILE A 92	-41.763	-12.945	31.525	1.00	37.56	C0	
ANISOU 1426 CB ILE A 92	4790	5470	4010	-340	390	50	C0
ATOM 1427 CG1 ILE A 92	-40.409	-13.236	32.185	1.00	37.90	C0	
ANISOU 1427 CG1 ILE A 92	4810	5550	4040	-350	360	100	C0

ATOM 1428 CG2 ILE A 92	-42.787	-14.019	31.841	1.00	37.69	C0
ANISOU 1428 CG2 ILE A 92	4800	5510	4010	-360	390 90	C0
ATOM 1429 CD1 ILE A 92	-40.455	-13.217	33.698	1.00	38.70	C0
ANISOU 1429 CD1 ILE A 92	4880	5770	4060	-390	340 110	C0
ATOM 1430 H ILE A 92	-40.265	-14.181	29.561	1.00	37.04	H0
ANISOU 1430 H ILE A 92	4760	5260	4060	-270	380 120	H0
ATOM 1431 HA ILE A 92	-42.555	-12.605	29.654	1.00	36.95	H0
ANISOU 1431 HA ILE A 92	4750	5290	3990	-280	410 0	H0
ATOM 1432 HB ILE A 92	-42.098	-12.094	31.901	1.00	37.65	H0
ANISOU 1432 HB ILE A 92	4800	5510	3990	-340	400 0	H0
ATOM 1433 HG12 ILE A 92	-40.097	-14.118	31.890	1.00	37.96	H0
ANISOU 1433 HG12 ILE A 92	4820	5530	4070	-330	350 150	H0
ATOM 1434 HG13 ILE A 92	-39.758	-12.568	31.882	1.00	37.87	H0
ANISOU 1434 HG13 ILE A 92	4800	5540	4050	-350	360 60	H0
ATOM 1435 HG21 ILE A 92	-43.602	-13.851	31.338	1.00	37.57	H0
ANISOU 1435 HG21 ILE A 92	4790	5480	4000	-350	410 50	H0
ATOM 1436 HG22 ILE A 92	-42.988	-14.010	32.793	1.00	38.10	H0
ANISOU 1436 HG22 ILE A 92	4840	5620	4010	-390	390 100	H0
ATOM 1437 HG23 ILE A 92	-42.432	-14.891	31.596	1.00	37.76	H0
ANISOU 1437 HG23 ILE A 92	4820	5480	4040	-360	390 140	H0
ATOM 1438 HD11 ILE A 92	-40.909	-12.411	34.001	1.00	38.69	H0
ANISOU 1438 HD11 ILE A 92	4880	5790	4030	-410	360 50	H0
ATOM 1439 HD12 ILE A 92	-39.548	-13.228	34.052	1.00	38.96	H0
ANISOU 1439 HD12 ILE A 92	4890	5840	4070	-400	320 130	H0
ATOM 1440 HD13 ILE A 92	-40.936	-13.999	34.020	1.00	38.83	H0
ANISOU 1440 HD13 ILE A 92	4900	5790	4060	-400	340 160	H0
ATOM 1441 N SER A 93	-39.793	-11.788	28.734	1.00	37.59	N0
ANISOU 1441 N SER A 93	4860	5290	4140	-260	420 0	N0
ATOM 1442 CA SER A 93	-39.001	-10.706	28.102	1.00	38.66	C0
ANISOU 1442 CA SER A 93	5020	5380	4290	-270	450 -50	C0
ATOM 1443 C SER A 93	-38.952	-10.953	26.593	1.00	38.52	C0
ANISOU 1443 C SER A 93	5050	5270	4320	-220	460 -40	C0
ATOM 1444 O SER A 93	-39.092	-12.115	26.178	1.00	38.81	O0
ANISOU 1444 O SER A 93	5070	5290	4380	-200	450 10	O0
ATOM 1445 CB SER A 93	-37.620	-10.607	28.697	1.00	38.34	C0
ANISOU 1445 CB SER A 93	4930	5390	4240	-310	440 -50	C0
ATOM 1446 OG SER A 93	-36.786	-11.645	28.207	1.00	38.48	O0
ANISOU 1446 OG SER A 93	4920	5400	4300	-280	420 10	O0
ATOM 1447 H SER A 93	-39.524	-12.612	28.464	1.00	37.64	H0
ANISOU 1447 H SER A 93	4860	5280	4170	-250	410 40	H0
ATOM 1448 HA SER A 93	-39.472	-9.844	28.260	1.00	38.45	H0
ANISOU 1448 HA SER A 93	5020	5350	4240	-270	470 -90	H0
ATOM 1449 HB2 SER A 93	-37.228	-9.734	28.469	1.00	38.68	H0
ANISOU 1449 HB2 SER A 93	5000	5410	4290	-330	470 -90	H0
ATOM 1450 HB3 SER A 93	-37.682	-10.670	29.676	1.00	38.83	H0
ANISOU 1450 HB3 SER A 93	4970	5520	4270	-340	420 -40	H0
ATOM 1451 N LYS A 94	-38.804	-9.879	25.825	1.00	40.25	N0
ANISOU 1451 N LYS A 94	5320	5430	4540	-210	500 -80	N0
ATOM 1452 CA LYS A 94	-38.487	-9.895	24.371	1.00	43.09	C0
ANISOU 1452 CA LYS A 94	5730	5710	4940	-180	530 -70	C0
ATOM 1453 C LYS A 94	-37.193	-10.688	24.169	1.00	41.77	C0
ANISOU 1453 C LYS A 94	5520	5540	4810	-200	520 -50	C0
ATOM 1454 O LYS A 94	-36.271	-10.568	24.972	1.00	39.75	O0
ANISOU 1454 O LYS A 94	5210	5350	4550	-240	520 -50	O0

ATOM 1455 CB LYS A 94	-38.337	-8.443	23.898	1.00	46.17	C0	
ANISOU 1455 CB LYS A 94	6200	6030	5310	-170	580	-120	C0
ATOM 1456 CG LYS A 94	-38.860	-8.130	22.507	1.00	50.03	C0	
ANISOU 1456 CG LYS A 94	6770	6440	5800	-110	610	-110	C0
ATOM 1457 CD LYS A 94	-38.599	-6.681	22.109	1.00	52.75	C0	
ANISOU 1457 CD LYS A 94	7210	6700	6130	-110	670	-150	C0
ATOM 1458 CE LYS A 94	-38.962	-6.370	20.671	1.00	54.78	C0	
ANISOU 1458 CE LYS A 94	7560	6890	6370	-30	700	-130	C0
ATOM 1459 NZ LYS A 94	-40.431	-6.272	20.488	1.00	56.58	N0	
ANISOU 1459 NZ LYS A 94	7800	7140	6560	70	660	-120	N0
ATOM 1460 H LYS A 94	-38.890	-9.038	26.164	1.00	40.75	H0	
ANISOU 1460 H LYS A 94	5410	5490	4590	-220	520	-120	H0
ATOM 1461 HA LYS A 94	-39.224	-10.327	23.885	1.00	42.55	H0	
ANISOU 1461 HA LYS A 94	5670	5630	4870	-140	520	-60	H0
ATOM 1462 HB2 LYS A 94	-38.803	-7.862	24.534	1.00	46.52	H0	
ANISOU 1462 HB2 LYS A 94	6250	6090	5330	-180	590	-140	H0
ATOM 1463 HB3 LYS A 94	-37.386	-8.208	23.928	1.00	46.55	H0	
ANISOU 1463 HB3 LYS A 94	6240	6070	5370	-220	600	-130	H0
ATOM 1464 HG2 LYS A 94	-38.426	-8.726	21.860	1.00	49.42	H0	
ANISOU 1464 HG2 LYS A 94	6680	6350	5740	-110	600	-100	H0
ATOM 1465 HG3 LYS A 94	-39.825	-8.303	22.481	1.00	49.49	H0	
ANISOU 1465 HG3 LYS A 94	6690	6400	5710	-60	580	-110	H0
ATOM 1466 HD2 LYS A 94	-39.116	-6.092	22.699	1.00	52.88	H0	
ANISOU 1466 HD2 LYS A 94	7250	6730	6120	-90	680	-170	H0
ATOM 1467 HD3 LYS A 94	-37.649	-6.481	22.244	1.00	52.83	H0	
ANISOU 1467 HD3 LYS A 94	7220	6700	6150	-170	700	-160	H0
ATOM 1468 HE2 LYS A 94	-38.552	-5.525	20.405	1.00	55.11	H0	
ANISOU 1468 HE2 LYS A 94	7670	6860	6400	-40	750	-140	H0
ATOM 1469 HE3 LYS A 94	-38.615	-7.071	20.087	1.00	54.48	H0	
ANISOU 1469 HE3 LYS A 94	7500	6850	6350	-40	680	-110	H0
ATOM 1470 HZ1 LYS A 94	-40.818	-7.072	20.671	1.00	55.72	H0	
ANISOU 1470 HZ1 LYS A 94	7620	7090	6450	70	620	-110	H0
ATOM 1471 HZ2 LYS A 94	-40.620	-6.040	19.632	1.00	56.22	H0	
ANISOU 1471 HZ2 LYS A 94	7800	7060	6490	120	680	-100	H0
ATOM 1472 HZ3 LYS A 94	-40.770	-5.644	21.048	1.00	56.30	H0	
ANISOU 1472 HZ3 LYS A 94	7780	7100	6510	80	680	-130	H0
ATOM 1473 N PRO A 95	-37.073	-11.534	23.118	1.00	41.84	N0	
ANISOU 1473 N PRO A 95	5540	5510	4850	-160	530	-20	N0
ATOM 1474 CA PRO A 95	-35.801	-12.185	22.807	1.00	41.56	C0	
ANISOU 1474 CA PRO A 95	5470	5470	4850	-170	540	0	C0
ATOM 1475 C PRO A 95	-34.708	-11.137	22.539	1.00	41.60	C0	
ANISOU 1475 C PRO A 95	5470	5470	4860	-210	580	-40	C0
ATOM 1476 O PRO A 95	-34.893	-10.320	21.655	1.00	43.38	O0	
ANISOU 1476 O PRO A 95	5770	5630	5080	-210	620	-70	O0
ATOM 1477 CB PRO A 95	-36.065	-13.017	21.539	1.00	42.04	C0	
ANISOU 1477 CB PRO A 95	5570	5460	4940	-120	550	20	C0
ATOM 1478 CG PRO A 95	-37.576	-13.065	21.376	1.00	41.99	C0	
ANISOU 1478 CG PRO A 95	5600	5450	4900	-110	530	10	C0
ATOM 1479 CD PRO A 95	-38.142	-11.910	22.180	1.00	42.39	C0	
ANISOU 1479 CD PRO A 95	5650	5540	4920	-120	520	-20	C0
ATOM 1480 HA PRO A 95	-35.538	-12.781	23.552	1.00	41.87	H0	
ANISOU 1480 HA PRO A 95	5460	5560	4900	-170	510	30	H0
ATOM 1481 HB2 PRO A 95	-35.649	-12.600	20.754	1.00	41.98	H0	
ANISOU 1481 HB2 PRO A 95	5590	5420	4940	-120	580	0	H0

ATOM 1482 HB3 PRO A 95	-35.702	-13.923	21.639	1.00	42.06		H0
ANISOU 1482 HB3 PRO A 95	5540	5470	4970	-110	540	50	H0
ATOM 1483 HG2 PRO A 95	-37.820	-12.975	20.432	1.00	41.98		H0
ANISOU 1483 HG2 PRO A 95	5640	5410	4900	-90	550	0	H0
ATOM 1484 HG3 PRO A 95	-37.928	-13.916	21.707	1.00	42.04		H0
ANISOU 1484 HG3 PRO A 95	5590	5470	4920	-110	510	30	H0
ATOM 1485 HD2 PRO A 95	-38.370	-11.161	21.599	1.00	42.12		H0
ANISOU 1485 HD2 PRO A 95	5670	5470	4870	-110	540	-40	H0
ATOM 1486 HD3 PRO A 95	-38.943	-12.187	22.663	1.00	42.06		H0
ANISOU 1486 HD3 PRO A 95	5600	5530	4860	-120	500	-10	H0
ATOM 1487 N GLU A 96	-33.635	-11.140	23.335	1.00	40.74		N0
ANISOU 1487 N GLU A 96	5280	5440	4750	-250	570	-40	N0
ATOM 1488 CA GLU A 96	-32.421	-10.324	23.076	1.00	41.47		C0
ANISOU 1488 CA GLU A 96	5350	5550	4850	-310	620	-90	C0
ATOM 1489 C GLU A 96	-31.493	-11.175	22.201	1.00	39.57		C0
ANISOU 1489 C GLU A 96	5070	5310	4650	-270	640	-70	C0
ATOM 1490 O GLU A 96	-30.804	-12.051	22.750	1.00	38.05		O0
ANISOU 1490 O GLU A 96	4780	5200	4470	-240	610	-30	O0
ATOM 1491 CB GLU A 96	-31.759	-9.856	24.380	1.00	43.79		C0
ANISOU 1491 CB GLU A 96	5560	5960	5110	-380	600	-120	C0
ATOM 1492 CG GLU A 96	-30.637	-8.843	24.153	1.00	46.16		C0
ANISOU 1492 CG GLU A 96	5850	6290	5400	-470	660	-190	C0
ATOM 1493 CD GLU A 96	-29.876	-8.357	25.384	1.00	48.85		C0
ANISOU 1493 CD GLU A 96	6090	6770	5700	-570	640	-240	C0
ATOM 1494 OE1 GLU A 96	-29.040	-7.422	25.243	1.00	50.18		O0
ANISOU 1494 OE1 GLU A 96	6250	6960	5860	-670	700	-310	O0
ATOM 1495 OE2 GLU A 96	-30.109	-8.906	26.481	1.00	49.96		O0
ANISOU 1495 OE2 GLU A 96	6170	7000	5810	-540	570	-200	O0
ATOM 1496 H GLU A 96	-33.584	-11.647	24.091	1.00	41.21		H0
ANISOU 1496 H GLU A 96	5290	5560	4810	-240	540	-20	H0
ATOM 1497 HA GLU A 96	-32.690	-9.528	22.562	1.00	41.28		H0
ANISOU 1497 HA GLU A 96	5400	5470	4820	-330	660	-120	H0
ATOM 1498 HB2 GLU A 96	-32.443	-9.452	24.953	1.00	43.62		H0
ANISOU 1498 HB2 GLU A 96	5570	5940	5060	-390	590	-130	H0
ATOM 1499 HB3 GLU A 96	-31.395	-10.637	24.848	1.00	43.91		H0
ANISOU 1499 HB3 GLU A 96	5510	6050	5130	-350	560	-80	H0
ATOM 1500 HG2 GLU A 96	-29.985	-9.236	23.535	1.00	46.33		H0
ANISOU 1500 HG2 GLU A 96	5840	6310	5450	-460	680	-180	H0
ATOM 1501 HG3 GLU A 96	-31.017	-8.057	23.706	1.00	46.09		H0
ANISOU 1501 HG3 GLU A 96	5930	6200	5390	-500	710	-220	H0
ATOM 1502 N VAL A 97	-31.512	-10.959	20.882	1.00	37.91		N0
ANISOU 1502 N VAL A 97	4940	5010	4460	-260	690	-80	N0
ATOM 1503 CA VAL A 97	-30.647	-11.714	19.925	1.00	37.66		C0
ANISOU 1503 CA VAL A 97	4880	4970	4460	-230	730	-70	C0
ATOM 1504 C VAL A 97	-29.237	-11.135	20.033	1.00	36.98		C0
ANISOU 1504 C VAL A 97	4710	4960	4380	-300	770	-110	C0
ATOM 1505 O VAL A 97	-29.091	-9.938	19.786	1.00	37.98		O0
ANISOU 1505 O VAL A 97	4890	5060	4480	-380	820	-160	O0
ATOM 1506 CB VAL A 97	-31.181	-11.667	18.481	1.00	37.76		C0
ANISOU 1506 CB VAL A 97	5000	4870	4480	-200	770	-70	C0
ATOM 1507 CG1 VAL A 97	-30.318	-12.509	17.545	1.00	38.37		C0
ANISOU 1507 CG1 VAL A 97	5050	4940	4590	-170	810	-70	C0
ATOM 1508 CG2 VAL A 97	-32.637	-12.106	18.402	1.00	37.20		C0
ANISOU 1508 CG2 VAL A 97	4990	4750	4390	-150	730	-50	C0

ATOM 1509 H VAL A 97	-32.041	-10.330	20.489	1.00	37.96		H0
ANISOU 1509 H VAL A 97	5020	4960	4450	-270	720	-100	H0
ATOM 1510 HA VAL A 97	-30.620	-12.645	20.210	1.00	37.54		H0
ANISOU 1510 HA VAL A 97	4820	4980	4470	-180	690	-30	H0
ATOM 1511 HB VAL A 97	-31.130	-10.728	18.176	1.00	37.86		H0
ANISOU 1511 HB VAL A 97	5060	4860	4470	-240	810	-100	H0
ATOM 1512 HG11 VAL A 97	-29.539	-11.995	17.269	1.00	38.71		H0
ANISOU 1512 HG11 VAL A 97	5070	5000	4630	-210	850	-100	H0
ATOM 1513 HG12 VAL A 97	-30.836	-12.758	16.761	1.00	38.06		H0
ANISOU 1513 HG12 VAL A 97	5070	4840	4550	-140	820	-70	H0
ATOM 1514 HG13 VAL A 97	-30.027	-13.314	18.008	1.00	38.43		H0
ANISOU 1514 HG13 VAL A 97	4990	4990	4620	-130	780	-40	H0
ATOM 1515 HG21 VAL A 97	-32.739	-12.973	18.831	1.00	37.12		H0
ANISOU 1515 HG21 VAL A 97	4940	4760	4400	-120	690	-20	H0
ATOM 1516 HG22 VAL A 97	-32.907	-12.173	17.469	1.00	37.10		H0
ANISOU 1516 HG22 VAL A 97	5040	4690	4370	-130	750	-50	H0
ATOM 1517 HG23 VAL A 97	-33.200	-11.454	18.854	1.00	37.03		H0
ANISOU 1517 HG23 VAL A 97	5000	4730	4340	-170	710	-60	H0
ATOM 1518 N LEU A 98	-28.256	-11.947	20.431	1.00	36.79		N0
ANISOU 1518 N LEU A 98	4560	5040	4380	-260	750	-90	N0
ATOM 1519 CA LEU A 98	-26.869	-11.490	20.725	1.00	37.57		C0
ANISOU 1519 CA LEU A 98	4540	5260	4480	-330	770	-140	C0
ATOM 1520 C LEU A 98	-26.000	-11.537	19.457	1.00	38.13		C0
ANISOU 1520 C LEU A 98	4600	5310	4580	-330	860	-170	C0
ATOM 1521 O LEU A 98	-24.938	-10.884	19.456	1.00	39.10		O0
ANISOU 1521 O LEU A 98	4640	5520	4690	-420	900	-220	O0
ATOM 1522 CB LEU A 98	-26.279	-12.373	21.830	1.00	38.05		C0
ANISOU 1522 CB LEU A 98	4450	5470	4540	-270	700	-90	C0
ATOM 1523 CG LEU A 98	-27.025	-12.354	23.167	1.00	37.87		C0
ANISOU 1523 CG LEU A 98	4430	5490	4470	-270	630	-70	C0
ATOM 1524 CD1 LEU A 98	-26.530	-13.462	24.085	1.00	38.76		C0
ANISOU 1524 CD1 LEU A 98	4430	5720	4580	-180	560	0	C0
ATOM 1525 CD2 LEU A 98	-26.880	-11.005	23.854	1.00	38.26		C0
ANISOU 1525 CD2 LEU A 98	4470	5600	4470	-410	640	-140	C0
ATOM 1526 H LEU A 98	-28.378	-12.843	20.542	1.00	36.84		H0
ANISOU 1526 H LEU A 98	4550	5040	4410	-190	720	-50	H0
ATOM 1527 HA LEU A 98	-26.911	-10.558	21.041	1.00	37.73		H0
ANISOU 1527 HA LEU A 98	4580	5290	4470	-410	790	-180	H0
ATOM 1528 HB2 LEU A 98	-26.252	-13.295	21.504	1.00	38.08		H0
ANISOU 1528 HB2 LEU A 98	4450	5440	4570	-180	700	-50	H0
ATOM 1529 HB3 LEU A 98	-25.356	-12.091	21.988	1.00	38.87		H0
ANISOU 1529 HB3 LEU A 98	4460	5670	4630	-310	720	-130	H0
ATOM 1530 HG LEU A 98	-27.985	-12.508	22.988	1.00	37.18		H0
ANISOU 1530 HG LEU A 98	4430	5300	4390	-250	620	-40	H0
ATOM 1531 HD11 LEU A 98	-26.676	-14.326	23.661	1.00	38.54		H0
ANISOU 1531 HD11 LEU A 98	4430	5630	4590	-90	560	50	H0
ATOM 1532 HD12 LEU A 98	-27.018	-13.429	24.927	1.00	38.56		H0
ANISOU 1532 HD12 LEU A 98	4410	5720	4520	-180	510	20	H0
ATOM 1533 HD13 LEU A 98	-25.580	-13.342	24.257	1.00	39.50		H0
ANISOU 1533 HD13 LEU A 98	4410	5930	4670	-190	560	-20	H0
ATOM 1534 HD21 LEU A 98	-25.937	-10.781	23.932	1.00	39.03		H0
ANISOU 1534 HD21 LEU A 98	4470	5800	4560	-450	650	-180	H0
ATOM 1535 HD22 LEU A 98	-27.277	-11.049	24.742	1.00	38.19		H0
ANISOU 1535 HD22 LEU A 98	4440	5630	4430	-410	590	-130	H0

ATOM 1536 HD23 LEU A 98	-27.334	-10.323	23.331	1.00	37.85	H0	
ANISOU 1536 HD23 LEU A 98	4510	5450	4420	-450	680	-180	H0
ATOM 1537 N THR A 99	-26.440	-12.245	18.410	1.00	37.17	N0	
ANISOU 1537 N THR A 99	4560	5080	4480	-260	880	-140	N0
ATOM 1538 CA THR A 99	-25.587	-12.691	17.276	1.00	37.70	C0	
ANISOU 1538 CA THR A 99	4600	5140	4580	-230	950	-150	C0
ATOM 1539 C THR A 99	-26.041	-12.063	15.958	1.00	37.85	C0	
ANISOU 1539 C THR A 99	4770	5030	4580	-270	1020	-180	C0
ATOM 1540 O THR A 99	-27.197	-11.676	15.809	1.00	36.84	O0	
ANISOU 1540 O THR A 99	4760	4810	4420	-270	1000	-160	O0
ATOM 1541 CB THR A 99	-25.598	-14.222	17.162	1.00	36.99	C0	
ANISOU 1541 CB THR A 99	4490	5030	4530	-90	920	-100	C0
ATOM 1542 OG1 THR A 99	-26.949	-14.660	17.297	1.00	35.28	O0	
ANISOU 1542 OG1 THR A 99	4380	4720	4310	-50	870	-50	O0
ATOM 1543 CG2 THR A 99	-24.729	-14.904	18.196	1.00	37.86	C0	
ANISOU 1543 CG2 THR A 99	4440	5280	4660	-30	870	-60	C0
ATOM 1544 H THR A 99	-27.308	-12.503	18.312	1.00	36.68	H0	
ANISOU 1544 H THR A 99	4570	4950	4420	-220	850	-110	H0
ATOM 1545 HA THR A 99	-24.666	-12.401	17.461	1.00	38.39	H0	
ANISOU 1545 HA THR A 99	4600	5320	4670	-270	970	-180	H0
ATOM 1546 HB THR A 99	-25.272	-14.467	16.263	1.00	37.21	H0	
ANISOU 1546 HB THR A 99	4530	5030	4580	-70	970	-110	H0
ATOM 1547 HG21 THR A 99	-23.805	-14.915	17.889	1.00	38.59	H0	
ANISOU 1547 HG21 THR A 99	4450	5440	4770	-20	910	-90	H0
ATOM 1548 HG22 THR A 99	-25.037	-15.818	18.328	1.00	37.76	H0	
ANISOU 1548 HG22 THR A 99	4440	5230	4670	60	850	-20	H0
ATOM 1549 HG23 THR A 99	-24.784	-14.419	19.039	1.00	37.85	H0	
ANISOU 1549 HG23 THR A 99	4400	5350	4630	-70	830	-70	H0
ATOM 1550 N PRO A 100	-25.149	-11.971	14.941	1.00	38.88	N0	
ANISOU 1550 N PRO A 100	4890	5170	4720	-300	1110	-210	N0
ATOM 1551 CA PRO A 100	-25.550	-11.529	13.604	1.00	38.69	C0	
ANISOU 1551 CA PRO A 100	5010	5030	4660	-320	1170	-230	C0
ATOM 1552 C PRO A 100	-26.754	-12.337	13.095	1.00	37.99	C0	
ANISOU 1552 C PRO A 100	5020	4840	4570	-230	1130	-190	C0
ATOM 1553 O PRO A 100	-26.778	-13.536	13.272	1.00	38.04	O0	
ANISOU 1553 O PRO A 100	4980	4860	4620	-140	1100	-160	O0
ATOM 1554 CB PRO A 100	-24.301	-11.784	12.741	1.00	39.85	C0	
ANISOU 1554 CB PRO A 100	5090	5220	4830	-330	1260	-260	C0
ATOM 1555 CG PRO A 100	-23.154	-11.715	13.731	1.00	40.76	C0	
ANISOU 1555 CG PRO A 100	5020	5500	4970	-370	1260	-290	C0
ATOM 1556 CD PRO A 100	-23.712	-12.278	15.024	1.00	39.79	C0	
ANISOU 1556 CD PRO A 100	4840	5420	4860	-300	1140	-240	C0
ATOM 1557 HA PRO A 100	-25.758	-10.561	13.619	1.00	38.77	H0	
ANISOU 1557 HA PRO A 100	5080	5010	4640	-390	1200	-240	H0
ATOM 1558 HB2 PRO A 100	-24.341	-12.666	12.313	1.00	39.78	H0	
ANISOU 1558 HB2 PRO A 100	5080	5200	4840	-260	1260	-250	H0
ATOM 1559 HB3 PRO A 100	-24.206	-11.097	12.047	1.00	40.05	H0	
ANISOU 1559 HB3 PRO A 100	5180	5210	4820	-400	1330	-290	H0
ATOM 1560 HG2 PRO A 100	-22.397	-12.250	13.422	1.00	41.27	H0	
ANISOU 1560 HG2 PRO A 100	5000	5620	5060	-330	1290	-300	H0
ATOM 1561 HG3 PRO A 100	-22.857	-10.790	13.855	1.00	41.00	H0	
ANISOU 1561 HG3 PRO A 100	5050	5550	4980	-470	1290	-330	H0
ATOM 1562 HD2 PRO A 100	-23.562	-13.239	15.083	1.00	40.05	H0	
ANISOU 1562 HD2 PRO A 100	4820	5470	4930	-210	1120	-210	H0

ATOM 1563 HD3 PRO A 100	-23.306	-11.845	15.798	1.00	40.31	H0	
ANISOU 1563 HD3 PRO A 100	4830	5570	4920	-350	1120	-260	H0
ATOM 1564 N GLN A 101	-27.728	-11.662	12.487	1.00	37.60	N0	
ANISOU 1564 N GLN A 101	5110	4700	4470	-240	1140	-180	N0
ATOM 1565 CA GLN A 101	-28.998	-12.274	12.022	1.00	37.82	C0	
ANISOU 1565 CA GLN A 101	5230	4660	4480	-180	1090	-150	C0
ATOM 1566 C GLN A 101	-28.793	-12.873	10.620	1.00	37.60	C0	
ANISOU 1566 C GLN A 101	5250	4600	4440	-150	1150	-170	C0
ATOM 1567 O GLN A 101	-29.424	-12.393	9.659	1.00	36.88	O0	
ANISOU 1567 O GLN A 101	5280	4450	4280	-150	1170	-170	O0
ATOM 1568 CB GLN A 101	-30.109	-11.223	12.090	1.00	38.27	C0	
ANISOU 1568 CB GLN A 101	5390	4670	4480	-190	1060	-140	C0
ATOM 1569 CG GLN A 101	-30.500	-10.844	13.514	1.00	39.09	C0	
ANISOU 1569 CG GLN A 101	5450	4810	4590	-210	1000	-130	C0
ATOM 1570 CD GLN A 101	-31.362	-11.903	14.160	1.00	39.88	C0	
ANISOU 1570 CD GLN A 101	5500	4930	4710	-140	920	-100	C0
ATOM 1571 OE1 GLN A 101	-30.974	-13.068	14.268	1.00	40.69	O0	
ANISOU 1571 OE1 GLN A 101	5540	5060	4860	-110	910	-90	O0
ATOM 1572 NE2 GLN A 101	-32.554	-11.512	14.585	1.00	40.17	N0	
ANISOU 1572 NE2 GLN A 101	5590	4960	4720	-130	870	-80	N0
ATOM 1573 H GLN A 101	-27.666	-10.770	12.312	1.00	37.98	H0	
ANISOU 1573 H GLN A 101	5210	4730	4490	-300	1170	-190	H0
ATOM 1574 HA GLN A 101	-29.224	-13.007	12.637	1.00	37.46	H0	
ANISOU 1574 HA GLN A 101	5130	4640	4460	-140	1040	-130	H0
ATOM 1575 HB2 GLN A 101	-29.810	-10.420	11.614	1.00	38.70	H0	
ANISOU 1575 HB2 GLN A 101	5500	4700	4500	-230	1120	-150	H0
ATOM 1576 HB3 GLN A 101	-30.897	-11.572	11.625	1.00	38.07	H0	
ANISOU 1576 HB3 GLN A 101	5420	4620	4430	-150	1040	-130	H0
ATOM 1577 HG2 GLN A 101	-29.689	-10.718	14.051	1.00	39.42	H0	
ANISOU 1577 HG2 GLN A 101	5410	4900	4660	-240	1020	-140	H0
ATOM 1578 HG3 GLN A 101	-30.987	-9.992	13.500	1.00	39.09	H0	
ANISOU 1578 HG3 GLN A 101	5520	4780	4560	-220	1010	-130	H0
ATOM 1579 HE21 GLN A 101	-33.081	-12.082	15.008	1.00	39.66	H0	
ANISOU 1579 HE21 GLN A 101	5500	4910	4660	-110	820	-70	H0
ATOM 1580 HE22 GLN A 101	-32.826	-10.682	14.446	1.00	39.98	H0	
ANISOU 1580 HE22 GLN A 101	5620	4910	4660	-140	880	-90	H0
ATOM 1581 N LEU A 102	-27.951	-13.902	10.521	1.00	37.92	N0	
ANISOU 1581 N LEU A 102	5210	4670	4530	-110	1170	-180	N0
ATOM 1582 CA LEU A 102	-27.636	-14.615	9.256	1.00	38.87	C0	
ANISOU 1582 CA LEU A 102	5370	4750	4640	-80	1240	-210	C0
ATOM 1583 C LEU A 102	-28.054	-16.079	9.387	1.00	38.35	C0	
ANISOU 1583 C LEU A 102	5300	4660	4620	-10	1210	-200	C0
ATOM 1584 O LEU A 102	-27.769	-16.689	10.440	1.00	39.54	O0	
ANISOU 1584 O LEU A 102	5360	4840	4830	40	1170	-170	O0
ATOM 1585 CB LEU A 102	-26.133	-14.520	8.972	1.00	40.51	C0	
ANISOU 1585 CB LEU A 102	5490	5020	4880	-110	1330	-240	C0
ATOM 1586 CG LEU A 102	-25.597	-13.122	8.679	1.00	41.23	C0	
ANISOU 1586 CG LEU A 102	5610	5130	4930	-210	1390	-260	C0
ATOM 1587 CD1 LEU A 102	-24.089	-13.150	8.505	1.00	42.57	C0	
ANISOU 1587 CD1 LEU A 102	5660	5380	5130	-240	1480	-310	C0
ATOM 1588 CD2 LEU A 102	-26.266	-12.535	7.450	1.00	41.83	C0	
ANISOU 1588 CD2 LEU A 102	5850	5120	4920	-230	1430	-260	C0
ATOM 1589 H LEU A 102	-27.515	-14.244	11.244	1.00	38.16	H0	
ANISOU 1589 H LEU A 102	5160	4740	4600	-90	1160	-170	H0

ATOM 1590 HA LEU A 102	-28.142	-14.200	8.522	1.00	38.74	H0	
ANISOU 1590 HA LEU A 102	5450	4700	4570	-100	1260	-210	H0
ATOM 1591 HB2 LEU A 102	-25.652	-14.878	9.745	1.00	40.56	H0	
ANISOU 1591 HB2 LEU A 102	5400	5080	4930	-80	1310	-230	H0
ATOM 1592 HB3 LEU A 102	-25.929	-15.095	8.208	1.00	40.77	H0	
ANISOU 1592 HB3 LEU A 102	5550	5030	4920	-80	1370	-260	H0
ATOM 1593 HG LEU A 102	-25.808	-12.542	9.451	1.00	41.04	H0	
ANISOU 1593 HG LEU A 102	5570	5120	4910	-240	1350	-250	H0
ATOM 1594 HD11 LEU A 102	-23.679	-13.550	9.291	1.00	42.60	H0	
ANISOU 1594 HD11 LEU A 102	5550	5450	5180	-210	1450	-300	H0
ATOM 1595 HD12 LEU A 102	-23.757	-12.242	8.393	1.00	42.81	H0	
ANISOU 1595 HD12 LEU A 102	5710	5430	5140	-320	1530	-320	H0
ATOM 1596 HD13 LEU A 102	-23.862	-13.676	7.718	1.00	42.84	H0	
ANISOU 1596 HD13 LEU A 102	5710	5400	5170	-210	1530	-320	H0
ATOM 1597 HD21 LEU A 102	-26.423	-13.239	6.796	1.00	41.71	H0	
ANISOU 1597 HD21 LEU A 102	5860	5090	4900	-190	1450	-270	H0
ATOM 1598 HD22 LEU A 102	-25.691	-11.855	7.060	1.00	42.20	H0	
ANISOU 1598 HD22 LEU A 102	5910	5180	4950	-300	1500	-280	H0
ATOM 1599 HD23 LEU A 102	-27.114	-12.134	7.704	1.00	41.11	H0	
ANISOU 1599 HD23 LEU A 102	5820	5000	4800	-230	1380	-240	H0
ATOM 1600 N ALA A 103	-28.699	-16.610	8.347	1.00	37.76	N0	
ANISOU 1600 N ALA A 103	5320	4520	4510	10	1220	-220	N0
ATOM 1601 CA ALA A 103	-28.990	-18.048	8.169	1.00	37.29	C0	
ANISOU 1601 CA ALA A 103	5280	4410	4480	60	1220	-230	C0
ATOM 1602 C ALA A 103	-27.944	-18.649	7.229	1.00	38.54	C0	
ANISOU 1602 C ALA A 103	5430	4550	4660	90	1320	-280	C0
ATOM 1603 O ALA A 103	-27.421	-17.915	6.358	1.00	38.73	O0	
ANISOU 1603 O ALA A 103	5480	4600	4640	50	1390	-310	O0
ATOM 1604 CB ALA A 103	-30.386	-18.224	7.631	1.00	36.96	C0	
ANISOU 1604 CB ALA A 103	5340	4330	4370	30	1180	-250	C0
ATOM 1605 H ALA A 103	-29.012	-16.109	7.653	1.00	37.73	H0	
ANISOU 1605 H ALA A 103	5380	4510	4450	-20	1240	-230	H0
ATOM 1606 HA ALA A 103	-28.925	-18.496	9.045	1.00	37.41	H0	
ANISOU 1606 HA ALA A 103	5240	4430	4540	90	1190	-210	H0
ATOM 1607 HB1 ALA A 103	-30.583	-19.172	7.542	1.00	37.20	H0	
ANISOU 1607 HB1 ALA A 103	5390	4320	4420	50	1190	-270	H0
ATOM 1608 HB2 ALA A 103	-31.024	-17.819	8.243	1.00	36.43	H0	
ANISOU 1608 HB2 ALA A 103	5270	4280	4290	20	1120	-220	H0
ATOM 1609 HB3 ALA A 103	-30.456	-17.796	6.762	1.00	37.12	H0	
ANISOU 1609 HB3 ALA A 103	5410	4350	4340	10	1210	-270	H0
ATOM 1610 N ARG A 104	-27.634	-19.932	7.415	1.00	38.83	N0	
ANISOU 1610 N ARG A 104	5450	4550	4760	160	1350	-280	N0
ATOM 1611 CA ARG A 104	-26.807	-20.725	6.473	1.00	40.32	C0	
ANISOU 1611 CA ARG A 104	5650	4700	4970	210	1450	-330	C0
ATOM 1612 C ARG A 104	-27.776	-21.449	5.535	1.00	40.11	C0	
ANISOU 1612 C ARG A 104	5760	4590	4890	180	1470	-380	C0
ATOM 1613 O ARG A 104	-28.678	-22.138	6.049	1.00	39.21	O0	
ANISOU 1613 O ARG A 104	5680	4420	4790	180	1410	-370	O0
ATOM 1614 CB ARG A 104	-25.891	-21.670	7.256	1.00	41.34	C0	
ANISOU 1614 CB ARG A 104	5680	4830	5190	320	1470	-310	C0
ATOM 1615 CG ARG A 104	-24.726	-22.225	6.457	1.00	43.16	C0	
ANISOU 1615 CG ARG A 104	5880	5070	5450	390	1590	-360	C0
ATOM 1616 CD ARG A 104	-23.612	-21.222	6.224	1.00	43.52	C0	
ANISOU 1616 CD ARG A 104	5820	5230	5490	360	1630	-370	C0

ATOM 1617 NE ARG A 104	-22.511	-21.873	5.528	1.00	44.54	N0	
ANISOU 1617 NE ARG A 104	5900	5370	5650	430	1750	-420	N0
ATOM 1618 CZ ARG A 104	-21.528	-21.252	4.882	1.00	45.01	C0	
ANISOU 1618 CZ ARG A 104	5890	5520	5690	400	1830	-460	C0
ATOM 1619 NH1 ARG A 104	-21.481	-19.931	4.829	1.00	44.21	N0	
ANISOU 1619 NH1 ARG A 104	5770	5490	5540	280	1810	-460	N0
ATOM 1620 NH2 ARG A 104	-20.589	-21.967	4.288	1.00	46.37	N0	
ANISOU 1620 NH2 ARG A 104	6020	5700	5900	480	1930	-510	N0
ATOM 1621 H ARG A 104	-27.918	-20.404	8.141	1.00	38.83	H0	
ANISOU 1621 H ARG A 104	5430	4530	4790	190	1310	-260	H0
ATOM 1622 HA ARG A 104	-26.252	-20.108	5.944	1.00	40.45	H0	
ANISOU 1622 HA ARG A 104	5650	4760	4960	180	1500	-360	H0
ATOM 1623 HB2 ARG A 104	-25.538	-21.187	8.032	1.00	41.21	H0	
ANISOU 1623 HB2 ARG A 104	5580	4890	5190	330	1430	-270	H0
ATOM 1624 HB3 ARG A 104	-26.429	-22.418	7.589	1.00	41.39	H0	
ANISOU 1624 HB3 ARG A 104	5730	4780	5210	350	1450	-290	H0
ATOM 1625 HG2 ARG A 104	-24.356	-23.001	6.930	1.00	43.59	H0	
ANISOU 1625 HG2 ARG A 104	5900	5100	5560	480	1600	-330	H0
ATOM 1626 HG3 ARG A 104	-25.055	-22.537	5.587	1.00	43.23	H0	
ANISOU 1626 HG3 ARG A 104	5980	5020	5430	370	1630	-400	H0
ATOM 1627 HD2 ARG A 104	-23.951	-20.475	5.687	1.00	43.02	H0	
ANISOU 1627 HD2 ARG A 104	5810	5170	5360	270	1640	-390	H0
ATOM 1628 HD3 ARG A 104	-23.299	-20.869	7.084	1.00	43.30	H0	
ANISOU 1628 HD3 ARG A 104	5700	5270	5480	360	1590	-330	H0
ATOM 1629 HE ARG A 104	-22.495	-22.745	5.532	1.00	45.02	H0	
ANISOU 1629 HE ARG A 104	5980	5380	5750	510	1770	-420	H0
ATOM 1630 HH11 ARG A 104	-22.101	-19.449	5.221	1.00	43.54	H0	
ANISOU 1630 HH11 ARG A 104	5720	5390	5430	230	1750	-440	H0
ATOM 1631 HH12 ARG A 104	-20.826	-19.535	4.399	1.00	44.88	H0	
ANISOU 1631 HH12 ARG A 104	5810	5630	5610	250	1880	-500	H0
ATOM 1632 HH21 ARG A 104	-20.618	-22.847	4.324	1.00	46.80	H0	
ANISOU 1632 HH21 ARG A 104	6100	5700	5990	570	1950	-510	H0
ATOM 1633 HH22 ARG A 104	-19.937	-21.567	3.860	1.00	46.89	H0	
ANISOU 1633 HH22 ARG A 104	6030	5830	5950	460	1990	-540	H0
ATOM 1634 N VAL A 105	-27.648	-21.235	4.222	1.00	40.06	N0	
ANISOU 1634 N VAL A 105	5810	4590	4820	150	1530	-440	N0
ATOM 1635 CA VAL A 105	-28.482	-21.919	3.188	1.00	39.82	C0	
ANISOU 1635 CA VAL A 105	5910	4500	4730	110	1560	-510	C0
ATOM 1636 C VAL A 105	-27.583	-22.883	2.420	1.00	40.72	C0	
ANISOU 1636 C VAL A 105	6040	4560	4870	160	1680	-570	C0
ATOM 1637 O VAL A 105	-26.523	-22.442	1.945	1.00	41.85	O0	
ANISOU 1637 O VAL A 105	6140	4750	5020	180	1750	-590	O0
ATOM 1638 CB VAL A 105	-29.185	-20.930	2.239	1.00	39.60	C0	
ANISOU 1638 CB VAL A 105	5950	4520	4570	30	1530	-520	C0
ATOM 1639 CG1 VAL A 105	-30.040	-21.661	1.215	1.00	39.90	C0	
ANISOU 1639 CG1 VAL A 105	6100	4530	4530	-10	1550	-600	C0
ATOM 1640 CG2 VAL A 105	-30.024	-19.917	3.003	1.00	38.90	C0	
ANISOU 1640 CG2 VAL A 105	5840	4480	4460	0	1420	-460	C0
ATOM 1641 H VAL A 105	-27.039	-20.654	3.873	1.00	40.23	H0	
ANISOU 1641 H VAL A 105	5810	4650	4830	130	1570	-450	H0
ATOM 1642 HA VAL A 105	-29.166	-22.437	3.645	1.00	39.67	H0	
ANISOU 1642 HA VAL A 105	5910	4440	4720	110	1510	-500	H0
ATOM 1643 HB VAL A 105	-28.482	-20.436	1.750	1.00	39.93	H0	
ANISOU 1643 HB VAL A 105	5980	4590	4600	30	1590	-530	H0

ATOM 1644 HG11 VAL A 105	-29.468	-22.162	0.610	1.00	40.72	H0	
ANISOU 1644 HG11 VAL A 105	6230	4600	4640	0	1630	-650	H0
ATOM 1645 HG12 VAL A 105	-30.562	-21.015	0.707	1.00	39.84	H0	
ANISOU 1645 HG12 VAL A 105	6130	4570	4440	-50	1520	-600	H0
ATOM 1646 HG13 VAL A 105	-30.642	-22.274	1.673	1.00	39.85	H0	
ANISOU 1646 HG13 VAL A 105	6100	4490	4550	-20	1510	-600	H0
ATOM 1647 HG21 VAL A 105	-30.654	-20.384	3.579	1.00	38.50	H0	
ANISOU 1647 HG21 VAL A 105	5790	4410	4430	0	1370	-450	H0
ATOM 1648 HG22 VAL A 105	-30.513	-19.359	2.374	1.00	38.77	H0	
ANISOU 1648 HG22 VAL A 105	5880	4490	4360	-30	1410	-470	H0
ATOM 1649 HG23 VAL A 105	-29.443	-19.357	3.547	1.00	38.56	H0	
ANISOU 1649 HG23 VAL A 105	5740	4460	4450	10	1420	-420	H0
ATOM 1650 N VAL A 106	-28.007	-24.145	2.330	1.00	40.98	N0	
ANISOU 1650 N VAL A 106	6150	4490	4930	180	1700	-610	N0
ATOM 1651 CA VAL A 106	-27.286	-25.267	1.665	1.00	41.67	C0	
ANISOU 1651 CA VAL A 106	6280	4500	5060	240	1830	-680	C0
ATOM 1652 C VAL A 106	-27.922	-25.468	0.286	1.00	41.87	C0	
ANISOU 1652 C VAL A 106	6430	4500	4970	150	1870	-780	C0
ATOM 1653 O VAL A 106	-29.139	-25.217	0.159	1.00	40.96	O0	
ANISOU 1653 O VAL A 106	6370	4410	4780	60	1790	-790	O0
ATOM 1654 CB VAL A 106	-27.343	-26.554	2.514	1.00	42.19	C0	
ANISOU 1654 CB VAL A 106	6370	4440	5220	320	1840	-660	C0
ATOM 1655 CG1 VAL A 106	-26.468	-27.661	1.933	1.00	43.46	C0	
ANISOU 1655 CG1 VAL A 106	6570	4510	5430	410	1980	-720	C0
ATOM 1656 CG2 VAL A 106	-26.976	-26.285	3.967	1.00	41.65	C0	
ANISOU 1656 CG2 VAL A 106	6180	4410	5230	390	1770	-560	C0
ATOM 1657 H VAL A 106	-28.803	-24.409	2.686	1.00	40.57	H0	
ANISOU 1657 H VAL A 106	6130	4410	4870	150	1650	-610	H0
ATOM 1658 HA VAL A 106	-26.353	-25.011	1.545	1.00	42.08	H0	
ANISOU 1658 HA VAL A 106	6270	4590	5130	280	1880	-680	H0
ATOM 1659 HB VAL A 106	-28.279	-26.874	2.498	1.00	41.97	H0	
ANISOU 1659 HB VAL A 106	6410	4370	5160	250	1810	-680	H0
ATOM 1660 HG11 VAL A 106	-26.865	-27.991	1.108	1.00	43.99	H0	
ANISOU 1660 HG11 VAL A 106	6730	4530	5450	350	2020	-800	H0
ATOM 1661 HG12 VAL A 106	-26.399	-28.391	2.572	1.00	43.96	H0	
ANISOU 1661 HG12 VAL A 106	6650	4490	5560	480	1990	-690	H0
ATOM 1662 HG13 VAL A 106	-25.580	-27.309	1.747	1.00	43.83	H0	
ANISOU 1662 HG13 VAL A 106	6550	4610	5490	460	2020	-720	H0
ATOM 1663 HG21 VAL A 106	-26.137	-25.793	4.005	1.00	41.71	H0	
ANISOU 1663 HG21 VAL A 106	6100	4490	5250	430	1780	-540	H0
ATOM 1664 HG22 VAL A 106	-26.876	-27.130	4.440	1.00	42.18	H0	
ANISOU 1664 HG22 VAL A 106	6270	4400	5350	460	1790	-540	H0
ATOM 1665 HG23 VAL A 106	-27.678	-25.760	4.389	1.00	40.73	H0	
ANISOU 1665 HG23 VAL A 106	6060	4340	5080	330	1680	-520	H0
ATOM 1666 N SER A 107	-27.133	-25.937	-0.684	1.00	42.64	N0	
ANISOU 1666 N SER A 107	6560	4570	5070	180	1990	-860	N0
ATOM 1667 CA SER A 107	-27.496	-26.064	-2.123	1.00	43.26	C0	
ANISOU 1667 CA SER A 107	6750	4660	5030	90	2050	-960	C0
ATOM 1668 C SER A 107	-28.694	-27.005	-2.323	1.00	43.40	C0	
ANISOU 1668 C SER A 107	6890	4600	5010	20	2030	-1030	C0
ATOM 1669 O SER A 107	-29.369	-26.864	-3.349	1.00	43.48	O0	
ANISOU 1669 O SER A 107	6980	4660	4890	-80	2030	-1100	O0
ATOM 1670 CB SER A 107	-26.305	-26.508	-2.926	1.00	44.48	C0	
ANISOU 1670 CB SER A 107	6910	4790	5200	150	2200	-1030	C0

ATOM 1671 OG SER A 107	-25.835	-27.766	-2.468	1.00	45.88	O0	
ANISOU 1671 OG SER A 107	7100	4840	5490	260	2270	-1050	O0
ATOM 1672 H SER A 107	-26.282	-26.220	-0.524	1.00	43.24	H0	
ANISOU 1672 H SER A 107	6590	4630	5210	250	2050	-850	H0
ATOM 1673 HA SER A 107	-27.764	-25.165	-2.443	1.00	42.70	H0	
ANISOU 1673 HA SER A 107	6680	4670	4880	40	2010	-940	H0
ATOM 1674 HB2 SER A 107	-26.556	-26.575	-3.874	1.00	45.15	H0	
ANISOU 1674 HB2 SER A 107	7070	4880	5200	100	2240	-1100	H0
ATOM 1675 HB3 SER A 107	-25.588	-25.839	-2.844	1.00	44.45	H0	
ANISOU 1675 HB3 SER A 107	6830	4850	5210	180	2210	-990	H0
ATOM 1676 N ASP A 108	-28.961	-27.917	-1.383	1.00	43.75	N0	
ANISOU 1676 N ASP A 108	6950	4530	5140	50	2020	-1010	N0
ATOM 1677 CA ASP A 108	-30.145	-28.822	-1.420	1.00	44.71	C0	
ANISOU 1677 CA ASP A 108	7180	4580	5230	-40	2000	-1070	C0
ATOM 1678 C ASP A 108	-31.382	-28.122	-0.824	1.00	43.66	C0	
ANISOU 1678 C ASP A 108	7000	4540	5050	-130	1850	-1020	C0
ATOM 1679 O ASP A 108	-32.439	-28.760	-0.782	1.00	43.87	O0	
ANISOU 1679 O ASP A 108	7100	4530	5040	-220	1830	-1080	O0
ATOM 1680 CB ASP A 108	-29.856	-30.153	-0.719	1.00	45.74	C0	
ANISOU 1680 CB ASP A 108	7360	4530	5490	30	2080	-1080	C0
ATOM 1681 CG ASP A 108	-29.652	-30.061	0.786	1.00	45.32	C0	
ANISOU 1681 CG ASP A 108	7220	4460	5540	130	2010	-940	C0
ATOM 1682 OD1 ASP A 108	-29.691	-28.933	1.333	1.00	43.21	O0	
ANISOU 1682 OD1 ASP A 108	6840	4320	5260	130	1910	-860	O0
ATOM 1683 OD2 ASP A 108	-29.459	-31.127	1.401	1.00	47.27	O0	
ANISOU 1683 OD2 ASP A 108	7520	4560	5880	200	2070	-930	O0
ATOM 1684 H ASP A 108	-28.420	-28.053	-0.665	1.00	43.73	H0	
ANISOU 1684 H ASP A 108	6890	4500	5230	140	2030	-950	H0
ATOM 1685 HA ASP A 108	-30.339	-29.024	-2.365	1.00	45.36	H0	
ANISOU 1685 HA ASP A 108	7330	4670	5240	-100	2050	-1160	H0
ATOM 1686 HB2 ASP A 108	-30.601	-30.765	-0.887	1.00	46.29	H0	
ANISOU 1686 HB2 ASP A 108	7520	4540	5530	-50	2090	-1140	H0
ATOM 1687 HB3 ASP A 108	-29.048	-30.545	-1.110	1.00	46.67	H0	
ANISOU 1687 HB3 ASP A 108	7500	4600	5640	100	2180	-1110	H0
ATOM 1688 N GLY A 109	-31.263	-26.868	-0.384	1.00	42.65	N0	
ANISOU 1688 N GLY A 109	6770	4520	4910	-100	1770	-930	N0
ATOM 1689 CA GLY A 109	-32.395	-26.034	0.067	1.00	42.81	C0	
ANISOU 1689 CA GLY A 109	6750	4650	4860	-160	1630	-880	C0
ATOM 1690 C GLY A 109	-32.628	-26.085	1.574	1.00	42.42	C0	
ANISOU 1690 C GLY A 109	6640	4570	4910	-120	1560	-790	C0
ATOM 1691 O GLY A 109	-33.641	-25.518	2.012	1.00	42.03	O0	
ANISOU 1691 O GLY A 109	6560	4600	4810	-180	1460	-760	O0
ATOM 1692 H GLY A 109	-30.459	-26.450	-0.324	1.00	42.73	H0	
ANISOU 1692 H GLY A 109	6730	4550	4950	-40	1790	-890	H0
ATOM 1693 HA2 GLY A 109	-32.223	-25.096	-0.200	1.00	42.16	H0	
ANISOU 1693 HA2 GLY A 109	6640	4640	4740	-150	1600	-850	H0
ATOM 1694 HA3 GLY A 109	-33.216	-26.331	-0.398	1.00	42.98	H0	
ANISOU 1694 HA3 GLY A 109	6830	4690	4820	-240	1620	-940	H0
ATOM 1695 N GLU A 110	-31.747	-26.731	2.346	1.00	43.51	N0	
ANISOU 1695 N GLU A 110	6760	4610	5170	-30	1620	-750	N0
ATOM 1696 CA GLU A 110	-31.790	-26.702	3.833	1.00	43.91	C0	
ANISOU 1696 CA GLU A 110	6740	4640	5300	20	1550	-640	C0
ATOM 1697 C GLU A 110	-31.394	-25.296	4.302	1.00	42.59	C0	
ANISOU 1697 C GLU A 110	6450	4600	5130	50	1480	-560	C0

ATOM 1698 O GLU A 110	-30.445	-24.715	3.722	1.00	41.56	O0	
ANISOU 1698 O GLU A 110	6290	4510	4990	90	1530	-570	O0
ATOM 1699 CB GLU A 110	-30.877	-27.761	4.461	1.00	46.66	C0	
ANISOU 1699 CB GLU A 110	7090	4870	5770	130	1630	-610	C0
ATOM 1700 CG GLU A 110	-30.915	-27.753	5.987	1.00	48.17	C0	
ANISOU 1700 CG GLU A 110	7220	5060	6030	190	1560	-500	C0
ATOM 1701 CD GLU A 110	-30.202	-28.892	6.703	1.00	50.82	C0	
ANISOU 1701 CD GLU A 110	7580	5270	6460	310	1630	-460	C0
ATOM 1702 OE1 GLU A 110	-29.355	-29.563	6.072	1.00	53.83	O0	
ANISOU 1702 OE1 GLU A 110	8000	5570	6880	390	1740	-500	O0
ATOM 1703 OE2 GLU A 110	-30.485	-29.096	7.903	1.00	52.42	O0	
ANISOU 1703 OE2 GLU A 110	7760	5450	6700	330	1580	-370	O0
ATOM 1704 H GLU A 110	-31.065	-27.230	2.007	1.00	44.30	H0	
ANISOU 1704 H GLU A 110	6880	4650	5300	10	1700	-770	H0
ATOM 1705 HA GLU A 110	-32.716	-26.878	4.116	1.00	43.80	H0	
ANISOU 1705 HA GLU A 110	6750	4630	5260	-40	1510	-650	H0
ATOM 1706 HB2 GLU A 110	-31.150	-28.644	4.138	1.00	47.49	H0	
ANISOU 1706 HB2 GLU A 110	7290	4880	5880	110	1690	-670	H0
ATOM 1707 HB3 GLU A 110	-29.957	-27.600	4.163	1.00	46.97	H0	
ANISOU 1707 HB3 GLU A 110	7100	4920	5830	200	1680	-610	H0
ATOM 1708 HG2 GLU A 110	-30.525	-26.911	6.303	1.00	47.35	H0	
ANISOU 1708 HG2 GLU A 110	7030	5040	5920	220	1520	-460	H0
ATOM 1709 HG3 GLU A 110	-31.854	-27.760	6.272	1.00	47.65	H0	
ANISOU 1709 HG3 GLU A 110	7180	5000	5930	110	1510	-510	H0
ATOM 1710 N VAL A 111	-32.109	-24.776	5.307	1.00	40.71	N0	
ANISOU 1710 N VAL A 111	6170	4410	4890	30	1380	-500	N0
ATOM 1711 CA VAL A 111	-31.818	-23.480	5.986	1.00	39.95	C0	
ANISOU 1711 CA VAL A 111	5970	4410	4800	50	1310	-430	C0
ATOM 1712 C VAL A 111	-31.519	-23.771	7.464	1.00	40.54	C0	
ANISOU 1712 C VAL A 111	5980	4470	4960	110	1280	-350	C0
ATOM 1713 O VAL A 111	-32.320	-24.490	8.104	1.00	39.70	O0	
ANISOU 1713 O VAL A 111	5900	4310	4870	90	1250	-330	O0
ATOM 1714 CB VAL A 111	-32.975	-22.476	5.821	1.00	38.87	C0	
ANISOU 1714 CB VAL A 111	5840	4360	4560	-20	1220	-420	C0
ATOM 1715 CG1 VAL A 111	-32.615	-21.106	6.370	1.00	38.17	C0	
ANISOU 1715 CG1 VAL A 111	5680	4350	4470	0	1180	-360	C0
ATOM 1716 CG2 VAL A 111	-33.425	-22.360	4.374	1.00	39.33	C0	
ANISOU 1716 CG2 VAL A 111	5970	4450	4520	-70	1250	-500	C0
ATOM 1717 H VAL A 111	-32.841	-25.197	5.648	1.00	40.97	H0	
ANISOU 1717 H VAL A 111	6230	4420	4920	-10	1350	-510	H0
ATOM 1718 HA VAL A 111	-31.021	-23.096	5.582	1.00	40.17	H0	
ANISOU 1718 HA VAL A 111	5970	4460	4830	80	1350	-430	H0
ATOM 1719 HB VAL A 111	-33.739	-22.819	6.347	1.00	38.77	H0	
ANISOU 1719 HB VAL A 111	5830	4340	4560	-50	1180	-420	H0
ATOM 1720 HG11 VAL A 111	-32.543	-21.151	7.340	1.00	37.83	H0	
ANISOU 1720 HG11 VAL A 111	5580	4310	4480	20	1150	-320	H0
ATOM 1721 HG12 VAL A 111	-33.306	-20.466	6.128	1.00	37.83	H0	
ANISOU 1721 HG12 VAL A 111	5650	4360	4370	-30	1140	-360	H0
ATOM 1722 HG13 VAL A 111	-31.764	-20.819	5.996	1.00	38.38	H0	
ANISOU 1722 HG13 VAL A 111	5690	4380	4510	20	1230	-360	H0
ATOM 1723 HG21 VAL A 111	-32.655	-22.182	3.807	1.00	39.65	H0	
ANISOU 1723 HG21 VAL A 111	6020	4490	4560	-50	1300	-510	H0
ATOM 1724 HG22 VAL A 111	-34.065	-21.632	4.289	1.00	38.94	H0	
ANISOU 1724 HG22 VAL A 111	5920	4470	4410	-100	1190	-490	H0

ATOM 1725 HG23 VAL A 111	-33.845	-23.193	4.096	1.00	39.85	H0	
ANISOU 1725 HG23 VAL A 111	6090	4480	4580	-110	1270	-550	H0
ATOM 1726 N LEU A 112	-30.396	-23.243	7.968	1.00	40.96	N0	
ANISOU 1726 N LEU A 112	5930	4570	5060	180	1280	-300	N0
ATOM 1727 CA LEU A 112	-29.972	-23.333	9.387	1.00	40.80	C0	
ANISOU 1727 CA LEU A 112	5830	4570	5100	240	1240	-220	C0
ATOM 1728 C LEU A 112	-29.892	-21.914	9.958	1.00	40.12	C0	
ANISOU 1728 C LEU A 112	5660	4600	4990	210	1180	-180	C0
ATOM 1729 O LEU A 112	-28.960	-21.171	9.584	1.00	39.90	O0	
ANISOU 1729 O LEU A 112	5570	4630	4960	220	1210	-190	O0
ATOM 1730 CB LEU A 112	-28.627	-24.061	9.474	1.00	42.85	C0	
ANISOU 1730 CB LEU A 112	6040	4810	5440	360	1320	-200	C0
ATOM 1731 CG LEU A 112	-28.562	-25.408	8.751	1.00	44.54	C0	
ANISOU 1731 CG LEU A 112	6360	4890	5680	400	1410	-250	C0
ATOM 1732 CD1 LEU A 112	-28.004	-25.246	7.346	1.00	45.34	C0	
ANISOU 1732 CD1 LEU A 112	6480	4990	5750	390	1490	-330	C0
ATOM 1733 CD2 LEU A 112	-27.730	-26.417	9.529	1.00	45.80	C0	
ANISOU 1733 CD2 LEU A 112	6490	4990	5920	550	1450	-190	C0
ATOM 1734 H LEU A 112	-29.807	-22.779	7.450	1.00	40.95	H0	
ANISOU 1734 H LEU A 112	5910	4600	5050	190	1320	-310	H0
ATOM 1735 HA LEU A 112	-30.652	-23.840	9.887	1.00	40.95	H0	
ANISOU 1735 HA LEU A 112	5880	4550	5130	230	1210	-200	H0
ATOM 1736 HB2 LEU A 112	-27.935	-23.476	9.105	1.00	42.81	H0	
ANISOU 1736 HB2 LEU A 112	5980	4860	5430	370	1340	-220	H0
ATOM 1737 HB3 LEU A 112	-28.417	-24.205	10.419	1.00	42.78	H0	
ANISOU 1737 HB3 LEU A 112	5980	4810	5460	410	1280	-140	H0
ATOM 1738 HG LEU A 112	-29.483	-25.761	8.677	1.00	44.37	H0	
ANISOU 1738 HG LEU A 112	6410	4810	5630	350	1390	-270	H0
ATOM 1739 HD11 LEU A 112	-28.619	-24.720	6.809	1.00	44.72	H0	
ANISOU 1739 HD11 LEU A 112	6440	4940	5610	310	1470	-360	H0
ATOM 1740 HD12 LEU A 112	-27.890	-26.123	6.940	1.00	46.06	H0	
ANISOU 1740 HD12 LEU A 112	6640	5000	5870	430	1560	-360	H0
ATOM 1741 HD13 LEU A 112	-27.143	-24.795	7.388	1.00	45.38	H0	
ANISOU 1741 HD13 LEU A 112	6400	5070	5770	430	1510	-320	H0
ATOM 1742 HD21 LEU A 112	-26.832	-26.066	9.658	1.00	45.96	H0	
ANISOU 1742 HD21 LEU A 112	6410	5090	5960	610	1450	-170	H0
ATOM 1743 HD22 LEU A 112	-27.684	-27.252	9.031	1.00	46.54	H0	
ANISOU 1743 HD22 LEU A 112	6660	4990	6030	580	1510	-220	H0
ATOM 1744 HD23 LEU A 112	-28.143	-26.579	10.395	1.00	45.50	H0	
ANISOU 1744 HD23 LEU A 112	6450	4950	5890	550	1390	-140	H0
ATOM 1745 N TYR A 113	-30.869	-21.552	10.795	1.00	39.10	N0	
ANISOU 1745 N TYR A 113	5520	4490	4840	170	1090	-150	N0
ATOM 1746 CA TYR A 113	-30.929	-20.277	11.555	1.00	38.74	C0	
ANISOU 1746 CA TYR A 113	5410	4540	4770	140	1030	-110	C0
ATOM 1747 C TYR A 113	-30.721	-20.591	13.038	1.00	39.14	C0	
ANISOU 1747 C TYR A 113	5390	4620	4860	180	980	-50	C0
ATOM 1748 O TYR A 113	-31.608	-21.240	13.638	1.00	38.01	O0	
ANISOU 1748 O TYR A 113	5280	4440	4720	170	950	-20	O0
ATOM 1749 CB TYR A 113	-32.261	-19.564	11.317	1.00	38.30	C0	
ANISOU 1749 CB TYR A 113	5410	4500	4640	70	980	-130	C0
ATOM 1750 CG TYR A 113	-32.411	-18.278	12.091	1.00	39.14	C0	
ANISOU 1750 CG TYR A 113	5470	4680	4720	40	920	-100	C0
ATOM 1751 CD1 TYR A 113	-31.400	-17.329	12.092	1.00	39.68	C0	
ANISOU 1751 CD1 TYR A 113	5490	4790	4800	40	950	-100	C0

ATOM 1752 CD2 TYR A 113	-33.555	-18.009	12.828	1.00	38.98	C0	
ANISOU 1752 CD2 TYR A 113	5450	4680	4680	20	850	-80	C0
ATOM 1753 CE1 TYR A 113	-31.517	-16.149	12.804	1.00	39.75	C0	
ANISOU 1753 CE1 TYR A 113	5470	4850	4790	0	920	-90	C0
ATOM 1754 CE2 TYR A 113	-33.687	-16.831	13.545	1.00	38.79	C0	
ANISOU 1754 CE2 TYR A 113	5400	4710	4630	0	820	-70	C0
ATOM 1755 CZ TYR A 113	-32.665	-15.900	13.532	1.00	39.24	C0	
ANISOU 1755 CZ TYR A 113	5420	4790	4690	-10	850	-70	C0
ATOM 1756 OH TYR A 113	-32.780	-14.732	14.224	1.00	39.72	O0	
ANISOU 1756 OH TYR A 113	5470	4890	4730	-40	830	-60	O0
ATOM 1757 H TYR A 113	-31.592	-22.080	10.962	1.00	39.23	H0	
ANISOU 1757 H TYR A 113	5580	4470	4850	150	1080	-150	H0
ATOM 1758 HA TYR A 113	-30.194	-19.690	11.249	1.00	38.95	H0	
ANISOU 1758 HA TYR A 113	5400	4600	4790	140	1060	-130	H0
ATOM 1759 HB2 TYR A 113	-32.345	-19.370	10.360	1.00	38.70	H0	
ANISOU 1759 HB2 TYR A 113	5510	4540	4660	50	1000	-170	H0
ATOM 1760 HB3 TYR A 113	-32.988	-20.172	11.565	1.00	38.56	H0	
ANISOU 1760 HB3 TYR A 113	5470	4510	4670	60	950	-130	H0
ATOM 1761 HD1 TYR A 113	-30.613	-17.492	11.599	1.00	40.11	H0	
ANISOU 1761 HD1 TYR A 113	5530	4840	4870	50	1000	-120	H0
ATOM 1762 HD2 TYR A 113	-34.255	-18.640	12.845	1.00	38.98	H0	
ANISOU 1762 HD2 TYR A 113	5480	4660	4670	10	840	-90	H0
ATOM 1763 HE1 TYR A 113	-30.819	-15.515	12.789	1.00	39.78	H0	
ANISOU 1763 HE1 TYR A 113	5450	4880	4790	-20	940	-90	H0
ATOM 1764 HE2 TYR A 113	-34.472	-16.662	14.040	1.00	38.53	H0	
ANISOU 1764 HE2 TYR A 113	5360	4700	4580	-10	770	-60	H0
ATOM 1765 N MET A 114	-29.588	-20.161	13.601	1.00	39.74	N0	
ANISOU 1765 N MET A 114	5360	4770	4970	220	980	-20	N0
ATOM 1766 CA MET A 114	-29.151	-20.563	14.966	1.00	41.35	C0	
ANISOU 1766 CA MET A 114	5480	5020	5200	270	940	40	C0
ATOM 1767 C MET A 114	-28.779	-19.322	15.773	1.00	39.58	C0	
ANISOU 1767 C MET A 114	5160	4920	4960	230	890	50	C0
ATOM 1768 O MET A 114	-27.623	-19.137	16.133	1.00	40.43	O0	
ANISOU 1768 O MET A 114	5160	5120	5080	260	900	60	O0
ATOM 1769 CB MET A 114	-27.953	-21.517	14.897	1.00	44.83	C0	
ANISOU 1769 CB MET A 114	5870	5460	5700	390	990	60	C0
ATOM 1770 CG MET A 114	-27.939	-22.412	13.661	1.00	47.23	C0	
ANISOU 1770 CG MET A 114	6270	5650	6030	420	1080	20	C0
ATOM 1771 SD MET A 114	-29.161	-23.754	13.719	1.00	51.07	S0	
ANISOU 1771 SD MET A 114	6900	5980	6520	420	1080	30	S0
ATOM 1772 CE MET A 114	-28.129	-25.096	14.305	1.00	51.60	C0	
ANISOU 1772 CE MET A 114	6950	6000	6660	590	1130	100	C0
ATOM 1773 H MET A 114	-29.013	-19.593	13.181	1.00	40.05	H0	
ANISOU 1773 H MET A 114	5370	4840	5000	200	1010	-50	H0
ATOM 1774 HA MET A 114	-29.902	-21.015	15.414	1.00	41.05	H0	
ANISOU 1774 HA MET A 114	5490	4950	5160	270	910	70	H0
ATOM 1775 HB2 MET A 114	-27.131	-20.992	14.913	1.00	44.91	H0	
ANISOU 1775 HB2 MET A 114	5800	5550	5710	390	1000	50	H0
ATOM 1776 HB3 MET A 114	-27.959	-22.081	15.696	1.00	44.99	H0	
ANISOU 1776 HB3 MET A 114	5880	5480	5740	440	970	110	H0
ATOM 1777 HG2 MET A 114	-28.107	-21.867	12.864	1.00	47.24	H0	
ANISOU 1777 HG2 MET A 114	6300	5650	6000	360	1100	-30	H0
ATOM 1778 HG3 MET A 114	-27.046	-22.808	13.567	1.00	48.36	H0	
ANISOU 1778 HG3 MET A 114	6370	5810	6200	500	1120	20	H0

ATOM 1779 HE1 MET A 114	-28.648	-25.909	14.339	1.00	52.20		H0
ANISOU 1779 HE1 MET A 114	7120	5970	6750	600	1150	110	H0
ATOM 1780 HE2 MET A 114	-27.384	-25.214	13.704	1.00	52.44		H0
ANISOU 1780 HE2 MET A 114	7030	6100	6790	640	1180	80	H0
ATOM 1781 HE3 MET A 114	-27.801	-24.887	15.188	1.00	51.92		H0
ANISOU 1781 HE3 MET A 114	6910	6110	6700	630	1080	160	H0
ATOM 1782 N PRO A 115	-29.739	-18.425	16.087	1.00	37.74		N0
ANISOU 1782 N PRO A 115	4960	4700	4680	150	850	40	N0
ATOM 1783 CA PRO A 115	-29.440	-17.254	16.912	1.00	37.41		C0
ANISOU 1783 CA PRO A 115	4850	4750	4610	100	810	40	C0
ATOM 1784 C PRO A 115	-29.114	-17.664	18.354	1.00	37.23		C0
ANISOU 1784 C PRO A 115	4740	4810	4600	140	760	90	C0
ATOM 1785 O PRO A 115	-29.703	-18.605	18.828	1.00	37.22		O0
ANISOU 1785 O PRO A 115	4770	4770	4600	180	730	140	O0
ATOM 1786 CB PRO A 115	-30.731	-16.429	16.857	1.00	36.52		C0
ANISOU 1786 CB PRO A 115	4820	4610	4450	30	780	20	C0
ATOM 1787 CG PRO A 115	-31.807	-17.457	16.580	1.00	36.85		C0
ANISOU 1787 CG PRO A 115	4940	4570	4490	60	770	30	C0
ATOM 1788 CD PRO A 115	-31.150	-18.478	15.673	1.00	37.34		C0
ANISOU 1788 CD PRO A 115	5020	4580	4590	110	830	20	C0
ATOM 1789 HA PRO A 115	-28.693	-16.742	16.515	1.00	37.61		H0
ANISOU 1789 HA PRO A 115	4840	4810	4640	80	850	10	H0
ATOM 1790 HB2 PRO A 115	-30.895	-15.971	17.709	1.00	36.50		H0
ANISOU 1790 HB2 PRO A 115	4780	4650	4430	10	750	30	H0
ATOM 1791 HB3 PRO A 115	-30.692	-15.762	16.139	1.00	36.57		H0
ANISOU 1791 HB3 PRO A 115	4860	4600	4440	0	810	-10	H0
ATOM 1792 HG2 PRO A 115	-32.109	-17.876	17.412	1.00	36.69		H0
ANISOU 1792 HG2 PRO A 115	4900	4570	4480	70	740	70	H0
ATOM 1793 HG3 PRO A 115	-32.577	-17.044	16.139	1.00	36.33		H0
ANISOU 1793 HG3 PRO A 115	4920	4490	4390	30	760	10	H0
ATOM 1794 HD2 PRO A 115	-31.525	-19.367	15.812	1.00	37.48		H0
ANISOU 1794 HD2 PRO A 115	5060	4550	4630	130	830	40	H0
ATOM 1795 HD3 PRO A 115	-31.249	-18.233	14.735	1.00	37.27		H0
ANISOU 1795 HD3 PRO A 115	5050	4540	4570	90	860	-10	H0
ATOM 1796 N SER A 116	-28.155	-16.988	18.986	1.00	37.51		N0
ANISOU 1796 N SER A 116	4660	4970	4620	120	750	80	N0
ATOM 1797 CA SER A 116	-27.959	-17.007	20.456	1.00	37.32		C0
ANISOU 1797 CA SER A 116	4550	5050	4580	130	680	130	C0
ATOM 1798 C SER A 116	-28.872	-15.940	21.061	1.00	36.14		C0
ANISOU 1798 C SER A 116	4440	4910	4380	30	640	100	C0
ATOM 1799 O SER A 116	-28.818	-14.790	20.612	1.00	35.49		O0
ANISOU 1799 O SER A 116	4380	4830	4280	-50	670	40	O0
ATOM 1800 CB SER A 116	-26.523	-16.804	20.849	1.00	38.88		C0
ANISOU 1800 CB SER A 116	4600	5400	4770	140	680	120	C0
ATOM 1801 OG SER A 116	-26.343	-17.097	22.227	1.00	39.13		O0
ANISOU 1801 OG SER A 116	4550	5540	4780	180	610	170	O0
ATOM 1802 H SER A 116	-27.547	-16.460	18.559	1.00	37.65		H0
ANISOU 1802 H SER A 116	4650	5020	4640	90	780	50	H0
ATOM 1803 HA SER A 116	-28.251	-17.895	20.792	1.00	37.57		H0
ANISOU 1803 HA SER A 116	4600	5050	4620	190	660	180	H0
ATOM 1804 HB2 SER A 116	-25.948	-17.391	20.308	1.00	39.19		H0
ANISOU 1804 HB2 SER A 116	4620	5430	4850	210	710	130	H0
ATOM 1805 HB3 SER A 116	-26.263	-15.871	20.673	1.00	38.63		H0
ANISOU 1805 HB3 SER A 116	4550	5410	4730	60	700	60	H0

ATOM 1806 N ILE A 117	-29.704	-16.335	22.024	1.00	36.29	N0	
ANISOU 1806 N ILE A 117	4480	4930	4370	50	590	150	N0
ATOM 1807 CA ILE A 117	-30.769	-15.485	22.624	1.00	35.68	C0	
ANISOU 1807 CA ILE A 117	4450	4860	4250	-30	560	130	C0
ATOM 1808 C ILE A 117	-30.575	-15.472	24.140	1.00	36.27	C0	
ANISOU 1808 C ILE A 117	4440	5050	4290	-30	500	160	C0
ATOM 1809 O ILE A 117	-30.382	-16.561	24.728	1.00	36.77	O0	
ANISOU 1809 O ILE A 117	4480	5140	4350	40	470	230	O0
ATOM 1810 CB ILE A 117	-32.164	-16.000	22.215	1.00	35.67	C0	
ANISOU 1810 CB ILE A 117	4550	4750	4250	-20	560	140	C0
ATOM 1811 CG1 ILE A 117	-32.376	-15.901	20.700	1.00	35.72	C0	
ANISOU 1811 CG1 ILE A 117	4630	4660	4280	-20	610	100	C0
ATOM 1812 CG2 ILE A 117	-33.260	-15.275	22.982	1.00	35.44	C0	
ANISOU 1812 CG2 ILE A 117	4550	4740	4180	-70	520	130	C0
ATOM 1813 CD1 ILE A 117	-33.609	-16.621	20.202	1.00	35.53	C0	
ANISOU 1813 CD1 ILE A 117	4690	4560	4250	-10	610	110	C0
ATOM 1814 H ILE A 117	-29.671	-17.172	22.384	1.00	36.52	H0	
ANISOU 1814 H ILE A 117	4500	4960	4410	100	570	200	H0
ATOM 1815 HA ILE A 117	-30.667	-14.578	22.289	1.00	35.67	H0	
ANISOU 1815 HA ILE A 117	4460	4860	4240	-80	580	80	H0
ATOM 1816 HB ILE A 117	-32.210	-16.958	22.459	1.00	35.91	H0	
ANISOU 1816 HB ILE A 117	4580	4760	4300	30	550	190	H0
ATOM 1817 HG12 ILE A 117	-32.444	-14.954	20.454	1.00	35.47	H0	
ANISOU 1817 HG12 ILE A 117	4620	4630	4230	-60	620	60	H0
ATOM 1818 HG13 ILE A 117	-31.592	-16.275	20.246	1.00	36.04	H0	
ANISOU 1818 HG13 ILE A 117	4650	4700	4350	10	640	100	H0
ATOM 1819 HG21 ILE A 117	-33.231	-15.537	23.919	1.00	35.60	H0	
ANISOU 1819 HG21 ILE A 117	4530	4820	4180	-70	490	160	H0
ATOM 1820 HG22 ILE A 117	-34.129	-15.507	22.612	1.00	35.03	H0	
ANISOU 1820 HG22 ILE A 117	4550	4640	4120	-70	530	120	H0
ATOM 1821 HG23 ILE A 117	-33.126	-14.314	22.912	1.00	35.28	H0	
ANISOU 1821 HG23 ILE A 117	4530	4740	4140	-110	530	90	H0
ATOM 1822 HD11 ILE A 117	-33.681	-17.486	20.641	1.00	35.72	H0	
ANISOU 1822 HD11 ILE A 117	4710	4570	4290	20	590	150	H0
ATOM 1823 HD12 ILE A 117	-33.544	-16.751	19.240	1.00	35.48	H0	
ANISOU 1823 HD12 ILE A 117	4720	4500	4260	0	640	90	H0
ATOM 1824 HD13 ILE A 117	-34.400	-16.090	20.402	1.00	35.13	H0	
ANISOU 1824 HD13 ILE A 117	4660	4510	4170	-40	590	90	H0
ATOM 1825 N ARG A 118	-30.589	-14.279	24.733	1.00	35.77	N0	
ANISOU 1825 N ARG A 118	4360	5060	4180	-120	490	110	N0
ATOM 1826 CA ARG A 118	-30.785	-14.079	26.190	1.00	35.79	C0	
ANISOU 1826 CA ARG A 118	4310	5160	4120	-150	430	120	C0
ATOM 1827 C ARG A 118	-32.258	-13.717	26.390	1.00	35.22	C0	
ANISOU 1827 C ARG A 118	4330	5020	4030	-180	430	110	C0
ATOM 1828 O ARG A 118	-32.727	-12.786	25.711	1.00	34.43	O0	
ANISOU 1828 O ARG A 118	4300	4850	3930	-220	470	50	O0
ATOM 1829 CB ARG A 118	-29.859	-12.991	26.735	1.00	36.22	C0	
ANISOU 1829 CB ARG A 118	4280	5340	4140	-240	430	60	C0
ATOM 1830 CG ARG A 118	-30.226	-12.530	28.138	1.00	36.58	C0	
ANISOU 1830 CG ARG A 118	4300	5490	4110	-290	390	40	C0
ATOM 1831 CD ARG A 118	-29.108	-11.766	28.810	1.00	37.50	C0	
ANISOU 1831 CD ARG A 118	4310	5760	4180	-370	380	-20	C0
ATOM 1832 NE ARG A 118	-29.380	-11.531	30.221	1.00	38.21	N0	
ANISOU 1832 NE ARG A 118	4360	5970	4190	-420	330	-20	N0

ATOM 1833 CZ ARG A 118	-28.549	-10.913	31.061	1.00	39.20		C0
ANISOU 1833 CZ ARG A 118	4390	6260	4250	-500	300	-80	C0
ATOM 1834 NH1 ARG A 118	-27.375	-10.477	30.636	1.00	40.00		N0
ANISOU 1834 NH1 ARG A 118	4400	6440	4360	-560	330	-140	N0
ATOM 1835 NH2 ARG A 118	-28.884	-10.754	32.330	1.00	39.29		N0
ANISOU 1835 NH2 ARG A 118	4380	6380	4170	-540	260	-80	N0
ATOM 1836 H ARG A 118	-30.478	-13.502	24.270	1.00	35.69		H0
ANISOU 1836 H ARG A 118	4360	5030	4170	-170	520	60	H0
ATOM 1837 HA ARG A 118	-30.594	-14.923	26.652	1.00	36.23		H0
ANISOU 1837 HA ARG A 118	4330	5250	4180	-90	400	180	H0
ATOM 1838 HB2 ARG A 118	-28.941	-13.334	26.741	1.00	36.93		H0
ANISOU 1838 HB2 ARG A 118	4290	5510	4240	-210	430	70	H0
ATOM 1839 HB3 ARG A 118	-29.889	-12.220	26.130	1.00	36.06		H0
ANISOU 1839 HB3 ARG A 118	4300	5270	4130	-290	480	0	H0
ATOM 1840 HG2 ARG A 118	-31.019	-11.954	28.093	1.00	36.03		H0
ANISOU 1840 HG2 ARG A 118	4300	5360	4030	-330	410	10	H0
ATOM 1841 HG3 ARG A 118	-30.451	-13.312	28.686	1.00	36.67		H0
ANISOU 1841 HG3 ARG A 118	4300	5530	4110	-240	350	110	H0
ATOM 1842 HD2 ARG A 118	-28.273	-12.273	28.722	1.00	38.15		H0
ANISOU 1842 HD2 ARG A 118	4310	5920	4270	-330	360	10	H0
ATOM 1843 HD3 ARG A 118	-28.988	-10.905	28.356	1.00	37.52		H0
ANISOU 1843 HD3 ARG A 118	4340	5730	4190	-450	420	-90	H0
ATOM 1844 HE ARG A 118	-30.142	-11.805	30.537	1.00	37.76		H0
ANISOU 1844 HE ARG A 118	4350	5880	4120	-390	310	10	H0
ATOM 1845 HH11 ARG A 118	-27.141	-10.581	29.797	1.00	39.74		H0
ANISOU 1845 HH11 ARG A 118	4380	6340	4380	-540	360	-140	H0
ATOM 1846 HH12 ARG A 118	-26.830	-10.074	31.197	1.00	40.74		H0
ANISOU 1846 HH12 ARG A 118	4420	6660	4400	-630	310	-180	H0
ATOM 1847 HH21 ARG A 118	-29.663	-11.042	32.619	1.00	38.99		H0
ANISOU 1847 HH21 ARG A 118	4390	6290	4130	-510	250	-40	H0
ATOM 1848 HH22 ARG A 118	-28.332	-10.347	32.883	1.00	40.17		H0
ANISOU 1848 HH22 ARG A 118	4420	6610	4230	-600	240	-130	H0
ATOM 1849 N GLN A 119	-32.957	-14.439	27.263	1.00	35.00		N0
ANISOU 1849 N GLN A 119	4310	5010	3970	-150	390	170	N0
ATOM 1850 CA GLN A 119	-34.421	-14.290	27.453	1.00	35.17		C0
ANISOU 1850 CA GLN A 119	4410	4980	3970	-180	390	160	C0
ATOM 1851 C GLN A 119	-34.796	-14.734	28.872	1.00	36.31		C0
ANISOU 1851 C GLN A 119	4520	5210	4060	-180	350	210	C0
ATOM 1852 O GLN A 119	-34.180	-15.702	29.371	1.00	35.84		O0
ANISOU 1852 O GLN A 119	4430	5200	4000	-130	320	280	O0
ATOM 1853 CB GLN A 119	-35.171	-15.106	26.397	1.00	34.49		C0
ANISOU 1853 CB GLN A 119	4390	4780	3930	-140	420	180	C0
ATOM 1854 CG GLN A 119	-36.606	-14.648	26.198	1.00	34.13		C0
ANISOU 1854 CG GLN A 119	4400	4700	3870	-170	420	140	C0
ATOM 1855 CD GLN A 119	-37.264	-15.244	24.977	1.00	33.38		C0
ANISOU 1855 CD GLN A 119	4370	4510	3800	-140	450	140	C0
ATOM 1856 OE1 GLN A 119	-36.790	-16.219	24.401	1.00	33.24		O0
ANISOU 1856 OE1 GLN A 119	4360	4440	3820	-110	460	170	O0
ATOM 1857 NE2 GLN A 119	-38.391	-14.669	24.590	1.00	33.11		N0
ANISOU 1857 NE2 GLN A 119	4370	4470	3750	-160	450	90	N0
ATOM 1858 H GLN A 119	-32.575	-15.073	27.795	1.00	35.70		H0
ANISOU 1858 H GLN A 119	4360	5150	4050	-120	370	220	H0
ATOM 1859 HA GLN A 119	-34.654	-13.339	27.347	1.00	34.91		H0
ANISOU 1859 HA GLN A 119	4390	4950	3930	-220	410	100	H0

ATOM 1860 HB2 GLN A 119	-34.690	-15.033	25.547	1.00	34.52	H0	
ANISOU 1860 HB2 GLN A 119	4400	4750	3970	-120	440	160	H0
ATOM 1861 HB3 GLN A 119	-35.166	-16.048	26.666	1.00	34.85	H0	
ANISOU 1861 HB3 GLN A 119	4440	4820	3980	-110	400	230	H0
ATOM 1862 HG2 GLN A 119	-37.131	-14.891	26.991	1.00	34.10	H0	
ANISOU 1862 HG2 GLN A 119	4390	4730	3830	-180	400	160	H0
ATOM 1863 HG3 GLN A 119	-36.621	-13.671	26.120	1.00	33.86	H0	
ANISOU 1863 HG3 GLN A 119	4370	4670	3820	-190	430	90	H0
ATOM 1864 HE21 GLN A 119	-38.858	-15.014	23.923	1.00	32.99	H0	
ANISOU 1864 HE21 GLN A 119	4380	4420	3740	-150	460	90	H0
ATOM 1865 HE22 GLN A 119	-38.680	-13.939	24.997	1.00	33.06	H0	
ANISOU 1865 HE22 GLN A 119	4350	4490	3720	-170	450	70	H0
ATOM 1866 N ARG A 120	-35.763	-14.043	29.487	1.00	36.71	N0	
ANISOU 1866 N ARG A 120	4600	5280	4070	-230	350	170	N0
ATOM 1867 CA AARG A 120	-36.271	-14.373	30.845	0.50	37.02	C0	
ANISOU 1867 CA AARG A 120	4620	5410	4040	-250	320	200	C0
ATOM 1868 CA BARG A 120	-36.283	-14.361	30.845	0.50	37.30	C0	
ANISOU 1868 CA BARG A 120	4660	5440	4070	-250	320	200	C0
ATOM 1869 C ARG A 120	-37.546	-15.218	30.709	1.00	36.47	C0	
ANISOU 1869 C ARG A 120	4610	5270	3980	-240	330	240	C0
ATOM 1870 O ARG A 120	-38.330	-14.975	29.772	1.00	35.86	O0	
ANISOU 1870 O ARG A 120	4570	5120	3930	-240	360	200	O0
ATOM 1871 CB AARG A 120	-36.453	-13.081	31.647	0.50	37.56	C0	
ANISOU 1871 CB AARG A 120	4670	5550	4050	-320	320	130	C0
ATOM 1872 CB BARG A 120	-36.582	-13.084	31.637	0.50	38.20	C0	
ANISOU 1872 CB BARG A 120	4760	5630	4130	-320	320	130	C0
ATOM 1873 CG AARG A 120	-35.218	-12.189	31.625	0.50	38.13	C0	
ANISOU 1873 CG AARG A 120	4690	5680	4110	-360	320	70	C0
ATOM 1874 CG BARG A 120	-35.404	-12.128	31.753	0.50	39.14	C0	
ANISOU 1874 CG BARG A 120	4830	5810	4230	-370	320	70	C0
ATOM 1875 CD AARG A 120	-35.255	-11.035	32.607	0.50	38.57	C0	
ANISOU 1875 CD AARG A 120	4740	5820	4100	-440	320	-10	C0
ATOM 1876 CD BARG A 120	-35.433	-11.331	33.044	0.50	40.11	C0	
ANISOU 1876 CD BARG A 120	4920	6050	4270	-440	310	10	C0
ATOM 1877 NE AARG A 120	-36.228	-10.012	32.255	0.50	38.04	N0	
ANISOU 1877 NE AARG A 120	4750	5670	4040	-470	370	-90	N0
ATOM 1878 NE BARG A 120	-34.946	-12.112	34.172	0.50	41.30	N0	
ANISOU 1878 NE BARG A 120	5000	6330	4360	-430	250	80	N0
ATOM 1879 CZ AARG A 120	-36.041	-9.081	31.333	0.50	37.60	C0	
ANISOU 1879 CZ AARG A 120	4740	5520	4020	-480	430	-150	C0
ATOM 1880 CZ BARG A 120	-35.647	-12.388	35.266	0.50	41.21	C0	
ANISOU 1880 CZ BARG A 120	5000	6380	4280	-440	230	110	C0
ATOM 1881 NH1AARG A 120	-36.989	-8.189	31.104	0.50	37.28	N0	
ANISOU 1881 NH1AARG A 120	4780	5400	3980	-470	470	-200	N0
ATOM 1882 NH1BARG A 120	-35.101	-13.111	36.228	0.50	42.28	N0	
ANISOU 1882 NH1BARG A 120	5080	6640	4340	-420	180	190	N0
ATOM 1883 NH2AARG A 120	-34.921	-9.053	30.632	0.50	37.77	N0	
ANISOU 1883 NH2AARG A 120	4740	5530	4080	-490	440	-150	N0
ATOM 1884 NH2BARG A 120	-36.879	-11.932	35.401	0.50	40.44	N0	
ANISOU 1884 NH2BARG A 120	4960	6240	4170	-470	270	70	N0
ATOM 1885 H ARG A 120	-36.180	-13.322	29.118	1.00	36.27	H0	
ANISOU 1885 H ARG A 120	4570	5200	4010	-260	370	120	H0
ATOM 1886 HA AARG A 120	-35.590	-14.918	31.295	0.50	37.59	H0	
ANISOU 1886 HA AARG A 120	4650	5530	4100	-230	290	260	H0

ATOM 1887 HA BARG A 120	-35.600	-14.877	31.325	0.50	37.83	H0	
ANISOU 1887 HA BARG A 120	4680	5560	4130	-230	290	250	H0
ATOM 1888 HB2AARG A 120	-37.212	-12.584	31.277	0.50	37.10	H0	
ANISOU 1888 HB2AARG A 120	4650	5440	4000	-330	340	80	H0
ATOM 1889 HB2BARG A 120	-37.326	-12.616	31.204	0.50	37.70	H0	
ANISOU 1889 HB2BARG A 120	4740	5510	4080	-330	340	80	H0
ATOM 1890 HB3AARG A 120	-36.663	-13.312	32.576	0.50	37.87	H0	
ANISOU 1890 HB3AARG A 120	4690	5660	4040	-340	300	150	H0
ATOM 1891 HB3BARG A 120	-36.871	-13.338	32.539	0.50	38.46	H0	
ANISOU 1891 HB3BARG A 120	4780	5720	4110	-340	300	150	H0
ATOM 1892 HG2AARG A 120	-34.429	-12.737	31.819	0.50	38.53	H0	
ANISOU 1892 HG2AARG A 120	4690	5790	4160	-340	290	110	H0
ATOM 1893 HG2BARG A 120	-34.568	-12.638	31.712	0.50	39.44	H0	
ANISOU 1893 HG2BARG A 120	4820	5880	4280	-340	300	100	H0
ATOM 1894 HG3AARG A 120	-35.108	-11.823	30.722	0.50	37.75	H0	
ANISOU 1894 HG3AARG A 120	4670	5560	4110	-360	350	40	H0
ATOM 1895 HG3BARG A 120	-35.417	-11.506	30.995	0.50	38.78	H0	
ANISOU 1895 HG3BARG A 120	4810	5700	4220	-380	350	20	H0
ATOM 1896 HD2AARG A 120	-35.467	-11.383	33.499	0.50	38.89	H0	
ANISOU 1896 HD2AARG A 120	4750	5930	4090	-450	290	20	H0
ATOM 1897 HD2BARG A 120	-34.876	-10.529	32.942	0.50	40.34	H0	
ANISOU 1897 HD2BARG A 120	4940	6090	4300	-480	320	-50	H0
ATOM 1898 HD3AARG A 120	-34.365	-10.626	32.651	0.50	38.97	H0	
ANISOU 1898 HD3AARG A 120	4750	5920	4140	-480	320	-40	H0
ATOM 1899 HD3BARG A 120	-36.352	-11.040	33.225	0.50	39.87	H0	
ANISOU 1899 HD3BARG A 120	4930	5990	4230	-450	320	-10	H0
ATOM 1900 HE AARG A 120	-36.978	-9.995	32.699	0.50	37.95	H0	
ANISOU 1900 HE AARG A 120	4750	5660	4000	-470	370	-90	H0
ATOM 1901 HE BARG A 120	-34.138	-12.432	34.123	0.50	41.46	H0	
ANISOU 1901 HE BARG A 120	4980	6390	4380	-410	230	110	H0
ATOM 1902 HH11AARG A 120	-37.735	-8.215	31.567	0.50	37.32	H0	
ANISOU 1902 HH11AARG A 120	4790	5420	3960	-460	470	-200	H0
ATOM 1903 HH11BARG A 120	-34.280	-13.411	36.137	0.50	42.58	H0	
ANISOU 1903 HH11BARG A 120	5070	6720	4390	-400	150	220	H0
ATOM 1904 HH12AARG A 120	-36.872	-7.576	30.485	0.50	37.31	H0	
ANISOU 1904 HH12AARG A 120	4830	5340	4010	-480	510	-230	H0
ATOM 1905 HH12BARG A 120	-35.562	-13.290	36.955	0.50	42.47	H0	
ANISOU 1905 HH12BARG A 120	5110	6710	4310	-440	170	210	H0
ATOM 1906 HH21AARG A 120	-34.290	-9.647	30.790	0.50	37.99	H0	
ANISOU 1906 HH21AARG A 120	4710	5620	4110	-480	410	-110	H0
ATOM 1907 HH21BARG A 120	-37.240	-11.449	34.759	0.50	40.12	H0	
ANISOU 1907 HH21BARG A 120	4950	6120	4170	-470	300	20	H0
ATOM 1908 HH22AARG A 120	-34.804	-8.434	30.017	0.50	37.70	H0	
ANISOU 1908 HH22AARG A 120	4770	5460	4090	-500	470	-190	H0
ATOM 1909 HH22BARG A 120	-37.337	-12.115	36.131	0.50	40.85	H0	
ANISOU 1909 HH22BARG A 120	5010	6340	4170	-480	260	80	H0
ATOM 1910 N PHE A 121	-37.717	-16.190	31.604	1.00	36.89	N0	
ANISOU 1910 N PHE A 121	4660	5360	3990	-240	310	320	N0
ATOM 1911 CA PHE A 121	-38.834	-17.167	31.574	1.00	36.30	C0	
ANISOU 1911 CA PHE A 121	4650	5220	3920	-250	330	360	C0
ATOM 1912 C PHE A 121	-39.492	-17.235	32.949	1.00	37.13	C0	
ANISOU 1912 C PHE A 121	4750	5410	3950	-290	320	380	C0
ATOM 1913 O PHE A 121	-38.786	-17.086	33.968	1.00	37.19	O0	
ANISOU 1913 O PHE A 121	4720	5520	3900	-290	290	420	O0

ATOM 1914 CB PHE A 121	-38.333	-18.542	31.127	1.00	36.23	C0	
ANISOU 1914 CB PHE A 121	4680	5120	3960	-190	350	440	C0
ATOM 1915 CG PHE A 121	-37.826	-18.557	29.710	1.00	35.59	C0	
ANISOU 1915 CG PHE A 121	4610	4950	3960	-150	370	410	C0
ATOM 1916 CD1 PHE A 121	-38.696	-18.763	28.652	1.00	35.19	C0	
ANISOU 1916 CD1 PHE A 121	4610	4810	3940	-180	400	360	C0
ATOM 1917 CD2 PHE A 121	-36.491	-18.317	29.430	1.00	35.46	C0	
ANISOU 1917 CD2 PHE A 121	4550	4960	3960	-100	350	410	C0
ATOM 1918 CE1 PHE A 121	-38.234	-18.746	27.345	1.00	34.86	C0	
ANISOU 1918 CE1 PHE A 121	4590	4700	3960	-140	420	330	C0
ATOM 1919 CE2 PHE A 121	-36.030	-18.308	28.122	1.00	35.50	C0	
ANISOU 1919 CE2 PHE A 121	4570	4890	4030	-70	380	380	C0
ATOM 1920 CZ PHE A 121	-36.904	-18.520	27.082	1.00	34.72	C0	
ANISOU 1920 CZ PHE A 121	4530	4690	3970	-90	420	340	C0
ATOM 1921 H PHE A 121	-37.154	-16.327	32.308	1.00	37.29	H0	
ANISOU 1921 H PHE A 121	4680	5470	4010	-230	290	350	H0
ATOM 1922 HA PHE A 121	-39.510	-16.853	30.921	1.00	35.91	H0	
ANISOU 1922 HA PHE A 121	4620	5130	3900	-260	350	310	H0
ATOM 1923 HB2 PHE A 121	-37.612	-18.823	31.728	1.00	36.87	H0	
ANISOU 1923 HB2 PHE A 121	4740	5250	4020	-160	320	500	H0
ATOM 1924 HB3 PHE A 121	-39.066	-19.186	31.212	1.00	36.47	H0	
ANISOU 1924 HB3 PHE A 121	4760	5120	3980	-210	370	460	H0
ATOM 1925 HD1 PHE A 121	-39.611	-18.915	28.825	1.00	35.15	H0	
ANISOU 1925 HD1 PHE A 121	4630	4810	3920	-220	410	350	H0
ATOM 1926 HD2 PHE A 121	-35.887	-18.167	30.140	1.00	36.05	H0	
ANISOU 1926 HD2 PHE A 121	4580	5110	4010	-80	330	440	H0
ATOM 1927 HE1 PHE A 121	-38.832	-18.898	26.638	1.00	34.59	H0	
ANISOU 1927 HE1 PHE A 121	4580	4620	3940	-160	440	300	H0
ATOM 1928 HE2 PHE A 121	-35.117	-18.152	27.946	1.00	35.54	H0	
ANISOU 1928 HE2 PHE A 121	4530	4920	4060	-40	380	380	H0
ATOM 1929 HZ PHE A 121	-36.590	-18.518	26.191	1.00	34.69	H0	
ANISOU 1929 HZ PHE A 121	4540	4640	4000	-70	430	320	H0
ATOM 1930 N SER A 122	-40.815	-17.409	32.940	1.00	37.05	N0	
ANISOU 1930 N SER A 122	4770	5390	3930	-340	350	360	N0
ATOM 1931 CA SER A 122	-41.640	-17.876	34.079	1.00	37.63	C0	
ANISOU 1931 CA SER A 122	4850	5520	3930	-390	370	400	C0
ATOM 1932 C SER A 122	-41.664	-19.404	34.036	1.00	38.73	C0	
ANISOU 1932 C SER A 122	5060	5570	4080	-390	390	490	C0
ATOM 1933 O SER A 122	-42.191	-19.951	33.053	1.00	39.37	O0	
ANISOU 1933 O SER A 122	5180	5560	4220	-400	430	470	O0
ATOM 1934 CB SER A 122	-43.033	-17.308	34.006	1.00	37.15	C0	
ANISOU 1934 CB SER A 122	4780	5490	3850	-450	400	310	C0
ATOM 1935 OG SER A 122	-43.887	-17.946	34.936	1.00	37.52	O0	
ANISOU 1935 OG SER A 122	4840	5580	3840	-510	420	350	O0
ATOM 1936 H SER A 122	-41.321	-17.249	32.200	1.00	36.61	H0	
ANISOU 1936 H SER A 122	4720	5290	3900	-350	370	320	H0
ATOM 1937 HA SER A 122	-41.212	-17.582	34.926	1.00	38.04	H0	
ANISOU 1937 HA SER A 122	4880	5640	3930	-390	340	410	H0
ATOM 1938 HB2 SER A 122	-43.002	-16.343	34.195	1.00	36.91	H0	
ANISOU 1938 HB2 SER A 122	4710	5510	3800	-450	390	260	H0
ATOM 1939 HB3 SER A 122	-43.389	-17.431	33.097	1.00	36.78	H0	
ANISOU 1939 HB3 SER A 122	4740	5380	3850	-440	410	280	H0
ATOM 1940 N CYS A 123	-41.082	-20.064	35.033	1.00	39.53	N0	
ANISOU 1940 N CYS A 123	5180	5700	4130	-360	380	590	N0

ATOM 1941 CA CYS A 123	-40.999	-21.544	35.101	1.00	41.32	C0	
ANISOU 1941 CA CYS A 123	5510	5830	4370	-340	410	700	C0
ATOM 1942 C CYS A 123	-40.637	-21.968	36.529	1.00	41.84	C0	
ANISOU 1942 C CYS A 123	5590	5970	4330	-320	390	810	C0
ATOM 1943 O CYS A 123	-40.323	-21.086	37.347	1.00	41.81	O0	
ANISOU 1943 O CYS A 123	5510	6110	4260	-330	340	790	O0
ATOM 1944 CB CYS A 123	-39.996	-22.082	34.083	1.00	41.73	C0	
ANISOU 1944 CB CYS A 123	5580	5770	4500	-250	410	740	C0
ATOM 1945 SG CYS A 123	-38.293	-21.564	34.414	1.00	44.26	S0	
ANISOU 1945 SG CYS A 123	5810	6190	4810	-140	340	770	S0
ATOM 1946 H CYS A 123	-40.688	-19.656	35.747	1.00	40.00	H0	
ANISOU 1946 H CYS A 123	5210	5850	4140	-360	350	600	H0
ATOM 1947 HA CYS A 123	-41.888	-21.908	34.882	1.00	41.13	H0	
ANISOU 1947 HA CYS A 123	5520	5760	4350	-400	450	680	H0
ATOM 1948 HB2 CYS A 123	-40.029	-23.059	34.085	1.00	42.80	H0	
ANISOU 1948 HB2 CYS A 123	5790	5820	4650	-240	440	800	H0
ATOM 1949 HB3 CYS A 123	-40.247	-21.774	33.189	1.00	41.45	H0	
ANISOU 1949 HB3 CYS A 123	5540	5700	4520	-270	420	670	H0
ATOM 1950 N ASP A 124	-40.674	-23.275	36.796	1.00	42.67	N0	
ANISOU 1950 N ASP A 124	5800	5980	4430	-300	430	930	N0
ATOM 1951 CA ASP A 124	-40.476	-23.878	38.141	1.00	44.10	C0	
ANISOU 1951 CA ASP A 124	6030	6220	4500	-280	430	1050	C0
ATOM 1952 C ASP A 124	-38.996	-23.804	38.545	1.00	44.85	C0	
ANISOU 1952 C ASP A 124	6070	6400	4570	-150	350	1130	C0
ATOM 1953 O ASP A 124	-38.198	-24.597	38.019	1.00	46.25	O0	
ANISOU 1953 O ASP A 124	6290	6480	4800	-30	360	1210	O0
ATOM 1954 CB ASP A 124	-40.988	-25.320	38.152	1.00	44.89	C0	
ANISOU 1954 CB ASP A 124	6280	6160	4610	-300	510	1150	C0
ATOM 1955 CG ASP A 124	-41.192	-25.891	39.543	1.00	46.69	C0	
ANISOU 1955 CG ASP A 124	6590	6440	4720	-320	530	1270	C0
ATOM 1956 OD1 ASP A 124	-40.876	-25.180	40.522	1.00	47.12	O0	
ANISOU 1956 OD1 ASP A 124	6560	6660	4680	-300	470	1280	O0
ATOM 1957 OD2 ASP A 124	-41.666	-27.042	39.634	1.00	47.71	O0	
ANISOU 1957 OD2 ASP A 124	6860	6430	4840	-350	610	1360	O0
ATOM 1958 H ASP A 124	-40.827	-23.894	36.146	1.00	42.79	H0	
ANISOU 1958 H ASP A 124	5870	5890	4500	-300	470	940	H0
ATOM 1959 HA ASP A 124	-41.006	-23.357	38.790	1.00	44.00	H0	
ANISOU 1959 HA ASP A 124	5980	6300	4430	-350	420	1020	H0
ATOM 1960 HB2 ASP A 124	-41.843	-25.358	37.678	1.00	44.62	H0	
ANISOU 1960 HB2 ASP A 124	6270	6080	4610	-390	560	1080	H0
ATOM 1961 HB3 ASP A 124	-40.353	-25.891	37.676	1.00	45.36	H0	
ANISOU 1961 HB3 ASP A 124	6390	6130	4720	-220	520	1200	H0
ATOM 1962 N VAL A 125	-38.661	-22.913	39.481	1.00	45.47	N0	
ANISOU 1962 N VAL A 125	6060	6660	4560	-150	290	1110	N0
ATOM 1963 CA VAL A 125	-37.285	-22.698	40.026	1.00	46.21	C0	
ANISOU 1963 CA VAL A 125	6070	6900	4590	-50	210	1170	C0
ATOM 1964 C VAL A 125	-37.148	-23.386	41.394	1.00	48.16	C0	
ANISOU 1964 C VAL A 125	6370	7230	4700	0	190	1320	C0
ATOM 1965 O VAL A 125	-36.063	-23.286	42.000	1.00	49.48	O0	
ANISOU 1965 O VAL A 125	6460	7540	4800	90	110	1380	O0
ATOM 1966 CB VAL A 125	-36.978	-21.189	40.116	1.00	45.58	C0	
ANISOU 1966 CB VAL A 125	5850	6970	4490	-100	150	1030	C0
ATOM 1967 CG1 VAL A 125	-35.646	-20.894	40.791	1.00	46.66	C0	
ANISOU 1967 CG1 VAL A 125	5880	7290	4550	-30	70	1070	C0

ATOM 1968 CG2 VAL A 125	-37.031	-20.528	38.746	1.00	44.53	C0	
ANISOU 1968 CG2 VAL A 125	5690	6750	4490	-130	170	910	C0
ATOM 1969 H VAL A 125	-39.277	-22.359	39.860	1.00	45.04	H0	
ANISOU 1969 H VAL A 125	5980	6670	4460	-230	290	1050	H0
ATOM 1970 HA VAL A 125	-36.646	-23.105	39.414	1.00	46.40	H0	
ANISOU 1970 HA VAL A 125	6100	6860	4680	40	200	1200	H0
ATOM 1971 HB VAL A 125	-37.687	-20.780	40.670	1.00	45.53	H0	
ANISOU 1971 HB VAL A 125	5850	7020	4430	-190	160	990	H0
ATOM 1972 HG11 VAL A 125	-35.715	-21.067	41.744	1.00	47.50	H0	
ANISOU 1972 HG11 VAL A 125	6000	7490	4560	-30	50	1130	H0
ATOM 1973 HG12 VAL A 125	-35.417	-19.960	40.653	1.00	46.10	H0	
ANISOU 1973 HG12 VAL A 125	5740	7290	4490	-70	50	970	H0
ATOM 1974 HG13 VAL A 125	-34.953	-21.459	40.406	1.00	47.05	H0	
ANISOU 1974 HG13 VAL A 125	5930	7300	4640	70	60	1130	H0
ATOM 1975 HG21 VAL A 125	-36.453	-21.011	38.131	1.00	44.50	H0	
ANISOU 1975 HG21 VAL A 125	5690	6680	4540	-60	180	950	H0
ATOM 1976 HG22 VAL A 125	-36.730	-19.605	38.817	1.00	44.07	H0	
ANISOU 1976 HG22 VAL A 125	5550	6780	4410	-160	150	830	H0
ATOM 1977 HG23 VAL A 125	-37.945	-20.544	38.413	1.00	43.84	H0	
ANISOU 1977 HG23 VAL A 125	5650	6580	4430	-190	220	870	H0
ATOM 1978 N SER A 126	-38.189	-24.074	41.872	1.00	48.87	N0	
ANISOU 1978 N SER A 126	6570	7240	4750	-70	260	1370	N0
ATOM 1979 CA SER A 126	-38.205	-24.704	43.217	1.00	50.42	C0	
ANISOU 1979 CA SER A 126	6840	7510	4800	-50	250	1510	C0
ATOM 1980 C SER A 126	-37.168	-25.834	43.265	1.00	51.63	C0	
ANISOU 1980 C SER A 126	7060	7610	4950	130	230	1690	C0
ATOM 1981 O SER A 126	-37.108	-26.615	42.291	1.00	51.38	O0	
ANISOU 1981 O SER A 126	7110	7380	5030	190	290	1720	O0
ATOM 1982 CB SER A 126	-39.589	-25.179	43.599	1.00	50.69	C0	
ANISOU 1982 CB SER A 126	6990	7460	4810	-180	340	1520	C0
ATOM 1983 OG SER A 126	-40.061	-26.163	42.696	1.00	51.20	O0	
ANISOU 1983 OG SER A 126	7180	7300	4970	-190	430	1550	O0
ATOM 1984 H SER A 126	-38.962	-24.211	41.412	1.00	48.25	H0	
ANISOU 1984 H SER A 126	6540	7060	4730	-140	310	1330	H0
ATOM 1985 HA SER A 126	-37.929	-24.011	43.871	1.00	50.50	H0	
ANISOU 1985 HA SER A 126	6770	7690	4740	-60	190	1480	H0
ATOM 1986 HB2 SER A 126	-39.565	-25.555	44.509	1.00	52.00	H0	
ANISOU 1986 HB2 SER A 126	7210	7680	4870	-170	340	1620	H0
ATOM 1987 HB3 SER A 126	-40.207	-24.414	43.602	1.00	49.99	H0	
ANISOU 1987 HB3 SER A 126	6850	7430	4720	-280	350	1410	H0
ATOM 1988 N GLY A 127	-36.365	-25.875	44.339	1.00	52.34	N0	
ANISOU 1988 N GLY A 127	7110	7870	4910	230	160	1800	N0
ATOM 1989 CA GLY A 127	-35.354	-26.915	44.611	1.00	54.12	C0	
ANISOU 1989 CA GLY A 127	7390	8080	5090	430	130	1980	C0
ATOM 1990 C GLY A 127	-34.024	-26.660	43.915	1.00	53.83	C0	
ANISOU 1990 C GLY A 127	7220	8110	5120	570	60	1960	C0
ATOM 1991 O GLY A 127	-33.206	-27.591	43.866	1.00	54.42	O0	
ANISOU 1991 O GLY A 127	7340	8140	5200	760	50	2110	O0
ATOM 1992 H GLY A 127	-36.403	-25.235	44.986	1.00	52.51	H0	
ANISOU 1992 H GLY A 127	7060	8040	4850	180	120	1760	H0
ATOM 1993 HA2 GLY A 127	-35.203	-26.964	45.589	1.00	55.22	H0	
ANISOU 1993 HA2 GLY A 127	7530	8350	5100	460	90	2060	H0
ATOM 1994 HA3 GLY A 127	-35.711	-27.791	44.317	1.00	54.52	H0	
ANISOU 1994 HA3 GLY A 127	7580	7950	5190	450	210	2060	H0

ATOM 1995 N VAL A 128	-33.799	-25.443	43.414	1.00	53.32	N0
ANISOU 1995 N VAL A 128	6990	8150	5110	490	10	1790
ATOM 1996 CA VAL A 128	-32.597	-25.077	42.606	1.00	53.39	C0
ANISOU 1996 CA VAL A 128	6860	8230	5200	590	-40	1740
ATOM 1997 C VAL A 128	-31.333	-25.203	43.470	1.00	55.80	C0
ANISOU 1997 C VAL A 128	7060	8770	5380	750	-150	1840
ATOM 1998 O VAL A 128	-30.273	-25.524	42.902	1.00	55.48	O0
ANISOU 1998 O VAL A 128	6950	8740	5390	900	-170	1880
ATOM 1999 CB VAL A 128	-32.727	-23.668	41.994	1.00	51.79	C0
ANISOU 1999 CB VAL A 128	6530	8080	5060	440	-60	1530
ATOM 2000 CG1 VAL A 128	-32.805	-22.574	43.051	1.00	52.27	C0
ANISOU 2000 CG1 VAL A 128	6490	8380	4990	330	-120	1450
ATOM 2001 CG2 VAL A 128	-31.598	-23.377	41.019	1.00	51.45	C0
ANISOU 2001 CG2 VAL A 128	6370	8070	5110	520	-90	1470
ATOM 2002 H VAL A 128	-34.380	-24.754	43.531	1.00	52.29	H0
ANISOU 2002 H VAL A 128	6840	8060	4970	370	20	1690
ATOM 2003 HA VAL A 128	-32.524	-25.716	41.876	1.00	53.42	H0
ANISOU 2003 HA VAL A 128	6930	8070	5290	660	0	1770
ATOM 2004 HB VAL A 128	-33.572	-23.649	41.483	1.00	50.78	H0
ANISOU 2004 HB VAL A 128	6480	7820	5000	360	10	1470
ATOM 2005 HG11 VAL A 128	-33.522	-22.773	43.676	1.00	52.40	H0
ANISOU 2005 HG11 VAL A 128	6590	8380	4940	280	-100	1480
ATOM 2006 HG12 VAL A 128	-32.981	-21.720	42.620	1.00	51.01	H0
ANISOU 2006 HG12 VAL A 128	6280	8220	4880	230	-110	1320
ATOM 2007 HG13 VAL A 128	-31.961	-22.524	43.532	1.00	53.19	H0
ANISOU 2007 HG13 VAL A 128	6530	8650	5030	400	-180	1490
ATOM 2008 HG21 VAL A 128	-30.792	-23.148	41.514	1.00	52.35	H0
ANISOU 2008 HG21 VAL A 128	6380	8360	5150	580	-150	1490
ATOM 2009 HG22 VAL A 128	-31.848	-22.632	40.446	1.00	50.22	H0
ANISOU 2009 HG22 VAL A 128	6180	7890	5010	430	-70	1350
ATOM 2010 HG23 VAL A 128	-31.430	-24.164	40.472	1.00	51.74	H0
ANISOU 2010 HG23 VAL A 128	6470	7980	5210	620	-50	1540
ATOM 2011 N ASP A 129	-31.438	-24.972	44.785	1.00	57.77	N0
ANISOU 2011 N ASP A 129	7290	9210	5460	710	-200	1890
ATOM 2012 CA ASP A 129	-30.291	-24.996	45.737	1.00	61.08	C0
ANISOU 2012 CA ASP A 129	7580	9900	5730	840	-320	1990
ATOM 2013 C ASP A 129	-30.174	-26.376	46.405	1.00	63.02	C0
ANISOU 2013 C ASP A 129	7970	10090	5880	1030	-310	2230
ATOM 2014 O ASP A 129	-29.576	-26.444	47.492	1.00	64.55	O0
ANISOU 2014 O ASP A 129	8100	10520	5910	1120	-400	2330
ATOM 2015 CB ASP A 129	-30.423	-23.895	46.798	1.00	62.53	C0
ANISOU 2015 CB ASP A 129	7660	10340	5760	700	-380	1890
ATOM 2016 CG ASP A 129	-30.284	-22.469	46.281	1.00	62.12	C0
ANISOU 2016 CG ASP A 129	7450	10380	5770	530	-400	1660
ATOM 2017 OD1 ASP A 129	-29.819	-22.287	45.137	1.00	61.63	O0
ANISOU 2017 OD1 ASP A 129	7340	10230	5850	560	-380	1580
ATOM 2018 OD2 ASP A 129	-30.634	-21.542	47.041	1.00	64.38	O0
ANISOU 2018 OD2 ASP A 129	7690	10820	5950	380	-430	1550
ATOM 2019 H ASP A 129	-32.232	-24.774	45.184	1.00	57.47	H0
ANISOU 2019 H ASP A 129	7300	9150	5380	600	-170	1860
ATOM 2020 HA ASP A 129	-29.464	-24.830	45.226	1.00	61.07	H0
ANISOU 2020 HA ASP A 129	7470	9960	5770	910	-350	1950
ATOM 2021 HB2 ASP A 129	-31.299	-23.977	47.228	1.00	62.27	H0
ANISOU 2021 HB2 ASP A 129	7720	10250	5690	610	-340	1900

ATOM 2022 HB3 ASP A 129	-29.737	-24.029	47.482	1.00	63.98	H0	
ANISOU 2022 HB3 ASP A 129	7770	10710	5830	780	-460	1960	H0
ATOM 2023 N THR A 130	-30.705	-27.434	45.777	1.00	62.99	N0	
ANISOU 2023 N THR A 130	8160	9790	5990	1090	-200	2320	N0
ATOM 2024 CA THR A 130	-30.692	-28.832	46.293	1.00	64.98	C0	
ANISOU 2024 CA THR A 130	8600	9920	6170	1260	-160	2550	C0
ATOM 2025 C THR A 130	-30.003	-29.752	45.277	1.00	65.74	C0	
ANISOU 2025 C THR A 130	8750	9820	6410	1460	-110	2630	C0
ATOM 2026 O THR A 130	-29.701	-29.284	44.157	1.00	63.48	O0	
ANISOU 2026 O THR A 130	8360	9500	6260	1430	-110	2490	O0
ATOM 2027 CB THR A 130	-32.113	-29.322	46.606	1.00	64.49	C0	
ANISOU 2027 CB THR A 130	8760	9650	6100	1120	-40	2590	C0
ATOM 2028 OG1 THR A 130	-32.844	-29.421	45.382	1.00	62.41	O0	
ANISOU 2028 OG1 THR A 130	8570	9120	6020	1010	60	2470	O0
ATOM 2029 CG2 THR A 130	-32.852	-28.416	47.567	1.00	63.85	C0	
ANISOU 2029 CG2 THR A 130	8620	9750	5890	920	-70	2500	C0
ATOM 2030 H THR A 130	-31.116	-27.374	44.969	1.00	61.66	H0	
ANISOU 2030 H THR A 130	8030	9460	5940	1020	-140	2240	H0
ATOM 2031 HA THR A 130	-30.169	-28.845	47.128	1.00	66.43	H0	
ANISOU 2031 HA THR A 130	8730	10290	6230	1350	-240	2640	H0
ATOM 2032 HB THR A 130	-32.046	-30.221	47.008	1.00	66.06	H0	
ANISOU 2032 HB THR A 130	9090	9770	6240	1230	-20	2750	H0
ATOM 2033 HG21 THR A 130	-32.308	-28.272	48.362	1.00	65.07	H0	
ANISOU 2033 HG21 THR A 130	8710	10100	5920	980	-150	2560	H0
ATOM 2034 HG22 THR A 130	-33.695	-28.831	47.822	1.00	64.02	H0	
ANISOU 2034 HG22 THR A 130	8790	9650	5890	840	0	2540	H0
ATOM 2035 HG23 THR A 130	-33.029	-27.560	47.137	1.00	62.32	H0	
ANISOU 2035 HG23 THR A 130	8330	9590	5760	800	-90	2340	H0
ATOM 2036 N GLU A 131	-29.784	-31.014	45.664	1.00	68.28	N0	
ANISOU 2036 N GLU A 131	9240	10030	6680	1660	-80	2850	N0
ATOM 2037 CA GLU A 131	-29.118	-32.070	44.850	1.00	69.68	C0	
ANISOU 2037 CA GLU A 131	9500	10010	6960	1890	-20	2950	C0
ATOM 2038 C GLU A 131	-29.969	-32.413	43.620	1.00	67.18	C0	
ANISOU 2038 C GLU A 131	9340	9350	6830	1760	120	2850	C0
ATOM 2039 O GLU A 131	-29.378	-32.700	42.562	1.00	66.41	O0	
ANISOU 2039 O GLU A 131	9220	9140	6870	1870	150	2820	O0
ATOM 2040 CB GLU A 131	-28.886	-33.327	45.692	1.00	73.20	C0	
ANISOU 2040 CB GLU A 131	10140	10380	7300	2110	10	3220	C0
ATOM 2041 CG GLU A 131	-27.845	-33.149	46.785	1.00	76.27	C0	
ANISOU 2041 CG GLU A 131	10360	11120	7500	2300	-140	3340	C0
ATOM 2042 CD GLU A 131	-26.406	-33.385	46.350	1.00	78.11	C0	
ANISOU 2042 CD GLU A 131	10440	11470	7760	2580	-220	3400	C0
ATOM 2043 OE1 GLU A 131	-26.022	-32.885	45.272	1.00	76.94	O0	
ANISOU 2043 OE1 GLU A 131	10150	11320	7760	2540	-210	3230	O0
ATOM 2044 OE2 GLU A 131	-25.674	-34.074	47.091	1.00	80.94	O0	
ANISOU 2044 OE2 GLU A 131	10820	11940	7990	2840	-270	3610	O0
ATOM 2045 H GLU A 131	-30.040	-31.311	46.487	1.00	69.36	H0	
ANISOU 2045 H GLU A 131	9450	10200	6700	1670	-80	2950	H0
ATOM 2046 HA GLU A 131	-28.248	-31.724	44.545	1.00	69.61	H0	
ANISOU 2046 HA GLU A 131	9330	10140	6980	1980	-90	2910	H0
ATOM 2047 HB2 GLU A 131	-29.736	-33.591	46.102	1.00	73.34	H0	
ANISOU 2047 HB2 GLU A 131	10300	10290	7270	2000	70	3250	H0
ATOM 2048 HB3 GLU A 131	-28.601	-34.053	45.098	1.00	73.95	H0	
ANISOU 2048 HB3 GLU A 131	10320	10300	7480	2250	70	3280	H0

ATOM 2049	HG2	GLU	A	131	-27.913	-32.238	47.141	1.00	75.21	H0	
ANISOU 2049	HG2	GLU	A	131	10080	11190	7300	2160	-220	3230	H0
ATOM 2050	HG3	GLU	A	131	-28.050	-33.767	47.519	1.00	77.72	H0	
ANISOU 2050	HG3	GLU	A	131	10690	11270	7580	2370	-120	3500	H0
ATOM 2051	N	SER	A	132	-31.298	-32.417	43.762	1.00	65.68	N0	
ANISOU 2051	N	SER	A	132	9290	9020	6650	1540	210	2800	N0
ATOM 2052	CA	SER	A	132	-32.267	-32.698	42.667	1.00	64.29	C0	
ANISOU 2052	CA	SER	A	132	9250	8550	6630	1380	340	2690	C0
ATOM 2053	C	SER	A	132	-32.289	-31.529	41.670	1.00	60.81	C0	
ANISOU 2053	C	SER	A	132	8620	8190	6300	1240	300	2460	C0
ATOM 2054	O	SER	A	132	-32.485	-31.781	40.466	1.00	59.72	O0	
ANISOU 2054	O	SER	A	132	8540	7850	6310	1210	380	2370	O0
ATOM 2055	CB	SER	A	132	-33.646	-32.981	43.216	1.00	64.75	C0	
ANISOU 2055	CB	SER	A	132	9480	8490	6630	1180	430	2700	C0
ATOM 2056	OG	SER	A	132	-34.313	-31.777	43.578	1.00	63.73	O0	
ANISOU 2056	OG	SER	A	132	9210	8550	6450	970	380	2550	O0
ATOM 2057	H	SER	A	132	-31.714	-32.247	44.554	1.00	66.10	H0	
ANISOU 2057	H	SER	A	132	9360	9150	6600	1470	190	2830	H0
ATOM 2058	HA	SER	A	132	-31.952	-33.508	42.184	1.00	65.08	H0	
ANISOU 2058	HA	SER	A	132	9460	8480	6790	1510	400	2760	H0
ATOM 2059	HB2	SER	A	132	-34.175	-33.456	42.535	1.00	64.45	H0	
ANISOU 2059	HB2	SER	A	132	9560	8240	6680	1120	530	2670	H0
ATOM 2060	HB3	SER	A	132	-33.570	-33.564	44.005	1.00	66.47	H0	
ANISOU 2060	HB3	SER	A	132	9800	8700	6750	1270	440	2850	H0
ATOM 2061	N	GLY	A	133	-32.102	-30.299	42.158	1.00	59.23	N0	
ANISOU 2061	N	GLY	A	133	8220	8260	6030	1160	190	2360	N0
ATOM 2062	CA	GLY	A	133	-32.160	-29.068	41.347	1.00	56.54	C0	
ANISOU 2062	CA	GLY	A	133	7710	8000	5770	1020	160	2150	C0
ATOM 2063	C	GLY	A	133	-33.590	-28.699	40.982	1.00	54.36	C0	
ANISOU 2063	C	GLY	A	133	7510	7600	5550	780	230	2020	C0
ATOM 2064	O	GLY	A	133	-34.522	-29.412	41.405	1.00	54.59	O0	
ANISOU 2064	O	GLY	A	133	7710	7490	5540	720	310	2090	O0
ATOM 2065	H	GLY	A	133	-31.931	-30.149	43.040	1.00	60.10	H0	
ANISOU 2065	H	GLY	A	133	8290	8520	6020	1190	140	2420	H0
ATOM 2066	HA2	GLY	A	133	-31.747	-28.325	41.855	1.00	56.48	H0	
ANISOU 2066	HA2	GLY	A	133	7560	8200	5690	1010	70	2110	H0
ATOM 2067	HA3	GLY	A	133	-31.636	-29.205	40.520	1.00	56.30	H0	
ANISOU 2067	HA3	GLY	A	133	7650	7910	5830	1100	170	2120	H0
ATOM 2068	N	ALA	A	134	-33.759	-27.615	40.225	1.00	52.02	N0	
ANISOU 2068	N	ALA	A	134	7090	7350	5330	660	220	1830	N0
ATOM 2069	CA	ALA	A	134	-35.046	-27.188	39.629	1.00	50.79	C0	
ANISOU 2069	CA	ALA	A	134	6970	7090	5240	470	280	1690	C0
ATOM 2070	C	ALA	A	134	-35.197	-27.814	38.240	1.00	50.39	C0	
ANISOU 2070	C	ALA	A	134	7010	6800	5330	480	360	1650	C0
ATOM 2071	O	ALA	A	134	-34.168	-28.131	37.611	1.00	50.76	O0	
ANISOU 2071	O	ALA	A	134	7030	6820	5440	630	350	1680	O0
ATOM 2072	CB	ALA	A	134	-35.110	-25.682	39.551	1.00	49.33	C0	
ANISOU 2072	CB	ALA	A	134	6620	7070	5050	350	220	1530	C0
ATOM 2073	H	ALA	A	134	-33.077	-27.051	40.010	1.00	51.90	H0	
ANISOU 2073	H	ALA	A	134	6950	7440	5320	700	160	1780	H0
ATOM 2074	HA	ALA	A	134	-35.779	-27.510	40.201	1.00	51.20	H0	
ANISOU 2074	HA	ALA	A	134	7110	7100	5240	400	320	1730	H0
ATOM 2075	HB1	ALA	A	134	-35.972	-25.412	39.194	1.00	48.35	H0	
ANISOU 2075	HB1	ALA	A	134	6530	6880	4960	240	260	1450	H0

ATOM 2076 HB2 ALA A 134	-34.995	-25.305	40.439	1.00	49.76	H0	
ANISOU 2076 HB2 ALA A 134	6630	7270	5010	340	170	1550	H0
ATOM 2077 HB3 ALA A 134	-34.403	-25.357	38.968	1.00	48.93	H0	
ANISOU 2077 HB3 ALA A 134	6490	7050	5050	410	190	1490	H0
ATOM 2078 N THR A 135	-36.437	-27.980	37.780	1.00	49.75	N0	
ANISOU 2078 N THR A 135	7020	6580	5300	330	450	1580	N0
ATOM 2079 CA THR A 135	-36.758	-28.343	36.378	1.00	49.56	C0	
ANISOU 2079 CA THR A 135	7060	6370	5400	290	520	1500	C0
ATOM 2080 C THR A 135	-37.610	-27.224	35.773	1.00	47.99	C0	
ANISOU 2080 C THR A 135	6770	6230	5240	130	510	1320	C0
ATOM 2081 O THR A 135	-38.828	-27.222	35.994	1.00	48.21	O0	
ANISOU 2081 O THR A 135	6840	6230	5240	-10	550	1280	O0
ATOM 2082 CB THR A 135	-37.391	-29.733	36.284	1.00	50.70	C0	
ANISOU 2082 CB THR A 135	7420	6280	5570	270	640	1580	C0
ATOM 2083 OG1 THR A 135	-36.469	-30.645	36.881	1.00	52.51	O0	
ANISOU 2083 OG1 THR A 135	7730	6470	5760	450	640	1760	O0
ATOM 2084 CG2 THR A 135	-37.673	-30.150	34.857	1.00	50.19	C0	
ANISOU 2084 CG2 THR A 135	7420	6030	5620	230	710	1490	C0
ATOM 2085 H THR A 135	-37.181	-27.883	38.297	1.00	49.83	H0	
ANISOU 2085 H THR A 135	7060	6610	5260	230	460	1570	H0
ATOM 2086 HA THR A 135	-35.909	-28.372	35.883	1.00	49.53	H0	
ANISOU 2086 HA THR A 135	7020	6360	5450	400	500	1510	H0
ATOM 2087 HB THR A 135	-38.234	-29.735	36.798	1.00	50.78	H0	
ANISOU 2087 HB THR A 135	7470	6300	5530	160	660	1580	H0
ATOM 2088 HG21 THR A 135	-38.437	-29.651	34.516	1.00	49.16	H0	
ANISOU 2088 HG21 THR A 135	7250	5930	5510	100	720	1380	H0
ATOM 2089 HG22 THR A 135	-37.872	-31.103	34.829	1.00	51.23	H0	
ANISOU 2089 HG22 THR A 135	7690	6010	5760	230	790	1550	H0
ATOM 2090 HG23 THR A 135	-36.893	-29.965	34.304	1.00	49.89	H0	
ANISOU 2090 HG23 THR A 135	7320	6000	5630	320	680	1470	H0
ATOM 2091 N CYS A 136	-36.956	-26.304	35.063	1.00	47.32	N0	
ANISOU 2091 N CYS A 136	6560	6220	5200	160	460	1230	N0
ATOM 2092 CA CYS A 136	-37.561	-25.202	34.273	1.00	46.34	C0	
ANISOU 2092 CA CYS A 136	6350	6130	5120	50	450	1070	C0
ATOM 2093 C CYS A 136	-37.970	-25.737	32.893	1.00	46.29	C0	
ANISOU 2093 C CYS A 136	6420	5950	5220	20	520	1010	C0
ATOM 2094 O CYS A 136	-37.069	-26.116	32.121	1.00	47.35	O0	
ANISOU 2094 O CYS A 136	6560	6010	5420	120	530	1020	O0
ATOM 2095 CB CYS A 136	-36.558	-24.060	34.139	1.00	46.00	C0	
ANISOU 2095 CB CYS A 136	6160	6230	5090	100	370	1010	C0
ATOM 2096 SG CYS A 136	-37.138	-22.680	33.122	1.00	44.69	S0	
ANISOU 2096 SG CYS A 136	5920	6090	4970	0	370	840	S0
ATOM 2097 H CYS A 136	-36.046	-26.291	35.013	1.00	47.69	H0	
ANISOU 2097 H CYS A 136	6560	6300	5260	260	420	1260	H0
ATOM 2098 HA CYS A 136	-38.360	-24.876	34.747	1.00	46.10	H0	
ANISOU 2098 HA CYS A 136	6320	6150	5050	-40	450	1040	H0
ATOM 2099 HB2 CYS A 136	-36.345	-23.718	35.031	1.00	46.37	H0	
ANISOU 2099 HB2 CYS A 136	6160	6400	5060	110	330	1040	H0
ATOM 2100 HB3 CYS A 136	-35.731	-24.407	33.746	1.00	46.40	H0	
ANISOU 2100 HB3 CYS A 136	6200	6250	5170	190	370	1050	H0
ATOM 2101 N ARG A 137	-39.272	-25.766	32.593	1.00	45.97	N0	
ANISOU 2101 N ARG A 137	6420	5860	5180	-120	560	940	N0
ATOM 2102 CA ARG A 137	-39.815	-26.230	31.286	1.00	45.56	C0	
ANISOU 2102 CA ARG A 137	6430	5670	5210	-170	630	860	C0

ATOM 2103 C ARG A 137	-40.106	-25.021	30.383	1.00	43.56		C0
ANISOU 2103 C ARG A 137	6080	5490	4980	-220	590	720	C0
ATOM 2104 O ARG A 137	-40.927	-24.173	30.780	1.00	42.85		O0
ANISOU 2104 O ARG A 137	5920	5510	4850	-300	560	660	O0
ATOM 2105 CB ARG A 137	-41.054	-27.101	31.511	1.00	46.58		C0
ANISOU 2105 CB ARG A 137	6670	5710	5310	-300	700	860	C0
ATOM 2106 CG ARG A 137	-40.761	-28.348	32.331	1.00	49.15		C0
ANISOU 2106 CG ARG A 137	7140	5930	5610	-250	760	1010	C0
ATOM 2107 CD ARG A 137	-41.923	-29.314	32.445	1.00	50.74		C0
ANISOU 2107 CD ARG A 137	7470	6020	5790	-400	860	1010	C0
ATOM 2108 NE ARG A 137	-41.808	-30.114	33.661	1.00	53.25		N0
ANISOU 2108 NE ARG A 137	7900	6290	6040	-370	900	1150	N0
ATOM 2109 CZ ARG A 137	-41.085	-31.228	33.799	1.00	54.79		C0
ANISOU 2109 CZ ARG A 137	8240	6320	6250	-260	950	1280	C0
ATOM 2110 NH1 ARG A 137	-41.065	-31.852	34.967	1.00	55.78		N0
ANISOU 2110 NH1 ARG A 137	8470	6420	6300	-230	980	1420	N0
ATOM 2111 NH2 ARG A 137	-40.387	-31.717	32.785	1.00	54.75		N0
ANISOU 2111 NH2 ARG A 137	8290	6180	6330	-170	980	1270	N0
ATOM 2112 H ARG A 137	-39.915	-25.498	33.180	1.00	45.86		H0
ANISOU 2112 H ARG A 137	6400	5910	5120	-180	560	920	H0
ATOM 2113 HA ARG A 137	-39.128	-26.782	30.852	1.00	45.93		H0
ANISOU 2113 HA ARG A 137	6520	5630	5300	-90	650	900	H0
ATOM 2114 HB2 ARG A 137	-41.735	-26.568	31.972	1.00	46.40		H0
ANISOU 2114 HB2 ARG A 137	6600	5780	5240	-370	690	830	H0
ATOM 2115 HB3 ARG A 137	-41.415	-27.369	30.640	1.00	46.59		H0
ANISOU 2115 HB3 ARG A 137	6710	5640	5360	-350	740	800	H0
ATOM 2116 HG2 ARG A 137	-40.002	-28.821	31.928	1.00	49.46		H0
ANISOU 2116 HG2 ARG A 137	7220	5880	5690	-160	770	1050	H0
ATOM 2117 HG3 ARG A 137	-40.492	-28.077	33.235	1.00	49.29		H0
ANISOU 2117 HG3 ARG A 137	7120	6040	5570	-220	720	1070	H0
ATOM 2118 HD2 ARG A 137	-42.764	-28.810	32.466	1.00	50.27		H0
ANISOU 2118 HD2 ARG A 137	7350	6040	5710	-510	850	930	H0
ATOM 2119 HD3 ARG A 137	-41.940	-29.903	31.661	1.00	51.10		H0
ANISOU 2119 HD3 ARG A 137	7590	5940	5890	-410	910	980	H0
ATOM 2120 HE ARG A 137	-42.246	-29.837	34.363	1.00	53.06		H0
ANISOU 2120 HE ARG A 137	7850	6350	5960	-430	880	1160	H0
ATOM 2121 HH11 ARG A 137	-41.528	-31.533	35.643	1.00	55.87		H0
ANISOU 2121 HH11 ARG A 137	8450	6530	6250	-300	960	1430	H0
ATOM 2122 HH12 ARG A 137	-40.593	-32.588	35.064	1.00	57.00		H0
ANISOU 2122 HH12 ARG A 137	8730	6470	6460	-150	1020	1520	H0
ATOM 2123 HH21 ARG A 137	-40.389	-31.310	32.006	1.00	53.89		H0
ANISOU 2123 HH21 ARG A 137	8120	6090	6270	-180	960	1180	H0
ATOM 2124 HH22 ARG A 137	-39.915	-32.454	32.894	1.00	55.86		H0
ANISOU 2124 HH22 ARG A 137	8530	6210	6480	-80	1020	1360	H0
ATOM 2125 N ILE A 138	-39.446	-24.958	29.219	1.00	41.84		N0
ANISOU 2125 N ILE A 138	5850	5210	4830	-160	590	680	N0
ATOM 2126 CA ILE A 138	-39.640	-23.921	28.162	1.00	41.07		C0
ANISOU 2126 CA ILE A 138	5680	5160	4760	-190	570	560	C0
ATOM 2127 C ILE A 138	-40.330	-24.578	26.956	1.00	40.99		C0
ANISOU 2127 C ILE A 138	5740	5040	4790	-250	630	500	C0
ATOM 2128 O ILE A 138	-39.810	-25.601	26.463	1.00	40.98		O0
ANISOU 2128 O ILE A 138	5830	4900	4840	-210	680	530	O0
ATOM 2129 CB ILE A 138	-38.290	-23.280	27.767	1.00	41.18		C0
ANISOU 2129 CB ILE A 138	5620	5210	4810	-80	530	560	C0

ATOM 2130 CG1 ILE A 138	-37.586	-22.636	28.964	1.00	41.54	C0	
ANISOU 2130 CG1 ILE A 138	5590	5390	4810	-40	470	610	C0
ATOM 2131 CG2 ILE A 138	-38.469	-22.285	26.634	1.00	39.81	C0	
ANISOU 2131 CG2 ILE A 138	5410	5060	4660	-110	520	460	C0
ATOM 2132 CD1 ILE A 138	-36.119	-22.360	28.730	1.00	41.89	C0	
ANISOU 2132 CD1 ILE A 138	5560	5470	4880	60	450	630	C0
ATOM 2133 H ILE A 138	-38.812	-25.571	28.993	1.00	42.77	H0	
ANISOU 2133 H ILE A 138	6010	5260	4980	-90	610	730	H0
ATOM 2134 HA ILE A 138	-40.220	-23.224	28.513	1.00	40.62	H0	
ANISOU 2134 HA ILE A 138	5580	5190	4670	-240	540	530	H0
ATOM 2135 HB ILE A 138	-37.705	-24.005	27.436	1.00	41.59	H0	
ANISOU 2135 HB ILE A 138	5720	5180	4900	-20	560	600	H0
ATOM 2136 HG12 ILE A 138	-38.035	-21.790	29.177	1.00	40.98	H0	
ANISOU 2136 HG12 ILE A 138	5470	5390	4710	-90	450	560	H0
ATOM 2137 HG13 ILE A 138	-37.674	-23.228	29.741	1.00	42.21	H0	
ANISOU 2137 HG13 ILE A 138	5710	5470	4860	-30	480	680	H0
ATOM 2138 HG21 ILE A 138	-38.656	-22.761	25.806	1.00	39.98	H0	
ANISOU 2138 HG21 ILE A 138	5470	5000	4710	-120	560	430	H0
ATOM 2139 HG22 ILE A 138	-37.656	-21.761	26.525	1.00	39.73	H0	
ANISOU 2139 HG22 ILE A 138	5350	5090	4660	-60	500	450	H0
ATOM 2140 HG23 ILE A 138	-39.211	-21.688	26.838	1.00	39.51	H0	
ANISOU 2140 HG23 ILE A 138	5340	5080	4590	-170	510	420	H0
ATOM 2141 HD11 ILE A 138	-35.695	-23.152	28.355	1.00	42.35	H0	
ANISOU 2141 HD11 ILE A 138	5670	5450	4970	120	480	670	H0
ATOM 2142 HD12 ILE A 138	-35.692	-22.135	29.574	1.00	42.17	H0	
ANISOU 2142 HD12 ILE A 138	5550	5600	4870	90	410	670	H0
ATOM 2143 HD13 ILE A 138	-36.021	-21.617	28.110	1.00	41.17	H0	
ANISOU 2143 HD13 ILE A 138	5440	5400	4800	40	440	560	H0
ATOM 2144 N LYS A 139	-41.447	-24.006	26.495	1.00	40.02	N0	
ANISOU 2144 N LYS A 139	5580	4970	4650	-340	620	400	N0
ATOM 2145 CA LYS A 139	-42.219	-24.496	25.323	1.00	40.56	C0	
ANISOU 2145 CA LYS A 139	5700	4980	4740	-420	670	320	C0
ATOM 2146 C LYS A 139	-42.022	-23.522	24.158	1.00	38.84	C0	
ANISOU 2146 C LYS A 139	5420	4800	4540	-380	630	240	C0
ATOM 2147 O LYS A 139	-42.222	-22.310	24.368	1.00	36.59	O0	
ANISOU 2147 O LYS A 139	5050	4630	4220	-370	580	220	O0
ATOM 2148 CB LYS A 139	-43.704	-24.641	25.666	1.00	42.19	C0	
ANISOU 2148 CB LYS A 139	5890	5240	4890	-550	680	280	C0
ATOM 2149 CG LYS A 139	-44.067	-25.898	26.444	1.00	44.82	C0	
ANISOU 2149 CG LYS A 139	6330	5490	5210	-630	750	340	C0
ATOM 2150 CD LYS A 139	-45.561	-26.107	26.592	1.00	46.56	C0	
ANISOU 2150 CD LYS A 139	6530	5770	5390	-780	780	270	C0
ATOM 2151 CE LYS A 139	-45.893	-27.372	27.354	1.00	49.36	C0	
ANISOU 2151 CE LYS A 139	7000	6030	5720	-870	860	330	C0
ATOM 2152 NZ LYS A 139	-47.350	-27.510	27.588	1.00	50.94	N0	
ANISOU 2152 NZ LYS A 139	7170	6320	5870	-1040	900	260	N0
ATOM 2153 H LYS A 139	-41.807	-23.263	26.880	1.00	39.80	H0	
ANISOU 2153 H LYS A 139	5500	5030	4590	-360	590	380	H0
ATOM 2154 HA LYS A 139	-41.868	-25.376	25.064	1.00	41.16	H0	
ANISOU 2154 HA LYS A 139	5850	4940	4840	-410	710	350	H0
ATOM 2155 HB2 LYS A 139	-43.979	-23.860	26.190	1.00	41.78	H0	
ANISOU 2155 HB2 LYS A 139	5770	5290	4810	-550	640	270	H0
ATOM 2156 HB3 LYS A 139	-44.217	-24.635	24.831	1.00	42.14	H0	
ANISOU 2156 HB3 LYS A 139	5880	5240	4890	-600	690	200	H0

ATOM 2157 HG2 LYS A 139	-43.680	-26.675	25.987	1.00	45.28	H0
ANISOU 2157 HG2 LYS A 139	6470	5430	5310	-610	790	350
ATOM 2158 HG3 LYS A 139	-43.663	-25.843	27.337	1.00	44.88	H0
ANISOU 2158 HG3 LYS A 139	6330	5510	5210	-580	730	410
ATOM 2159 HD2 LYS A 139	-45.948	-25.339	27.063	1.00	46.15	H0
ANISOU 2159 HD2 LYS A 139	6400	5840	5300	-780	740	250
ATOM 2160 HD3 LYS A 139	-45.969	-26.155	25.701	1.00	46.57	H0
ANISOU 2160 HD3 LYS A 139	6520	5780	5390	-830	790	190
ATOM 2161 HE2 LYS A 139	-45.578	-28.147	26.852	1.00	49.80	H0
ANISOU 2161 HE2 LYS A 139	7150	5960	5810	-880	910	340
ATOM 2162 HE3 LYS A 139	-45.434	-27.363	28.215	1.00	49.36	H0
ANISOU 2162 HE3 LYS A 139	7020	6030	5710	-820	850	410
ATOM 2163 HZ1 LYS A 139	-47.644	-26.826	28.107	1.00	50.22	H0
ANISOU 2163 HZ1 LYS A 139	7000	6340	5750	-1030	860	250
ATOM 2164 HZ2 LYS A 139	-47.521	-28.296	28.007	1.00	51.54	H0
ANISOU 2164 HZ2 LYS A 139	7330	6320	5940	-1110	960	290
ATOM 2165 HZ3 LYS A 139	-47.791	-27.493	26.796	1.00	50.60	H0
ANISOU 2165 HZ3 LYS A 139	7100	6290	5830	-1090	900	180
ATOM 2166 N ILE A 140	-41.644	-24.047	22.987	1.00	38.46	N0
ANISOU 2166 N ILE A 140	5430	4660	4530	-370	670	210
ATOM 2167 CA ILE A 140	-41.410	-23.268	21.733	1.00	37.46	C0
ANISOU 2167 CA ILE A 140	5270	4560	4410	-340	650	140
ATOM 2168 C ILE A 140	-42.352	-23.797	20.650	1.00	36.66	C0
ANISOU 2168 C ILE A 140	5210	4430	4290	-430	680	60
ATOM 2169 O ILE A 140	-42.400	-25.029	20.457	1.00	36.60	O0
ANISOU 2169 O ILE A 140	5290	4310	4300	-480	740	50
ATOM 2170 CB ILE A 140	-39.947	-23.359	21.253	1.00	38.18	C0
ANISOU 2170 CB ILE A 140	5380	4570	4550	-230	670	180
ATOM 2171 CG1 ILE A 140	-38.935	-23.181	22.387	1.00	39.31	C0
ANISOU 2171 CG1 ILE A 140	5480	4740	4710	-150	640	260
ATOM 2172 CG2 ILE A 140	-39.703	-22.367	20.121	1.00	37.54	C0
ANISOU 2172 CG2 ILE A 140	5260	4540	4470	-210	650	110
ATOM 2173 CD1 ILE A 140	-38.700	-21.745	22.776	1.00	39.47	C0
ANISOU 2173 CD1 ILE A 140	5410	4890	4700	-130	580	250
ATOM 2174 H ILE A 140	-41.503	-24.940	22.880	1.00	39.15	H0
ANISOU 2174 H ILE A 140	5580	4650	4640	-380	710	230
ATOM 2175 HA ILE A 140	-41.622	-22.335	21.904	1.00	36.87	H0
ANISOU 2175 HA ILE A 140	5130	4570	4310	-330	610	130
ATOM 2176 HB ILE A 140	-39.816	-24.268	20.884	1.00	38.84	H0
ANISOU 2176 HB ILE A 140	5530	4570	4660	-240	710	180
ATOM 2177 HG12 ILE A 140	-39.248	-23.674	23.174	1.00	39.68	H0
ANISOU 2177 HG12 ILE A 140	5550	4780	4740	-170	650	310
ATOM 2178 HG13 ILE A 140	-38.080	-23.574	22.108	1.00	39.59	H0
ANISOU 2178 HG13 ILE A 140	5540	4720	4780	-90	660	290
ATOM 2179 HG21 ILE A 140	-40.092	-22.709	19.297	1.00	37.73	H0
ANISOU 2179 HG21 ILE A 140	5320	4530	4490	-240	670	60
ATOM 2180 HG22 ILE A 140	-38.746	-22.243	19.996	1.00	37.50	H0
ANISOU 2180 HG22 ILE A 140	5250	4510	4490	-150	650	140
ATOM 2181 HG23 ILE A 140	-40.113	-21.512	20.340	1.00	37.07	H0
ANISOU 2181 HG23 ILE A 140	5150	4550	4380	-220	610	100
ATOM 2182 HD11 ILE A 140	-38.060	-21.341	22.165	1.00	38.95	H0
ANISOU 2182 HD11 ILE A 140	5330	4820	4660	-100	590	230
ATOM 2183 HD12 ILE A 140	-38.349	-21.707	23.683	1.00	39.33	H0
ANISOU 2183 HD12 ILE A 140	5360	4900	4680	-110	560	300

ATOM 2184 HD13 ILE A 140	-39.539	-21.257	22.734	1.00	38.83	H0	
ANISOU 2184 HD13 ILE A 140	5310	4850	4590	-180	570	210	H0
ATOM 2185 N GLY A 141	-43.022	-22.892	19.937	1.00	35.20	N0	
ANISOU 2185 N GLY A 141	4960	4350	4060	-440	640	-10	N0
ATOM 2186 CA GLY A 141	-43.909	-23.239	18.814	1.00	35.23	C0	
ANISOU 2186 CA GLY A 141	4980	4370	4030	-520	650	-110	C0
ATOM 2187 C GLY A 141	-44.212	-22.029	17.956	1.00	34.31	C0	
ANISOU 2187 C GLY A 141	4800	4370	3870	-480	600	-150	C0
ATOM 2188 O GLY A 141	-43.835	-20.907	18.360	1.00	33.76	O0	
ANISOU 2188 O GLY A 141	4690	4340	3800	-400	560	-120	O0
ATOM 2189 H GLY A 141	-42.967	-21.999	20.110	1.00	34.81	H0	
ANISOU 2189 H GLY A 141	4860	4360	4000	-400	600	-10	H0
ATOM 2190 HA2 GLY A 141	-43.474	-23.934	18.260	1.00	35.64	H0	
ANISOU 2190 HA2 GLY A 141	5100	4330	4110	-530	700	-120	H0
ATOM 2191 HA3 GLY A 141	-44.753	-23.611	19.171	1.00	35.69	H0	
ANISOU 2191 HA3 GLY A 141	5030	4470	4070	-600	660	-130	H0
ATOM 2192 N SER A 142	-44.869	-22.255	16.817	1.00	33.59	N0	
ANISOU 2192 N SER A 142	4710	4310	3730	-530	600	-230	N0
ATOM 2193 CA SER A 142	-45.334	-21.205	15.877	1.00	33.63	C0	
ANISOU 2193 CA SER A 142	4670	4430	3680	-490	550	-280	C0
ATOM 2194 C SER A 142	-46.398	-20.350	16.565	1.00	33.59	C0	
ANISOU 2194 C SER A 142	4570	4570	3620	-480	500	-280	C0
ATOM 2195 O SER A 142	-47.265	-20.927	17.236	1.00	34.70	O0	
ANISOU 2195 O SER A 142	4670	4770	3750	-570	500	-300	O0
ATOM 2196 CB SER A 142	-45.880	-21.814	14.607	1.00	34.14	C0	
ANISOU 2196 CB SER A 142	4750	4530	3690	-560	560	-370	C0
ATOM 2197 OG SER A 142	-46.581	-20.842	13.852	1.00	33.71	O0	
ANISOU 2197 OG SER A 142	4640	4620	3550	-510	500	-400	O0
ATOM 2198 H SER A 142	-45.081	-23.093	16.530	1.00	34.52	H0	
ANISOU 2198 H SER A 142	4870	4390	3850	-600	640	-270	H0
ATOM 2199 HA SER A 142	-44.560	-20.626	15.648	1.00	33.06	H0	
ANISOU 2199 HA SER A 142	4610	4320	3620	-410	550	-250	H0
ATOM 2200 HB2 SER A 142	-45.138	-22.176	14.071	1.00	34.14	H0	
ANISOU 2200 HB2 SER A 142	4820	4440	3720	-550	600	-370	H0
ATOM 2201 HB3 SER A 142	-46.487	-22.555	14.832	1.00	34.71	H0	
ANISOU 2201 HB3 SER A 142	4830	4610	3750	-650	580	-400	H0
ATOM 2202 N TRP A 143	-46.363	-19.029	16.377	1.00	33.02	N0	
ANISOU 2202 N TRP A 143	4460	4560	3520	-370	450	-260	N0
ATOM 2203 CA TRP A 143	-47.391	-18.128	16.956	1.00	32.90	C0	
ANISOU 2203 CA TRP A 143	4360	4690	3460	-340	410	-270	C0
ATOM 2204 C TRP A 143	-48.701	-18.214	16.159	1.00	33.59	C0	
ANISOU 2204 C TRP A 143	4380	4930	3460	-370	370	-350	C0
ATOM 2205 O TRP A 143	-49.778	-18.119	16.791	1.00	32.87	O0	
ANISOU 2205 O TRP A 143	4190	4970	3330	-400	350	-370	O0
ATOM 2206 CB TRP A 143	-46.892	-16.686	17.062	1.00	32.52	C0	
ANISOU 2206 CB TRP A 143	4320	4630	3410	-210	390	-230	C0
ATOM 2207 CG TRP A 143	-47.800	-15.867	17.922	1.00	33.27	C0	
ANISOU 2207 CG TRP A 143	4340	4830	3470	-170	360	-230	C0
ATOM 2208 CD1 TRP A 143	-48.576	-14.814	17.536	1.00	33.91	C0	
ANISOU 2208 CD1 TRP A 143	4380	5020	3490	-70	320	-240	C0
ATOM 2209 CD2 TRP A 143	-48.100	-16.103	19.310	1.00	32.94	C0	
ANISOU 2209 CD2 TRP A 143	4250	4810	3450	-220	370	-220	C0
ATOM 2210 NE1 TRP A 143	-49.312	-14.359	18.596	1.00	34.50	N0	
ANISOU 2210 NE1 TRP A 143	4390	5170	3550	-60	320	-250	N0

ATOM 2211 CE2 TRP A 143	-49.035 -15.123 19.702	1.00 33.90	C0
ANISOU 2211 CE2 TRP A 143	4310 5050 3520	-150 340 -230	C0
ATOM 2212 CE3 TRP A 143	-47.647 -17.019 20.265	1.00 33.38	C0
ANISOU 2212 CE3 TRP A 143	4330 4800 3550	-300 400 -190	C0
ATOM 2213 CZ2 TRP A 143	-49.526 -15.041 21.009	1.00 34.51	C0
ANISOU 2213 CZ2 TRP A 143	4330 5190 3600	-180 350 -230	C0
ATOM 2214 CZ3 TRP A 143	-48.133 -16.943 21.556	1.00 33.97	C0
ANISOU 2214 CZ3 TRP A 143	4360 4930 3620	-330 400 -180	C0
ATOM 2215 CH2 TRP A 143	-49.064 -15.966 21.920	1.00 34.15	C0
ANISOU 2215 CH2 TRP A 143	4300 5080 3590	-280 380 -200	C0
ATOM 2216 H TRP A 143	-45.720 -18.603 15.893	1.00 32.71	H0
ANISOU 2216 H TRP A 143	4460 4480 3490	-320 460 -250	H0
ATOM 2217 HA TRP A 143	-47.571 -18.443 17.872	1.00 32.95	H0
ANISOU 2217 HA TRP A 143	4340 4690 3480	-380 420 -260	H0
ATOM 2218 HB2 TRP A 143	-45.990 -16.689 17.442	1.00 32.17	H0
ANISOU 2218 HB2 TRP A 143	4310 4490 3410	-200 410 -190	H0
ATOM 2219 HB3 TRP A 143	-46.848 -16.298 16.164	1.00 32.73	H0
ANISOU 2219 HB3 TRP A 143	4370 4670 3400	-160 380 -240	H0
ATOM 2220 HD1 TRP A 143	-48.600 -14.443 16.667	1.00 34.16	H0
ANISOU 2220 HD1 TRP A 143	4430 5060 3490	-20 310 -250	H0
ATOM 2221 HE1 TRP A 143	-49.858 -13.679 18.573	1.00 34.64	H0
ANISOU 2221 HE1 TRP A 143	4370 5260 3530	10 300 -250	H0
ATOM 2222 HE3 TRP A 143	-47.020 -17.683 20.028	1.00 33.32	H0
ANISOU 2222 HE3 TRP A 143	4370 4710 3580	-330 420 -170	H0
ATOM 2223 HZ2 TRP A 143	-50.153 -14.384 21.253	1.00 34.56	H0
ANISOU 2223 HZ2 TRP A 143	4290 5270 3570	-130 340 -250	H0
ATOM 2224 HZ3 TRP A 143	-47.834 -17.561 22.203	1.00 33.81	H0
ANISOU 2224 HZ3 TRP A 143	4350 4870 3620	-380 420 -150	H0
ATOM 2225 HH2 TRP A 143	-49.378 -15.935 22.807	1.00 34.25	H0
ANISOU 2225 HH2 TRP A 143	4280 5130 3600	-300 390 -200	H0
ATOM 2226 N THR A 144	-48.627 -18.404 14.836	1.00 33.97	N0
ANISOU 2226 N THR A 144	4460 4990 3470	-370 370 -380	N0
ATOM 2227 CA THR A 144	-49.778 -18.207 13.917	1.00 35.35	C0
ANISOU 2227 CA THR A 144	4560 5340 3540	-370 320 -450	C0
ATOM 2228 C THR A 144	-50.002 -19.391 12.969	1.00 36.46	C0
ANISOU 2228 C THR A 144	4720 5490 3640	-500 340 -530	C0
ATOM 2229 O THR A 144	-51.018 -19.340 12.249	1.00 38.68	O0
ANISOU 2229 O THR A 144	4920 5950 3830	-520 290 -600	O0
ATOM 2230 CB THR A 144	-49.612 -16.902 13.131	1.00 35.59	C0
ANISOU 2230 CB THR A 144	4600 5410 3510	-210 280 -410	C0
ATOM 2231 OG1 THR A 144	-48.546 -17.051 12.193	1.00 35.57	O0
ANISOU 2231 OG1 THR A 144	4710 5280 3530	-200 310 -400	O0
ATOM 2232 CG2 THR A 144	-49.340 -15.724 14.041	1.00 35.19	C0
ANISOU 2232 CG2 THR A 144	4560 5320 3500	-100 270 -340	C0
ATOM 2233 H THR A 144	-47.861 -18.631 14.401	1.00 33.86	H0
ANISOU 2233 H THR A 144	4510 4880 3480	-370 390 -370	H0
ATOM 2234 HA THR A 144	-50.581 -18.117 14.473	1.00 35.70	H0
ANISOU 2234 HA THR A 144	4520 5480 3560	-380 300 -470	H0
ATOM 2235 HB THR A 144	-50.449 -16.732 12.636	1.00 36.37	H0
ANISOU 2235 HB THR A 144	4640 5640 3540	-190 240 -450	H0
ATOM 2236 HG21 THR A 144	-49.898 -15.791 14.836	1.00 35.20	H0
ANISOU 2236 HG21 THR A 144	4490 5370 3510	-120 270 -350	H0
ATOM 2237 HG22 THR A 144	-49.545 -14.896 13.571	1.00 35.34	H0
ANISOU 2237 HG22 THR A 144	4580 5380 3470	0 250 -330	H0

ATOM	2238	HG23	THR	A	144	-48.402	-15.724	14.303	1.00	34.46	H0	
ANISOU	2238	HG23	THR	A	144	4530	5100	3470	-100	310	-310	H0
ATOM	2239	N	HIS	A	145	-49.137	-20.411	12.953	1.00	36.22	N0	
ANISOU	2239	N	HIS	A	145	4780	5300	3680	-580	400	-530	N0
ATOM	2240	CA	HIS	A	145	-49.251	-21.569	12.020	1.00	37.26	C0	
ANISOU	2240	CA	HIS	A	145	4960	5410	3790	-700	440	-620	C0
ATOM	2241	C	HIS	A	145	-49.591	-22.852	12.789	1.00	37.64	C0	
ANISOU	2241	C	HIS	A	145	5030	5400	3880	-870	500	-660	C0
ATOM	2242	O	HIS	A	145	-48.772	-23.297	13.610	1.00	36.58	O0	
ANISOU	2242	O	HIS	A	145	4970	5090	3840	-860	560	-590	O0
ATOM	2243	CB	HIS	A	145	-47.981	-21.739	11.179	1.00	36.74	C0	
ANISOU	2243	CB	HIS	A	145	5010	5190	3760	-660	480	-600	C0
ATOM	2244	CG	HIS	A	145	-47.688	-20.586	10.277	1.00	36.83	C0	
ANISOU	2244	CG	HIS	A	145	5030	5260	3710	-530	440	-570	C0
ATOM	2245	ND1	HIS	A	145	-48.366	-20.382	9.085	1.00	37.59	N0	
ANISOU	2245	ND1	HIS	A	145	5090	5500	3690	-530	390	-640	N0
ATOM	2246	CD2	HIS	A	145	-46.774	-19.596	10.364	1.00	35.54	C0	
ANISOU	2246	CD2	HIS	A	145	4900	5020	3580	-400	440	-490	C0
ATOM	2247	CE1	HIS	A	145	-47.891	-19.307	8.493	1.00	37.24	C0	
ANISOU	2247	CE1	HIS	A	145	5080	5460	3610	-400	370	-580	C0
ATOM	2248	NE2	HIS	A	145	-46.912	-18.809	9.254	1.00	36.03	N0	
ANISOU	2248	NE2	HIS	A	145	4970	5160	3550	-320	400	-490	N0
ATOM	2249	H	HIS	A	145	-48.423	-20.481	13.512	1.00	35.67	H0	
ANISOU	2249	H	HIS	A	145	4760	5110	3680	-560	430	-480	H0
ATOM	2250	HA	HIS	A	145	-49.996	-21.383	11.403	1.00	37.84	H0	
ANISOU	2250	HA	HIS	A	145	4970	5620	3780	-720	400	-670	H0
ATOM	2251	HB2	HIS	A	145	-47.217	-21.873	11.781	1.00	36.29	H0	
ANISOU	2251	HB2	HIS	A	145	5000	5010	3780	-630	520	-550	H0
ATOM	2252	HB3	HIS	A	145	-48.072	-22.551	10.633	1.00	37.56	H0	
ANISOU	2252	HB3	HIS	A	145	5150	5270	3850	-750	520	-660	H0
ATOM	2253	HD2	HIS	A	145	-46.157	-19.468	11.057	1.00	35.03	H0	
ANISOU	2253	HD2	HIS	A	145	4860	4870	3590	-370	460	-440	H0
ATOM	2254	HE1	HIS	A	145	-48.188	-18.953	7.674	1.00	37.76	H0	
ANISOU	2254	HE1	HIS	A	145	5140	5610	3600	-360	340	-600	H0
ATOM	2255	N	HIS	A	146	-50.755	-23.434	12.492	1.00	39.20	N0	
ANISOU	2255	N	HIS	A	146	5160	5730	4000	-1010	500	-760	N0
ATOM	2256	CA	HIS	A	146	-51.212	-24.752	13.005	1.00	40.70	C0	
ANISOU	2256	CA	HIS	A	146	5380	5870	4210	-1200	570	-820	C0
ATOM	2257	C	HIS	A	146	-50.416	-25.885	12.329	1.00	41.59	C0	
ANISOU	2257	C	HIS	A	146	5650	5790	4370	-1280	660	-850	C0
ATOM	2258	O	HIS	A	146	-49.584	-25.591	11.435	1.00	40.78	O0	
ANISOU	2258	O	HIS	A	146	5600	5620	4270	-1180	650	-840	O0
ATOM	2259	CB	HIS	A	146	-52.737	-24.873	12.850	1.00	42.30	C0	
ANISOU	2259	CB	HIS	A	146	5440	6310	4310	-1330	540	-930	C0
ATOM	2260	CG	HIS	A	146	-53.231	-24.824	11.439	1.00	43.05	C0	
ANISOU	2260	CG	HIS	A	146	5490	6570	4300	-1360	490	-1030	C0
ATOM	2261	ND1	HIS	A	146	-53.023	-25.851	10.546	1.00	43.82	N0	
ANISOU	2261	ND1	HIS	A	146	5680	6590	4380	-1500	550	-1120	N0
ATOM	2262	CD2	HIS	A	146	-53.954	-23.892	10.779	1.00	43.64	C0	
ANISOU	2262	CD2	HIS	A	146	5430	6880	4270	-1270	390	-1060	C0
ATOM	2263	CE1	HIS	A	146	-53.584	-25.546	9.392	1.00	44.91	C0	
ANISOU	2263	CE1	HIS	A	146	5740	6920	4400	-1500	490	-1210	C0
ATOM	2264	NE2	HIS	A	146	-54.160	-24.351	9.508	1.00	44.56	N0	
ANISOU	2264	NE2	HIS	A	146	5560	7080	4300	-1360	380	-1160	N0

ATOM 2265 H HIS A 146	-51.368	-23.047	11.941	1.00	39.70	H0
ANISOU 2265 H HIS A 146	5150	5940	3990	-1000	450 -800	H0
ATOM 2266 HA HIS A 146	-51.005	-24.780	13.969	1.00	40.26	H0
ANISOU 2266 HA HIS A 146	5340	5740	4210	-1180	590 -760	H0
ATOM 2267 HB2 HIS A 146	-53.028	-25.720	13.254	1.00	42.87	H0
ANISOU 2267 HB2 HIS A 146	5540	6340	4400	-1470	590 -970	H0
ATOM 2268 HB3 HIS A 146	-53.161	-24.144	13.355	1.00	41.86	H0
ANISOU 2268 HB3 HIS A 146	5300	6370	4240	-1260	490 -900	H0
ATOM 2269 HD2 HIS A 146	-54.260	-23.075	11.126	1.00	43.23	H0
ANISOU 2269 HD2 HIS A 146	5300	6930	4200	-1170	340 -1010	H0
ATOM 2270 HE1 HIS A 146	-53.573	-26.080	8.617	1.00	45.65	H0
ANISOU 2270 HE1 HIS A 146	5880	7010	4450	-1580	510 -1280	H0
ATOM 2271 N SER A 147	-50.679	-27.133	12.740	1.00	43.08	N0
ANISOU 2271 N SER A 147	5910	5880	4590	-1440	750 -900	N0
ATOM 2272 CA SER A 147	-49.839	-28.341	12.504	1.00	44.08	C0
ANISOU 2272 CA SER A 147	6210	5750	4780	-1510	860 -910	C0
ATOM 2273 C SER A 147	-49.823	-28.751	11.025	1.00	45.42	C0
ANISOU 2273 C SER A 147	6430	5940	4890	-1570	880 -1030	C0
ATOM 2274 O SER A 147	-48.874	-29.462	10.617	1.00	45.75	O0
ANISOU 2274 O SER A 147	6620	5770	4990	-1560	960 -1030	O0
ATOM 2275 CB SER A 147	-50.307	-29.484	13.368	1.00	45.39	C0
ANISOU 2275 CB SER A 147	6450	5820	4980	-1670	950 -930	C0
ATOM 2276 OG SER A 147	-51.647	-29.835	13.057	1.00	46.85	O0
ANISOU 2276 OG SER A 147	6550	6180	5070	-1870	950 -1060	O0
ATOM 2277 H SER A 147	-51.427	-27.335	13.219	1.00	43.60	H0
ANISOU 2277 H SER A 147	5920	6020	4630	-1530	750 -930	H0
ATOM 2278 HA SER A 147	-48.908	-28.117	12.768	1.00	43.26	H0
ANISOU 2278 HA SER A 147	6160	5530	4740	-1380	870 -820	H0
ATOM 2279 HB2 SER A 147	-49.722	-30.263	13.225	1.00	45.80	H0
ANISOU 2279 HB2 SER A 147	6630	5690	5070	-1700	1030 -930	H0
ATOM 2280 HB3 SER A 147	-50.246	-29.225	14.314	1.00	44.78	H0
ANISOU 2280 HB3 SER A 147	6350	5730	4930	-1620	940 -850	H0
ATOM 2281 N ARG A 148	-50.827	-28.345	10.246	1.00	46.14	N0
ANISOU 2281 N ARG A 148	6400	6270	4860	-1640	810 -1130	N0
ATOM 2282 CA ARG A 148	-50.881	-28.641	8.789	1.00	47.72	C0
ANISOU 2282 CA ARG A 148	6630	6520	4980	-1700	810 -1250	C0
ATOM 2283 C ARG A 148	-50.049	-27.612	8.007	1.00	45.99	C0
ANISOU 2283 C ARG A 148	6410	6320	4750	-1500	750 -1180	C0
ATOM 2284 O ARG A 148	-49.858	-27.822	6.795	1.00	46.53	O0
ANISOU 2284 O ARG A 148	6520	6410	4750	-1530	760 -1260	O0
ATOM 2285 CB ARG A 148	-52.339	-28.737	8.327	1.00	50.41	C0
ANISOU 2285 CB ARG A 148	6830	7130	5190	-1870	760 -1390	C0
ATOM 2286 CG ARG A 148	-52.910	-30.140	8.467	1.00	53.59	C0
ANISOU 2286 CG ARG A 148	7310	7460	5590	-2130	870 -1510	C0
ATOM 2287 CD ARG A 148	-54.423	-30.193	8.481	1.00	56.31	C0
ANISOU 2287 CD ARG A 148	7480	8090	5820	-2310	830 -1630	C0
ATOM 2288 NE ARG A 148	-54.954	-29.710	9.747	1.00	57.08	N0
ANISOU 2288 NE ARG A 148	7470	8270	5950	-2270	790 -1550	N0
ATOM 2289 CZ ARG A 148	-56.179	-29.952	10.210	1.00	58.76	C0
ANISOU 2289 CZ ARG A 148	7550	8670	6100	-2450	790 -1640	C0
ATOM 2290 NH1 ARG A 148	-57.032	-30.689	9.516	1.00	61.24	N0
ANISOU 2290 NH1 ARG A 148	7820	9120	6320	-2680	820 -1810	N0
ATOM 2291 NH2 ARG A 148	-56.546	-29.450	11.375	1.00	57.76	N0
ANISOU 2291 NH2 ARG A 148	7330	8600	6010	-2390	770 -1550	N0

ATOM 2292 H ARG A 148	-51.539	-27.877	10.560	1.00	46.26	H0	
ANISOU 2292 H ARG A 148	6300	6440	4840	-1640	750	-1130	H0
ATOM 2293 HA ARG A 148	-50.466	-29.524	8.652	1.00	48.28	H0	
ANISOU 2293 HA ARG A 148	6820	6430	5090	-1780	900	-1280	H0
ATOM 2294 HB2 ARG A 148	-52.881	-28.119	8.857	1.00	50.08	H0	
ANISOU 2294 HB2 ARG A 148	6680	7230	5130	-1830	700	-1350	H0
ATOM 2295 HB3 ARG A 148	-52.394	-28.461	7.388	1.00	50.76	H0	
ANISOU 2295 HB3 ARG A 148	6850	7280	5160	-1850	720	-1440	H0
ATOM 2296 HG2 ARG A 148	-52.584	-30.692	7.724	1.00	54.20	H0	
ANISOU 2296 HG2 ARG A 148	7480	7460	5650	-2190	930	-1580	H0
ATOM 2297 HG3 ARG A 148	-52.575	-30.538	9.300	1.00	53.22	H0	
ANISOU 2297 HG3 ARG A 148	7340	7260	5630	-2140	940	-1450	H0
ATOM 2298 HD2 ARG A 148	-54.775	-29.643	7.748	1.00	56.54	H0	
ANISOU 2298 HD2 ARG A 148	7410	8310	5760	-2270	750	-1680	H0
ATOM 2299 HD3 ARG A 148	-54.714	-31.118	8.335	1.00	57.62	H0	
ANISOU 2299 HD3 ARG A 148	7710	8210	5970	-2500	910	-1730	H0
ATOM 2300 HE ARG A 148	-54.430	-29.219	10.242	1.00	55.67	H0	
ANISOU 2300 HE ARG A 148	7310	8010	5830	-2130	780	-1450	H0
ATOM 2301 HH11 ARG A 148	-56.801	-31.022	8.739	1.00	61.52	H0	
ANISOU 2301 HH11 ARG A 148	7920	9120	6330	-2720	840	-1870	H0
ATOM 2302 HH12 ARG A 148	-57.838	-30.839	9.835	1.00	61.89	H0	
ANISOU 2302 HH12 ARG A 148	7810	9340	6360	-2800	820	-1870	H0
ATOM 2303 HH21 ARG A 148	-55.980	-28.969	11.841	1.00	56.60	H0	
ANISOU 2303 HH21 ARG A 148	7220	8370	5920	-2240	750	-1450	H0
ATOM 2304 HH22 ARG A 148	-57.354	-29.611	11.690	1.00	58.72	H0	
ANISOU 2304 HH22 ARG A 148	7370	8850	6090	-2500	770	-1610	H0
ATOM 2305 N GLU A 149	-49.528	-26.571	8.670	1.00	43.85	N0	
ANISOU 2305 N GLU A 149	6090	6040	4530	-1320	700	-1050	N0
ATOM 2306 CA GLU A 149	-48.667	-25.536	8.035	1.00	42.57	C0	
ANISOU 2306 CA GLU A 149	5940	5870	4360	-1130	650	-980	C0
ATOM 2307 C GLU A 149	-47.236	-25.624	8.575	1.00	41.67	C0	
ANISOU 2307 C GLU A 149	5940	5520	4380	-1030	720	-870	C0
ATOM 2308 O GLU A 149	-46.307	-25.498	7.762	1.00	40.96	O0	
ANISOU 2308 O GLU A 149	5920	5350	4290	-960	740	-870	O0
ATOM 2309 CB GLU A 149	-49.266	-24.150	8.250	1.00	41.75	C0	
ANISOU 2309 CB GLU A 149	5710	5960	4200	-1010	540	-920	C0
ATOM 2310 CG GLU A 149	-50.435	-23.862	7.332	1.00	43.04	C0	
ANISOU 2310 CG GLU A 149	5760	6380	4210	-1050	460	-1010	C0
ATOM 2311 CD GLU A 149	-51.130	-22.541	7.598	1.00	42.92	C0	
ANISOU 2311 CD GLU A 149	5620	6560	4130	-920	360	-950	C0
ATOM 2312 OE1 GLU A 149	-50.551	-21.700	8.309	1.00	41.54	O0	
ANISOU 2312 OE1 GLU A 149	5450	6300	4030	-780	350	-840	O0
ATOM 2313 OE2 GLU A 149	-52.256	-22.357	7.097	1.00	44.47	O0	
ANISOU 2313 OE2 GLU A 149	5690	7000	4210	-950	290	-1020	O0
ATOM 2314 H GLU A 149	-49.692	-26.417	9.550	1.00	43.51	H0	
ANISOU 2314 H GLU A 149	6020	5990	4520	-1300	690	-1000	H0
ATOM 2315 HA GLU A 149	-48.640	-25.713	7.067	1.00	43.23	H0	
ANISOU 2315 HA GLU A 149	6060	5980	4390	-1160	660	-1040	H0
ATOM 2316 HB2 GLU A 149	-49.563	-24.075	9.181	1.00	41.52	H0	
ANISOU 2316 HB2 GLU A 149	5630	5940	4200	-1020	530	-890	H0
ATOM 2317 HB3 GLU A 149	-48.568	-23.478	8.099	1.00	41.05	H0	
ANISOU 2317 HB3 GLU A 149	5640	5830	4130	-890	530	-850	H0
ATOM 2318 HG2 GLU A 149	-50.119	-23.865	6.404	1.00	43.36	H0	
ANISOU 2318 HG2 GLU A 149	5850	6420	4200	-1040	470	-1040	H0

ATOM	2319	HG3	GLU	A	149	-51.094	-24.583	7.422	1.00	43.96	H0	
ANISOU	2319	HG3	GLU	A	149	5850	6550	4300	-1190	480	-1090	H0
ATOM	2320	N	ILE	A	150	-47.070	-25.781	9.893	1.00	41.88	N0	
ANISOU	2320	N	ILE	A	150	5960	5460	4490	-1010	740	-800	N0
ATOM	2321	CA	ILE	A	150	-45.746	-25.944	10.564	1.00	41.37	C0	
ANISOU	2321	CA	ILE	A	150	5980	5190	4540	-910	790	-690	C0
ATOM	2322	C	ILE	A	150	-45.836	-27.104	11.559	1.00	42.57	C0	
ANISOU	2322	C	ILE	A	150	6200	5210	4760	-1010	870	-680	C0
ATOM	2323	O	ILE	A	150	-46.678	-27.034	12.469	1.00	43.51	O0	
ANISOU	2323	O	ILE	A	150	6250	5410	4870	-1070	840	-670	O0
ATOM	2324	CB	ILE	A	150	-45.307	-24.639	11.256	1.00	40.32	C0	
ANISOU	2324	CB	ILE	A	150	5780	5110	4440	-760	720	-580	C0
ATOM	2325	CG1	ILE	A	150	-45.055	-23.525	10.237	1.00	40.04	C0	
ANISOU	2325	CG1	ILE	A	150	5710	5160	4340	-670	670	-580	C0
ATOM	2326	CG2	ILE	A	150	-44.095	-24.878	12.144	1.00	39.75	C0	
ANISOU	2326	CG2	ILE	A	150	5760	4870	4470	-680	770	-490	C0
ATOM	2327	CD1	ILE	A	150	-44.521	-22.245	10.831	1.00	39.22	C0	
ANISOU	2327	CD1	ILE	A	150	5560	5070	4260	-530	630	-490	C0
ATOM	2328	H	ILE	A	150	-47.769	-25.785	10.476	1.00	41.91	H0	
ANISOU	2328	H	ILE	A	150	5910	5530	4480	-1060	720	-800	H0
ATOM	2329	HA	ILE	A	150	-45.083	-26.169	9.888	1.00	41.62	H0	
ANISOU	2329	HA	ILE	A	150	6080	5150	4590	-890	830	-710	H0
ATOM	2330	HB	ILE	A	150	-46.052	-24.346	11.838	1.00	40.22	H0	
ANISOU	2330	HB	ILE	A	150	5690	5190	4400	-790	680	-580	H0
ATOM	2331	HG12	ILE	A	150	-44.415	-23.852	9.569	1.00	40.29	H0	
ANISOU	2331	HG12	ILE	A	150	5810	5120	4380	-660	720	-600	H0
ATOM	2332	HG13	ILE	A	150	-45.897	-23.328	9.775	1.00	40.54	H0	
ANISOU	2332	HG13	ILE	A	150	5730	5350	4330	-700	630	-640	H0
ATOM	2333	HG21	ILE	A	150	-44.334	-25.477	12.873	1.00	40.04	H0	
ANISOU	2333	HG21	ILE	A	150	5810	4860	4540	-730	800	-470	H0
ATOM	2334	HG22	ILE	A	150	-43.787	-24.033	12.515	1.00	38.98	H0	
ANISOU	2334	HG22	ILE	A	150	5620	4810	4390	-600	730	-430	H0
ATOM	2335	HG23	ILE	A	150	-43.380	-25.279	11.619	1.00	39.96	H0	
ANISOU	2335	HG23	ILE	A	150	5850	4800	4530	-660	820	-500	H0
ATOM	2336	HD11	ILE	A	150	-44.924	-22.097	11.704	1.00	38.87	H0	
ANISOU	2336	HD11	ILE	A	150	5470	5060	4230	-540	610	-460	H0
ATOM	2337	HD12	ILE	A	150	-44.736	-21.500	10.245	1.00	39.06	H0	
ANISOU	2337	HD12	ILE	A	150	5520	5140	4180	-480	590	-490	H0
ATOM	2338	HD13	ILE	A	150	-43.555	-22.310	10.929	1.00	38.77	H0	
ANISOU	2338	HD13	ILE	A	150	5550	4910	4270	-480	660	-450	H0
ATOM	2339	N	SER	A	151	-44.989	-28.120	11.393	1.00	42.96	N0	
ANISOU	2339	N	SER	A	151	6380	5060	4880	-1010	960	-680	N0
ATOM	2340	CA	SER	A	151	-44.698	-29.135	12.434	1.00	44.24	C0	
ANISOU	2340	CA	SER	A	151	6640	5050	5120	-1040	1040	-620	C0
ATOM	2341	C	SER	A	151	-43.371	-28.765	13.100	1.00	43.68	C0	
ANISOU	2341	C	SER	A	151	6580	4880	5140	-860	1040	-490	C0
ATOM	2342	O	SER	A	151	-42.473	-28.261	12.393	1.00	42.85	O0	
ANISOU	2342	O	SER	A	151	6460	4770	5040	-750	1030	-480	O0
ATOM	2343	CB	SER	A	151	-44.680	-30.533	11.867	1.00	45.88	C0	
ANISOU	2343	CB	SER	A	151	6990	5090	5340	-1150	1160	-710	C0
ATOM	2344	OG	SER	A	151	-43.611	-30.697	10.949	1.00	46.24	O0	
ANISOU	2344	OG	SER	A	151	7110	5030	5420	-1060	1210	-720	O0
ATOM	2345	H	SER	A	151	-44.525	-28.268	10.623	1.00	43.39	H0	
ANISOU	2345	H	SER	A	151	6480	5070	4930	-990	990	-710	H0

ATOM 2346 HA SER A 151	-45.414 -29.085 13.121	1.00 44.22	H0
ANISOU 2346 HA SER A 151	6590 5110 5100	-1100 1020 -610	H0
ATOM 2347 HB2 SER A 151	-44.583 -31.182 12.599	1.00 46.38	H0
ANISOU 2347 HB2 SER A 151	7130 5040 5450	-1170 1220 -660	H0
ATOM 2348 HB3 SER A 151	-45.533 -30.711 11.411	1.00 46.62	H0
ANISOU 2348 HB3 SER A 151	7070 5270 5370	-1280 1160 -800	H0
ATOM 2349 N VAL A 152	-43.268 -28.949 14.415	1.00 43.85	N0
ANISOU 2349 N VAL A 152	6600 4860 5200	-830 1040 -400	N0
ATOM 2350 CA VAL A 152	-41.980 -28.797 15.150	1.00 44.91	C0
ANISOU 2350 CA VAL A 152	6750 4910 5410	-660 1050 -270	C0
ATOM 2351 C VAL A 152	-41.593 -30.170 15.698	1.00 47.53	C0
ANISOU 2351 C VAL A 152	7220 5040 5800	-670 1150 -220	C0
ATOM 2352 O VAL A 152	-42.502 -30.940 16.065	1.00 50.16	O0
ANISOU 2352 O VAL A 152	7620 5330 6110	-800 1200 -250	O0
ATOM 2353 CB VAL A 152	-42.038 -27.707 16.240	1.00 43.72	C0
ANISOU 2353 CB VAL A 152	6480 4880 5250	-600 960 -190	C0
ATOM 2354 CG1 VAL A 152	-42.252 -26.333 15.625	1.00 43.42	C0
ANISOU 2354 CG1 VAL A 152	6330 5010 5160	-570 870 -230	C0
ATOM 2355 CG2 VAL A 152	-43.090 -27.981 17.302	1.00 44.32	C0
ANISOU 2355 CG2 VAL A 152	6540 5000 5300	-700 950 -170	C0
ATOM 2356 H VAL A 152	-43.971 -29.189 14.941	1.00 44.48	H0
ANISOU 2356 H VAL A 152	6670 4960 5260	-910 1050 -400	H0
ATOM 2357 HA VAL A 152	-41.303 -28.533 14.508	1.00 44.58	H0
ANISOU 2357 HA VAL A 152	6700 4850 5380	-590 1050 -280	H0
ATOM 2358 HB VAL A 152	-41.157 -27.697 16.690	1.00 43.75	H0
ANISOU 2358 HB VAL A 152	6490 4840 5300	-500 960 -110	H0
ATOM 2359 HG11 VAL A 152	-41.529 -26.138 15.005	1.00 43.01	H0
ANISOU 2359 HG11 VAL A 152	6290 4930 5130	-510 880 -230	H0
ATOM 2360 HG12 VAL A 152	-42.265 -25.661 16.329	1.00 42.57	H0
ANISOU 2360 HG12 VAL A 152	6160 4970 5050	-530 820 -180	H0
ATOM 2361 HG13 VAL A 152	-43.100 -26.319 15.148	1.00 43.43	H0
ANISOU 2361 HG13 VAL A 152	6310 5080 5110	-650 860 -300	H0
ATOM 2362 HG21 VAL A 152	-43.973 -27.981 16.894	1.00 44.46	H0
ANISOU 2362 HG21 VAL A 152	6540 5090 5270	-800 940 -250	H0
ATOM 2363 HG22 VAL A 152	-43.049 -27.287 17.982	1.00 43.53	H0
ANISOU 2363 HG22 VAL A 152	6370 4980 5190	-660 900 -120	H0
ATOM 2364 HG23 VAL A 152	-42.923 -28.846 17.714	1.00 44.99	H0
ANISOU 2364 HG23 VAL A 152	6710 4970 5410	-720 1010 -140	H0
ATOM 2365 N ASP A 153	-40.295 -30.473 15.700	1.00 49.76	N0
ANISOU 2365 N ASP A 153	7550 5200 6150	-520 1190 -160	N0
ATOM 2366 CA ASP A 153	-39.721 -31.717 16.277	1.00 53.10	C0
ANISOU 2366 CA ASP A 153	8120 5420 6630	-460 1290 -80	C0
ATOM 2367 C ASP A 153	-38.368 -31.378 16.891	1.00 53.72	C0
ANISOU 2367 C ASP A 153	8140 5500 6760	-260 1260 40	C0
ATOM 2368 O ASP A 153	-37.630 -30.566 16.336	1.00 51.80	O0
ANISOU 2368 O ASP A 153	7810 5340 6530	-170 1220 30	O0
ATOM 2369 CB ASP A 153	-39.567 -32.812 15.218	1.00 55.45	C0
ANISOU 2369 CB ASP A 153	8560 5550 6960	-500 1410 -170	C0
ATOM 2370 CG ASP A 153	-40.883 -33.330 14.662	1.00 56.96	C0
ANISOU 2370 CG ASP A 153	8820 5730 7090	-730 1450 -300	C0
ATOM 2371 OD1 ASP A 153	-41.482 -34.216 15.306	1.00 59.29	O0
ANISOU 2371 OD1 ASP A 153	9220 5920 7390	-830 1520 -290	O0
ATOM 2372 OD2 ASP A 153	-41.297 -32.844 13.587	1.00 56.83	O0
ANISOU 2372 OD2 ASP A 153	8740 5830 7020	-800 1420 -410	O0

ATOM 2373 H ASP A 153	-39.668	-29.922	15.334	1.00	49.14	H0	
ANISOU 2373 H ASP A 153	7420	5160	6080	-440	1160	-150	H0
ATOM 2374 HA ASP A 153	-40.324	-32.041	16.984	1.00	53.44	H0	
ANISOU 2374 HA ASP A 153	8190	5450	6660	-530	1300	-50	H0
ATOM 2375 HB2 ASP A 153	-39.036	-32.462	14.474	1.00	55.03	H0	
ANISOU 2375 HB2 ASP A 153	8480	5520	6910	-450	1400	-200	H0
ATOM 2376 HB3 ASP A 153	-39.083	-33.567	15.610	1.00	56.28	H0	
ANISOU 2376 HB3 ASP A 153	8760	5510	7110	-440	1470	-110	H0
ATOM 2377 N PRO A 154	-37.996	-31.982	18.041	1.00	56.40	N0	
ANISOU 2377 N PRO A 154	8540	5760	7130	-180	1280	160	N0
ATOM 2378 CA PRO A 154	-36.654	-31.806	18.591	1.00	58.87	C0	
ANISOU 2378 CA PRO A 154	8800	6080	7490	20	1260	280	C0
ATOM 2379 C PRO A 154	-35.596	-32.388	17.638	1.00	63.33	C0	
ANISOU 2379 C PRO A 154	9420	6530	8110	140	1340	250	C0
ATOM 2380 O PRO A 154	-35.860	-33.407	17.022	1.00	64.21	O0	
ANISOU 2380 O PRO A 154	9690	6470	8240	90	1450	200	O0
ATOM 2381 CB PRO A 154	-36.692	-32.562	19.928	1.00	59.35	C0	
ANISOU 2381 CB PRO A 154	8940	6060	7550	70	1280	400	C0
ATOM 2382 CG PRO A 154	-37.817	-33.562	19.762	1.00	59.70	C0	
ANISOU 2382 CG PRO A 154	9140	5960	7580	-100	1380	350	C0
ATOM 2383 CD PRO A 154	-38.826	-32.879	18.860	1.00	58.19	C0	
ANISOU 2383 CD PRO A 154	8880	5890	7340	-280	1340	200	C0
ATOM 2384 HA PRO A 154	-36.484	-30.846	18.755	1.00	57.87	H0	
ANISOU 2384 HA PRO A 154	8550	6100	7340	40	1180	280	H0
ATOM 2385 HB2 PRO A 154	-35.841	-33.020	20.099	1.00	60.09	H0	
ANISOU 2385 HB2 PRO A 154	9070	6090	7680	200	1310	470	H0
ATOM 2386 HB3 PRO A 154	-36.877	-31.950	20.671	1.00	58.61	H0	
ANISOU 2386 HB3 PRO A 154	8760	6090	7420	60	1210	450	H0
ATOM 2387 HG2 PRO A 154	-37.489	-34.388	19.351	1.00	60.83	H0	
ANISOU 2387 HG2 PRO A 154	9400	5950	7760	-70	1460	340	H0
ATOM 2388 HG3 PRO A 154	-38.219	-33.779	20.628	1.00	60.07	H0	
ANISOU 2388 HG3 PRO A 154	9220	6000	7600	-140	1370	410	H0
ATOM 2389 HD2 PRO A 154	-39.294	-33.530	18.305	1.00	58.88	H0	
ANISOU 2389 HD2 PRO A 154	9060	5880	7430	-380	1410	130	H0
ATOM 2390 HD3 PRO A 154	-39.479	-32.375	19.379	1.00	57.50	H0	
ANISOU 2390 HD3 PRO A 154	8730	5910	7220	-350	1280	200	H0
ATOM 2391 N THR A 155	-34.446	-31.716	17.524	1.00	67.13	N0	
ANISOU 2391 N THR A 155	9780	7110	8620	280	1300	280	N0
ATOM 2392 CA THR A 155	-33.260	-32.182	16.756	1.00	71.37	C0	
ANISOU 2392 CA THR A 155	10350	7560	9210	430	1370	280	C0
ATOM 2393 C THR A 155	-32.865	-33.575	17.263	1.00	77.08	C0	
ANISOU 2393 C THR A 155	11220	8090	9980	550	1470	360	C0
ATOM 2394 O THR A 155	-33.031	-33.842	18.475	1.00	77.40	O0	
ANISOU 2394 O THR A 155	11290	8120	10000	580	1440	480	O0
ATOM 2395 CB THR A 155	-32.118	-31.162	16.838	1.00	71.29	C0	
ANISOU 2395 CB THR A 155	10160	7720	9210	550	1300	310	C0
ATOM 2396 OG1 THR A 155	-32.637	-29.905	16.400	1.00	69.19	O0	
ANISOU 2396 OG1 THR A 155	9790	7610	8890	430	1220	230	O0
ATOM 2397 CG2 THR A 155	-30.914	-31.538	16.001	1.00	72.40	C0	
ANISOU 2397 CG2 THR A 155	10300	7810	9400	690	1370	290	C0
ATOM 2398 H THR A 155	-34.307	-30.907	17.917	1.00	65.91	H0	
ANISOU 2398 H THR A 155	9520	7080	8440	300	1220	310	H0
ATOM 2399 HA THR A 155	-33.531	-32.265	15.812	1.00	71.51	H0	
ANISOU 2399 HA THR A 155	10410	7540	9220	360	1410	180	H0

ATOM 2400 HB THR A 155	-31.838	-31.083	17.781	1.00	71.15		H0
ANISOU 2400 HB THR A 155	10090	7750	9190	620	1250	400	H0
ATOM 2401 HG21 THR A 155	-30.451	-32.289	16.414	1.00	73.46		H0
ANISOU 2401 HG21 THR A 155	10480	7860	9570	810	1410	360	H0
ATOM 2402 HG22 THR A 155	-30.309	-30.778	15.941	1.00	71.76		H0
ANISOU 2402 HG22 THR A 155	10090	7860	9320	730	1330	290	H0
ATOM 2403 HG23 THR A 155	-31.206	-31.791	15.107	1.00	72.46		H0
ANISOU 2403 HG23 THR A 155	10380	7750	9410	630	1430	200	H0
ATOM 2404 N THR A 156	-32.345	-34.412	16.361	1.00	83.45		N0
ANISOU 2404 N THR A 156	12140	8740	10830	610	1580	320	N0
ATOM 2405 CA THR A 156	-32.228	-35.889	16.504	1.00	88.81		C0
ANISOU 2405 CA THR A 156	13020	9160	11550	690	1710	360	C0
ATOM 2406 C THR A 156	-31.259	-36.286	17.627	1.00	92.96		C0
ANISOU 2406 C THR A 156	13540	9680	12110	930	1700	530	C0
ATOM 2407 O THR A 156	-31.290	-37.475	18.011	1.00	94.48		O0
ANISOU 2407 O THR A 156	13920	9650	12330	990	1810	610	O0
ATOM 2408 CB THR A 156	-31.793	-36.526	15.177	1.00	90.86		C0
ANISOU 2408 CB THR A 156	13380	9280	11860	720	1840	250	C0
ATOM 2409 OG1 THR A 156	-30.585	-35.886	14.762	1.00	91.30		O0
ANISOU 2409 OG1 THR A 156	13280	9470	11940	880	1800	260	O0
ATOM 2410 CG2 THR A 156	-32.842	-36.402	14.093	1.00	90.33		C0
ANISOU 2410 CG2 THR A 156	13370	9210	11750	480	1860	80	C0
ATOM 2411 H THR A 156	-32.009	-34.118	15.567	1.00	82.64		H0
ANISOU 2411 H THR A 156	11990	8670	10740	620	1590	250	H0
ATOM 2412 HA THR A 156	-33.121	-36.237	16.733	1.00	89.09		H0
ANISOU 2412 HA THR A 156	13150	9130	11570	560	1730	350	H0
ATOM 2413 HB THR A 156	-31.611	-37.482	15.337	1.00	92.33		H0
ANISOU 2413 HB THR A 156	13710	9300	12080	790	1930	290	H0
ATOM 2414 HG21 THR A 156	-33.662	-36.842	14.381	1.00	90.66		H0
ANISOU 2414 HG21 THR A 156	13510	9170	11770	370	1890	80	H0
ATOM 2415 HG22 THR A 156	-32.518	-36.824	13.277	1.00	91.04		H0
ANISOU 2415 HG22 THR A 156	13530	9210	11860	510	1940	20	H0
ATOM 2416 HG23 THR A 156	-33.023	-35.461	13.920	1.00	88.89		H0
ANISOU 2416 HG23 THR A 156	13060	9190	11530	420	1770	50	H0
ATOM 2417 N GLU A 157	-30.426	-35.361	18.127	1.00	94.93		N0
ANISOU 2417 N GLU A 157	13580	10140	12350	1040	1590	600	N0
ATOM 2418 CA GLU A 157	-29.378	-35.676	19.138	1.00	98.06		C0
ANISOU 2418 CA GLU A 157	13930	10570	12760	1280	1570	760	C0
ATOM 2419 C GLU A 157	-29.003	-34.433	19.959	1.00	98.53		C0
ANISOU 2419 C GLU A 157	13760	10910	12770	1300	1420	810	C0
ATOM 2420 O GLU A 157	-28.593	-33.418	19.354	1.00	97.16		O0
ANISOU 2420 O GLU A 157	13420	10900	12600	1270	1370	730	O0
ATOM 2421 CB GLU A 157	-28.143	-36.251	18.438	1.00	99.58		C0
ANISOU 2421 CB GLU A 157	14130	10690	13020	1500	1660	760	C0
ATOM 2422 CG GLU A 157	-27.085	-36.782	19.391	1.00	100.82		C0
ANISOU 2422 CG GLU A 157	14260	10870	13190	1770	1650	930	C0
ATOM 2423 CD GLU A 157	-27.539	-37.933	20.273	1.00	102.20		C0
ANISOU 2423 CD GLU A 157	14650	10830	13350	1830	1720	1060	C0
ATOM 2424 OE1 GLU A 157	-27.828	-37.687	21.462	1.00	101.70		O0
ANISOU 2424 OE1 GLU A 157	14550	10860	13230	1830	1630	1170	O0
ATOM 2425 OE2 GLU A 157	-27.594	-39.074	19.772	1.00	102.68		O0
ANISOU 2425 OE2 GLU A 157	14920	10630	13460	1890	1870	1040	O0
ATOM 2426 H GLU A 157	-30.437	-34.490	17.867	1.00	93.39		H0
ANISOU 2426 H GLU A 157	13260	10090	12130	980	1530	550	H0

ATOM 2427 HA GLU A 157	-29.739	-36.356	19.750	1.00	98.92		H0
ANISOU 2427 HA GLU A 157	14160	10560	12860	1300	1610	830	H0
ATOM 2428 HB2 GLU A 157	-28.429	-36.978	17.846	1.00	100.21		H0
ANISOU 2428 HB2 GLU A 157	14360	10590	13120	1470	1760	710	H0
ATOM 2429 HB3 GLU A 157	-27.745	-35.550	17.881	1.00	98.59		H0
ANISOU 2429 HB3 GLU A 157	13870	10690	12890	1490	1630	690	H0
ATOM 2430 HG2 GLU A 157	-26.311	-37.083	18.868	1.00	101.77		H0
ANISOU 2430 HG2 GLU A 157	14360	10960	13350	1910	1710	910	H0
ATOM 2431 HG3 GLU A 157	-26.781	-36.051	19.970	1.00	100.15		H0
ANISOU 2431 HG3 GLU A 157	14010	10970	13070	1800	1550	970	H0
ATOM 2432 N ASN A 158	-29.148	-34.530	21.288	1.00	100.81		N0
ANISOU 2432 N ASN A 158	14040	11240	13020	1350	1360	940	N0
ATOM 2433 CA ASN A 158	-28.416	-33.717	22.300	1.00	100.54		C0
ANISOU 2433 CA ASN A 158	13810	11450	12940	1450	1230	1030	C0
ATOM 2434 C ASN A 158	-27.048	-34.375	22.534	1.00	102.61		C0
ANISOU 2434 C ASN A 158	14030	11720	13230	1730	1260	1140	C0
ATOM 2435 O ASN A 158	-26.934	-35.179	23.490	1.00	103.97		O0
ANISOU 2435 O ASN A 158	14300	11830	13380	1870	1270	1290	O0
ATOM 2436 CB ASN A 158	-29.179	-33.597	23.627	1.00	100.73		C0
ANISOU 2436 CB ASN A 158	13860	11530	12890	1370	1160	1120	C0
ATOM 2437 CG ASN A 158	-30.153	-32.438	23.682	1.00	98.73		C0
ANISOU 2437 CG ASN A 158	13520	11400	12590	1140	1080	1030	C0
ATOM 2438 OD1 ASN A 158	-30.447	-31.806	22.667	1.00	97.70		O0
ANISOU 2438 OD1 ASN A 158	13340	11290	12480	1020	1090	900	O0
ATOM 2439 ND2 ASN A 158	-30.658	-32.149	24.871	1.00	97.55		N0
ANISOU 2439 ND2 ASN A 158	13350	11340	12370	1090	1010	1100	N0
ATOM 2440 H ASN A 158	-29.729	-35.123	21.662	1.00	100.91		H0
ANISOU 2440 H ASN A 158	14190	11140	13020	1310	1400	980	H0
ATOM 2441 HA ASN A 158	-28.277	-32.811	21.939	1.00	99.42		H0
ANISOU 2441 HA ASN A 158	13540	11450	12790	1380	1180	960	H0
ATOM 2442 HB2 ASN A 158	-29.670	-34.429	23.784	1.00	101.49		H0
ANISOU 2442 HB2 ASN A 158	14110	11460	12990	1360	1230	1170	H0
ATOM 2443 HB3 ASN A 158	-28.530	-33.492	24.353	1.00	101.21		H0
ANISOU 2443 HB3 ASN A 158	13830	11700	12920	1500	1110	1210	H0
ATOM 2444 HD21 ASN A 158	-31.204	-31.460	24.963	1.00	96.44		H0
ANISOU 2444 HD21 ASN A 158	13150	11280	12200	970	970	1050	H0
ATOM 2445 HD22 ASN A 158	-30.451	-32.644	25.573	1.00	98.77		H0
ANISOU 2445 HD22 ASN A 158	13540	11480	12510	1180	1010	1200	H0
ATOM 2446 N SER A 159	-26.068	-34.062	21.676	1.00	101.26		N0
ANISOU 2446 N SER A 159	13740	11630	13100	1820	1280	1070	N0
ATOM 2447 CA SER A 159	-24.671	-34.578	21.719	1.00	102.03		C0
ANISOU 2447 CA SER A 159	13760	11780	13230	2090	1300	1150	C0
ATOM 2448 C SER A 159	-24.206	-34.670	23.178	1.00	101.16		C0
ANISOU 2448 C SER A 159	13570	11810	13060	2250	1210	1320	C0
ATOM 2449 O SER A 159	-23.772	-35.760	23.605	1.00	104.75		O0
ANISOU 2449 O SER A 159	14130	12140	13530	2470	1270	1450	O0
ATOM 2450 CB SER A 159	-23.750	-33.705	20.895	1.00	101.97		C0
ANISOU 2450 CB SER A 159	13540	11950	13250	2100	1280	1040	C0
ATOM 2451 OG SER A 159	-22.466	-34.297	20.757	1.00	104.61		O0
ANISOU 2451 OG SER A 159	13800	12320	13620	2370	1330	1100	O0
ATOM 2452 H SER A 159	-26.197	-33.490	20.978	1.00	100.22		H0
ANISOU 2452 H SER A 159	13560	11540	12980	1710	1270	970	H0
ATOM 2453 HA SER A 159	-24.669	-35.495	21.332	1.00	103.12		H0
ANISOU 2453 HA SER A 159	14040	11720	13410	2170	1400	1160	H0

ATOM 2454 HB2 SER A 159	-24.142	-33.567	20.004	1.00101.14			H0
ANISOU 2454 HB2 SER A 159	13490	11770	13170	1980	1330	940	H0
ATOM 2455 HB3 SER A 159	-23.660	-32.827	21.329	1.00101.03			H0
ANISOU 2455 HB3 SER A 159	13280	12020	13090	2040	1190	1040	H0
ATOM 2456 N ASP A 160	-24.319	-33.556	23.903	1.00	96.93		N0
ANISOU 2456 N ASP A 160	12860	11510	12460	2140	1080	1310	N0
ATOM 2457 CA ASP A 160	-24.072	-33.438	25.364	1.00	94.38		C0
ANISOU 2457 CA ASP A 160	12460	11360	12050	2230	970	1450	C0
ATOM 2458 C ASP A 160	-24.853	-32.217	25.865	1.00	89.34		C0
ANISOU 2458 C ASP A 160	11730	10870	11340	1990	870	1390	C0
ATOM 2459 O ASP A 160	-24.950	-31.224	25.108	1.00	87.19		O0
ANISOU 2459 O ASP A 160	11360	10680	11090	1830	850	1250	O0
ATOM 2460 CB ASP A 160	-22.570	-33.363	25.657	1.00	96.62		C0
ANISOU 2460 CB ASP A 160	12530	11870	12320	2470	920	1520	C0
ATOM 2461 CG ASP A 160	-22.218	-33.081	27.109	1.00	98.25		C0
ANISOU 2461 CG ASP A 160	12600	12310	12420	2550	790	1640	C0
ATOM 2462 OD1 ASP A 160	-23.087	-33.297	27.980	1.00	99.54		O0
ANISOU 2462 OD1 ASP A 160	12900	12400	12520	2480	770	1720	O0
ATOM 2463 OD2 ASP A 160	-21.073	-32.650	27.360	1.00	99.08		O0
ANISOU 2463 OD2 ASP A 160	12480	12680	12490	2680	720	1650	O0
ATOM 2464 H ASP A 160	-24.561	-32.764	23.522	1.00	95.39		H0
ANISOU 2464 H ASP A 160	12600	11390	12260	2000	1050	1220	H0
ATOM 2465 HA ASP A 160	-24.433	-34.244	25.803	1.00	95.48		H0
ANISOU 2465 HA ASP A 160	12750	11350	12180	2290	1010	1550	H0
ATOM 2466 HB2 ASP A 160	-22.159	-34.215	25.407	1.00	98.10		H0
ANISOU 2466 HB2 ASP A 160	12790	11940	12550	2640	990	1570	H0
ATOM 2467 HB3 ASP A 160	-22.172	-32.662	25.104	1.00	95.78		H0
ANISOU 2467 HB3 ASP A 160	12280	11880	12230	2410	900	1420	H0
ATOM 2468 N ASP A 161	-25.400	-32.297	27.082	1.00	85.87		N0
ANISOU 2468 N ASP A 161	11340	10460	10830	1970	810	1490	N0
ATOM 2469 CA ASP A 161	-26.296	-31.264	27.669	1.00	81.41		C0
ANISOU 2469 CA ASP A 161	10720	10020	10200	1740	730	1440	C0
ATOM 2470 C ASP A 161	-25.464	-30.028	28.039	1.00	77.95		C0
ANISOU 2470 C ASP A 161	10020	9890	9710	1730	610	1390	C0
ATOM 2471 O ASP A 161	-25.901	-28.909	27.712	1.00	76.04		O0
ANISOU 2471 O ASP A 161	9710	9720	9460	1530	580	1270	O0
ATOM 2472 CB ASP A 161	-27.070	-31.820	28.870	1.00	81.99		C0
ANISOU 2472 CB ASP A 161	10930	10030	10190	1730	710	1570	C0
ATOM 2473 CG ASP A 161	-27.852	-33.093	28.578	1.00	82.84		C0
ANISOU 2473 CG ASP A 161	11310	9820	10350	1730	840	1610	C0
ATOM 2474 OD1 ASP A 161	-28.557	-33.128	27.545	1.00	81.30		O0
ANISOU 2474 OD1 ASP A 161	11200	9470	10210	1590	910	1490	O0
ATOM 2475 OD2 ASP A 161	-27.745	-34.045	29.385	1.00	84.45		O0
ANISOU 2475 OD2 ASP A 161	11630	9950	10510	1880	860	1770	O0
ATOM 2476 H ASP A 161	-25.240	-33.001	27.638	1.00	87.43		H0
ANISOU 2476 H ASP A 161	11600	10610	11000	2090	820	1600	H0
ATOM 2477 HA ASP A 161	-26.951	-31.002	26.980	1.00	80.07		H0
ANISOU 2477 HA ASP A 161	10600	9760	10060	1600	760	1340	H0
ATOM 2478 HB2 ASP A 161	-26.440	-32.008	29.594	1.00	83.21		H0
ANISOU 2478 HB2 ASP A 161	11030	10290	10300	1870	670	1670	H0
ATOM 2479 HB3 ASP A 161	-27.700	-31.140	29.184	1.00	80.81		H0
ANISOU 2479 HB3 ASP A 161	10750	9950	10010	1580	670	1520	H0
ATOM 2480 N SER A 162	-24.301	-30.230	28.671	1.00	76.39		N0
ANISOU 2480 N SER A 162	9690	9860	9470	1930	560	1490	N0

ATOM 2481 CA SER A 162	-23.406	-29.162	29.195	1.00	73.99	C0	
ANISOU 2481 CA SER A 162	9130	9880	9100	1920	450	1460	C0
ATOM 2482 C SER A 162	-22.300	-28.814	28.188	1.00	71.40	C0	
ANISOU 2482 C SER A 162	8640	9650	8840	1980	470	1360	C0
ATOM 2483 O SER A 162	-21.423	-28.004	28.550	1.00	71.23	O0	
ANISOU 2483 O SER A 162	8390	9910	8770	1980	390	1330	O0
ATOM 2484 CB SER A 162	-22.813	-29.566	30.526	1.00	75.39	C0	
ANISOU 2484 CB SER A 162	9230	10230	9180	2100	360	1610	C0
ATOM 2485 OG SER A 162	-23.764	-29.425	31.569	1.00	75.11	O0	
ANISOU 2485 OG SER A 162	9290	10200	9060	1990	320	1670	O0
ATOM 2486 H SER A 162	-23.966	-31.063	28.828	1.00	77.96	H0	
ANISOU 2486 H SER A 162	9950	10000	9680	2090	590	1580	H0
ATOM 2487 HA SER A 162	-23.958	-28.346	29.338	1.00	72.44	H0	
ANISOU 2487 HA SER A 162	8910	9740	8880	1750	410	1380	H0
ATOM 2488 HB2 SER A 162	-22.514	-30.502	30.480	1.00	76.95	H0	
ANISOU 2488 HB2 SER A 162	9510	10330	9400	2280	410	1710	H0
ATOM 2489 HB3 SER A 162	-22.030	-29.004	30.722	1.00	75.94	H0	
ANISOU 2489 HB3 SER A 162	9120	10520	9210	2130	300	1590	H0
ATOM 2490 N GLU A 163	-22.349	-29.385	26.977	1.00	68.88	N0	
ANISOU 2490 N GLU A 163	8430	9120	8620	2010	590	1310	N0
ATOM 2491 CA GLU A 163	-21.274	-29.315	25.944	1.00	67.94	C0	
ANISOU 2491 CA GLU A 163	8190	9060	8560	2100	640	1240	C0
ATOM 2492 C GLU A 163	-20.689	-27.897	25.869	1.00	64.49	C0	
ANISOU 2492 C GLU A 163	7520	8890	8100	1960	570	1120	C0
ATOM 2493 O GLU A 163	-19.461	-27.759	26.014	1.00	65.60	O0	
ANISOU 2493 O GLU A 163	7450	9260	8220	2080	540	1120	O0
ATOM 2494 CB GLU A 163	-21.820	-29.736	24.575	1.00	67.88	C0	
ANISOU 2494 CB GLU A 163	8350	8790	8650	2040	760	1150	C0
ATOM 2495 CG GLU A 163	-20.740	-30.076	23.562	1.00	69.01	C0	
ANISOU 2495 CG GLU A 163	8420	8940	8870	2190	840	1110	C0
ATOM 2496 CD GLU A 163	-21.246	-30.661	22.252	1.00	68.49	C0	
ANISOU 2496 CD GLU A 163	8540	8600	8880	2150	970	1030	C0
ATOM 2497 OE1 GLU A 163	-22.375	-30.319	21.842	1.00	66.63	O0	
ANISOU 2497 OE1 GLU A 163	8430	8230	8650	1940	990	950	O0
ATOM 2498 OE2 GLU A 163	-20.506	-31.460	21.642	1.00	70.41	O0	
ANISOU 2498 OE2 GLU A 163	8800	8770	9180	2330	1060	1040	O0
ATOM 2499 H GLU A 163	-23.070	-29.864	26.701	1.00	68.72	H0	
ANISOU 2499 H GLU A 163	8570	8910	8630	1980	640	1320	H0
ATOM 2500 HA GLU A 163	-20.556	-29.938	26.203	1.00	69.50	H0	
ANISOU 2500 HA GLU A 163	8340	9310	8760	2300	640	1320	H0
ATOM 2501 HB2 GLU A 163	-22.398	-30.516	24.695	1.00	68.10	H0	
ANISOU 2501 HB2 GLU A 163	8540	8640	8690	2080	800	1210	H0
ATOM 2502 HB3 GLU A 163	-22.369	-29.007	24.220	1.00	66.16	H0	
ANISOU 2502 HB3 GLU A 163	8140	8560	8430	1860	750	1060	H0
ATOM 2503 HG2 GLU A 163	-20.229	-29.264	23.359	1.00	68.59	H0	
ANISOU 2503 HG2 GLU A 163	8210	9050	8800	2120	810	1030	H0
ATOM 2504 HG3 GLU A 163	-20.119	-30.720	23.966	1.00	70.62	H0	
ANISOU 2504 HG3 GLU A 163	8590	9180	9070	2380	840	1200	H0
ATOM 2505 N TYR A 164	-21.540	-26.889	25.654	1.00	59.67	N0	
ANISOU 2505 N TYR A 164	6940	8260	7470	1710	550	1010	N0
ATOM 2506 CA TYR A 164	-21.142	-25.473	25.429	1.00	57.16	C0	
ANISOU 2506 CA TYR A 164	6450	8130	7130	1550	520	880	C0
ATOM 2507 C TYR A 164	-21.667	-24.579	26.562	1.00	54.28	C0	
ANISOU 2507 C TYR A 164	6040	7900	6680	1400	420	880	C0

ATOM 2508 O TYR A 164	-21.769	-23.355	26.362	1.00	52.91	O0	
ANISOU 2508 O TYR A 164	5800	7810	6490	1210	410	770	O0
ATOM 2509 CB TYR A 164	-21.642	-24.997	24.062	1.00	55.55	C0	
ANISOU 2509 CB TYR A 164	6340	7770	7000	1390	600	760	C0
ATOM 2510 CG TYR A 164	-21.178	-25.830	22.893	1.00	56.60	C0	
ANISOU 2510 CG TYR A 164	6520	7770	7210	1520	710	740	C0
ATOM 2511 CD1 TYR A 164	-19.836	-26.129	22.708	1.00	58.68	C0	
ANISOU 2511 CD1 TYR A 164	6630	8180	7490	1680	730	750	C0
ATOM 2512 CD2 TYR A 164	-22.079	-26.310	21.956	1.00	55.79	C0	
ANISOU 2512 CD2 TYR A 164	6620	7410	7160	1470	790	710	C0
ATOM 2513 CE1 TYR A 164	-19.406	-26.892	21.634	1.00	59.56	C0	
ANISOU 2513 CE1 TYR A 164	6790	8160	7680	1800	830	730	C0
ATOM 2514 CE2 TYR A 164	-21.666	-27.073	20.877	1.00	56.79	C0	
ANISOU 2514 CE2 TYR A 164	6800	7420	7360	1570	900	680	C0
ATOM 2515 CZ TYR A 164	-20.325	-27.366	20.714	1.00	58.55	C0	
ANISOU 2515 CZ TYR A 164	6880	7770	7600	1740	920	690	C0
ATOM 2516 OH TYR A 164	-19.920	-28.113	19.646	1.00	60.75	O0	
ANISOU 2516 OH TYR A 164	7210	7920	7950	1850	1030	660	O0
ATOM 2517 H TYR A 164	-22.443	-27.001	25.628	1.00	59.04	H0	
ANISOU 2517 H TYR A 164	6990	8040	7400	1630	570	1010	H0
ATOM 2518 HA TYR A 164	-20.153	-25.421	25.433	1.00	58.15	H0	
ANISOU 2518 HA TYR A 164	6430	8410	7250	1630	510	880	H0
ATOM 2519 HB2 TYR A 164	-22.622	-24.992	24.077	1.00	54.61	H0	
ANISOU 2519 HB2 TYR A 164	6350	7530	6870	1310	610	760	H0
ATOM 2520 HB3 TYR A 164	-21.341	-24.074	23.927	1.00	55.19	H0	
ANISOU 2520 HB3 TYR A 164	6190	7850	6930	1290	590	680	H0
ATOM 2521 HD1 TYR A 164	-19.203	-25.812	23.331	1.00	59.36	H0	
ANISOU 2521 HD1 TYR A 164	6560	8450	7540	1720	670	770	H0
ATOM 2522 HD2 TYR A 164	-22.996	-26.119	22.059	1.00	54.80	H0	
ANISOU 2522 HD2 TYR A 164	6590	7210	7020	1360	780	700	H0
ATOM 2523 HE1 TYR A 164	-18.489	-27.086	21.528	1.00	60.75	H0	
ANISOU 2523 HE1 TYR A 164	6820	8420	7840	1920	850	740	H0
ATOM 2524 HE2 TYR A 164	-22.297	-27.392	20.253	1.00	56.25	H0	
ANISOU 2524 HE2 TYR A 164	6870	7180	7320	1520	950	650	H0
ATOM 2525 N PHE A 165	-21.960	-25.157	27.728	1.00	53.35	N0	
ANISOU 2525 N PHE A 165	5960	7810	6500	1480	360	1010	N0
ATOM 2526 CA PHE A 165	-22.460	-24.412	28.912	1.00	51.68	C0	
ANISOU 2526 CA PHE A 165	5720	7730	6190	1360	270	1010	C0
ATOM 2527 C PHE A 165	-21.282	-23.752	29.634	1.00	51.83	C0	
ANISOU 2527 C PHE A 165	5490	8080	6130	1380	180	990	C0
ATOM 2528 O PHE A 165	-20.261	-24.419	29.851	1.00	53.23	O0	
ANISOU 2528 O PHE A 165	5550	8380	6290	1580	160	1070	O0
ATOM 2529 CB PHE A 165	-23.244	-25.322	29.858	1.00	52.11	C0	
ANISOU 2529 CB PHE A 165	5920	7680	6200	1430	250	1150	C0
ATOM 2530 CG PHE A 165	-24.001	-24.555	30.911	1.00	51.44	C0	
ANISOU 2530 CG PHE A 165	5840	7690	6020	1280	180	1140	C0
ATOM 2531 CD1 PHE A 165	-25.135	-23.832	30.572	1.00	48.93	C0	
ANISOU 2531 CD1 PHE A 165	5620	7250	5720	1080	200	1040	C0
ATOM 2532 CD2 PHE A 165	-23.553	-24.514	32.224	1.00	52.42	C0	
ANISOU 2532 CD2 PHE A 165	5860	8030	6030	1340	80	1220	C0
ATOM 2533 CE1 PHE A 165	-25.822	-23.105	31.531	1.00	48.19	C0	
ANISOU 2533 CE1 PHE A 165	5520	7250	5540	940	150	1020	C0
ATOM 2534 CE2 PHE A 165	-24.243	-23.785	33.180	1.00	51.89	C0	
ANISOU 2534 CE2 PHE A 165	5790	8050	5870	1190	30	1200	C0

ATOM 2535 CZ PHE A 165	-25.376	-23.083	32.832	1.00	49.81	C0
ANISOU 2535 CZ PHE A 165	5630	7660	5640	990	60	1100
ATOM 2536 H PHE A 165	-21.862	-26.046	27.890	1.00	54.45	H0
ANISOU 2536 H PHE A 165	6160	7880	6650	1630	380	1100
ATOM 2537 HA PHE A 165	-23.068	-23.697	28.595	1.00	50.29	H0
ANISOU 2537 HA PHE A 165	5580	7500	6020	1200	280	930
ATOM 2538 HB2 PHE A 165	-23.876	-25.854	29.331	1.00	51.63	H0
ANISOU 2538 HB2 PHE A 165	6010	7420	6190	1430	310	1160
ATOM 2539 HB3 PHE A 165	-22.619	-25.937	30.294	1.00	53.64	H0
ANISOU 2539 HB3 PHE A 165	6070	7950	6360	1590	220	1240
ATOM 2540 HD1 PHE A 165	-25.445	-23.843	29.681	1.00	48.24	H0
ANISOU 2540 HD1 PHE A 165	5600	7030	5700	1040	260	990
ATOM 2541 HD2 PHE A 165	-22.777	-24.993	32.467	1.00	53.94	H0
ANISOU 2541 HD2 PHE A 165	5970	8320	6200	1490	60	1290
ATOM 2542 HE1 PHE A 165	-26.598	-22.626	31.289	1.00	47.13	H0
ANISOU 2542 HE1 PHE A 165	5450	7030	5420	820	170	960
ATOM 2543 HE2 PHE A 165	-23.937	-23.773	34.070	1.00	52.78	H0
ANISOU 2543 HE2 PHE A 165	5830	8320	5900	1230	-40	1250
ATOM 2544 HZ PHE A 165	-25.847	-22.590	33.485	1.00	49.40	H0
ANISOU 2544 HZ PHE A 165	5580	7660	5520	900	30	1080
ATOM 2545 N SER A 166	-21.431	-22.473	29.991	1.00	50.62	N0
ANISOU 2545 N SER A 166	5260	8060	5920	1180	140	890
ATOM 2546 CA SER A 166	-20.395	-21.653	30.672	1.00	51.97	C0
ANISOU 2546 CA SER A 166	5190	8550	6010	1140	60	840
ATOM 2547 C SER A 166	-20.029	-22.296	32.013	1.00	54.04	C0
ANISOU 2547 C SER A 166	5380	8990	6160	1290	-30	970
ATOM 2548 O SER A 166	-20.929	-22.478	32.855	1.00	54.14	O0
ANISOU 2548 O SER A 166	5510	8950	6110	1270	-70	1040
ATOM 2549 CB SER A 166	-20.853	-20.229	30.859	1.00	50.51	C0
ANISOU 2549 CB SER A 166	4990	8420	5780	880	50	700
ATOM 2550 OG SER A 166	-19.864	-19.464	31.532	1.00	51.58	O0
ANISOU 2550 OG SER A 166	4910	8860	5830	820	-10	640
ATOM 2551 H SER A 166	-22.197	-22.003	29.839	1.00	49.48	H0
ANISOU 2551 H SER A 166	5200	7820	5780	1050	160	840
ATOM 2552 HA SER A 166	-19.584	-21.648	30.096	1.00	52.59	H0
ANISOU 2552 HA SER A 166	5160	8700	6120	1180	90	800
ATOM 2553 HB2 SER A 166	-21.038	-19.826	29.981	1.00	49.52	H0
ANISOU 2553 HB2 SER A 166	4910	8180	5720	790	110	620
ATOM 2554 HB3 SER A 166	-21.687	-20.220	31.382	1.00	49.85	H0
ANISOU 2554 HB3 SER A 166	5010	8270	5670	830	30	730
ATOM 2555 N GLN A 167	-18.747	-22.613	32.201	1.00	56.39	N0
ANISOU 2555 N GLN A 167	5480	9520	6420	1450	-80	1010
ATOM 2556 CA GLN A 167	-18.200	-23.175	33.463	1.00	58.83	C0
ANISOU 2556 CA GLN A 167	5680	10060	6610	1620	-180	1140
ATOM 2557 C GLN A 167	-18.157	-22.080	34.537	1.00	58.63	C0
ANISOU 2557 C GLN A 167	5520	10300	6450	1440	-280	1070
ATOM 2558 O GLN A 167	-17.817	-22.410	35.686	1.00	60.31	O0
ANISOU 2558 O GLN A 167	5650	10730	6540	1550	-380	1170
ATOM 2559 CB GLN A 167	-16.810	-23.772	33.221	1.00	61.68	C0
ANISOU 2559 CB GLN A 167	5840	10610	6980	1850	-200	1190
ATOM 2560 CG GLN A 167	-15.733	-22.729	32.947	1.00	62.85	C0
ANISOU 2560 CG GLN A 167	5720	11050	7110	1730	-220	1030
ATOM 2561 CD GLN A 167	-14.448	-23.330	32.433	1.00	65.30	C0
ANISOU 2561 CD GLN A 167	5840	11510	7450	1950	-200	1060

ATOM	2562	OE1	GLN	A	167	-13.996	-23.028	31.329	1.00	65.38	O0	
ANISOU	2562	OE1	GLN	A	167	5800	11490	7550	1890	-120	950	O0
ATOM	2563	NE2	GLN	A	167	-13.843	-24.188	33.239	1.00	67.84	N0	
ANISOU	2563	NE2	GLN	A	167	6070	12010	7690	2210	-280	1210	N0
ATOM	2564	H	GLN	A	167	-18.122	-22.508	31.548	1.00	56.70	H0	
ANISOU	2564	H	GLN	A	167	5430	9600	6510	1470	-40	960	H0
ATOM	2565	HA	GLN	A	167	-18.803	-23.892	33.769	1.00	58.78	H0	
ANISOU	2565	HA	GLN	A	167	5820	9910	6600	1710	-180	1250	H0
ATOM	2566	HB2	GLN	A	167	-16.555	-24.297	34.008	1.00	63.12	H0	
ANISOU	2566	HB2	GLN	A	167	5990	10910	7090	2000	-260	1300	H0
ATOM	2567	HB3	GLN	A	167	-16.863	-24.385	32.457	1.00	61.49	H0	
ANISOU	2567	HB3	GLN	A	167	5910	10410	7050	1950	-120	1220	H0
ATOM	2568	HG2	GLN	A	167	-16.068	-22.083	32.291	1.00	61.37	H0	
ANISOU	2568	HG2	GLN	A	167	5580	10750	6980	1560	-160	920	H0
ATOM	2569	HG3	GLN	A	167	-15.542	-22.240	33.776	1.00	63.44	H0	
ANISOU	2569	HG3	GLN	A	167	5690	11340	7080	1660	-290	1010	H0
ATOM	2570	HE21	GLN	A	167	-13.194	-24.702	32.931	1.00	69.02	H0	
ANISOU	2570	HE21	GLN	A	167	6140	12210	7870	2380	-260	1250	H0
ATOM	2571	HE22	GLN	A	167	-14.088	-24.247	34.087	1.00	68.15	H0	
ANISOU	2571	HE22	GLN	A	167	6120	12120	7650	2220	-350	1280	H0
ATOM	2572	N	TYR	A	168	-18.473	-20.830	34.178	1.00	56.79	N0	
ANISOU	2572	N	TYR	A	168	5280	10060	6240	1170	-250	900	N0
ATOM	2573	CA	TYR	A	168	-18.366	-19.639	35.062	1.00	56.99	C0	
ANISOU	2573	CA	TYR	A	168	5190	10320	6150	970	-310	790	C0
ATOM	2574	C	TYR	A	168	-19.747	-19.231	35.596	1.00	54.62	C0	
ANISOU	2574	C	TYR	A	168	5080	9850	5820	820	-310	780	C0
ATOM	2575	O	TYR	A	168	-19.802	-18.333	36.452	1.00	54.95	O0	
ANISOU	2575	O	TYR	A	168	5060	10070	5760	660	-360	700	O0
ATOM	2576	CB	TYR	A	168	-17.659	-18.504	34.318	1.00	57.12	C0	
ANISOU	2576	CB	TYR	A	168	5060	10440	6200	780	-270	600	C0
ATOM	2577	CG	TYR	A	168	-16.255	-18.846	33.883	1.00	59.24	C0	
ANISOU	2577	CG	TYR	A	168	5100	10920	6480	910	-270	600	C0
ATOM	2578	CD1	TYR	A	168	-15.287	-19.183	34.815	1.00	61.45	C0	
ANISOU	2578	CD1	TYR	A	168	5160	11540	6650	1050	-380	660	C0
ATOM	2579	CD2	TYR	A	168	-15.893	-18.851	32.543	1.00	58.80	C0	
ANISOU	2579	CD2	TYR	A	168	5050	10740	6550	920	-170	540	C0
ATOM	2580	CE1	TYR	A	168	-13.997	-19.513	34.432	1.00	63.26	C0	
ANISOU	2580	CE1	TYR	A	168	5160	11990	6880	1190	-390	660	C0
ATOM	2581	CE2	TYR	A	168	-14.604	-19.175	32.143	1.00	60.69	C0	
ANISOU	2581	CE2	TYR	A	168	5070	11180	6810	1050	-170	530	C0
ATOM	2582	CZ	TYR	A	168	-13.653	-19.505	33.093	1.00	63.04	C0	
ANISOU	2582	CZ	TYR	A	168	5140	11830	6990	1180	-280	590	C0
ATOM	2583	OH	TYR	A	168	-12.379	-19.827	32.719	1.00	65.75	O0	
ANISOU	2583	OH	TYR	A	168	5250	12400	7340	1320	-280	580	O0
ATOM	2584	H	TYR	A	168	-18.758	-20.608	33.345	1.00	55.69	H0	
ANISOU	2584	H	TYR	A	168	5220	9760	6190	1100	-170	840	H0
ATOM	2585	HA	TYR	A	168	-17.806	-19.886	35.841	1.00	58.50	H0	
ANISOU	2585	HA	TYR	A	168	5250	10730	6250	1060	-390	850	H0
ATOM	2586	HB2	TYR	A	168	-18.190	-18.270	33.529	1.00	55.64	H0	
ANISOU	2586	HB2	TYR	A	168	5000	10040	6100	700	-190	550	H0
ATOM	2587	HB3	TYR	A	168	-17.628	-17.719	34.904	1.00	57.28	H0	
ANISOU	2587	HB3	TYR	A	168	5020	10600	6150	630	-300	520	H0
ATOM	2588	HD1	TYR	A	168	-15.512	-19.191	35.731	1.00	61.95	H0	
ANISOU	2588	HD1	TYR	A	168	5230	11700	6620	1050	-450	710	H0

ATOM 2589 HD2 TYR A 168	-16.535 -18.627 31.889	1.00 57.25	H0
ANISOU 2589 HD2 TYR A 168	5000 10320 6430	830 -100 500	H0
ATOM 2590 HE1 TYR A 168	-13.352 -19.735 35.084	1.00 65.15	H0
ANISOU 2590 HE1 TYR A 168	5240 12470 7040	1280 -470 700	H0
ATOM 2591 HE2 TYR A 168	-14.376 -19.169 31.228	1.00 60.31	H0
ANISOU 2591 HE2 TYR A 168	5030 11050 6840	1040 -90 480	H0
ATOM 2592 N SER A 169	-20.822 -19.873 35.132	1.00 52.49	N0
ANISOU 2592 N SER A 169	5040 9270 5630	860 -250 850	N0
ATOM 2593 CA SER A 169	-22.187 -19.736 35.702	1.00 50.84	C0
ANISOU 2593 CA SER A 169	5010 8910 5390	760 -240 870	C0
ATOM 2594 C SER A 169	-22.176 -20.198 37.164	1.00 52.58	C0
ANISOU 2594 C SER A 169	5200 9310 5470	850 -340 990	C0
ATOM 2595 O SER A 169	-21.433 -21.137 37.485	1.00 54.03	O0
ANISOU 2595 O SER A 169	5320 9600 5610	1060 -380 1120	O0
ATOM 2596 CB SER A 169	-23.197 -20.518 34.903	1.00 49.03	C0
ANISOU 2596 CB SER A 169	5000 8350 5280	820 -160 930	C0
ATOM 2597 OG SER A 169	-24.493 -20.424 35.483	1.00 47.02	O0
ANISOU 2597 OG SER A 169	4900 7980 4990	720 -150 950	O0
ATOM 2598 H SER A 169	-20.800 -20.441 34.422	1.00 52.36	H0
ANISOU 2598 H SER A 169	5080 9120 5700	950 -200 890	H0
ATOM 2599 HA SER A 169	-22.438 -18.774 35.678	1.00 50.07	H0
ANISOU 2599 HA SER A 169	4910 8830 5290	590 -230 750	H0
ATOM 2600 HB2 SER A 169	-23.223 -20.174 33.984	1.00 47.99	H0
ANISOU 2600 HB2 SER A 169	4890 8120 5230	760 -100 850	H0
ATOM 2601 HB3 SER A 169	-22.923 -21.462 34.867	1.00 49.77	H0
ANISOU 2601 HB3 SER A 169	5120 8410 5380	980 -160 1040	H0
ATOM 2602 N ARG A 170	-22.990 -19.568 38.012	1.00 52.87	N0
ANISOU 2602 N ARG A 170	5300 9370 5420	690 -360 950	N0
ATOM 2603 CA ARG A 170	-23.239 -20.021 39.408	1.00 54.81	C0
ANISOU 2603 CA ARG A 170	5560 9740 5520	760 -440 1070	C0
ATOM 2604 C ARG A 170	-23.941 -21.386 39.384	1.00 54.40	C0
ANISOU 2604 C ARG A 170	5700 9460 5510	920 -400 1250	C0
ATOM 2605 O ARG A 170	-23.910 -22.077 40.425	1.00 55.50	O0
ANISOU 2605 O ARG A 170	5860 9700 5530	1040 -460 1390	O0
ATOM 2606 CB ARG A 170	-24.078 -18.990 40.169	1.00 54.93	C0
ANISOU 2606 CB ARG A 170	5620 9800 5450	540 -450 970	C0
ATOM 2607 CG ARG A 170	-23.314 -17.736 40.568	1.00 56.83	C0
ANISOU 2607 CG ARG A 170	5670 10310 5610	380 -490 810	C0
ATOM 2608 CD ARG A 170	-24.213 -16.732 41.261	1.00 57.39	C0
ANISOU 2608 CD ARG A 170	5810 10380 5610	170 -480 700	C0
ATOM 2609 NE ARG A 170	-25.197 -16.169 40.340	1.00 56.78	N0
ANISOU 2609 NE ARG A 170	5890 10020 5660	50 -380 600	N0
ATOM 2610 CZ ARG A 170	-26.217 -15.384 40.689	1.00 56.58	C0
ANISOU 2610 CZ ARG A 170	5960 9920 5610	-100 -340 520	C0
ATOM 2611 NH1 ARG A 170	-26.406 -15.056 41.958	1.00 58.26	N0
ANISOU 2611 NH1 ARG A 170	6150 10300 5680	-170 -390 500	N0
ATOM 2612 NH2 ARG A 170	-27.046 -14.929 39.763	1.00 54.79	N0
ANISOU 2612 NH2 ARG A 170	5860 9450 5510	-180 -250 440	N0
ATOM 2613 H ARG A 170	-23.445 -18.813 37.783	1.00 51.72	H0
ANISOU 2613 H ARG A 170	5190 9160 5300	550 -330 850	H0
ATOM 2614 HA ARG A 170	-22.370 -20.121 39.861	1.00 56.31	H0
ANISOU 2614 HA ARG A 170	5610 10150 5640	830 -500 1100	H0
ATOM 2615 HB2 ARG A 170	-24.840 -18.732 39.608	1.00 53.50	H0
ANISOU 2615 HB2 ARG A 170	5550 9420 5350	460 -380 910	H0

ATOM 2616 HB3 ARG A 170	-24.432	-19.414	40.979	1.00	55.58	H0
ANISOU 2616 HB3 ARG A 170	5750	9910	5450	580	-480	1060
ATOM 2617 HG2 ARG A 170	-22.580	-17.980	41.171	1.00	58.43	H0
ANISOU 2617 HG2 ARG A 170	5750	10720	5720	450	-570	860
ATOM 2618 HG3 ARG A 170	-22.927	-17.322	39.768	1.00	56.38	H0
ANISOU 2618 HG3 ARG A 170	5570	10220	5630	330	-460	720
ATOM 2619 HD2 ARG A 170	-24.679	-17.175	42.000	1.00	57.85	H0
ANISOU 2619 HD2 ARG A 170	5930	10450	5600	210	-510	780
ATOM 2620 HD3 ARG A 170	-23.666	-16.008	41.635	1.00	58.16	H0
ANISOU 2620 HD3 ARG A 170	5790	10660	5640	70	-520	600
ATOM 2621 HE ARG A 170	-25.110	-16.358	39.493	1.00	56.05	H0
ANISOU 2621 HE ARG A 170	5820	9810	5670	90	-340	600
ATOM 2622 HH11 ARG A 170	-25.859	-15.351	42.578	1.00	59.15	H0
ANISOU 2622 HH11 ARG A 170	6180	10590	5710	-120	-460	550
ATOM 2623 HH12 ARG A 170	-27.081	-14.537	42.179	1.00	57.30	H0
ANISOU 2623 HH12 ARG A 170	6100	10130	5550	-270	-360	440
ATOM 2624 HH21 ARG A 170	-26.923	-15.147	38.918	1.00	54.23	H0
ANISOU 2624 HH21 ARG A 170	5810	9270	5520	-130	-220	450
ATOM 2625 HH22 ARG A 170	-27.721	-14.411	39.993	1.00	54.20	H0
ANISOU 2625 HH22 ARG A 170	5850	9330	5420	-260	-230	390
ATOM 2626 N PHE A 171	-24.531	-21.761	38.240	1.00	52.64	N0
ANISOU 2626 N PHE A 171	5620	8950	5430	930	-300	1240
ATOM 2627 CA PHE A 171	-25.404	-22.953	38.066	1.00	52.43	C0
ANISOU 2627 CA PHE A 171	5810	8650	5460	1030	-240	1370
ATOM 2628 C PHE A 171	-24.729	-24.001	37.176	1.00	53.34	C0
ANISOU 2628 C PHE A 171	5950	8650	5670	1230	-190	1450
ATOM 2629 O PHE A 171	-23.768	-23.672	36.454	1.00	53.71	O0
ANISOU 2629 O PHE A 171	5850	8780	5770	1260	-190	1380
ATOM 2630 CB PHE A 171	-26.755	-22.502	37.513	1.00	49.71	C0
ANISOU 2630 CB PHE A 171	5620	8080	5190	850	-160	1270
ATOM 2631 CG PHE A 171	-27.399	-21.453	38.378	1.00	49.25	C0
ANISOU 2631 CG PHE A 171	5540	8140	5040	660	-200	1180
ATOM 2632 CD1 PHE A 171	-28.130	-21.815	39.500	1.00	49.99	C0
ANISOU 2632 CD1 PHE A 171	5720	8250	5020	650	-220	1270
ATOM 2633 CD2 PHE A 171	-27.218	-20.106	38.113	1.00	48.37	C0
ANISOU 2633 CD2 PHE A 171	5320	8120	4930	500	-200	1010
ATOM 2634 CE1 PHE A 171	-28.698	-20.850	40.317	1.00	49.80	C0
ANISOU 2634 CE1 PHE A 171	5670	8340	4910	490	-240	1190
ATOM 2635 CE2 PHE A 171	-27.787	-19.142	38.930	1.00	48.26	C0
ANISOU 2635 CE2 PHE A 171	5300	8200	4830	340	-220	930
ATOM 2636 CZ PHE A 171	-28.527	-19.515	40.029	1.00	48.90	C0
ANISOU 2636 CZ PHE A 171	5460	8310	4810	340	-240	1010
ATOM 2637 H PHE A 171	-24.456	-21.286	37.469	1.00	51.83	H0
ANISOU 2637 H PHE A 171	5500	8790	5400	860	-260	1140
ATOM 2638 HA PHE A 171	-25.555	-23.359	38.956	1.00	53.28	H0
ANISOU 2638 HA PHE A 171	5950	8820	5470	1080	-280	1470
ATOM 2639 HB2 PHE A 171	-26.624	-22.143	36.610	1.00	49.03	H0
ANISOU 2639 HB2 PHE A 171	5510	7930	5190	800	-120	1180
ATOM 2640 HB3 PHE A 171	-27.347	-23.280	37.450	1.00	49.84	H0
ANISOU 2640 HB3 PHE A 171	5770	7940	5230	890	-120	1350
ATOM 2641 HD1 PHE A 171	-28.251	-22.729	39.702	1.00	50.71	H0
ANISOU 2641 HD1 PHE A 171	5890	8270	5110	750	-200	1390
ATOM 2642 HD2 PHE A 171	-26.712	-19.844	37.361	1.00	48.17	H0
ANISOU 2642 HD2 PHE A 171	5240	8090	4970	500	-180	960

ATOM 2643 HE1 PHE A 171	-29.206	-21.109	41.069	1.00	50.11	H0	
ANISOU 2643 HE1 PHE A 171	5770	8390	4870	480	-250	1250	H0
ATOM 2644 HE2 PHE A 171	-27.669	-18.227	38.730	1.00	47.73	H0	
ANISOU 2644 HE2 PHE A 171	5180	8180	4770	240	-220	810	H0
ATOM 2645 HZ PHE A 171	-28.914	-18.857	40.584	1.00	48.66	H0	
ANISOU 2645 HZ PHE A 171	5430	8340	4720	230	-250	950	H0
ATOM 2646 N GLU A 172	-25.219	-25.241	37.257	1.00	54.10	N0	
ANISOU 2646 N GLU A 172	6220	8550	5790	1360	-150	1600	N0
ATOM 2647 CA GLU A 172	-24.795	-26.377	36.397	1.00	55.32	C0	
ANISOU 2647 CA GLU A 172	6450	8520	6040	1550	-80	1680	C0
ATOM 2648 C GLU A 172	-26.042	-27.114	35.902	1.00	54.28	C0	
ANISOU 2648 C GLU A 172	6580	8060	5990	1500	30	1710	C0
ATOM 2649 O GLU A 172	-27.061	-27.097	36.614	1.00	53.90	O0	
ANISOU 2649 O GLU A 172	6640	7960	5880	1390	30	1730	O0
ATOM 2650 CB GLU A 172	-23.846	-27.310	37.151	1.00	58.16	C0	
ANISOU 2650 CB GLU A 172	6770	9010	6320	1820	-130	1860	C0
ATOM 2651 CG GLU A 172	-24.468	-27.995	38.355	1.00	59.52	C0	
ANISOU 2651 CG GLU A 172	7080	9150	6380	1870	-150	2020	C0
ATOM 2652 CD GLU A 172	-23.492	-28.822	39.176	1.00	62.56	C0	
ANISOU 2652 CD GLU A 172	7420	9690	6660	2140	-210	2210	C0
ATOM 2653 OE1 GLU A 172	-22.342	-29.003	38.727	1.00	64.27	O0	
ANISOU 2653 OE1 GLU A 172	7490	10020	6910	2320	-240	2220	O0
ATOM 2654 OE2 GLU A 172	-23.881	-29.278	40.264	1.00	63.97	O0	
ANISOU 2654 OE2 GLU A 172	7690	9890	6720	2190	-240	2350	O0
ATOM 2655 H GLU A 172	-25.862	-25.468	37.862	1.00	54.23	H0	
ANISOU 2655 H GLU A 172	6330	8520	5750	1330	-150	1650	H0
ATOM 2656 HA GLU A 172	-24.320	-26.011	35.615	1.00	54.79	H0	
ANISOU 2656 HA GLU A 172	6300	8470	6040	1540	-60	1590	H0
ATOM 2657 HB2 GLU A 172	-23.525	-27.996	36.528	1.00	58.74	H0	
ANISOU 2657 HB2 GLU A 172	6890	8960	6470	1950	-80	1900	H0
ATOM 2658 HB3 GLU A 172	-23.071	-26.790	37.448	1.00	58.81	H0	
ANISOU 2658 HB3 GLU A 172	6670	9320	6350	1830	-200	1830	H0
ATOM 2659 HG2 GLU A 172	-24.865	-27.315	38.939	1.00	58.89	H0	
ANISOU 2659 HG2 GLU A 172	6970	9180	6230	1730	-190	1970	H0
ATOM 2660 HG3 GLU A 172	-25.191	-28.583	38.051	1.00	59.08	H0	
ANISOU 2660 HG3 GLU A 172	7210	8860	6380	1850	-70	2060	H0
ATOM 2661 N ILE A 173	-25.950	-27.716	34.715	1.00	53.95	N0	
ANISOU 2661 N ILE A 173	6620	7810	6070	1560	120	1690	N0
ATOM 2662 CA ILE A 173	-27.037	-28.505	34.067	1.00	53.34	C0	
ANISOU 2662 CA ILE A 173	6770	7410	6080	1510	230	1700	C0
ATOM 2663 C ILE A 173	-26.863	-29.971	34.469	1.00	55.15	C0	
ANISOU 2663 C ILE A 173	7160	7500	6300	1720	280	1880	C0
ATOM 2664 O ILE A 173	-25.766	-30.507	34.251	1.00	56.41	O0	
ANISOU 2664 O ILE A 173	7260	7700	6480	1940	280	1950	O0
ATOM 2665 CB ILE A 173	-27.004	-28.323	32.537	1.00	52.23	C0	
ANISOU 2665 CB ILE A 173	6640	7140	6070	1460	310	1560	C0
ATOM 2666 CG1 ILE A 173	-27.343	-26.882	32.146	1.00	50.50	C0	
ANISOU 2666 CG1 ILE A 173	6310	7020	5860	1250	270	1390	C0
ATOM 2667 CG2 ILE A 173	-27.911	-29.338	31.855	1.00	52.06	C0	
ANISOU 2667 CG2 ILE A 173	6850	6800	6130	1440	430	1580	C0
ATOM 2668 CD1 ILE A 173	-27.252	-26.595	30.664	1.00	49.72	C0	
ANISOU 2668 CD1 ILE A 173	6200	6810	5870	1200	340	1270	C0
ATOM 2669 H ILE A 173	-25.189	-27.683	34.215	1.00	54.34	H0	
ANISOU 2669 H ILE A 173	6580	7910	6160	1640	120	1660	H0

ATOM 2670 HA ILE A 173	-27.895	-28.187	34.399	1.00	52.43	H0	
ANISOU 2670 HA ILE A 173	6710	7270	5930	1370	230	1670	H0
ATOM 2671 HB ILE A 173	-26.079	-28.501	32.237	1.00	53.12	H0	
ANISOU 2671 HB ILE A 173	6670	7300	6210	1590	300	1580	H0
ATOM 2672 HG12 ILE A 173	-28.254	-26.683	32.448	1.00	49.73	H0	
ANISOU 2672 HG12 ILE A 173	6280	6880	5740	1130	280	1370	H0
ATOM 2673 HG13 ILE A 173	-26.733	-26.277	32.619	1.00	50.79	H0	
ANISOU 2673 HG13 ILE A 173	6200	7250	5850	1250	210	1380	H0
ATOM 2674 HG21 ILE A 173	-27.546	-30.233	31.967	1.00	53.47	H0	
ANISOU 2674 HG21 ILE A 173	7100	6900	6310	1590	460	1680	H0
ATOM 2675 HG22 ILE A 173	-27.973	-29.137	30.905	1.00	51.21	H0	
ANISOU 2675 HG22 ILE A 173	6740	6620	6090	1390	470	1490	H0
ATOM 2676 HG23 ILE A 173	-28.799	-29.300	32.251	1.00	51.56	H0	
ANISOU 2676 HG23 ILE A 173	6870	6690	6030	1330	430	1580	H0
ATOM 2677 HD11 ILE A 173	-26.427	-26.970	30.309	1.00	50.48	H0	
ANISOU 2677 HD11 ILE A 173	6250	6920	6000	1320	350	1290	H0
ATOM 2678 HD12 ILE A 173	-27.257	-25.633	30.518	1.00	48.66	H0	
ANISOU 2678 HD12 ILE A 173	5980	6770	5730	1090	310	1170	H0
ATOM 2679 HD13 ILE A 173	-28.012	-26.993	30.206	1.00	49.09	H0	
ANISOU 2679 HD13 ILE A 173	6250	6560	5840	1140	400	1250	H0
ATOM 2680 N LEU A 174	-27.911	-30.582	35.025	1.00	55.26	N0	
ANISOU 2680 N LEU A 174	7370	7360	6270	1660	330	1960	N0
ATOM 2681 CA LEU A 174	-27.944	-32.022	35.391	1.00	57.70	C0	
ANISOU 2681 CA LEU A 174	7880	7470	6570	1830	400	2140	C0
ATOM 2682 C LEU A 174	-28.492	-32.835	34.212	1.00	57.39	C0	
ANISOU 2682 C LEU A 174	8040	7110	6660	1800	540	2090	C0
ATOM 2683 O LEU A 174	-28.027	-33.968	34.019	1.00	59.09	O0	
ANISOU 2683 O LEU A 174	8380	7160	6910	1990	620	2210	O0
ATOM 2684 CB LEU A 174	-28.805	-32.208	36.645	1.00	58.02	C0	
ANISOU 2684 CB LEU A 174	8030	7520	6490	1750	390	2240	C0
ATOM 2685 CG LEU A 174	-28.421	-31.339	37.841	1.00	58.25	C0	
ANISOU 2685 CG LEU A 174	7880	7870	6370	1740	250	2270	C0
ATOM 2686 CD1 LEU A 174	-29.370	-31.575	39.007	1.00	58.87	C0	
ANISOU 2686 CD1 LEU A 174	8090	7940	6340	1650	260	2360	C0
ATOM 2687 CD2 LEU A 174	-26.983	-31.597	38.264	1.00	60.38	C0	
ANISOU 2687 CD2 LEU A 174	8020	8340	6590	2010	170	2380	C0
ATOM 2688 H LEU A 174	-28.685	-30.142	35.217	1.00	54.33	H0	
ANISOU 2688 H LEU A 174	7270	7240	6130	1500	320	1910	H0
ATOM 2689 HA LEU A 174	-27.024	-32.319	35.577	1.00	58.97	H0	
ANISOU 2689 HA LEU A 174	7980	7720	6710	2020	370	2220	H0
ATOM 2690 HB2 LEU A 174	-29.735	-32.019	36.410	1.00	56.86	H0	
ANISOU 2690 HB2 LEU A 174	7960	7280	6370	1580	430	2160	H0
ATOM 2691 HB3 LEU A 174	-28.755	-33.147	36.916	1.00	59.60	H0	
ANISOU 2691 HB3 LEU A 174	8370	7600	6670	1870	440	2370	H0
ATOM 2692 HG LEU A 174	-28.497	-30.391	37.571	1.00	56.81	H0	
ANISOU 2692 HG LEU A 174	7570	7800	6210	1620	210	2130	H0
ATOM 2693 HD11 LEU A 174	-30.289	-31.502	38.698	1.00	57.71	H0	
ANISOU 2693 HD11 LEU A 174	8030	7660	6230	1490	320	2290	H0
ATOM 2694 HD12 LEU A 174	-29.207	-30.910	39.698	1.00	58.76	H0	
ANISOU 2694 HD12 LEU A 174	7960	8130	6230	1620	170	2350	H0
ATOM 2695 HD13 LEU A 174	-29.221	-32.464	39.372	1.00	60.50	H0	
ANISOU 2695 HD13 LEU A 174	8420	8060	6510	1790	290	2500	H0
ATOM 2696 HD21 LEU A 174	-26.841	-32.554	38.369	1.00	61.86	H0	
ANISOU 2696 HD21 LEU A 174	8330	8400	6770	2160	220	2510	H0

ATOM 2697	HD22 LEU A 174	-26.809	-31.150	39.110	1.00	60.73	H0
ANISOU 2697	HD22 LEU A 174	7960	8590	6520	2000	90 2410	H0
ATOM 2698	HD23 LEU A 174	-26.376	-31.253	37.586	1.00	59.92	H0
ANISOU 2698	HD23 LEU A 174	7840	8340	6590	2040	160 2300	H0
ATOM 2699	N ASP A 175	-29.450	-32.284	33.460	1.00	55.75	N0
ANISOU 2699	N ASP A 175	7850	6820	6510	1560	580 1930	N0
ATOM 2700	CA ASP A 175	-30.102	-32.980	32.318	1.00	56.21	C0
ANISOU 2700	CA ASP A 175	8090	6590	6680	1490	710 1870	C0
ATOM 2701	C ASP A 175	-30.918	-31.980	31.493	1.00	53.77	C0
ANISOU 2701	C ASP A 175	7710	6310	6410	1250	710 1670	C0
ATOM 2702	O ASP A 175	-31.403	-30.985	32.068	1.00	52.48	O0
ANISOU 2702	O ASP A 175	7440	6310	6190	1120	630 1620	O0
ATOM 2703	CB ASP A 175	-30.997	-34.121	32.816	1.00	58.36	C0
ANISOU 2703	CB ASP A 175	8620	6630	6920	1460	810 1970	C0
ATOM 2704	CG ASP A 175	-31.230	-35.235	31.807	1.00	59.75	C0
ANISOU 2704	CG ASP A 175	9000	6500	7200	1480	960 1950	C0
ATOM 2705	OD1 ASP A 175	-31.497	-34.923	30.625	1.00	59.33	O0
ANISOU 2705	OD1 ASP A 175	8920	6390	7230	1360	1000 1800	O0
ATOM 2706	OD2 ASP A 175	-31.152	-36.409	32.216	1.00	62.63	O0
ANISOU 2706	OD2 ASP A 175	9560	6680	7550	1600	1040 2100	O0
ATOM 2707	H ASP A 175	-29.770	-31.444	33.610	1.00	54.62	H0
ANISOU 2707	H ASP A 175	7620	6800	6340	1440	530 1860	H0
ATOM 2708	HA ASP A 175	-29.397	-33.363	31.745	1.00	56.89	H0
ANISOU 2708	HA ASP A 175	8170	6630	6820	1620	740 1870	H0
ATOM 2709	HB2 ASP A 175	-30.595	-34.516	33.616	1.00	59.67	H0
ANISOU 2709	HB2 ASP A 175	8810	6840	7030	1590	790 2100	H0
ATOM 2710	HB3 ASP A 175	-31.869	-33.752	33.067	1.00	57.35	H0
ANISOU 2710	HB3 ASP A 175	8500	6530	6760	1290	810 1920	H0
ATOM 2711	N VAL A 176	-31.045	-32.246	30.191	1.00	53.69	N0
ANISOU 2711	N VAL A 176	7760	6130	6500	1220	790 1570	N0
ATOM 2712	CA VAL A 176	-31.967	-31.547	29.248	1.00	51.93	C0
ANISOU 2712	CA VAL A 176	7520	5890	6320	1000	800 1400	C0
ATOM 2713	C VAL A 176	-32.708	-32.626	28.454	1.00	53.44	C0
ANISOU 2713	C VAL A 176	7930	5800	6570	930	940 1370	C0
ATOM 2714	O VAL A 176	-32.031	-33.473	27.841	1.00	55.00	O0
ANISOU 2714	O VAL A 176	8210	5860	6830	1070	1010 1400	O0
ATOM 2715	CB VAL A 176	-31.220	-30.571	28.316	1.00	50.45	C0
ANISOU 2715	CB VAL A 176	7160	5820	6180	1010	760 1280	C0
ATOM 2716	CG1 VAL A 176	-32.157	-29.906	27.317	1.00	48.78	C0
ANISOU 2716	CG1 VAL A 176	6950	5580	6000	810	780 1120	C0
ATOM 2717	CG2 VAL A 176	-30.460	-29.511	29.095	1.00	49.98	C0
ANISOU 2717	CG2 VAL A 176	6900	6030	6060	1050	640 1300	C0
ATOM 2718	H VAL A 176	-30.553	-32.897	29.784	1.00	54.57	H0
ANISOU 2718	H VAL A 176	7930	6140	6660	1330	840 1600	H0
ATOM 2719	HA VAL A 176	-32.614	-31.043	29.768	1.00	51.29	H0
ANISOU 2719	HA VAL A 176	7410	5880	6190	890	770 1380	H0
ATOM 2720	HB VAL A 176	-30.559	-31.100	27.804	1.00	51.29	H0
ANISOU 2720	HB VAL A 176	7290	5860	6340	1130	800 1300	H0
ATOM 2721	HG11 VAL A 176	-32.472	-30.565	26.675	1.00	49.15	H0
ANISOU 2721	HG11 VAL A 176	7110	5470	6090	790	850 1100	H0
ATOM 2722	HG12 VAL A 176	-31.682	-29.199	26.846	1.00	48.07	H0
ANISOU 2722	HG12 VAL A 176	6750	5580	5930	820	750 1060	H0
ATOM 2723	HG13 VAL A 176	-32.917	-29.525	27.789	1.00	48.16	H0
ANISOU 2723	HG13 VAL A 176	6870	5550	5880	700	750 1110	H0

ATOM 2724 HG21 VAL A 176	-31.081	-29.010	29.652	1.00	49.37	H0	
ANISOU 2724 HG21 VAL A 176	6800	6020	5930	950	600	1280	H0
ATOM 2725 HG22 VAL A 176	-30.020	-28.904	28.475	1.00	49.35	H0	
ANISOU 2725 HG22 VAL A 176	6720	6020	6010	1040	630	1220	H0
ATOM 2726 HG23 VAL A 176	-29.792	-29.938	29.659	1.00	51.25	H0	
ANISOU 2726 HG23 VAL A 176	7040	6230	6200	1190	620	1400	H0
ATOM 2727 N THR A 177	-34.042	-32.616	28.502	1.00	53.44	N0	
ANISOU 2727 N THR A 177	8010	5740	6550	730	970	1310	N0
ATOM 2728 CA THR A 177	-34.924	-33.482	27.677	1.00	54.68	C0	
ANISOU 2728 CA THR A 177	8350	5670	6750	600	1090	1240	C0
ATOM 2729 C THR A 177	-35.766	-32.571	26.778	1.00	53.57	C0	
ANISOU 2729 C THR A 177	8120	5610	6630	410	1060	1060	C0
ATOM 2730 O THR A 177	-36.149	-31.477	27.238	1.00	51.12	O0	
ANISOU 2730 O THR A 177	7670	5490	6270	330	970	1030	O0
ATOM 2731 CB THR A 177	-35.774	-34.417	28.548	1.00	56.26	C0	
ANISOU 2731 CB THR A 177	8730	5740	6910	530	1160	1330	C0
ATOM 2732 OG1 THR A 177	-36.609	-33.616	29.381	1.00	55.57	O0	
ANISOU 2732 OG1 THR A 177	8550	5820	6740	390	1090	1310	O0
ATOM 2733 CG2 THR A 177	-34.943	-35.343	29.410	1.00	58.38	C0	
ANISOU 2733 CG2 THR A 177	9110	5920	7150	740	1190	1520	C0
ATOM 2734 H THR A 177	-34.515	-32.068	29.055	1.00	52.83	H0	
ANISOU 2734 H THR A 177	7880	5770	6420	650	920	1300	H0
ATOM 2735 HA THR A 177	-34.350	-34.036	27.101	1.00	55.44	H0	
ANISOU 2735 HA THR A 177	8500	5660	6900	700	1140	1250	H0
ATOM 2736 HB THR A 177	-36.343	-34.962	27.954	1.00	56.59	H0	
ANISOU 2736 HB THR A 177	8890	5640	6980	430	1250	1270	H0
ATOM 2737 HG21 THR A 177	-34.342	-35.862	28.845	1.00	59.11	H0	
ANISOU 2737 HG21 THR A 177	9250	5900	7300	850	1250	1530	H0
ATOM 2738 HG22 THR A 177	-35.530	-35.948	29.898	1.00	59.26	H0	
ANISOU 2738 HG22 THR A 177	9350	5930	7240	680	1250	1570	H0
ATOM 2739 HG23 THR A 177	-34.420	-34.819	30.042	1.00	58.15	H0	
ANISOU 2739 HG23 THR A 177	8960	6050	7080	830	1110	1580	H0
ATOM 2740 N GLN A 178	-36.005	-32.995	25.537	1.00	55.01	N0	
ANISOU 2740 N GLN A 178	8380	5660	6870	350	1140	960	N0
ATOM 2741 CA GLN A 178	-36.758	-32.215	24.522	1.00	55.35	C0	
ANISOU 2741 CA GLN A 178	8340	5770	6920	190	1120	800	C0
ATOM 2742 C GLN A 178	-37.774	-33.148	23.863	1.00	56.61	C0	
ANISOU 2742 C GLN A 178	8670	5750	7090	30	1230	720	C0
ATOM 2743 O GLN A 178	-37.337	-34.065	23.147	1.00	58.38	O0	
ANISOU 2743 O GLN A 178	9020	5800	7370	90	1330	710	O0
ATOM 2744 CB GLN A 178	-35.792	-31.588	23.512	1.00	55.34	C0	
ANISOU 2744 CB GLN A 178	8240	5830	6960	290	1090	730	C0
ATOM 2745 CG GLN A 178	-34.829	-30.585	24.140	1.00	55.72	C0	
ANISOU 2745 CG GLN A 178	8110	6070	6990	410	980	790	C0
ATOM 2746 CD GLN A 178	-34.279	-29.566	23.165	1.00	55.97	C0	
ANISOU 2746 CD GLN A 178	8010	6210	7050	420	940	690	C0
ATOM 2747 OE1 GLN A 178	-34.925	-29.189	22.190	1.00	55.87	O0	
ANISOU 2747 OE1 GLN A 178	8000	6190	7040	300	960	580	O0
ATOM 2748 NE2 GLN A 178	-33.070	-29.096	23.430	1.00	56.08	N0	
ANISOU 2748 NE2 GLN A 178	7900	6330	7070	550	890	740	N0
ATOM 2749 H GLN A 178	-35.713	-33.803	25.233	1.00	56.13	H0	
ANISOU 2749 H GLN A 178	8630	5650	7050	410	1220	980	H0
ATOM 2750 HA GLN A 178	-37.243	-31.494	24.982	1.00	54.33	H0	
ANISOU 2750 HA GLN A 178	8130	5770	6740	120	1060	780	H0

ATOM 2751 HB2 GLN A 178	-35.276	-32.305	23.087	1.00	56.33	H0
ANISOU 2751 HB2 GLN A 178	8440	5830	7130	370	1150	750
ATOM 2752 HB3 GLN A 178	-36.317	-31.142	22.817	1.00	54.60	H0
ANISOU 2752 HB3 GLN A 178	8110	5770	6870	190	1080	630
ATOM 2753 HG2 GLN A 178	-35.293	-30.110	24.862	1.00	55.27	H0
ANISOU 2753 HG2 GLN A 178	8000	6110	6890	350	930	810
ATOM 2754 HG3 GLN A 178	-34.079	-31.073	24.542	1.00	56.75	H0
ANISOU 2754 HG3 GLN A 178	8260	6170	7130	540	1000	880
ATOM 2755 HE21 GLN A 178	-32.525	-28.878	22.769	1.00	55.90	H0
ANISOU 2755 HE21 GLN A 178	7840	6320	7070	590	900	700
ATOM 2756 HE22 GLN A 178	-32.806	-29.000	24.268	1.00	56.32	H0
ANISOU 2756 HE22 GLN A 178	7890	6430	7070	600	850	810
ATOM 2757 N LYS A 179	-39.069	-32.934	24.127	1.00	56.35	N0
ANISOU 2757 N LYS A 179	8630	5780	7010	-160	1220	660
ATOM 2758 CA LYS A 179	-40.180	-33.761	23.582	1.00	56.87	C0
ANISOU 2758 CA LYS A 179	8830	5720	7070	-350	1320	560
ATOM 2759 C LYS A 179	-41.153	-32.875	22.794	1.00	54.65	C0
ANISOU 2759 C LYS A 179	8420	5590	6760	-510	1270	410
ATOM 2760 O LYS A 179	-41.211	-31.655	23.058	1.00	53.22	O0
ANISOU 2760 O LYS A 179	8070	5610	6540	-480	1160	400
ATOM 2761 CB LYS A 179	-40.891	-34.524	24.705	1.00	58.61	C0
ANISOU 2761 CB LYS A 179	9170	5860	7240	-440	1390	650
ATOM 2762 CG LYS A 179	-41.885	-33.720	25.536	1.00	58.43	C0
ANISOU 2762 CG LYS A 179	9020	6030	7150	-560	1310	630
ATOM 2763 CD LYS A 179	-42.875	-34.584	26.296	1.00	60.07	C0
ANISOU 2763 CD LYS A 179	9370	6150	7310	-730	1410	660
ATOM 2764 CE LYS A 179	-43.944	-35.186	25.406	1.00	61.42	C0
ANISOU 2764 CE LYS A 179	9610	6240	7480	-950	1500	510
ATOM 2765 NZ LYS A 179	-44.949	-35.951	26.185	1.00	63.34	N0
ANISOU 2765 NZ LYS A 179	9970	6420	7680	-1130	1590	530
ATOM 2766 H LYS A 179	-39.352	-32.257	24.667	1.00	55.49	H0
ANISOU 2766 H LYS A 179	8430	5800	6860	-180	1160	670
ATOM 2767 HA LYS A 179	-39.794	-34.419	22.960	1.00	57.62	H0
ANISOU 2767 HA LYS A 179	9020	5670	7200	-310	1390	550
ATOM 2768 HB2 LYS A 179	-41.364	-35.283	24.306	1.00	59.62	H0
ANISOU 2768 HB2 LYS A 179	9410	5860	7380	-540	1480	600
ATOM 2769 HB3 LYS A 179	-40.209	-34.885	25.309	1.00	59.35	H0
ANISOU 2769 HB3 LYS A 179	9320	5890	7350	-310	1400	760
ATOM 2770 HG2 LYS A 179	-41.387	-33.168	26.176	1.00	57.77	H0
ANISOU 2770 HG2 LYS A 179	8860	6040	7050	-460	1240	710
ATOM 2771 HG3 LYS A 179	-42.382	-33.117	24.944	1.00	57.40	H0
ANISOU 2771 HG3 LYS A 179	8800	6000	7010	-640	1280	530
ATOM 2772 HD2 LYS A 179	-42.389	-35.309	26.743	1.00	61.29	H0
ANISOU 2772 HD2 LYS A 179	9640	6170	7480	-650	1460	760
ATOM 2773 HD3 LYS A 179	-43.308	-34.040	26.988	1.00	59.65	H0
ANISOU 2773 HD3 LYS A 179	9230	6220	7210	-770	1360	680
ATOM 2774 HE2 LYS A 179	-44.398	-34.475	24.916	1.00	60.33	H0
ANISOU 2774 HE2 LYS A 179	9350	6240	7330	-1010	1440	410
ATOM 2775 HE3 LYS A 179	-43.530	-35.783	24.756	1.00	62.02	H0
ANISOU 2775 HE3 LYS A 179	9790	6170	7600	-920	1560	490
ATOM 2776 HZ1 LYS A 179	-44.543	-36.628	26.631	1.00	64.25	H0
ANISOU 2776 HZ1 LYS A 179	10220	6390	7800	-1070	1660	630
ATOM 2777 HZ2 LYS A 179	-45.574	-36.296	25.626	1.00	63.69	H0
ANISOU 2777 HZ2 LYS A 179	10050	6430	7720	-1270	1650	430

ATOM 2778 HZ3 LYS A 179	-45.356	-35.403	26.783	1.00	62.64	H0
ANISOU 2778 HZ3 LYS A 179	9790	6460	7550	-1160	1540 540	H0
ATOM 2779 N LYS A 180	-41.893	-33.494	21.871	1.00	53.73	N0
ANISOU 2779 N LYS A 180	8390	5390	6640	-660	1350 290	N0
ATOM 2780 CA LYS A 180	-42.882	-32.847	20.972	1.00	52.16	C0
ANISOU 2780 CA LYS A 180	8080	5340	6400	-810	1310 140	C0
ATOM 2781 C LYS A 180	-44.283	-33.001	21.577	1.00	50.86	C0
ANISOU 2781 C LYS A 180	7910	5240	6170	-1010	1320 100	C0
ATOM 2782 O LYS A 180	-44.563	-34.070	22.131	1.00	52.14	O0
ANISOU 2782 O LYS A 180	8220	5250	6340	-1090	1420 140	O0
ATOM 2783 CB LYS A 180	-42.815	-33.503	19.590	1.00	53.86	C0
ANISOU 2783 CB LYS A 180	8390	5430	6640	-860	1380 20	C0
ATOM 2784 CG LYS A 180	-43.817	-32.996	18.562	1.00	54.54	C0
ANISOU 2784 CG LYS A 180	8380	5670	6670	-1020	1350 -140	C0
ATOM 2785 CD LYS A 180	-44.135	-34.024	17.496	1.00	57.15	C0
ANISOU 2785 CD LYS A 180	8850	5860	7000	-1150	1450 -260	C0
ATOM 2786 CE LYS A 180	-44.842	-33.444	16.290	1.00	57.39	C0
ANISOU 2786 CE LYS A 180	8770	6060	6970	-1260	1400 -410	C0
ATOM 2787 NZ LYS A 180	-45.221	-34.501	15.321	1.00	59.96	N0
ANISOU 2787 NZ LYS A 180	9230	6260	7280	-1420	1510 -550	N0
ATOM 2788 H LYS A 180	-41.833	-34.394	21.738	1.00	55.09	H0
ANISOU 2788 H LYS A 180	8690	5410	6830	-680	1440 300	H0
ATOM 2789 HA LYS A 180	-42.664	-31.890	20.891	1.00	50.94	H0
ANISOU 2789 HA LYS A 180	7800	5310	6240	-750	1220 140	H0
ATOM 2790 HB2 LYS A 180	-41.912	-33.371	19.231	1.00	53.60	H0
ANISOU 2790 HB2 LYS A 180	8360	5360	6650	-730	1370 50	H0
ATOM 2791 HB3 LYS A 180	-42.950	-34.468	19.702	1.00	55.18	H0
ANISOU 2791 HB3 LYS A 180	8700	5450	6820	-920	1480 30	H0
ATOM 2792 HG2 LYS A 180	-44.646	-32.743	19.018	1.00	54.41	H0
ANISOU 2792 HG2 LYS A 180	8310	5750	6610	-1110	1320 -150	H0
ATOM 2793 HG3 LYS A 180	-43.452	-32.192	18.134	1.00	53.50	H0
ANISOU 2793 HG3 LYS A 180	8160	5630	6540	-940	1280 -150	H0
ATOM 2794 HD2 LYS A 180	-43.300	-34.444	17.200	1.00	57.40	H0
ANISOU 2794 HD2 LYS A 180	8970	5760	7080	-1050	1500 -230	H0
ATOM 2795 HD3 LYS A 180	-44.700	-34.723	17.887	1.00	58.07	H0
ANISOU 2795 HD3 LYS A 180	9050	5910	7110	-1270	1520 -270	H0
ATOM 2796 HE2 LYS A 180	-45.647	-32.973	16.578	1.00	57.08	H0
ANISOU 2796 HE2 LYS A 180	8640	6160	6890	-1340	1350 -440	H0
ATOM 2797 HE3 LYS A 180	-44.258	-32.802	15.846	1.00	56.52	H0
ANISOU 2797 HE3 LYS A 180	8600	6000	6870	-1150	1350 -400	H0
ATOM 2798 HZ1 LYS A 180	-44.478	-34.937	15.036	1.00	60.04	H0
ANISOU 2798 HZ1 LYS A 180	9340	6140	7340	-1340	1570 -530	H0
ATOM 2799 HZ2 LYS A 180	-45.638	-34.129	14.607	1.00	59.44	H0
ANISOU 2799 HZ2 LYS A 180	9100	6320	7170	-1470	1470 -640	H0
ATOM 2800 HZ3 LYS A 180	-45.780	-35.095	15.717	1.00	60.58	H0
ANISOU 2800 HZ3 LYS A 180	9370	6290	7350	-1530	1570 -560	H0
ATOM 2801 N ASN A 181	-45.124	-31.971	21.452	1.00	48.13	N0
ANISOU 2801 N ASN A 181	7400	5110	5780	-1080	1230 20	N0
ATOM 2802 CA ASN A 181	-46.562	-32.004	21.826	1.00	47.34	C0
ANISOU 2802 CA ASN A 181	7250	5130	5610	-1280	1240 -50	C0
ATOM 2803 C ASN A 181	-47.405	-31.502	20.651	1.00	46.19	C0
ANISOU 2803 C ASN A 181	6990	5140	5420	-1380	1200 -210	C0
ATOM 2804 O ASN A 181	-46.954	-30.576	19.942	1.00	44.10	O0
ANISOU 2804 O ASN A 181	6630	4960	5160	-1270	1120 -230	O0

ATOM 2805 CB ASN A 181	-46.857	-31.170	23.073	1.00	46.62		C0
ANISOU 2805 CB ASN A 181	7040	5190	5480	-1250	1170	20	C0
ATOM 2806 CG ASN A 181	-46.132	-31.678	24.301	1.00	47.19		C0
ANISOU 2806 CG ASN A 181	7220	5140	5570	-1150	1210	180	C0
ATOM 2807 OD1 ASN A 181	-46.434	-32.761	24.808	1.00	48.41		O0
ANISOU 2807 OD1 ASN A 181	7520	5150	5720	-1250	1310	220	O0
ATOM 2808 ND2 ASN A 181	-45.171	-30.905	24.780	1.00	46.03		N0
ANISOU 2808 ND2 ASN A 181	7000	5040	5440	-970	1120	270	N0
ATOM 2809 H ASN A 181	-44.856	-31.165	21.122	1.00	47.20		H0
ANISOU 2809 H ASN A 181	7180	5090	5660	-1010	1160	10	H0
ATOM 2810 HA ASN A 181	-46.813	-32.937	22.020	1.00	48.66		H0
ANISOU 2810 HA ASN A 181	7540	5170	5780	-1370	1330	-50	H0
ATOM 2811 HB2 ASN A 181	-46.594	-30.243	22.904	1.00	45.48		H0
ANISOU 2811 HB2 ASN A 181	6790	5150	5340	-1150	1090	20	H0
ATOM 2812 HB3 ASN A 181	-47.821	-31.185	23.243	1.00	47.00		H0
ANISOU 2812 HB3 ASN A 181	7050	5320	5490	-1380	1180	-30	H0
ATOM 2813 HD21 ASN A 181	-44.865	-31.036	25.599	1.00	46.30		H0
ANISOU 2813 HD21 ASN A 181	7070	5050	5470	-920	1130	360	H0
ATOM 2814 HD22 ASN A 181	-44.831	-30.258	24.281	1.00	45.18		H0
ANISOU 2814 HD22 ASN A 181	6820	5000	5350	-910	1070	250	H0
ATOM 2815 N SER A 182	-48.582	-32.111	20.475	1.00	46.22		N0
ANISOU 2815 N SER A 182	7010	5170	5380	-1600	1260	-310	N0
ATOM 2816 CA SER A 182	-49.661	-31.691	19.548	1.00	45.65		C0
ANISOU 2816 CA SER A 182	6810	5300	5240	-1730	1220	-470	C0
ATOM 2817 C SER A 182	-50.908	-31.402	20.383	1.00	45.51		C0
ANISOU 2817 C SER A 182	6670	5470	5150	-1860	1200	-500	C0
ATOM 2818 O SER A 182	-51.433	-32.355	20.995	1.00	47.21		O0
ANISOU 2818 O SER A 182	6980	5600	5360	-2020	1300	-500	O0
ATOM 2819 CB SER A 182	-49.923	-32.748	18.503	1.00	46.83		C0
ANISOU 2819 CB SER A 182	7070	5350	5380	-1890	1310	-590	C0
ATOM 2820 OG SER A 182	-50.819	-32.266	17.515	1.00	46.78		O0
ANISOU 2820 OG SER A 182	6920	5550	5300	-1980	1250	-740	O0
ATOM 2821 H SER A 182	-48.811	-32.863	20.935	1.00	47.35		H0
ANISOU 2821 H SER A 182	7250	5220	5520	-1690	1340	-300	H0
ATOM 2822 HA SER A 182	-49.380	-30.853	19.094	1.00	44.58		H0
ANISOU 2822 HA SER A 182	6580	5260	5100	-1620	1130	-470	H0
ATOM 2823 HB2 SER A 182	-49.073	-33.006	18.079	1.00	46.76		H0
ANISOU 2823 HB2 SER A 182	7150	5200	5420	-1800	1330	-560	H0
ATOM 2824 HB3 SER A 182	-50.306	-33.547	18.933	1.00	48.03		H0
ANISOU 2824 HB3 SER A 182	7310	5410	5530	-2010	1390	-600	H0
ATOM 2825 N VAL A 183	-51.339	-30.140	20.438	1.00	44.17		N0
ANISOU 2825 N VAL A 183	6310	5530	4940	-1780	1080	-510	N0
ATOM 2826 CA VAL A 183	-52.424	-29.683	21.357	1.00	44.42		C0
ANISOU 2826 CA VAL A 183	6210	5750	4920	-1860	1060	-520	C0
ATOM 2827 C VAL A 183	-53.486	-28.932	20.549	1.00	44.39		C0
ANISOU 2827 C VAL A 183	6020	6010	4840	-1900	980	-650	C0
ATOM 2828 O VAL A 183	-53.114	-28.064	19.743	1.00	43.02		O0
ANISOU 2828 O VAL A 183	5780	5900	4660	-1760	890	-660	O0
ATOM 2829 CB VAL A 183	-51.878	-28.819	22.514	1.00	43.31		C0
ANISOU 2829 CB VAL A 183	6030	5630	4800	-1690	1000	-390	C0
ATOM 2830 CG1 VAL A 183	-52.949	-28.535	23.569	1.00	43.82		C0
ANISOU 2830 CG1 VAL A 183	5990	5860	4810	-1780	1000	-400	C0
ATOM 2831 CG2 VAL A 183	-50.653	-29.450	23.162	1.00	43.28		C0
ANISOU 2831 CG2 VAL A 183	6200	5390	4860	-1600	1050	-250	C0

ATOM 2832 H VAL A 183	-50.996	-29.477	19.917	1.00	43.39	H0	
ANISOU 2832 H VAL A 183	6160	5480	4850	-1670	1020	-510	H0
ATOM 2833 HA VAL A 183	-52.839	-30.469	21.743	1.00	45.51	H0	
ANISOU 2833 HA VAL A 183	6410	5830	5050	-1990	1140	-540	H0
ATOM 2834 HB VAL A 183	-51.600	-27.953	22.128	1.00	42.32	H0	
ANISOU 2834 HB VAL A 183	5830	5570	4680	-1570	930	-390	H0
ATOM 2835 HG11 VAL A 183	-53.638	-27.963	23.189	1.00	43.74	H0	
ANISOU 2835 HG11 VAL A 183	5850	6020	4760	-1790	950	-480	H0
ATOM 2836 HG12 VAL A 183	-52.543	-28.088	24.333	1.00	43.13	H0	
ANISOU 2836 HG12 VAL A 183	5890	5760	4730	-1680	980	-320	H0
ATOM 2837 HG13 VAL A 183	-53.349	-29.373	23.860	1.00	44.91	H0	
ANISOU 2837 HG13 VAL A 183	6190	5940	4930	-1920	1080	-420	H0
ATOM 2838 HG21 VAL A 183	-50.830	-30.388	23.348	1.00	44.37	H0	
ANISOU 2838 HG21 VAL A 183	6440	5420	5000	-1710	1140	-250	H0
ATOM 2839 HG22 VAL A 183	-50.450	-28.988	23.994	1.00	42.76	H0	
ANISOU 2839 HG22 VAL A 183	6100	5350	4790	-1530	1020	-180	H0
ATOM 2840 HG23 VAL A 183	-49.892	-29.378	22.560	1.00	42.77	H0	
ANISOU 2840 HG23 VAL A 183	6170	5250	4830	-1510	1040	-240	H0
ATOM 2841 N THR A 184	-54.756	-29.282	20.770	1.00	46.14	N0	
ANISOU 2841 N THR A 184	6150	6380	5000	-2090	1010	-750	N0
ATOM 2842 CA THR A 184	-55.958	-28.531	20.323	1.00	47.25	C0	
ANISOU 2842 CA THR A 184	6080	6830	5050	-2130	940	-860	C0
ATOM 2843 C THR A 184	-56.377	-27.586	21.457	1.00	47.16	C0	
ANISOU 2843 C THR A 184	5940	6960	5020	-2040	890	-800	C0
ATOM 2844 O THR A 184	-56.522	-28.061	22.603	1.00	47.55	O0	
ANISOU 2844 O THR A 184	6040	6950	5080	-2130	960	-750	O0
ATOM 2845 CB THR A 184	-57.066	-29.499	19.884	1.00	49.76	C0	
ANISOU 2845 CB THR A 184	6360	7240	5300	-2400	1010	-1010	C0
ATOM 2846 OG1 THR A 184	-56.681	-30.013	18.606	1.00	50.13	O0	
ANISOU 2846 OG1 THR A 184	6500	7200	5350	-2440	1020	-1080	O0
ATOM 2847 CG2 THR A 184	-58.433	-28.858	19.789	1.00	50.72	C0	
ANISOU 2847 CG2 THR A 184	6240	7700	5330	-2460	940	-1120	C0
ATOM 2848 H THR A 184	-54.978	-30.034	21.234	1.00	47.12	H0	
ANISOU 2848 H THR A 184	6350	6430	5120	-2220	1090	-750	H0
ATOM 2849 HA THR A 184	-55.700	-27.987	19.545	1.00	46.71	H0	
ANISOU 2849 HA THR A 184	5970	6800	4970	-2030	870	-870	H0
ATOM 2850 HB THR A 184	-57.106	-30.244	20.531	1.00	50.40	H0	
ANISOU 2850 HB THR A 184	6540	7210	5400	-2520	1100	-990	H0
ATOM 2851 HG21 THR A 184	-58.824	-28.789	20.679	1.00	50.84	H0	
ANISOU 2851 HG21 THR A 184	6210	7770	5340	-2500	970	-1090	H0
ATOM 2852 HG22 THR A 184	-59.010	-29.404	19.225	1.00	51.91	H0	
ANISOU 2852 HG22 THR A 184	6360	7930	5430	-2620	970	-1230	H0
ATOM 2853 HG23 THR A 184	-58.351	-27.969	19.401	1.00	49.83	H0	
ANISOU 2853 HG23 THR A 184	6040	7690	5200	-2310	850	-1110	H0
ATOM 2854 N TYR A 185	-56.525	-26.295	21.145	1.00	46.81	N0	
ANISOU 2854 N TYR A 185	5750	7090	4950	-1870	780	-800	N0
ATOM 2855 CA TYR A 185	-56.906	-25.209	22.085	1.00	45.93	C0	
ANISOU 2855 CA TYR A 185	5510	7120	4820	-1750	730	-760	C0
ATOM 2856 C TYR A 185	-58.306	-24.701	21.728	1.00	48.06	C0	
ANISOU 2856 C TYR A 185	5560	7700	5000	-1790	680	-880	C0
ATOM 2857 O TYR A 185	-58.755	-24.905	20.579	1.00	48.92	O0	
ANISOU 2857 O TYR A 185	5610	7920	5060	-1850	650	-970	O0
ATOM 2858 CB TYR A 185	-55.880	-24.074	22.041	1.00	43.74	C0	
ANISOU 2858 CB TYR A 185	5260	6780	4580	-1510	650	-660	C0

ATOM 2859 CG TYR A 185	-54.486	-24.472	22.452	1.00	42.82	C0	
ANISOU 2859 CG TYR A 185	5320	6390	4550	-1450	690	-550	C0
ATOM 2860 CD1 TYR A 185	-54.102	-24.479	23.784	1.00	42.45	C0	
ANISOU 2860 CD1 TYR A 185	5320	6270	4530	-1430	720	-450	C0
ATOM 2861 CD2 TYR A 185	-53.548	-24.855	21.507	1.00	42.37	C0	
ANISOU 2861 CD2 TYR A 185	5380	6180	4540	-1410	700	-530	C0
ATOM 2862 CE1 TYR A 185	-52.820	-24.851	24.167	1.00	42.06	C0	
ANISOU 2862 CE1 TYR A 185	5420	6010	4550	-1360	750	-340	C0
ATOM 2863 CE2 TYR A 185	-52.262	-25.225	21.871	1.00	42.01	C0	
ANISOU 2863 CE2 TYR A 185	5480	5910	4570	-1340	730	-430	C0
ATOM 2864 CZ TYR A 185	-51.893	-25.219	23.206	1.00	41.95	C0	
ANISOU 2864 CZ TYR A 185	5510	5850	4580	-1320	750	-330	C0
ATOM 2865 OH TYR A 185	-50.627	-25.591	23.559	1.00	41.54	O0	
ANISOU 2865 OH TYR A 185	5590	5600	4590	-1240	780	-230	O0
ATOM 2866 H TYR A 185	-56.398	-25.980	20.299	1.00	46.37	H0	
ANISOU 2866 H TYR A 185	5670	7070	4880	-1810	730	-830	H0
ATOM 2867 HA TYR A 185	-56.931	-25.577	23.005	1.00	46.31	H0	
ANISOU 2867 HA TYR A 185	5600	7120	4880	-1820	780	-720	H0
ATOM 2868 HB2 TYR A 185	-55.851	-23.720	21.128	1.00	43.70	H0	
ANISOU 2868 HB2 TYR A 185	5220	6820	4560	-1440	610	-690	H0
ATOM 2869 HB3 TYR A 185	-56.190	-23.355	22.630	1.00	43.60	H0	
ANISOU 2869 HB3 TYR A 185	5160	6860	4550	-1440	630	-640	H0
ATOM 2870 HD1 TYR A 185	-54.725	-24.226	24.446	1.00	42.81	H0	
ANISOU 2870 HD1 TYR A 185	5300	6420	4550	-1460	730	-460	H0
ATOM 2871 HD2 TYR A 185	-53.786	-24.858	20.595	1.00	42.75	H0	
ANISOU 2871 HD2 TYR A 185	5400	6280	4560	-1430	680	-600	H0
ATOM 2872 HE1 TYR A 185	-52.577	-24.844	25.078	1.00	41.91	H0	
ANISOU 2872 HE1 TYR A 185	5430	5950	4540	-1350	760	-280	H0
ATOM 2873 HE2 TYR A 185	-51.638	-25.478	21.211	1.00	41.81	H0	
ANISOU 2873 HE2 TYR A 185	5530	5790	4570	-1310	740	-420	H0
ATOM 2874 N SER A 186	-58.956	-24.044	22.693	1.00	49.59	N0	
ANISOU 2874 N SER A 186	5630	8050	5160	-1750	670	-870	N0
ATOM 2875 CA SER A 186	-60.338	-23.498	22.623	1.00	51.89	C0	
ANISOU 2875 CA SER A 186	5690	8660	5370	-1770	630	-970	C0
ATOM 2876 C SER A 186	-60.491	-22.495	21.469	1.00	52.75	C0	
ANISOU 2876 C SER A 186	5700	8910	5430	-1590	520	-1000	C0
ATOM 2877 O SER A 186	-61.605	-22.419	20.927	1.00	54.52	O0	
ANISOU 2877 O SER A 186	5740	9400	5570	-1630	490	-1110	O0
ATOM 2878 CB SER A 186	-60.732	-22.875	23.947	1.00	52.02	C0	
ANISOU 2878 CB SER A 186	5630	8760	5380	-1720	650	-930	C0
ATOM 2879 OG SER A 186	-59.696	-22.034	24.449	1.00	50.90	O0	
ANISOU 2879 OG SER A 186	5590	8460	5290	-1520	620	-810	O0
ATOM 2880 H SER A 186	-58.572	-23.879	23.503	1.00	48.92	H0	
ANISOU 2880 H SER A 186	5600	7880	5110	-1710	690	-790	H0
ATOM 2881 HA SER A 186	-60.953	-24.260	22.447	1.00	53.13	H0	
ANISOU 2881 HA SER A 186	5820	8880	5490	-1950	680	-1050	H0
ATOM 2882 HB2 SER A 186	-61.553	-22.346	23.828	1.00	52.74	H0	
ANISOU 2882 HB2 SER A 186	5570	9060	5410	-1680	610	-990	H0
ATOM 2883 HB3 SER A 186	-60.919	-23.588	24.599	1.00	52.68	H0	
ANISOU 2883 HB3 SER A 186	5750	8800	5460	-1870	720	-930	H0
ATOM 2884 N CYS A 187	-59.434	-21.748	21.120	1.00	52.96	N0	
ANISOU 2884 N CYS A 187	5820	8790	5510	-1380	470	-910	N0
ATOM 2885 CA CYS A 187	-59.458	-20.683	20.076	1.00	53.84	C0	
ANISOU 2885 CA CYS A 187	5870	9010	5580	-1180	370	-910	C0

ATOM 2886 C CYS A 187	-59.874	-21.269	18.724	1.00	55.07	C0	
ANISOU 2886 C CYS A 187	5980	9280	5670	-1280	340	-1010	C0
ATOM 2887 O CYS A 187	-60.702	-20.635	18.042	1.00	57.39	O0	
ANISOU 2887 O CYS A 187	6120	9810	5870	-1190	270	-1070	O0
ATOM 2888 CB CYS A 187	-58.108	-19.983	19.906	1.00	52.46	C0	
ANISOU 2888 CB CYS A 187	5850	8610	5470	-1000	350	-800	C0
ATOM 2889 SG CYS A 187	-56.803	-20.994	19.146	1.00	52.74	S0	
ANISOU 2889 SG CYS A 187	6090	8380	5570	-1080	390	-770	S0
ATOM 2890 H CYS A 187	-58.614	-21.833	21.507	1.00	51.89	H0	
ANISOU 2890 H CYS A 187	5810	8480	5430	-1360	500	-830	H0
ATOM 2891 HA CYS A 187	-60.125	-20.010	20.345	1.00	54.11	H0	
ANISOU 2891 HA CYS A 187	5780	9210	5570	-1100	340	-930	H0
ATOM 2892 HB2 CYS A 187	-58.236	-19.187	19.352	1.00	52.62	H0	
ANISOU 2892 HB2 CYS A 187	5820	8720	5460	-860	290	-800	H0
ATOM 2893 HB3 CYS A 187	-57.794	-19.684	20.782	1.00	52.01	H0	
ANISOU 2893 HB3 CYS A 187	5820	8480	5450	-960	370	-740	H0
ATOM 2894 N CYS A 188	-59.314	-22.431	18.372	1.00	54.23	N0	
ANISOU 2894 N CYS A 188	6010	8990	5600	-1440	410	-1030	N0
ATOM 2895 CA CYS A 188	-59.090	-22.877	16.974	1.00	54.22	C0	
ANISOU 2895 CA CYS A 188	6060	8980	5560	-1490	380	-1090	C0
ATOM 2896 C CYS A 188	-59.403	-24.365	16.813	1.00	54.42	C0	
ANISOU 2896 C CYS A 188	6130	8970	5580	-1770	470	-1190	C0
ATOM 2897 O CYS A 188	-59.213	-25.149	17.739	1.00	53.77	O0	
ANISOU 2897 O CYS A 188	6140	8730	5560	-1900	560	-1160	O0
ATOM 2898 CB CYS A 188	-57.644	-22.570	16.598	1.00	53.25	C0	
ANISOU 2898 CB CYS A 188	6110	8600	5510	-1340	380	-980	C0
ATOM 2899 SG CYS A 188	-57.114	-20.911	17.111	1.00	53.43	S0	
ANISOU 2899 SG CYS A 188	6130	8600	5570	-1050	310	-860	S0
ATOM 2900 H CYS A 188	-59.023	-23.045	18.979	1.00	54.18	H0	
ANISOU 2900 H CYS A 188	6090	8860	5640	-1540	470	-1010	H0
ATOM 2901 HA CYS A 188	-59.685	-22.358	16.387	1.00	54.81	H0	
ANISOU 2901 HA CYS A 188	6010	9250	5560	-1420	320	-1130	H0
ATOM 2902 HB2 CYS A 188	-57.055	-23.231	17.015	1.00	53.12	H0	
ANISOU 2902 HB2 CYS A 188	6210	8410	5560	-1410	440	-950	H0
ATOM 2903 HB3 CYS A 188	-57.542	-22.643	15.628	1.00	53.75	H0	
ANISOU 2903 HB3 CYS A 188	6190	8690	5540	-1330	350	-1020	H0
ATOM 2904 N PRO A 189	-59.892	-24.810	15.632	1.00	55.18	N0	
ANISOU 2904 N PRO A 189	6170	9200	5590	-1880	450	-1310	N0
ATOM 2905 CA PRO A 189	-60.181	-26.229	15.398	1.00	56.22	C0	
ANISOU 2905 CA PRO A 189	6370	9280	5710	-2170	540	-1420	C0
ATOM 2906 C PRO A 189	-58.952	-27.105	15.090	1.00	54.94	C0	
ANISOU 2906 C PRO A 189	6460	8780	5640	-2210	620	-1380	C0
ATOM 2907 O PRO A 189	-59.024	-28.294	15.309	1.00	55.77	O0	
ANISOU 2907 O PRO A 189	6670	8760	5760	-2430	730	-1440	O0
ATOM 2908 CB PRO A 189	-61.111	-26.180	14.177	1.00	57.83	C0	
ANISOU 2908 CB PRO A 189	6410	9780	5780	-2230	470	-1570	C0
ATOM 2909 CG PRO A 189	-60.627	-24.976	13.402	1.00	56.86	C0	
ANISOU 2909 CG PRO A 189	6260	9710	5630	-1950	350	-1490	C0
ATOM 2910 CD PRO A 189	-60.223	-23.973	14.467	1.00	55.33	C0	
ANISOU 2910 CD PRO A 189	6080	9430	5510	-1740	330	-1340	C0
ATOM 2911 HA PRO A 189	-60.675	-26.596	16.173	1.00	56.76	H0	
ANISOU 2911 HA PRO A 189	6400	9380	5790	-2290	590	-1440	H0
ATOM 2912 HB2 PRO A 189	-61.032	-26.998	13.640	1.00	58.63	H0	
ANISOU 2912 HB2 PRO A 189	6580	9820	5870	-2390	520	-1640	H0

ATOM 2913 HB3 PRO A 189	-62.046	-26.068	14.451	1.00	58.87	H0
ANISOU 2913 HB3 PRO A 189	6380	10130	5850	-2290	450 -1630	H0
ATOM 2914 HG2 PRO A 189	-59.865	-25.210	12.836	1.00	56.34	H0
ANISOU 2914 HG2 PRO A 189	6330	9480	5590	-1930	370 -1470	H0
ATOM 2915 HG3 PRO A 189	-61.342	-24.615	12.839	1.00	57.80	H0
ANISOU 2915 HG3 PRO A 189	6240	10070	5660	-1930	280 -1550	H0
ATOM 2916 HD2 PRO A 189	-59.451	-23.450	14.182	1.00	54.24	H0
ANISOU 2916 HD2 PRO A 189	6020	9180	5410	-1580	310 -1270	H0
ATOM 2917 HD3 PRO A 189	-60.957	-23.365	14.672	1.00	55.81	H0
ANISOU 2917 HD3 PRO A 189	5990	9690	5530	-1670	280 -1360	H0
ATOM 2918 N GLU A 190	-57.860	-26.503	14.610	1.00	53.26	N0
ANISOU 2918 N GLU A 190	6340	8430	5470	-2000	580 -1290	N0
ATOM 2919 CA GLU A 190	-56.642	-27.213	14.127	1.00	51.89	C0
ANISOU 2919 CA GLU A 190	6390	7960	5370	-2010	650 -1260	C0
ATOM 2920 C GLU A 190	-55.660	-27.351	15.296	1.00	49.20	C0
ANISOU 2920 C GLU A 190	6190	7360	5150	-1930	710 -1110	C0
ATOM 2921 O GLU A 190	-55.579	-26.409	16.104	1.00	48.50	O0
ANISOU 2921 O GLU A 190	6030	7310	5080	-1780	660 -1020	O0
ATOM 2922 CB GLU A 190	-55.981	-26.454	12.969	1.00	52.14	C0
ANISOU 2922 CB GLU A 190	6430	8000	5370	-1830	570 -1230	C0
ATOM 2923 CG GLU A 190	-56.955	-25.752	12.030	1.00	53.50	C0
ANISOU 2923 CG GLU A 190	6420	8490	5410	-1800	460 -1320	C0
ATOM 2924 CD GLU A 190	-57.279	-24.313	12.407	1.00	54.03	C0
ANISOU 2924 CD GLU A 190	6350	8730	5450	-1570	360 -1230	C0
ATOM 2925 OE1 GLU A 190	-56.946	-23.905	13.554	1.00	52.41	O0
ANISOU 2925 OE1 GLU A 190	6170	8420	5330	-1490	380 -1130	O0
ATOM 2926 OE2 GLU A 190	-57.861	-23.597	11.557	1.00	55.67	O0
ANISOU 2926 OE2 GLU A 190	6430	9170	5550	-1480	270 -1270	O0
ATOM 2927 H GLU A 190	-57.781	-25.599	14.585	1.00	52.36	H0
ANISOU 2927 H GLU A 190	6170	8380	5350	-1840	510 -1240	H0
ATOM 2928 HA GLU A 190	-56.901	-28.112	13.818	1.00	53.11	H0
ANISOU 2928 HA GLU A 190	6590	8090	5510	-2190	710 -1340	H0
ATOM 2929 HB2 GLU A 190	-55.371	-25.787	13.346	1.00	50.73	H0
ANISOU 2929 HB2 GLU A 190	6280	7750	5250	-1670	540 -1130	H0
ATOM 2930 HB3 GLU A 190	-55.444	-27.086	12.451	1.00	52.19	H0
ANISOU 2930 HB3 GLU A 190	6560	7870	5400	-1880	620 -1260	H0
ATOM 2931 HG2 GLU A 190	-56.580	-25.756	11.124	1.00	53.74	H0
ANISOU 2931 HG2 GLU A 190	6500	8500	5420	-1770	450 -1340	H0
ATOM 2932 HG3 GLU A 190	-57.794	-26.261	12.003	1.00	54.99	H0
ANISOU 2932 HG3 GLU A 190	6530	8810	5550	-1950	480 -1420	H0
ATOM 2933 N ALA A 191	-54.943	-28.474	15.382	1.00	47.68	N0
ANISOU 2933 N ALA A 191	6190	6900	5030	-2030	820 -1100	N0
ATOM 2934 CA ALA A 191	-53.911	-28.730	16.415	1.00	45.81	C0
ANISOU 2934 CA ALA A 191	6090	6410	4900	-1950	880 -960	C0
ATOM 2935 C ALA A 191	-52.684	-27.859	16.129	1.00	43.72	C0
ANISOU 2935 C ALA A 191	5870	6060	4690	-1700	820 -850	C0
ATOM 2936 O ALA A 191	-52.326	-27.710	14.945	1.00	43.67	O0
ANISOU 2936 O ALA A 191	5880	6060	4660	-1660	790 -900	O0
ATOM 2937 CB ALA A 191	-53.545	-30.192	16.453	1.00	46.48	C0
ANISOU 2937 CB ALA A 191	6370	6250	5030	-2100	1010 -980	C0
ATOM 2938 H ALA A 191	-55.037	-29.172	14.803	1.00	48.79	H0
ANISOU 2938 H ALA A 191	6380	7010	5150	-2150	860 -1180	H0
ATOM 2939 HA ALA A 191	-54.280	-28.472	17.292	1.00	45.68	H0
ANISOU 2939 HA ALA A 191	6020	6450	4880	-1950	870 -920	H0

ATOM	2940	HB1	ALA	A	191	-52.882	-30.343	17.148	1.00	46.11	H0	
ANISOU	2940	HB1	ALA	A	191	6420	6050	5050	-2030	1040	-880	H0
ATOM	2941	HB2	ALA	A	191	-54.338	-30.721	16.644	1.00	47.78	H0	
ANISOU	2941	HB2	ALA	A	191	6520	6470	5160	-2270	1060	-1050	H0
ATOM	2942	HB3	ALA	A	191	-53.179	-30.458	15.593	1.00	46.82	H0	
ANISOU	2942	HB3	ALA	A	191	6480	6240	5070	-2100	1020	-1020	H0
ATOM	2943	N	TYR	A	192	-52.092	-27.290	17.182	1.00	41.89	N0	
ANISOU	2943	N	TYR	A	192	5640	5760	4510	-1570	800	-730	N0
ATOM	2944	CA	TYR	A	192	-50.783	-26.592	17.160	1.00	40.57	C0	
ANISOU	2944	CA	TYR	A	192	5530	5480	4410	-1360	760	-620	C0
ATOM	2945	C	TYR	A	192	-49.732	-27.525	17.763	1.00	40.71	C0	
ANISOU	2945	C	TYR	A	192	5710	5250	4510	-1350	850	-530	C0
ATOM	2946	O	TYR	A	192	-50.084	-28.358	18.621	1.00	40.79	O0	
ANISOU	2946	O	TYR	A	192	5770	5190	4530	-1470	920	-520	O0
ATOM	2947	CB	TYR	A	192	-50.865	-25.246	17.885	1.00	39.36	C0	
ANISOU	2947	CB	TYR	A	192	5260	5460	4240	-1220	680	-550	C0
ATOM	2948	CG	TYR	A	192	-51.508	-24.166	17.053	1.00	39.53	C0	
ANISOU	2948	CG	TYR	A	192	5150	5680	4190	-1150	590	-610	C0
ATOM	2949	CD1	TYR	A	192	-52.880	-24.146	16.859	1.00	40.66	C0	
ANISOU	2949	CD1	TYR	A	192	5160	6040	4250	-1250	560	-710	C0
ATOM	2950	CD2	TYR	A	192	-50.749	-23.189	16.428	1.00	38.42	C0	
ANISOU	2950	CD2	TYR	A	192	5020	5530	4060	-980	540	-570	C0
ATOM	2951	CE1	TYR	A	192	-53.486	-23.172	16.083	1.00	40.83	C0	
ANISOU	2951	CE1	TYR	A	192	5060	6260	4190	-1160	480	-750	C0
ATOM	2952	CE2	TYR	A	192	-51.340	-22.206	15.650	1.00	38.57	C0	
ANISOU	2952	CE2	TYR	A	192	4940	5720	4000	-900	460	-600	C0
ATOM	2953	CZ	TYR	A	192	-52.714	-22.198	15.476	1.00	39.91	C0	
ANISOU	2953	CZ	TYR	A	192	4980	6110	4080	-980	430	-690	C0
ATOM	2954	OH	TYR	A	192	-53.316	-21.246	14.702	1.00	40.77	O0	
ANISOU	2954	OH	TYR	A	192	4990	6400	4110	-880	350	-720	O0
ATOM	2955	H	TYR	A	192	-52.463	-27.293	18.014	1.00	42.19	H0	
ANISOU	2955	H	TYR	A	192	5650	5830	4550	-1600	810	-700	H0
ATOM	2956	HA	TYR	A	192	-50.536	-26.421	16.216	1.00	40.46	H0	
ANISOU	2956	HA	TYR	A	192	5520	5480	4380	-1320	740	-660	H0
ATOM	2957	HB2	TYR	A	192	-51.380	-25.364	18.711	1.00	39.74	H0	
ANISOU	2957	HB2	TYR	A	192	5270	5550	4280	-1280	690	-540	H0
ATOM	2958	HB3	TYR	A	192	-49.959	-24.965	18.130	1.00	38.66	H0	
ANISOU	2958	HB3	TYR	A	192	5220	5270	4200	-1110	670	-480	H0
ATOM	2959	HD1	TYR	A	192	-53.414	-24.807	17.269	1.00	41.42	H0	
ANISOU	2959	HD1	TYR	A	192	5250	6150	4340	-1380	600	-740	H0
ATOM	2960	HD2	TYR	A	192	-49.813	-23.187	16.542	1.00	37.87	H0	
ANISOU	2960	HD2	TYR	A	192	5020	5330	4040	-920	560	-510	H0
ATOM	2961	HE1	TYR	A	192	-54.422	-23.173	15.967	1.00	41.64	H0	
ANISOU	2961	HE1	TYR	A	192	5070	6520	4230	-1220	460	-810	H0
ATOM	2962	HE2	TYR	A	192	-50.809	-21.546	15.236	1.00	38.04	H0	
ANISOU	2962	HE2	TYR	A	192	4890	5630	3940	-790	440	-570	H0
ATOM	2963	N	GLU	A	193	-48.488	-27.403	17.297	1.00	39.95	N0	
ANISOU	2963	N	GLU	A	193	5690	5020	4470	-1220	850	-480	N0
ATOM	2964	CA	GLU	A	193	-47.352	-28.236	17.763	1.00	40.88	C0	
ANISOU	2964	CA	GLU	A	193	5950	4910	4670	-1170	920	-390	C0
ATOM	2965	C	GLU	A	193	-46.380	-27.350	18.543	1.00	39.59	C0	
ANISOU	2965	C	GLU	A	193	5750	4740	4550	-990	870	-270	C0
ATOM	2966	O	GLU	A	193	-46.321	-26.142	18.270	1.00	38.28	O0	
ANISOU	2966	O	GLU	A	193	5480	4700	4360	-900	790	-270	O0

ATOM 2967 CB GLU A 193	-46.686	-28.942	16.583	1.00	41.99	C0	
ANISOU 2967 CB GLU A 193	6200	4910	4840	-1170	980	-440	C0
ATOM 2968 CG GLU A 193	-47.561	-30.026	15.984	1.00	44.22	C0	
ANISOU 2968 CG GLU A 193	6550	5170	5080	-1370	1060	-560	C0
ATOM 2969 CD GLU A 193	-46.873	-30.952	14.996	1.00	45.61	C0	
ANISOU 2969 CD GLU A 193	6870	5160	5290	-1380	1150	-610	C0
ATOM 2970 OE1 GLU A 193	-47.577	-31.788	14.392	1.00	47.48	O0	
ANISOU 2970 OE1 GLU A 193	7170	5380	5490	-1560	1220	-730	O0
ATOM 2971 OE2 GLU A 193	-45.638	-30.849	14.846	1.00	45.25	O0	
ANISOU 2971 OE2 GLU A 193	6880	5000	5310	-1220	1160	-540	O0
ATOM 2972 H GLU A 193	-48.260	-26.793	16.660	1.00	39.63	H0	
ANISOU 2972 H GLU A 193	5610	5030	4420	-1150	800	-490	H0
ATOM 2973 HA GLU A 193	-47.705	-28.919	18.373	1.00	41.57	H0	
ANISOU 2973 HA GLU A 193	6090	4950	4760	-1250	980	-380	H0
ATOM 2974 HB2 GLU A 193	-46.477	-28.278	15.893	1.00	41.42	H0	
ANISOU 2974 HB2 GLU A 193	6080	4910	4750	-1100	940	-460	H0
ATOM 2975 HB3 GLU A 193	-45.845	-29.340	16.889	1.00	42.04	H0	
ANISOU 2975 HB3 GLU A 193	6290	4780	4900	-1100	1020	-370	H0
ATOM 2976 HG2 GLU A 193	-47.927	-30.572	16.712	1.00	44.81	H0	
ANISOU 2976 HG2 GLU A 193	6670	5200	5160	-1450	1110	-550	H0
ATOM 2977 HG3 GLU A 193	-48.318	-29.601	15.529	1.00	44.22	H0	
ANISOU 2977 HG3 GLU A 193	6460	5320	5020	-1430	1010	-640	H0
ATOM 2978 N ASP A 194	-45.680	-27.937	19.510	1.00	40.06	N0	
ANISOU 2978 N ASP A 194	5890	4670	4660	-940	910	-170	N0
ATOM 2979 CA ASP A 194	-44.657	-27.237	20.321	1.00	39.40	C0	
ANISOU 2979 CA ASP A 194	5770	4580	4610	-790	870	-60	C0
ATOM 2980 C ASP A 194	-43.568	-28.242	20.692	1.00	40.60	C0	
ANISOU 2980 C ASP A 194	6050	4550	4820	-720	940	40	C0
ATOM 2981 O ASP A 194	-43.859	-29.463	20.705	1.00	42.83	O0	
ANISOU 2981 O ASP A 194	6460	4700	5120	-800	1030	30	O0
ATOM 2982 CB ASP A 194	-45.283	-26.561	21.545	1.00	39.12	C0	
ANISOU 2982 CB ASP A 194	5650	4680	4530	-800	820	-20	C0
ATOM 2983 CG ASP A 194	-45.756	-27.523	22.620	1.00	40.33	C0	
ANISOU 2983 CG ASP A 194	5870	4770	4680	-900	880	30	C0
ATOM 2984 OD1 ASP A 194	-44.889	-28.128	23.274	1.00	41.29	O0	
ANISOU 2984 OD1 ASP A 194	6080	4770	4840	-830	910	130	O0
ATOM 2985 OD2 ASP A 194	-46.987	-27.658	22.797	1.00	40.39	O0	
ANISOU 2985 OD2 ASP A 194	5840	4860	4640	-1040	890	-30	O0
ATOM 2986 H ASP A 194	-45.794	-28.813	19.735	1.00	40.92	H0	
ANISOU 2986 H ASP A 194	6090	4680	4780	-1010	980	-160	H0
ATOM 2987 HA ASP A 194	-44.252	-26.536	19.761	1.00	38.78	H0	
ANISOU 2987 HA ASP A 194	5650	4550	4530	-720	830	-70	H0
ATOM 2988 HB2 ASP A 194	-44.624	-25.957	21.944	1.00	38.48	H0	
ANISOU 2988 HB2 ASP A 194	5530	4620	4470	-700	780	40	H0
ATOM 2989 HB3 ASP A 194	-46.049	-26.026	21.254	1.00	38.92	H0	
ANISOU 2989 HB3 ASP A 194	5550	4770	4470	-850	780	-80	H0
ATOM 2990 N VAL A 195	-42.364	-27.739	20.969	1.00	39.91	N0	
ANISOU 2990 N VAL A 195	5940	4450	4770	-560	900	120	N0
ATOM 2991 CA VAL A 195	-41.264	-28.516	21.606	1.00	40.35	C0	
ANISOU 2991 CA VAL A 195	6080	4370	4880	-450	940	230	C0
ATOM 2992 C VAL A 195	-41.139	-28.029	23.053	1.00	39.47	C0	
ANISOU 2992 C VAL A 195	5910	4350	4740	-400	890	330	C0
ATOM 2993 O VAL A 195	-40.956	-26.814	23.266	1.00	37.47	O0	
ANISOU 2993 O VAL A 195	5530	4240	4470	-360	810	320	O0

ATOM 2994 CB VAL A 195	-39.946	-28.398	20.819	1.00	40.36	C0	
ANISOU 2994 CB VAL A 195	6080	4320	4930	-310	950	240	C0
ATOM 2995 CG1 VAL A 195	-38.794	-29.067	21.548	1.00	41.68	C0	
ANISOU 2995 CG1 VAL A 195	6300	4390	5140	-170	980	360	C0
ATOM 2996 CG2 VAL A 195	-40.095	-28.985	19.421	1.00	41.46	C0	
ANISOU 2996 CG2 VAL A 195	6290	4370	5090	-370	1010	140	C0
ATOM 2997 H VAL A 195	-42.138	-26.876	20.782	1.00	39.06	H0	
ANISOU 2997 H VAL A 195	5750	4430	4660	-510	850	100	H0
ATOM 2998 HA VAL A 195	-41.524	-29.454	21.621	1.00	41.30	H0	
ANISOU 2998 HA VAL A 195	6300	4390	5010	-510	1010	230	H0
ATOM 2999 HB VAL A 195	-39.735	-27.437	20.727	1.00	39.63	H0	
ANISOU 2999 HB VAL A 195	5890	4340	4830	-280	890	220	H0
ATOM 3000 HG11 VAL A 195	-38.491	-28.494	22.274	1.00	41.08	H0	
ANISOU 3000 HG11 VAL A 195	6150	4410	5050	-120	920	410	H0
ATOM 3001 HG12 VAL A 195	-38.059	-29.217	20.929	1.00	41.67	H0	
ANISOU 3001 HG12 VAL A 195	6310	4340	5180	-100	1000	350	H0
ATOM 3002 HG13 VAL A 195	-39.090	-29.920	21.911	1.00	42.43	H0	
ANISOU 3002 HG13 VAL A 195	6490	4390	5240	-210	1030	390	H0
ATOM 3003 HG21 VAL A 195	-40.360	-29.919	19.488	1.00	42.23	H0	
ANISOU 3003 HG21 VAL A 195	6490	4360	5200	-420	1080	140	H0
ATOM 3004 HG22 VAL A 195	-39.247	-28.921	18.949	1.00	41.20	H0	
ANISOU 3004 HG22 VAL A 195	6260	4310	5090	-280	1020	140	H0
ATOM 3005 HG23 VAL A 195	-40.775	-28.490	18.932	1.00	40.80	H0	
ANISOU 3005 HG23 VAL A 195	6160	4370	4970	-440	980	60	H0
ATOM 3006 N GLU A 196	-41.295	-28.952	24.001	1.00	40.44	N0	
ANISOU 3006 N GLU A 196	6120	4390	4850	-430	940	410	N0
ATOM 3007 CA GLU A 196	-41.130	-28.702	25.452	1.00	40.41	C0	
ANISOU 3007 CA GLU A 196	6080	4460	4810	-380	900	510	C0
ATOM 3008 C GLU A 196	-39.701	-29.085	25.845	1.00	40.04	C0	
ANISOU 3008 C GLU A 196	6070	4350	4800	-200	900	630	C0
ATOM 3009 O GLU A 196	-39.361	-30.275	25.763	1.00	40.75	O0	
ANISOU 3009 O GLU A 196	6290	4270	4920	-160	980	690	O0
ATOM 3010 CB GLU A 196	-42.158	-29.503	26.247	1.00	42.35	C0	
ANISOU 3010 CB GLU A 196	6420	4660	5020	-510	960	540	C0
ATOM 3011 CG GLU A 196	-42.170	-29.163	27.727	1.00	43.30	C0	
ANISOU 3011 CG GLU A 196	6500	4880	5080	-480	920	640	C0
ATOM 3012 CD GLU A 196	-43.256	-29.862	28.529	1.00	45.07	C0	
ANISOU 3012 CD GLU A 196	6800	5070	5250	-630	980	660	C0
ATOM 3013 OE1 GLU A 196	-43.603	-29.344	29.611	1.00	46.51	O0	
ANISOU 3013 OE1 GLU A 196	6920	5380	5370	-650	940	700	O0
ATOM 3014 OE2 GLU A 196	-43.749	-30.917	28.073	1.00	46.43	O0	
ANISOU 3014 OE2 GLU A 196	7100	5100	5440	-730	1080	630	O0
ATOM 3015 H GLU A 196	-41.517	-29.814	23.808	1.00	41.32	H0	
ANISOU 3015 H GLU A 196	6330	4390	4980	-470	1010	400	H0
ATOM 3016 HA GLU A 196	-41.266	-27.742	25.626	1.00	39.51	H0	
ANISOU 3016 HA GLU A 196	5860	4470	4670	-380	830	490	H0
ATOM 3017 HB2 GLU A 196	-43.048	-29.331	25.873	1.00	42.13	H0	
ANISOU 3017 HB2 GLU A 196	6360	4680	4970	-620	960	450	H0
ATOM 3018 HB3 GLU A 196	-41.965	-30.458	26.140	1.00	43.35	H0	
ANISOU 3018 HB3 GLU A 196	6660	4640	5170	-500	1030	570	H0
ATOM 3019 HG2 GLU A 196	-41.300	-29.399	28.115	1.00	43.64	H0	
ANISOU 3019 HG2 GLU A 196	6570	4880	5130	-370	910	730	H0
ATOM 3020 HG3 GLU A 196	-42.285	-28.194	27.829	1.00	42.31	H0	
ANISOU 3020 HG3 GLU A 196	6260	4880	4930	-480	850	600	H0

ATOM 3021 N VAL A 197	-38.900	-28.097	26.238	1.00	38.46		N0
ANISOU 3021 N VAL A 197	5740	4280	4590	-100	810	660	N0
ATOM 3022 CA VAL A 197	-37.506	-28.287	26.726	1.00	39.16		C0
ANISOU 3022 CA VAL A 197	5810	4370	4690	70	790	770	C0
ATOM 3023 C VAL A 197	-37.531	-28.210	28.257	1.00	39.24		C0
ANISOU 3023 C VAL A 197	5800	4470	4630	90	750	870	C0
ATOM 3024 O VAL A 197	-37.898	-27.146	28.792	1.00	37.88		O0
ANISOU 3024 O VAL A 197	5520	4460	4410	30	680	840	O0
ATOM 3025 CB VAL A 197	-36.553	-27.246	26.115	1.00	38.44		C0
ANISOU 3025 CB VAL A 197	5590	4390	4630	140	730	720	C0
ATOM 3026 CG1 VAL A 197	-35.108	-27.497	26.518	1.00	39.47		C0
ANISOU 3026 CG1 VAL A 197	5680	4540	4770	320	720	810	C0
ATOM 3027 CG2 VAL A 197	-36.693	-27.193	24.602	1.00	38.30		C0
ANISOU 3027 CG2 VAL A 197	5590	4300	4660	100	770	610	C0
ATOM 3028 H VAL A 197	-39.161	-27.225	26.231	1.00	37.81		H0
ANISOU 3028 H VAL A 197	5570	4310	4490	-140	760	610	H0
ATOM 3029 HA VAL A 197	-37.204	-29.174	26.463	1.00	40.02		H0
ANISOU 3029 HA VAL A 197	6020	4350	4830	120	850	800	H0
ATOM 3030 HB VAL A 197	-36.815	-26.361	26.471	1.00	37.75		H0
ANISOU 3030 HB VAL A 197	5420	4420	4510	100	680	690	H0
ATOM 3031 HG11 VAL A 197	-34.985	-27.262	27.454	1.00	39.58		H0
ANISOU 3031 HG11 VAL A 197	5650	4640	4740	340	670	870	H0
ATOM 3032 HG12 VAL A 197	-34.516	-26.952	25.969	1.00	38.95		H0
ANISOU 3032 HG12 VAL A 197	5540	4520	4730	350	700	770	H0
ATOM 3033 HG13 VAL A 197	-34.893	-28.437	26.390	1.00	40.40		H0
ANISOU 3033 HG13 VAL A 197	5890	4540	4920	380	770	860	H0
ATOM 3034 HG21 VAL A 197	-36.734	-28.099	24.248	1.00	38.95		H0
ANISOU 3034 HG21 VAL A 197	5770	4260	4770	110	840	620	H0
ATOM 3035 HG22 VAL A 197	-35.928	-26.732	24.220	1.00	37.90		H0
ANISOU 3035 HG22 VAL A 197	5480	4290	4630	170	750	590	H0
ATOM 3036 HG23 VAL A 197	-37.508	-26.717	24.367	1.00	37.53		H0
ANISOU 3036 HG23 VAL A 197	5480	4240	4540	10	760	540	H0
ATOM 3037 N SER A 198	-37.180	-29.315	28.916	1.00	40.06		N0
ANISOU 3037 N SER A 198	6020	4480	4730	170	790	1000	N0
ATOM 3038 CA SER A 198	-37.067	-29.440	30.390	1.00	41.02		C0
ANISOU 3038 CA SER A 198	6140	4670	4770	210	760	1120	C0
ATOM 3039 C SER A 198	-35.592	-29.310	30.772	1.00	41.49		C0
ANISOU 3039 C SER A 198	6120	4820	4820	410	700	1210	C0
ATOM 3040 O SER A 198	-34.801	-30.207	30.413	1.00	42.28		O0
ANISOU 3040 O SER A 198	6290	4800	4970	550	750	1280	O0
ATOM 3041 CB SER A 198	-37.667	-30.736	30.877	1.00	42.62		C0
ANISOU 3041 CB SER A 198	6530	4710	4950	180	850	1210	C0
ATOM 3042 OG SER A 198	-39.017	-30.861	30.443	1.00	42.16		O0
ANISOU 3042 OG SER A 198	6530	4590	4900	-20	910	1110	O0
ATOM 3043 H SER A 198	-36.978	-30.096	28.493	1.00	41.00		H0
ANISOU 3043 H SER A 198	6230	4460	4880	210	850	1020	H0
ATOM 3044 HA SER A 198	-37.568	-28.688	30.805	1.00	40.24		H0
ANISOU 3044 HA SER A 198	5970	4690	4630	130	720	1080	H0
ATOM 3045 HB2 SER A 198	-37.140	-31.489	30.532	1.00	43.49		H0
ANISOU 3045 HB2 SER A 198	6730	4690	5100	270	900	1260	H0
ATOM 3046 HB3 SER A 198	-37.634	-30.762	31.860	1.00	43.12		H0
ANISOU 3046 HB3 SER A 198	6600	4830	4950	200	830	1290	H0
ATOM 3047 N LEU A 199	-35.248	-28.200	31.427	1.00	40.84		N0
ANISOU 3047 N LEU A 199	5880	4950	4690	410	600	1200	N0

ATOM 3048 CA LEU A 199	-33.879	-27.870	31.893	1.00	42.02	C0
ANISOU 3048 CA LEU A 199	5910	5240	4810	570	530	1260
ATOM 3049 C LEU A 199	-33.793	-28.188	33.385	1.00	43.37	C0
ANISOU 3049 C LEU A 199	6100	5500	4880	620	490	1400
ATOM 3050 O LEU A 199	-34.345	-27.409	34.187	1.00	42.53	O0
ANISOU 3050 O LEU A 199	5930	5530	4690	510	440	1370
ATOM 3051 CB LEU A 199	-33.622	-26.387	31.611	1.00	41.53	C0
ANISOU 3051 CB LEU A 199	5680	5350	4750	500	460	1140
ATOM 3052 CG LEU A 199	-32.344	-25.800	32.202	1.00	42.46	C0
ANISOU 3052 CG LEU A 199	5640	5670	4820	610	370	1170
ATOM 3053 CD1 LEU A 199	-31.117	-26.492	31.629	1.00	43.74	C0
ANISOU 3053 CD1 LEU A 199	5780	5800	5040	780	390	1230
ATOM 3054 CD2 LEU A 199	-32.289	-24.302	31.939	1.00	41.73	C0
ANISOU 3054 CD2 LEU A 199	5410	5720	4730	500	330	1040
ATOM 3055 H LEU A 199	-35.859	-27.558	31.639	1.00	40.21	H0
ANISOU 3055 H LEU A 199	5760	4940	4580	310	580	1140
ATOM 3056 HA LEU A 199	-33.229	-28.423	31.402	1.00	42.73	H0
ANISOU 3056 HA LEU A 199	6030	5260	4950	670	560	1290
ATOM 3057 HB2 LEU A 199	-33.598	-26.261	30.642	1.00	40.79	H0
ANISOU 3057 HB2 LEU A 199	5580	5200	4720	480	490	1070
ATOM 3058 HB3 LEU A 199	-34.381	-25.875	31.954	1.00	40.76	H0
ANISOU 3058 HB3 LEU A 199	5570	5300	4610	400	440	1100
ATOM 3059 HG LEU A 199	-32.354	-25.943	33.179	1.00	43.24	H0
ANISOU 3059 HG LEU A 199	5740	5840	4850	630	340	1250
ATOM 3060 HD11 LEU A 199	-31.021	-27.372	32.033	1.00	44.81	H0
ANISOU 3060 HD11 LEU A 199	6000	5870	5160	870	410	1330
ATOM 3061 HD12 LEU A 199	-30.325	-25.960	31.821	1.00	43.84	H0
ANISOU 3061 HD12 LEU A 199	5670	5950	5030	820	340	1220
ATOM 3062 HD13 LEU A 199	-31.217	-26.587	30.666	1.00	43.16	H0
ANISOU 3062 HD13 LEU A 199	5740	5620	5040	760	440	1170
ATOM 3063 HD21 LEU A 199	-32.300	-24.139	30.980	1.00	40.88	H0
ANISOU 3063 HD21 LEU A 199	5310	5540	4680	480	360	970
ATOM 3064 HD22 LEU A 199	-31.474	-23.934	32.322	1.00	41.97	H0
ANISOU 3064 HD22 LEU A 199	5340	5880	4720	550	280	1050
ATOM 3065 HD23 LEU A 199	-33.061	-23.872	32.349	1.00	41.00	H0
ANISOU 3065 HD23 LEU A 199	5330	5650	4590	400	320	1010
ATOM 3066 N ASN A 200	-33.184	-29.329	33.717	1.00	45.39	N0
ANISOU 3066 N ASN A 200	6450	5670	5120	780	520	1540
ATOM 3067 CA ASN A 200	-32.874	-29.766	35.102	1.00	47.11	C0
ANISOU 3067 CA ASN A 200	6690	5980	5230	880	480	1700
ATOM 3068 C ASN A 200	-31.497	-29.200	35.457	1.00	47.86	C0
ANISOU 3068 C ASN A 200	6600	6300	5290	1030	380	1730
ATOM 3069 O ASN A 200	-30.501	-29.688	34.897	1.00	49.24	O0
ANISOU 3069 O ASN A 200	6750	6440	5520	1200	390	1770
ATOM 3070 CB ASN A 200	-32.947	-31.291	35.235	1.00	49.14	C0
ANISOU 3070 CB ASN A 200	7160	6010	5500	990	580	1850
ATOM 3071 CG ASN A 200	-32.743	-31.792	36.650	1.00	51.09	C0
ANISOU 3071 CG ASN A 200	7470	6330	5620	1090	550	2030
ATOM 3072 OD1 ASN A 200	-32.905	-31.049	37.616	1.00	51.40	O0
ANISOU 3072 OD1 ASN A 200	7410	6570	5550	1030	470	2030
ATOM 3073 ND2 ASN A 200	-32.397	-33.061	36.787	1.00	53.17	N0
ANISOU 3073 ND2 ASN A 200	7900	6420	5880	1250	620	2180
ATOM 3074 H ASN A 200	-32.914	-29.930	33.087	1.00	45.79	H0
ANISOU 3074 H ASN A 200	6560	5600	5240	850	570	1550

ATOM 3075 HA ASN A 200	-33.545	-29.379	35.706	1.00	46.77	H0
ANISOU 3075 HA ASN A 200	6640	6000	5130	770	460	1690
ATOM 3076 HB2 ASN A 200	-33.823	-31.591	34.917	1.00	48.78	H0
ANISOU 3076 HB2 ASN A 200	7230	5830	5480	870	650	1810
ATOM 3077 HB3 ASN A 200	-32.265	-31.689	34.657	1.00	49.65	H0
ANISOU 3077 HB3 ASN A 200	7240	6010	5620	1110	600	1870
ATOM 3078 HD21 ASN A 200	-32.117	-33.361	37.570	1.00	54.38	H0
ANISOU 3078 HD21 ASN A 200	8080	6620	5960	1350	590	2300
ATOM 3079 HD22 ASN A 200	-32.444	-33.610	36.095	1.00	53.34	H0
ANISOU 3079 HD22 ASN A 200	8010	6280	5980	1270	690	2170
ATOM 3080 N PHE A 201	-31.454	-28.197	36.337	1.00	47.71	N0
ANISOU 3080 N PHE A 201	6440	6510	5170	960	280	1700
ATOM 3081 CA PHE A 201	-30.227	-27.455	36.723	1.00	48.48	C0
ANISOU 3081 CA PHE A 201	6330	6870	5220	1050	180	1690
ATOM 3082 C PHE A 201	-30.228	-27.204	38.235	1.00	49.83	C0
ANISOU 3082 C PHE A 201	6460	7240	5230	1040	100	1770
ATOM 3083 O PHE A 201	-31.293	-27.310	38.871	1.00	48.92	O0
ANISOU 3083 O PHE A 201	6450	7080	5060	930	130	1800
ATOM 3084 CB PHE A 201	-30.143	-26.143	35.940	1.00	46.79	C0
ANISOU 3084 CB PHE A 201	5980	6740	5060	920	150	1510
ATOM 3085 CG PHE A 201	-31.143	-25.098	36.363	1.00	45.49	C0
ANISOU 3085 CG PHE A 201	5800	6640	4850	710	140	1400
ATOM 3086 CD1 PHE A 201	-32.472	-25.194	35.984	1.00	44.70	C0
ANISOU 3086 CD1 PHE A 201	5820	6370	4790	580	210	1350
ATOM 3087 CD2 PHE A 201	-30.757	-24.025	37.153	1.00	45.49	C0
ANISOU 3087 CD2 PHE A 201	5650	6880	4760	660	50	1350
ATOM 3088 CE1 PHE A 201	-33.394	-24.240	36.383	1.00	43.75	C0
ANISOU 3088 CE1 PHE A 201	5680	6320	4620	420	200	1260
ATOM 3089 CE2 PHE A 201	-31.680	-23.070	37.548	1.00	44.40	C0
ANISOU 3089 CE2 PHE A 201	5510	6790	4580	480	50	1250
ATOM 3090 CZ PHE A 201	-32.996	-23.180	37.163	1.00	43.60	C0
ANISOU 3090 CZ PHE A 201	5530	6520	4520	370	120	1210
ATOM 3091 H PHE A 201	-32.193	-27.892	36.774	1.00	47.24	H0
ANISOU 3091 H PHE A 201	6410	6470	5070	850	280	1680
ATOM 3092 HA PHE A 201	-29.438	-28.009	36.499	1.00	49.54	H0
ANISOU 3092 HA PHE A 201	6460	6990	5370	1200	180	1760
ATOM 3093 HB2 PHE A 201	-29.240	-25.777	36.044	1.00	47.23	H0
ANISOU 3093 HB2 PHE A 201	5910	6950	5090	980	100	1500
ATOM 3094 HB3 PHE A 201	-30.277	-26.341	34.990	1.00	46.17	H0
ANISOU 3094 HB3 PHE A 201	5950	6520	5070	910	210	1460
ATOM 3095 HD1 PHE A 201	-32.751	-25.921	35.453	1.00	44.75	H0
ANISOU 3095 HD1 PHE A 201	5930	6220	4850	610	270	1380
ATOM 3096 HD2 PHE A 201	-29.856	-23.945	37.422	1.00	46.34	H0
ANISOU 3096 HD2 PHE A 201	5660	7120	4830	740	0	1380
ATOM 3097 HE1 PHE A 201	-34.296	-24.317	36.116	1.00	43.06	H0
ANISOU 3097 HE1 PHE A 201	5660	6130	4560	340	240	1220
ATOM 3098 HE2 PHE A 201	-31.405	-22.344	38.083	1.00	44.57	H0
ANISOU 3098 HE2 PHE A 201	5440	6960	4540	440	0	1210
ATOM 3099 HZ PHE A 201	-33.624	-22.528	37.431	1.00	42.91	H0
ANISOU 3099 HZ PHE A 201	5430	6470	4410	270	120	1140
ATOM 3100 N ARG A 202	-29.059	-26.874	38.788	1.00	51.95	N0
ANISOU 3100 N ARG A 202	6560	7750	5420	1160	0	1810
ATOM 3101 CA ARG A 202	-28.884	-26.581	40.234	1.00	54.01	C0
ANISOU 3101 CA ARG A 202	6750	8250	5520	1160	-90	1880

ATOM 3102 C ARG A 202	-27.700	-25.630	40.436	1.00	55.29	C0	
ANISOU 3102 C ARG A 202	6670	8710	5620	1180	-190	1800	C0
ATOM 3103 O ARG A 202	-26.822	-25.561	39.544	1.00	54.95	O0	
ANISOU 3103 O ARG A 202	6520	8680	5670	1260	-190	1750	O0
ATOM 3104 CB ARG A 202	-28.696	-27.878	41.028	1.00	56.27	C0	
ANISOU 3104 CB ARG A 202	7160	8500	5720	1350	-80	2100	C0
ATOM 3105 CG ARG A 202	-27.309	-28.495	40.924	1.00	58.37	C0	
ANISOU 3105 CG ARG A 202	7340	8850	5980	1610	-130	2210	C0
ATOM 3106 CD ARG A 202	-27.185	-29.765	41.750	1.00	60.69	C0	
ANISOU 3106 CD ARG A 202	7780	9090	6180	1820	-120	2440	C0
ATOM 3107 NE ARG A 202	-25.916	-30.437	41.500	1.00	62.54	N0	
ANISOU 3107 NE ARG A 202	7950	9380	6430	2100	-140	2550	N0
ATOM 3108 CZ ARG A 202	-25.680	-31.735	41.673	1.00	64.64	C0	
ANISOU 3108 CZ ARG A 202	8380	9500	6690	2330	-90	2750	C0
ATOM 3109 NH1 ARG A 202	-26.629	-32.547	42.109	1.00	65.20	N0	
ANISOU 3109 NH1 ARG A 202	8700	9340	6730	2300	-10	2870	N0
ATOM 3110 NH2 ARG A 202	-24.481	-32.219	41.399	1.00	66.44	N0	
ANISOU 3110 NH2 ARG A 202	8510	9800	6940	2590	-120	2830	N0
ATOM 3111 H ARG A 202	-28.289	-26.812	38.304	1.00	52.12	H0	
ANISOU 3111 H ARG A 202	6500	7820	5490	1240	-10	1790	H0
ATOM 3112 HA ARG A 202	-29.699	-26.133	40.554	1.00	53.16	H0	
ANISOU 3112 HA ARG A 202	6680	8140	5380	1020	-80	1820	H0
ATOM 3113 HB2 ARG A 202	-28.887	-27.693	41.972	1.00	56.86	H0	
ANISOU 3113 HB2 ARG A 202	7230	8700	5680	1320	-130	2140	H0
ATOM 3114 HB3 ARG A 202	-29.355	-28.531	40.714	1.00	56.14	H0	
ANISOU 3114 HB3 ARG A 202	7310	8270	5760	1340	0	2140	H0
ATOM 3115 HG2 ARG A 202	-27.117	-28.704	39.985	1.00	57.83	H0	
ANISOU 3115 HG2 ARG A 202	7290	8660	6030	1650	-80	2170	H0
ATOM 3116 HG3 ARG A 202	-26.640	-27.850	41.234	1.00	58.58	H0	
ANISOU 3116 HG3 ARG A 202	7200	9110	5950	1620	-210	2170	H0
ATOM 3117 HD2 ARG A 202	-27.252	-29.541	42.703	1.00	61.35	H0	
ANISOU 3117 HD2 ARG A 202	7840	9330	6140	1800	-180	2490	H0
ATOM 3118 HD3 ARG A 202	-27.925	-30.367	41.526	1.00	60.48	H0	
ANISOU 3118 HD3 ARG A 202	7940	8840	6210	1790	-30	2480	H0
ATOM 3119 HE ARG A 202	-25.256	-29.948	41.207	1.00	62.38	H0	
ANISOU 3119 HE ARG A 202	7770	9500	6430	2120	-190	2480	H0
ATOM 3120 HH11 ARG A 202	-27.428	-32.237	42.292	1.00	64.14	H0	
ANISOU 3120 HH11 ARG A 202	8620	9170	6580	2130	10	2810	H0
ATOM 3121 HH12 ARG A 202	-26.455	-33.402	42.219	1.00	66.69	H0	
ANISOU 3121 HH12 ARG A 202	9010	9420	6910	2460	30	3000	H0
ATOM 3122 HH21 ARG A 202	-23.845	-31.683	41.109	1.00	66.14	H0	
ANISOU 3122 HH21 ARG A 202	8300	9920	6920	2600	-170	2750	H0
ATOM 3123 HH22 ARG A 202	-24.318	-33.078	41.514	1.00	67.91	H0	
ANISOU 3123 HH22 ARG A 202	8810	9880	7110	2760	-90	2970	H0
ATOM 3124 N LYS A 203	-27.696	-24.930	41.574	1.00	56.67	N0	
ANISOU 3124 N LYS A 203	6750	9120	5650	1100	-270	1790	N0
ATOM 3125 CA LYS A 203	-26.574	-24.077	42.050	1.00	58.68	C0	
ANISOU 3125 CA LYS A 203	6770	9700	5820	1100	-380	1720	C0
ATOM 3126 C LYS A 203	-25.389	-24.985	42.407	1.00	61.03	C0	
ANISOU 3126 C LYS A 203	6990	10140	6050	1370	-450	1890	C0
ATOM 3127 O LYS A 203	-25.611	-26.014	43.068	1.00	62.08	O0	
ANISOU 3127 O LYS A 203	7260	10210	6110	1510	-440	2070	O0
ATOM 3128 CB LYS A 203	-27.030	-23.227	43.241	1.00	59.63	C0	
ANISOU 3128 CB LYS A 203	6850	10020	5790	940	-440	1670	C0

ATOM 3129 CG LYS A 203	-26.068 -22.128 43.674 1.00 61.14	C0
ANISOU 3129 CG LYS A 203	6810 10530 5890 870 -530 1550	C0
ATOM 3130 CD LYS A 203	-26.739 -21.031 44.482 1.00 61.41	C0
ANISOU 3130 CD LYS A 203	6840 10680 5820 650 -550 1420	C0
ATOM 3131 CE LYS A 203	-25.768 -20.186 45.280 1.00 63.25	C0
ANISOU 3131 CE LYS A 203	6860 11260 5910 600 -650 1340	C0
ATOM 3132 NZ LYS A 203	-25.386 -20.844 46.553 1.00 65.88	N0
ANISOU 3132 NZ LYS A 203	7160 11820 6050 730 -750 1500	N0
ATOM 3133 H LYS A 203	-28.406 -24.939 42.146 1.00 56.60	H0
ANISOU 3133 H LYS A 203	6820 9090 5590 1030 -260 1810	H0
ATOM 3134 HA LYS A 203	-26.306 -23.479 41.315 1.00 57.68	H0
ANISOU 3134 HA LYS A 203	6570 9580 5770 1040 -370 1600	H0
ATOM 3135 HB2 LYS A 203	-27.889 -22.814 43.012 1.00 58.21	H0
ANISOU 3135 HB2 LYS A 203	6750 9710 5650 810 -390 1580	H0
ATOM 3136 HB3 LYS A 203	-27.182 -23.823 44.004 1.00 60.75	H0
ANISOU 3136 HB3 LYS A 203	7060 10180 5840 1020 -460 1790	H0
ATOM 3137 HG2 LYS A 203	-25.351 -22.528 44.210 1.00 62.81	H0
ANISOU 3137 HG2 LYS A 203	6950 10910 6010 1000 -600 1640	H0
ATOM 3138 HG3 LYS A 203	-25.660 -21.732 42.874 1.00 60.49	H0
ANISOU 3138 HG3 LYS A 203	6660 10430 5900 850 -520 1460	H0
ATOM 3139 HD2 LYS A 203	-27.239 -20.447 43.872 1.00 59.78	H0
ANISOU 3139 HD2 LYS A 203	6660 10350 5700 530 -490 1310	H0
ATOM 3140 HD3 LYS A 203	-27.382 -21.440 45.100 1.00 61.59	H0
ANISOU 3140 HD3 LYS A 203	6960 10660 5780 660 -540 1500	H0
ATOM 3141 HE2 LYS A 203	-24.963 -20.027 44.751 1.00 63.47	H0
ANISOU 3141 HE2 LYS A 203	6770 11360 5980 630 -670 1300	H0
ATOM 3142 HE3 LYS A 203	-26.175 -19.322 45.479 1.00 62.52	H0
ANISOU 3142 HE3 LYS A 203	6760 11200 5800 430 -640 1220	H0
ATOM 3143 HZ1 LYS A 203	-26.122 -20.971 47.067 1.00 65.62	H0
ANISOU 3143 HZ1 LYS A 203	7230 11730 5970 690 -730 1540	H0
ATOM 3144 HZ2 LYS A 203	-24.796 -20.323 47.003 1.00 66.66	H0
ANISOU 3144 HZ2 LYS A 203	7120 12140 6060 690 -810 1440	H0
ATOM 3145 HZ3 LYS A 203	-25.001 -21.647 46.381 1.00 66.58	H0
ANISOU 3145 HZ3 LYS A 203	7260 11880 6160 890 -760 1620	H0
ATOM 3146 N LYS A 204	-24.186 -24.620 41.955 1.00 62.16	N0
ANISOU 3146 N LYS A 204	6940 10460 6220 1430 -500 1830	N0
ATOM 3147 CA LYS A 204	-22.923 -25.371 42.190 1.00 65.21	C0
ANISOU 3147 CA LYS A 204	7200 11030 6550 1700 -560 1960	C0
ATOM 3148 C LYS A 204	-22.506 -25.215 43.655 1.00 67.43	C0
ANISOU 3148 C LYS A 204	7370 11640 6620 1740 -690 2040	C0
ATOM 3149 O LYS A 204	-22.849 -24.183 44.256 1.00 66.87	O0
ANISOU 3149 O LYS A 204	7230 11710 6460 1520 -730 1920	O0
ATOM 3150 CB LYS A 204	-21.834 -24.869 41.237 1.00 65.24	C0
ANISOU 3150 CB LYS A 204	7000 11140 6640 1720 -570 1840	C0
ATOM 3151 CG LYS A 204	-21.991 -25.340 39.801 1.00 63.75	C0
ANISOU 3151 CG LYS A 204	6920 10650 6650 1760 -450 1810	C0
ATOM 3152 CD LYS A 204	-21.519 -24.343 38.778 1.00 62.60	C0
ANISOU 3152 CD LYS A 204	6630 10550 6600 1620 -430 1610	C0
ATOM 3153 CE LYS A 204	-20.033 -24.084 38.830 1.00 64.24	C0
ANISOU 3153 CE LYS A 204	6560 11080 6760 1720 -500 1590	C0
ATOM 3154 NZ LYS A 204	-19.574 -23.394 37.601 1.00 63.19	N0
ANISOU 3154 NZ LYS A 204	6330 10930 6750 1620 -440 1420	N0
ATOM 3155 H LYS A 204	-24.067 -23.863 41.462 1.00 61.16	H0
ANISOU 3155 H LYS A 204	6730 10360 6140 1320 -490 1690	H0

ATOM	3156	HA	LYS	A	204	-23.090	-26.324	42.009	1.00	65.68	H0	
ANISOU	3156	HA	LYS	A	204	7390	10910	6650	1840	-510	2090	H0
ATOM	3157	HB2	LYS	A	204	-21.834	-23.889	41.250	1.00	64.31	H0	
ANISOU	3157	HB2	LYS	A	204	6790	11140	6510	1540	-590	1700	H0
ATOM	3158	HB3	LYS	A	204	-20.964	-25.173	41.572	1.00	66.93	H0	
ANISOU	3158	HB3	LYS	A	204	7090	11550	6790	1870	-630	1910	H0
ATOM	3159	HG2	LYS	A	204	-21.488	-26.174	39.687	1.00	65.16	H0	
ANISOU	3159	HG2	LYS	A	204	7110	10810	6840	1960	-450	1920	H0
ATOM	3160	HG3	LYS	A	204	-22.938	-25.538	39.636	1.00	62.69	H0	
ANISOU	3160	HG3	LYS	A	204	6960	10300	6560	1690	-390	1820	H0
ATOM	3161	HD2	LYS	A	204	-21.750	-24.672	37.883	1.00	61.69	H0	
ANISOU	3161	HD2	LYS	A	204	6610	10230	6600	1640	-350	1600	H0
ATOM	3162	HD3	LYS	A	204	-21.992	-23.495	38.917	1.00	61.36	H0	
ANISOU	3162	HD3	LYS	A	204	6470	10420	6430	1430	-430	1510	H0
ATOM	3163	HE2	LYS	A	204	-19.822	-23.530	39.605	1.00	64.88	H0	
ANISOU	3163	HE2	LYS	A	204	6530	11390	6730	1650	-580	1560	H0
ATOM	3164	HE3	LYS	A	204	-19.554	-24.930	38.920	1.00	65.76	H0	
ANISOU	3164	HE3	LYS	A	204	6750	11300	6940	1930	-520	1710	H0
ATOM	3165	HZ1	LYS	A	204	-19.718	-23.924	36.879	1.00	62.75	H0	
ANISOU	3165	HZ1	LYS	A	204	6370	10680	6790	1690	-380	1450	H0
ATOM	3166	HZ2	LYS	A	204	-18.688	-23.212	37.664	1.00	64.33	H0	
ANISOU	3166	HZ2	LYS	A	204	6300	11280	6860	1660	-490	1400	H0
ATOM	3167	HZ3	LYS	A	204	-20.030	-22.617	37.496	1.00	61.87	H0	
ANISOU	3167	HZ3	LYS	A	204	6180	10730	6600	1430	-430	1310	H0
ATOM	3168	N	GLY	A	205	-21.801	-26.211	44.199	1.00	71.04	N0	
ANISOU	3168	N	GLY	A	205	7810	12200	6980	2010	-740	2240	N0
ATOM	3169	CA	GLY	A	205	-21.337	-26.234	45.602	1.00	73.64	C0	
ANISOU	3169	CA	GLY	A	205	8030	12860	7090	2090	-870	2340	C0
ATOM	3170	C	GLY	A	205	-20.056	-27.033	45.765	1.00	76.89	C0	
ANISOU	3170	C	GLY	A	205	8310	13470	7440	2410	-940	2500	C0
ATOM	3171	O	GLY	A	205	-19.625	-27.291	46.895	1.00	80.36	O0	
ANISOU	3171	O	GLY	A	205	8680	14170	7690	2540	-1050	2630	O0
ATOM	3172	H	GLY	A	205	-21.565	-26.950	43.720	1.00	71.36	H0	
ANISOU	3172	H	GLY	A	205	7900	12110	7100	2170	-700	2320	H0
ATOM	3173	HA2	GLY	A	205	-21.184	-25.305	45.907	1.00	73.33	H0	
ANISOU	3173	HA2	GLY	A	205	7850	13020	6990	1930	-920	2210	H0
ATOM	3174	HA3	GLY	A	205	-22.045	-26.631	46.168	1.00	73.79	H0	
ANISOU	3174	HA3	GLY	A	205	8210	12770	7050	2090	-850	2440	H0
TER	3175		GLY	A	205							
ATOM	3176	N	ALA	B	1	-54.472	-18.269	-6.258	1.00	85.61	N0	
ANISOU	3176	N	ALA	B	1	14480	11430	6620	-200	-1120	-2230	N0
ATOM	3177	CA	ALA	B	1	-54.251	-19.712	-6.590	1.00	88.31	C0	
ANISOU	3177	CA	ALA	B	1	15190	11540	6820	-240	-1100	-2420	C0
ATOM	3178	C	ALA	B	1	-53.327	-20.377	-5.556	1.00	87.05	C0	
ANISOU	3178	C	ALA	B	1	15030	11190	6850	-180	-860	-2390	C0
ATOM	3179	O	ALA	B	1	-53.454	-21.606	-5.376	1.00	90.14	O0	
ANISOU	3179	O	ALA	B	1	15650	11370	7230	-290	-880	-2540	O0
ATOM	3180	CB	ALA	B	1	-53.698	-19.842	-7.990	1.00	90.63	C0	
ANISOU	3180	CB	ALA	B	1	15820	11840	6770	-50	-1050	-2490	C0
ATOM	3181	H	ALA	B	1	-53.751	-17.777	-6.520	1.00	85.22	H0	
ANISOU	3181	H	ALA	B	1	14440	11420	6510	-30	-980	-2130	H0
ATOM	3182	HA	ALA	B	1	-55.123	-20.170	-6.558	1.00	89.36	H0	
ANISOU	3182	HA	ALA	B	1	15330	11650	6970	-440	-1280	-2540	H0
ATOM	3183	HB1	ALA	B	1	-53.781	-20.764	-8.287	1.00	92.50	H0	

ANISOU	3183	HB1	ALA	B	1	16310	11940	6900	-100	-1090	-2640	H0
ATOM	3184	HB2	ALA	B	1	-54.195	-19.263	-8.591	1.00	91.34		H0
ANISOU	3184	HB2	ALA	B	1	15880	12070	6750	-50	-1180	-2480	H0
ATOM	3185	HB3	ALA	B	1	-52.761	-19.586	-7.995	1.00	89.81		H0
ANISOU	3185	HB3	ALA	B	1	15730	11730	6660	140	-840	-2390	H0
ATOM	3186	N	ASP	B	2	-52.426	-19.614	-4.922	1.00	83.72		N0
ANISOU	3186	N	ASP	B	2	14390	10830	6580	-10	-650	-2190	N0
ATOM	3187	CA	ASP	B	2	-51.529	-20.091	-3.829	1.00	81.25		C0
ANISOU	3187	CA	ASP	B	2	14030	10380	6460	60	-430	-2130	C0
ATOM	3188	C	ASP	B	2	-51.290	-18.951	-2.826	1.00	76.76		C0
ANISOU	3188	C	ASP	B	2	13070	9950	6150	80	-360	-1920	C0
ATOM	3189	O	ASP	B	2	-51.787	-17.834	-3.071	1.00	76.40		O0
ANISOU	3189	O	ASP	B	2	12830	10090	6100	50	-460	-1830	O0
ATOM	3190	CB	ASP	B	2	-50.221	-20.664	-4.390	1.00	82.91		C0
ANISOU	3190	CB	ASP	B	2	14510	10490	6500	320	-190	-2150	C0
ATOM	3191	CG	ASP	B	2	-49.330	-19.659	-5.106	1.00	82.76		C0
ANISOU	3191	CG	ASP	B	2	14440	10640	6360	560	-30	-2000	C0
ATOM	3192	OD1	ASP	B	2	-49.600	-18.446	-5.000	1.00	81.50		O0
ANISOU	3192	OD1	ASP	B	2	14010	10670	6290	530	-80	-1860	O0
ATOM	3193	OD2	ASP	B	2	-48.365	-20.100	-5.761	1.00	84.34		O0
ANISOU	3193	OD2	ASP	B	2	14870	10790	6380	780	160	-2020	O0
ATOM	3194	H	ASP	B	2	-52.293	-18.740	-5.136	1.00	82.88		H0
ANISOU	3194	H	ASP	B	2	14160	10870	6460	60	-630	-2090	H0
ATOM	3195	HA	ASP	B	2	-51.994	-20.820	-3.355	1.00	81.59		H0
ANISOU	3195	HA	ASP	B	2	14120	10300	6580	-90	-500	-2220	H0
ATOM	3196	HB2	ASP	B	2	-49.707	-21.055	-3.655	1.00	82.00		H0
ANISOU	3196	HB2	ASP	B	2	14370	10280	6520	370	-70	-2110	H0
ATOM	3197	HB3	ASP	B	2	-50.437	-21.379	-5.022	1.00	84.95		H0
ANISOU	3197	HB3	ASP	B	2	15040	10640	6590	300	-250	-2290	H0
ATOM	3198	N	ARG	B	3	-50.562	-19.227	-1.738	1.00	73.40		N0
ANISOU	3198	N	ARG	B	3	12540	9440	5910	130	-190	-1850	N0
ATOM	3199	CA	ARG	B	3	-50.318	-18.271	-0.622	1.00	69.34		C0
ANISOU	3199	CA	ARG	B	3	11670	9030	5650	130	-120	-1670	C0
ATOM	3200	C	ARG	B	3	-49.609	-17.018	-1.156	1.00	66.36		C0
ANISOU	3200	C	ARG	B	3	11180	8830	5210	300	-20	-1510	C0
ATOM	3201	O	ARG	B	3	-49.977	-15.915	-0.724	1.00	63.16		O0
ANISOU	3201	O	ARG	B	3	10510	8550	4930	240	-70	-1400	O0
ATOM	3202	CB	ARG	B	3	-49.514	-18.938	0.500	1.00	69.23		C0
ANISOU	3202	CB	ARG	B	3	11630	8870	5800	190	40	-1630	C0
ATOM	3203	CG	ARG	B	3	-50.313	-19.938	1.324	1.00	70.26		C0
ANISOU	3203	CG	ARG	B	3	11810	8840	6050	-10	-60	-1740	C0
ATOM	3204	CD	ARG	B	3	-49.494	-20.585	2.425	1.00	70.02		C0
ANISOU	3204	CD	ARG	B	3	11770	8670	6160	70	100	-1690	C0
ATOM	3205	NE	ARG	B	3	-50.227	-21.638	3.120	1.00	71.17		N0
ANISOU	3205	NE	ARG	B	3	12020	8630	6390	-120	20	-1790	N0
ATOM	3206	CZ	ARG	B	3	-50.431	-22.872	2.657	1.00	74.57		C0
ANISOU	3206	CZ	ARG	B	3	12790	8850	6700	-160	-10	-1950	C0
ATOM	3207	NH1	ARG	B	3	-49.965	-23.241	1.474	1.00	76.63		N0
ANISOU	3207	NH1	ARG	B	3	13320	9070	6720	-20	40	-2040	N0
ATOM	3208	NH2	ARG	B	3	-51.116	-23.739	3.383	1.00	75.72		N0
ANISOU	3208	NH2	ARG	B	3	13000	8830	6940	-360	-70	-2020	N0
ATOM	3209	H	ARG	B	3	-50.170	-20.039	-1.612	1.00	74.24		H0
ANISOU	3209	H	ARG	B	3	12800	9410	6000	170	-110	-1910	H0
ATOM	3210	HA	ARG	B	3	-51.193	-17.999	-0.258	1.00	68.69		H0

ANISOU 3210 HA ARG B 3	11450	8990	5660	-20	-260	-1670	H0
ATOM 3211 HB2 ARG B 3	-48.744	-19.398	0.103	1.00	70.20		H0
ANISOU 3211 HB2 ARG B 3	11920	8940	5820	340	170	-1650	H0
ATOM 3212 HB3 ARG B 3	-49.171	-18.240	1.097	1.00	67.51		H0
ANISOU 3212 HB3 ARG B 3	11200	8740	5710	220	100	-1510	H0
ATOM 3213 HG2 ARG B 3	-51.082	-19.481	1.728	1.00	69.31		H0
ANISOU 3213 HG2 ARG B 3	11510	8790	6030	-150	-180	-1710	H0
ATOM 3214 HG3 ARG B 3	-50.658	-20.639	0.732	1.00	72.01		H0
ANISOU 3214 HG3 ARG B 3	12250	8970	6140	-60	-130	-1860	H0
ATOM 3215 HD2 ARG B 3	-48.674	-20.960	2.041	1.00	70.87		H0
ANISOU 3215 HD2 ARG B 3	12030	8730	6170	240	230	-1690	H0
ATOM 3216 HD3 ARG B 3	-49.233	-19.898	3.074	1.00	68.22		H0
ANISOU 3216 HD3 ARG B 3	11320	8530	6070	100	150	-1570	H0
ATOM 3217 HE ARG B 3	-50.557	-21.447	3.904	1.00	70.18		H0
ANISOU 3217 HE ARG B 3	11740	8520	6410	-210	-10	-1740	H0
ATOM 3218 HH11 ARG B 3	-49.510	-22.677	0.980	1.00	76.35		H0
ANISOU 3218 HH11 ARG B 3	13240	9150	6610	110	90	-1980	H0
ATOM 3219 HH12 ARG B 3	-50.110	-24.058	1.184	1.00	78.26		H0
ANISOU 3219 HH12 ARG B 3	13770	9130	6840	-50	20	-2150	H0
ATOM 3220 HH21 ARG B 3	-51.430	-23.501	4.171	1.00	74.20		H0
ANISOU 3220 HH21 ARG B 3	12630	8660	6900	-450	-100	-1960	H0
ATOM 3221 HH22 ARG B 3	-51.253	-24.555	3.080	1.00	77.15		H0
ANISOU 3221 HH22 ARG B 3	13420	8860	7040	-400	-90	-2130	H0
ATOM 3222 N ALA B 4	-48.645	-17.187	-2.068	1.00	66.60		N0
ANISOU 3222 N ALA B 4	11400	8860	5050	500	140	-1510	N0
ATOM 3223 CA ALA B 4	-47.886	-16.088	-2.711	1.00	65.00		C0
ANISOU 3223 CA ALA B 4	11130	8810	4760	660	270	-1360	C0
ATOM 3224 C ALA B 4	-48.867	-15.100	-3.352	1.00	63.91		C0
ANISOU 3224 C ALA B 4	10930	8810	4540	570	90	-1340	C0
ATOM 3225 O ALA B 4	-48.803	-13.898	-3.014	1.00	62.46		O0
ANISOU 3225 O ALA B 4	10510	8750	4470	570	110	-1180	O0
ATOM 3226 CB ALA B 4	-46.915	-16.646	-3.721	1.00	67.43		C0
ANISOU 3226 CB ALA B 4	11700	9090	4830	870	450	-1400	C0
ATOM 3227 H ALA B 4	-48.377	-18.008	-2.359	1.00	67.84		H0
ANISOU 3227 H ALA B 4	11760	8910	5110	560	190	-1600	H0
ATOM 3228 HA ALA B 4	-47.377	-15.612	-2.013	1.00	63.54		H0
ANISOU 3228 HA ALA B 4	10750	8670	4730	680	370	-1240	H0
ATOM 3229 HB1 ALA B 4	-46.460	-15.915	-4.172	1.00	67.43		H0
ANISOU 3229 HB1 ALA B 4	11650	9200	4770	960	540	-1300	H0
ATOM 3230 HB2 ALA B 4	-46.260	-17.204	-3.268	1.00	67.25		H0
ANISOU 3230 HB2 ALA B 4	11690	8990	4870	950	580	-1400	H0
ATOM 3231 HB3 ALA B 4	-47.396	-17.179	-4.375	1.00	68.98		H0
ANISOU 3231 HB3 ALA B 4	12110	9230	4870	850	360	-1520	H0
ATOM 3232 N ASP B 5	-49.760	-15.605	-4.209	1.00	64.55		N0
ANISOU 3232 N ASP B 5	11220	8870	4430	500	-90	-1490	N0
ATOM 3233 CA ASP B 5	-50.823	-14.816	-4.892	1.00	64.63		C0
ANISOU 3233 CA ASP B 5	11200	9020	4330	420	-310	-1490	C0
ATOM 3234 C ASP B 5	-51.627	-14.016	-3.856	1.00	61.77		C0
ANISOU 3234 C ASP B 5	10510	8740	4230	280	-430	-1400	C0
ATOM 3235 O ASP B 5	-51.815	-12.811	-4.076	1.00	61.38		O0
ANISOU 3235 O ASP B 5	10320	8820	4170	320	-470	-1270	O0
ATOM 3236 CB ASP B 5	-51.743	-15.713	-5.727	1.00	67.26		C0
ANISOU 3236 CB ASP B 5	11780	9310	4460	320	-520	-1700	C0
ATOM 3237 CG ASP B 5	-51.065	-16.387	-6.910	1.00	70.10		C0

ANISOU	3237	CG	ASP	B	5	12510	9600	4520	480	-420	-1790	C0
ATOM	3238	OD1	ASP	B	5	-49.878	-16.086	-7.161	1.00	69.81		O0
ANISOU	3238	OD1	ASP	B	5	12510	9590	4430	690	-170	-1680	O0
ATOM	3239	OD2	ASP	B	5	-51.732	-17.214	-7.571	1.00	72.77		O0
ANISOU	3239	OD2	ASP	B	5	13090	9880	4680	400	-580	-1980	O0
ATOM	3240	H	ASP	B	5	-49.771	-16.489	-4.428	1.00	65.96		H0
ANISOU	3240	H	ASP	B	5	11580	8950	4530	500	-100	-1610	H0
ATOM	3241	HA	ASP	B	5	-50.383	-14.178	-5.502	1.00	64.97		H0
ANISOU	3241	HA	ASP	B	5	11270	9150	4270	540	-230	-1400	H0
ATOM	3242	HB2	ASP	B	5	-52.117	-16.409	-5.151	1.00	67.21		H0
ANISOU	3242	HB2	ASP	B	5	11770	9210	4560	200	-580	-1780	H0
ATOM	3243	HB3	ASP	B	5	-52.484	-15.173	-6.069	1.00	67.69		H0
ANISOU	3243	HB3	ASP	B	5	11780	9470	4470	270	-680	-1690	H0
ATOM	3244	N	ILE	B	6	-52.074	-14.652	-2.766	1.00	59.90		N0
ANISOU	3244	N	ILE	B	6	10160	8410	4190	120	-490	-1460	N0
ATOM	3245	CA	ILE	B	6	-52.946	-14.022	-1.723	1.00	57.86		C0
ANISOU	3245	CA	ILE	B	6	9600	8220	4170	-20	-610	-1400	C0
ATOM	3246	C	ILE	B	6	-52.198	-12.857	-1.054	1.00	55.43		C0
ANISOU	3246	C	ILE	B	6	9070	7970	4010	80	-450	-1200	C0
ATOM	3247	O	ILE	B	6	-52.829	-11.788	-0.821	1.00	53.42		O0
ANISOU	3247	O	ILE	B	6	8630	7830	3840	50	-550	-1110	O0
ATOM	3248	CB	ILE	B	6	-53.423	-15.055	-0.682	1.00	57.29		C0
ANISOU	3248	CB	ILE	B	6	9480	8010	4270	-200	-660	-1500	C0
ATOM	3249	CG1	ILE	B	6	-54.350	-16.103	-1.306	1.00	59.87		C0
ANISOU	3249	CG1	ILE	B	6	10000	8280	4460	-350	-850	-1690	C0
ATOM	3250	CG2	ILE	B	6	-54.082	-14.357	0.500	1.00	55.17		C0
ANISOU	3250	CG2	ILE	B	6	8900	7820	4250	-310	-720	-1410	C0
ATOM	3251	CD1	ILE	B	6	-54.574	-17.319	-0.439	1.00	60.37		C0
ANISOU	3251	CD1	ILE	B	6	10110	8170	4660	-510	-850	-1800	C0
ATOM	3252	H	ILE	B	6	-51.867	-15.521	-2.589	1.00	60.48		H0
ANISOU	3252	H	ILE	B	6	10340	8370	4270	100	-450	-1540	H0
ATOM	3253	HA	ILE	B	6	-53.733	-13.660	-2.169	1.00	58.59		H0
ANISOU	3253	HA	ILE	B	6	9660	8400	4200	-70	-760	-1420	H0
ATOM	3254	HB	ILE	B	6	-52.623	-15.528	-0.344	1.00	56.91		H0
ANISOU	3254	HB	ILE	B	6	9500	7860	4260	-140	-510	-1490	H0
ATOM	3255	HG12	ILE	B	6	-55.218	-15.684	-1.491	1.00	60.32		H0
ANISOU	3255	HG12	ILE	B	6	9960	8450	4510	-430	-1010	-1700	H0
ATOM	3256	HG13	ILE	B	6	-53.969	-16.393	-2.161	1.00	61.32		H0
ANISOU	3256	HG13	ILE	B	6	10400	8440	4470	-270	-820	-1750	H0
ATOM	3257	HG21	ILE	B	6	-53.401	-13.945	1.059	1.00	53.73		H0
ANISOU	3257	HG21	ILE	B	6	8620	7630	4170	-230	-590	-1300	H0
ATOM	3258	HG22	ILE	B	6	-54.580	-15.004	1.028	1.00	55.32		H0
ANISOU	3258	HG22	ILE	B	6	8900	7770	4350	-440	-780	-1480	H0
ATOM	3259	HG23	ILE	B	6	-54.691	-13.671	0.175	1.00	55.43		H0
ANISOU	3259	HG23	ILE	B	6	8840	7970	4250	-320	-830	-1370	H0
ATOM	3260	HD11	ILE	B	6	-53.718	-17.730	-0.227	1.00	59.90		H0
ANISOU	3260	HD11	ILE	B	6	10150	8000	4610	-420	-690	-1780	H0
ATOM	3261	HD12	ILE	B	6	-55.130	-17.960	-0.914	1.00	62.04		H0
ANISOU	3261	HD12	ILE	B	6	10460	8340	4770	-620	-970	-1920	H0
ATOM	3262	HD13	ILE	B	6	-55.018	-17.057	0.385	1.00	59.04		H0
ANISOU	3262	HD13	ILE	B	6	9740	8030	4660	-600	-880	-1750	H0
ATOM	3263	N	LEU	B	7	-50.915	-13.055	-0.735	1.00	55.24		N0
ANISOU	3263	N	LEU	B	7	9080	7880	4030	190	-230	-1140	N0
ATOM	3264	CA	LEU	B	7	-50.064	-12.023	-0.087	1.00	54.71		C0

ANISOU 3264 CA LEU B 7	8810	7860	4110	270	-80	-960	C0
ATOM 3265 C LEU B 7	-49.821	-10.869	-1.071	1.00	55.75		C0
ANISOU 3265 C LEU B 7	8970	8120	4100	370	-40	-850	C0
ATOM 3266 O LEU B 7	-49.803	-9.719	-0.625	1.00	54.59		O0
ANISOU 3266 O LEU B 7	8640	8030	4070	370	-30	-710	O0
ATOM 3267 CB LEU B 7	-48.762	-12.677	0.392	1.00	55.20		C0
ANISOU 3267 CB LEU B 7	8900	7840	4230	360	140	-940	C0
ATOM 3268 CG LEU B 7	-47.887	-11.864	1.352	1.00	54.13		C0
ANISOU 3268 CG LEU B 7	8540	7740	4290	400	280	-780	C0
ATOM 3269 CD1 LEU B 7	-46.845	-11.056	0.595	1.00	55.44		C0
ANISOU 3269 CD1 LEU B 7	8710	8000	4350	530	440	-650	C0
ATOM 3270 CD2 LEU B 7	-48.708	-10.952	2.256	1.00	52.74		C0
ANISOU 3270 CD2 LEU B 7	8140	7610	4290	270	160	-720	C0
ATOM 3271 H LEU B 7	-50.483	-13.842	-0.896	1.00	56.18		H0
ANISOU 3271 H LEU B 7	9340	7910	4090	230	-160	-1210	H0
ATOM 3272 HA LEU B 7	-50.557	-11.671	0.688	1.00	53.48		H0
ANISOU 3272 HA LEU B 7	8490	7720	4110	180	-140	-930	H0
ATOM 3273 HB2 LEU B 7	-48.992	-13.520	0.832	1.00	55.20		H0
ANISOU 3273 HB2 LEU B 7	8940	7750	4280	310	110	-1030	H0
ATOM 3274 HB3 LEU B 7	-48.228	-12.900	-0.397	1.00	56.43		H0
ANISOU 3274 HB3 LEU B 7	9200	8000	4240	470	220	-950	H0
ATOM 3275 HG LEU B 7	-47.405	-12.505	1.932	1.00	53.84		H0
ANISOU 3275 HG LEU B 7	8490	7640	4330	420	350	-800	H0
ATOM 3276 HD11 LEU B 7	-46.403	-11.625	-0.060	1.00	56.57		H0
ANISOU 3276 HD11 LEU B 7	9010	8130	4360	630	520	-700	H0
ATOM 3277 HD12 LEU B 7	-46.186	-10.712	1.221	1.00	54.33		H0
ANISOU 3277 HD12 LEU B 7	8440	7880	4330	550	540	-570	H0
ATOM 3278 HD13 LEU B 7	-47.277	-10.313	0.140	1.00	55.45		H0
ANISOU 3278 HD13 LEU B 7	8710	8060	4300	520	380	-610	H0
ATOM 3279 HD21 LEU B 7	-49.047	-10.200	1.742	1.00	52.89		H0
ANISOU 3279 HD21 LEU B 7	8150	7700	4250	280	100	-670	H0
ATOM 3280 HD22 LEU B 7	-48.146	-10.621	2.978	1.00	51.52		H0
ANISOU 3280 HD22 LEU B 7	7860	7460	4260	280	240	-640	H0
ATOM 3281 HD23 LEU B 7	-49.454	-11.451	2.632	1.00	52.49		H0
ANISOU 3281 HD23 LEU B 7	8100	7530	4310	180	50	-800	H0
ATOM 3282 N TYR B 8	-49.685	-11.153	-2.370	1.00	58.84		N0
ANISOU 3282 N TYR B 8	9590	8530	4230	470	-30	-900	N0
ATOM 3283 CA TYR B 8	-49.507	-10.125	-3.434	1.00	60.53		C0
ANISOU 3283 CA TYR B 8	9870	8850	4270	570	0	-790	C0
ATOM 3284 C TYR B 8	-50.784	-9.275	-3.580	1.00	60.11		C0
ANISOU 3284 C TYR B 8	9740	8890	4210	500	-230	-770	C0
ATOM 3285 O TYR B 8	-50.685	-7.998	-3.641	1.00	59.73		O0
ANISOU 3285 O TYR B 8	9600	8920	4180	550	-190	-610	O0
ATOM 3286 CB TYR B 8	-49.167	-10.782	-4.775	1.00	64.11		C0
ANISOU 3286 CB TYR B 8	10630	9300	4430	690	50	-880	C0
ATOM 3287 CG TYR B 8	-48.953	-9.820	-5.915	1.00	65.81		C0
ANISOU 3287 CG TYR B 8	10950	9630	4430	810	90	-770	C0
ATOM 3288 CD1 TYR B 8	-47.731	-9.192	-6.101	1.00	66.47		C0
ANISOU 3288 CD1 TYR B 8	11010	9740	4510	930	340	-610	C0
ATOM 3289 CD2 TYR B 8	-49.967	-9.542	-6.816	1.00	68.10		C0
ANISOU 3289 CD2 TYR B 8	11350	9990	4530	810	-110	-810	C0
ATOM 3290 CE1 TYR B 8	-47.520	-8.315	-7.154	1.00	68.07		C0
ANISOU 3290 CE1 TYR B 8	11320	10040	4510	1030	410	-490	C0
ATOM 3291 CE2 TYR B 8	-49.774	-8.668	-7.875	1.00	70.16		C0

ANISOU 3291	CE2 TYR B	8	11730	10340	4580	930	-60	-700	C0
ATOM 3292	CZ TYR B	8	-48.547	-8.047	-8.042	1.00	70.17		C0
ANISOU 3292	CZ TYR B	8	11730	10360	4570	1040	200	-540	C0
ATOM 3293	OH TYR B	8	-48.356	-7.182	-9.082	1.00	73.15		O0
ANISOU 3293	OH TYR B	8	12240	10820	4740	1150	260	-410	O0
ATOM 3294	H TYR B	8	-49.681	-12.004	-2.700	1.00	59.81		H0
ANISOU 3294	H TYR B	8	9870	8590	4270	470	-40	-1010	H0
ATOM 3295	HA TYR B	8	-48.760	-9.528	-3.174	1.00	59.73		H0
ANISOU 3295	HA TYR B	8	9680	8770	4240	620	140	-670	H0
ATOM 3296	HB2 TYR B	8	-48.356	-11.320	-4.659	1.00	64.02		H0
ANISOU 3296	HB2 TYR B	8	10660	9240	4430	760	200	-890	H0
ATOM 3297	HB3 TYR B	8	-49.896	-11.391	-5.012	1.00	64.82		H0
ANISOU 3297	HB3 TYR B	8	10810	9370	4450	630	-100	-1010	H0
ATOM 3298	HD1 TYR B	8	-47.026	-9.368	-5.501	1.00	65.50		H0
ANISOU 3298	HD1 TYR B	8	10790	9590	4510	940	480	-570	H0
ATOM 3299	HD2 TYR B	8	-50.805	-9.961	-6.711	1.00	68.32		H0
ANISOU 3299	HD2 TYR B	8	11380	10010	4570	720	-290	-920	H0
ATOM 3300	HE1 TYR B	8	-46.682	-7.895	-7.260	1.00	68.26		H0
ANISOU 3300	HE1 TYR B	8	11320	10090	4530	1100	580	-380	H0
ATOM 3301	HE2 TYR B	8	-50.478	-8.490	-8.476	1.00	71.15		H0
ANISOU 3301	HE2 TYR B	8	11940	10520	4570	930	-210	-730	H0
ATOM 3302	N ASN B	9	-51.939	-9.962	-3.659	1.00	61.25		N0
ANISOU 3302	N ASN B	9	9920	9030	4320	390	-450	-920	N0
ATOM 3303	CA ASN B	9	-53.283	-9.342	-3.812	1.00	62.60		C0
ANISOU 3303	CA ASN B	9	9990	9320	4480	330	-690	-930	C0
ATOM 3304	C ASN B	9	-53.624	-8.534	-2.553	1.00	60.91		C0
ANISOU 3304	C ASN B	9	9490	9120	4530	260	-700	-820	C0
ATOM 3305	O ASN B	9	-54.235	-7.461	-2.700	1.00	61.20		O0
ANISOU 3305	O ASN B	9	9430	9260	4560	300	-800	-730	O0
ATOM 3306	CB ASN B	9	-54.354	-10.388	-4.133	1.00	64.54		C0
ANISOU 3306	CB ASN B	9	10320	9560	4640	200	-910	-1120	C0
ATOM 3307	CG ASN B	9	-54.202	-10.980	-5.522	1.00	67.92		C0
ANISOU 3307	CG ASN B	9	11050	9990	4760	270	-950	-1230	C0
ATOM 3308	OD1 ASN B	9	-53.283	-10.628	-6.262	1.00	68.63		O0
ANISOU 3308	OD1 ASN B	9	11300	10090	4690	430	-780	-1150	O0
ATOM 3309	ND2 ASN B	9	-55.093	-11.888	-5.886	1.00	69.73		N0
ANISOU 3309	ND2 ASN B	9	11380	10220	4890	140	-1150	-1410	N0
ATOM 3310	H ASN B	9	-51.969	-10.880	-3.628	1.00	61.90		H0
ANISOU 3310	H ASN B	9	10080	9050	4390	350	-460	-1030	H0
ATOM 3311	HA ASN B	9	-53.243	-8.717	-4.574	1.00	63.51		H0
ANISOU 3311	HA ASN B	9	10180	9500	4450	420	-690	-860	H0
ATOM 3312	HB2 ASN B	9	-54.302	-11.108	-3.471	1.00	64.00		H0
ANISOU 3312	HB2 ASN B	9	10220	9410	4690	110	-890	-1190	H0
ATOM 3313	HB3 ASN B	9	-55.236	-9.971	-4.059	1.00	64.80		H0
ANISOU 3313	HB3 ASN B	9	10230	9680	4700	140	-1070	-1110	H0
ATOM 3314	HD21 ASN B	9	-55.040	-12.266	-6.684	1.00	71.38		H0
ANISOU 3314	HD21 ASN B	9	11790	10420	4910	180	-1180	-1480	H0
ATOM 3315	HD22 ASN B	9	-55.743	-12.119	-5.332	1.00	69.36		H0
ANISOU 3315	HD22 ASN B	9	11210	10170	4970	20	-1260	-1450	H0
ATOM 3316	N ILE B	10	-53.241	-9.018	-1.367	1.00	59.44		N0
ANISOU 3316	N ILE B	10	9180	8840	4560	180	-610	-830	N0
ATOM 3317	CA ILE B	10	-53.394	-8.259	-0.090	1.00	58.82		C0
ANISOU 3317	CA ILE B	10	8850	8760	4730	140	-590	-730	C0
ATOM 3318	C ILE B	10	-52.576	-6.966	-0.198	1.00	59.48		C0

ANISOU 3318 C ILE B 10	8910	8870	4820	250	-440	-550	C0
ATOM 3319 O ILE B 10	-53.120	-5.903	0.155	1.00	59.62		O0
ANISOU 3319 O ILE B 10	8800	8940	4920	260	-510	-460	O0
ATOM 3320 CB ILE B 10	-53.002	-9.113	1.135	1.00	56.63		C0
ANISOU 3320 CB ILE B 10	8490	8370	4650	50	-500	-780	C0
ATOM 3321 CG1 ILE B 10	-54.142	-10.061	1.521	1.00	57.29		C0
ANISOU 3321 CG1 ILE B 10	8540	8440	4790	-110	-670	-920	C0
ATOM 3322 CG2 ILE B 10	-52.577	-8.235	2.305	1.00	54.66		C0
ANISOU 3322 CG2 ILE B 10	8050	8110	4610	50	-400	-650	C0
ATOM 3323 CD1 ILE B 10	-53.783	-11.061	2.596	1.00	56.49		C0
ANISOU 3323 CD1 ILE B 10	8410	8200	4850	-190	-580	-980	C0
ATOM 3324 H ILE B 10	-52.872	-9.844	-1.265	1.00	59.84		H0
ANISOU 3324 H ILE B 10	9310	8810	4620	160	-550	-910	H0
ATOM 3325 HA ILE B 10	-54.333	-8.016	0.002	1.00	58.85		H0
ANISOU 3325 HA ILE B 10	8770	8830	4760	90	-730	-750	H0
ATOM 3326 HB ILE B 10	-52.225	-9.669	0.878	1.00	57.15		H0
ANISOU 3326 HB ILE B 10	8680	8380	4660	90	-390	-810	H0
ATOM 3327 HG12 ILE B 10	-54.902	-9.525	1.833	1.00	57.00		H0
ANISOU 3327 HG12 ILE B 10	8360	8470	4820	-150	-760	-890	H0
ATOM 3328 HG13 ILE B 10	-54.429	-10.550	0.721	1.00	58.80		H0
ANISOU 3328 HG13 ILE B 10	8860	8640	4840	-120	-740	-1010	H0
ATOM 3329 HG21 ILE B 10	-51.723	-7.814	2.107	1.00	54.44		H0
ANISOU 3329 HG21 ILE B 10	8050	8080	4560	130	-280	-570	H0
ATOM 3330 HG22 ILE B 10	-52.485	-8.779	3.106	1.00	53.81		H0
ANISOU 3330 HG22 ILE B 10	7880	7940	4620	-10	-370	-680	H0
ATOM 3331 HG23 ILE B 10	-53.249	-7.548	2.460	1.00	54.41		H0
ANISOU 3331 HG23 ILE B 10	7920	8140	4620	40	-490	-610	H0
ATOM 3332 HD11 ILE B 10	-52.886	-11.405	2.435	1.00	56.46		H0
ANISOU 3332 HD11 ILE B 10	8510	8140	4800	-120	-460	-970	H0
ATOM 3333 HD12 ILE B 10	-54.418	-11.798	2.581	1.00	57.25		H0
ANISOU 3333 HD12 ILE B 10	8540	8270	4930	-290	-680	-1080	H0
ATOM 3334 HD13 ILE B 10	-53.811	-10.628	3.467	1.00	55.09		H0
ANISOU 3334 HD13 ILE B 10	8080	8030	4820	-210	-550	-910	H0
ATOM 3335 N ARG B 11	-51.339	-7.053	-0.698	1.00	61.17		N0
ANISOU 3335 N ARG B 11	9250	9050	4950	340	-250	-510	N0
ATOM 3336 CA ARG B 11	-50.389	-5.908	-0.789	1.00	62.92		C0
ANISOU 3336 CA ARG B 11	9440	9290	5180	420	-90	-330	C0
ATOM 3337 C ARG B 11	-50.835	-4.898	-1.859	1.00	64.52		C0
ANISOU 3337 C ARG B 11	9750	9570	5200	510	-150	-250	C0
ATOM 3338 O ARG B 11	-50.236	-3.811	-1.906	1.00	65.04		O0
ANISOU 3338 O ARG B 11	9790	9640	5280	550	-40	-90	O0
ATOM 3339 CB ARG B 11	-48.976	-6.414	-1.094	1.00	64.81		C0
ANISOU 3339 CB ARG B 11	9770	9490	5360	500	140	-310	C0
ATOM 3340 CG ARG B 11	-48.342	-7.224	0.029	1.00	64.49		C0
ANISOU 3340 CG ARG B 11	9620	9380	5510	450	230	-350	C0
ATOM 3341 CD ARG B 11	-47.346	-6.435	0.857	1.00	64.79		C0
ANISOU 3341 CD ARG B 11	9490	9410	5720	440	380	-210	C0
ATOM 3342 NE ARG B 11	-46.374	-7.299	1.515	1.00	65.77		N0
ANISOU 3342 NE ARG B 11	9560	9490	5940	450	510	-240	N0
ATOM 3343 CZ ARG B 11	-45.367	-7.929	0.904	1.00	68.00		C0
ANISOU 3343 CZ ARG B 11	9940	9790	6110	560	670	-240	C0
ATOM 3344 NH1 ARG B 11	-45.183	-7.809	-0.402	1.00	70.08		N0
ANISOU 3344 NH1 ARG B 11	10370	10100	6150	660	730	-230	N0
ATOM 3345 NH2 ARG B 11	-44.543	-8.684	1.609	1.00	67.83		N0

ANISOU 3345 NH2 ARG B 11	9850	9730	6190	590	780	-260	N0
ATOM 3346 H ARG B 11	-50.994	-7.836	-1.011	1.00	61.98		H0
ANISOU 3346 H ARG B 11	9460	9120	4980	360	-210	-580	H0
ATOM 3347 HA ARG B 11	-50.377	-5.451	0.084	1.00	61.49		H0
ANISOU 3347 HA ARG B 11	9120	9080	5160	380	-70	-280	H0
ATOM 3348 HB2 ARG B 11	-49.010	-6.967	-1.901	1.00	66.00		H0
ANISOU 3348 HB2 ARG B 11	10070	9650	5350	540	120	-380	H0
ATOM 3349 HB3 ARG B 11	-48.405	-5.641	-1.287	1.00	64.79		H0
ANISOU 3349 HB3 ARG B 11	9760	9510	5350	540	240	-190	H0
ATOM 3350 HG2 ARG B 11	-49.049	-7.556	0.623	1.00	63.87		H0
ANISOU 3350 HG2 ARG B 11	9480	9270	5520	370	110	-420	H0
ATOM 3351 HG3 ARG B 11	-47.887	-8.002	-0.356	1.00	65.40		H0
ANISOU 3351 HG3 ARG B 11	9840	9470	5540	500	300	-410	H0
ATOM 3352 HD2 ARG B 11	-46.873	-5.799	0.279	1.00	65.44		H0
ANISOU 3352 HD2 ARG B 11	9610	9530	5720	490	460	-120	H0
ATOM 3353 HD3 ARG B 11	-47.829	-5.920	1.537	1.00	63.70		H0
ANISOU 3353 HD3 ARG B 11	9240	9260	5700	370	300	-190	H0
ATOM 3354 HE ARG B 11	-46.451	-7.409	2.377	1.00	64.65		H0
ANISOU 3354 HE ARG B 11	9320	9320	5930	400	490	-250	H0
ATOM 3355 HH11 ARG B 11	-45.720	-7.309	-0.883	1.00	70.27		H0
ANISOU 3355 HH11 ARG B 11	10450	10150	6100	650	660	-210	H0
ATOM 3356 HH12 ARG B 11	-44.516	-8.230	-0.789	1.00	70.79		H0
ANISOU 3356 HH12 ARG B 11	10530	10200	6170	740	850	-230	H0
ATOM 3357 HH21 ARG B 11	-44.661	-8.771	2.478	1.00	66.56		H0
ANISOU 3357 HH21 ARG B 11	9590	9540	6160	530	740	-270	H0
ATOM 3358 HH22 ARG B 11	-43.880	-9.104	1.208	1.00	68.60		H0
ANISOU 3358 HH22 ARG B 11	10010	9840	6210	680	890	-260	H0
ATOM 3359 N GLN B 12	-51.836	-5.232	-2.682	1.00	66.06		N0
ANISOU 3359 N GLN B 12	10050	9830	5220	520	-340	-340	N0
ATOM 3360 CA GLN B 12	-52.332	-4.378	-3.797	1.00	67.89		C0
ANISOU 3360 CA GLN B 12	10400	10150	5250	620	-430	-270	C0
ATOM 3361 C GLN B 12	-53.544	-3.546	-3.355	1.00	67.12		C0
ANISOU 3361 C GLN B 12	10150	10110	5240	610	-620	-230	C0
ATOM 3362 O GLN B 12	-53.729	-2.447	-3.920	1.00	67.13		O0
ANISOU 3362 O GLN B 12	10210	10160	5140	710	-630	-100	O0
ATOM 3363 CB GLN B 12	-52.702	-5.244	-5.002	1.00	70.57		C0
ANISOU 3363 CB GLN B 12	10950	10540	5320	660	-540	-400	C0
ATOM 3364 CG GLN B 12	-51.494	-5.811	-5.731	1.00	72.08		C0
ANISOU 3364 CG GLN B 12	11340	10690	5360	740	-330	-410	C0
ATOM 3365 CD GLN B 12	-50.864	-4.795	-6.651	1.00	73.72		C0
ANISOU 3365 CD GLN B 12	11680	10940	5390	870	-200	-240	C0
ATOM 3366 OE1 GLN B 12	-51.379	-4.503	-7.730	1.00	75.88		O0
ANISOU 3366 OE1 GLN B 12	12110	11290	5430	960	-300	-240	O0
ATOM 3367 NE2 GLN B 12	-49.737	-4.247	-6.226	1.00	72.93		N0
ANISOU 3367 NE2 GLN B 12	11500	10790	5410	890	40	-100	N0
ATOM 3368 H GLN B 12	-52.271	-6.027	-2.623	1.00	66.28		H0
ANISOU 3368 H GLN B 12	10090	9850	5250	470	-430	-460	H0
ATOM 3369 HA GLN B 12	-51.609	-3.763	-4.061	1.00	68.00		H0
ANISOU 3369 HA GLN B 12	10460	10150	5220	690	-290	-160	H0
ATOM 3370 HB2 GLN B 12	-53.268	-5.983	-4.695	1.00	70.48		H0
ANISOU 3370 HB2 GLN B 12	10900	10520	5360	570	-650	-520	H0
ATOM 3371 HB3 GLN B 12	-53.229	-4.702	-5.627	1.00	71.72		H0
ANISOU 3371 HB3 GLN B 12	11150	10760	5340	720	-640	-360	H0
ATOM 3372 HG2 GLN B 12	-50.829	-6.106	-5.076	1.00	70.86		H0

ANISOU 3372	HG2 GLN B 12	11110	10470	5340	710	-200	-400	H0
ATOM 3373	HG3 GLN B 12	-51.769	-6.594	-6.255	1.00	73.25		H0
ANISOU 3373	HG3 GLN B 12	11620	10840	5380	740	-410	-530	H0
ATOM 3374	HE21 GLN B 12	-49.170	-3.895	-6.808	1.00	73.76		H0
ANISOU 3374	HE21 GLN B 12	11700	10910	5410	960	160	-20	H0
ATOM 3375	HE22 GLN B 12	-49.549	-4.230	-5.362	1.00	71.39		H0
ANISOU 3375	HE22 GLN B 12	11160	10560	5400	820	70	-90	H0
ATOM 3376	N THR B 13	-54.349	-4.052	-2.412	1.00	65.11		N0
ANISOU 3376	N THR B 13	9720	9860	5160	490	-740	-330	N0
ATOM 3377	CA THR B 13	-55.640	-3.440	-1.988	1.00	64.59		C0
ANISOU 3377	CA THR B 13	9490	9880	5170	480	-930	-310	C0
ATOM 3378	C THR B 13	-55.565	-2.932	-0.543	1.00	61.30		C0
ANISOU 3378	C THR B 13	8870	9400	5030	430	-860	-250	C0
ATOM 3379	O THR B 13	-56.311	-1.980	-0.235	1.00	61.02		O0
ANISOU 3379	O THR B 13	8730	9410	5050	480	-940	-170	O0
ATOM 3380	CB THR B 13	-56.806	-4.421	-2.167	1.00	66.45		C0
ANISOU 3380	CB THR B 13	9680	10200	5370	390	-1160	-480	C0
ATOM 3381	OG1 THR B 13	-56.387	-5.696	-1.678	1.00	66.41		O0
ANISOU 3381	OG1 THR B 13	9680	10100	5440	260	-1090	-600	O0
ATOM 3382	CG2 THR B 13	-57.261	-4.542	-3.606	1.00	69.28		C0
ANISOU 3382	CG2 THR B 13	10210	10670	5440	460	-1300	-520	C0
ATOM 3383	H THR B 13	-54.177	-4.833	-1.979	1.00	64.60		H0
ANISOU 3383	H THR B 13	9630	9750	5170	420	-720	-410	H0
ATOM 3384	HA THR B 13	-55.806	-2.665	-2.572	1.00	65.53		H0
ANISOU 3384	HA THR B 13	9670	10050	5180	580	-960	-230	H0
ATOM 3385	HB THR B 13	-57.564	-4.104	-1.620	1.00	66.18		H0
ANISOU 3385	HB THR B 13	9490	10220	5440	360	-1250	-470	H0
ATOM 3386	HG21 THR B 13	-57.556	-3.671	-3.929	1.00	69.79		H0
ANISOU 3386	HG21 THR B 13	10280	10800	5450	560	-1350	-430	H0
ATOM 3387	HG22 THR B 13	-58.000	-5.174	-3.662	1.00	70.01		H0
ANISOU 3387	HG22 THR B 13	10260	10820	5520	380	-1450	-640	H0
ATOM 3388	HG23 THR B 13	-56.522	-4.858	-4.156	1.00	69.62		H0
ANISOU 3388	HG23 THR B 13	10420	10660	5370	490	-1200	-540	H0
ATOM 3389	N SER B 14	-54.736	-3.549	0.311	1.00	58.58		N0
ANISOU 3389	N SER B 14	8480	8950	4830	340	-710	-280	N0
ATOM 3390	CA SER B 14	-54.537	-3.146	1.730	1.00	55.45		C0
ANISOU 3390	CA SER B 14	7910	8480	4680	290	-630	-230	C0
ATOM 3391	C SER B 14	-53.864	-1.770	1.789	1.00	55.13		C0
ANISOU 3391	C SER B 14	7890	8400	4660	370	-510	-60	C0
ATOM 3392	O SER B 14	-52.832	-1.570	1.101	1.00	55.27		O0
ANISOU 3392	O SER B 14	8040	8380	4570	420	-370	10	O0
ATOM 3393	CB SER B 14	-53.741	-4.162	2.507	1.00	53.86		C0
ANISOU 3393	CB SER B 14	7680	8190	4600	200	-520	-300	C0
ATOM 3394	OG SER B 14	-53.625	-3.781	3.871	1.00	50.80		O0
ANISOU 3394	OG SER B 14	7130	7750	4420	150	-460	-250	O0
ATOM 3395	H SER B 14	-54.235	-4.274	0.087	1.00	58.73		H0
ANISOU 3395	H SER B 14	8570	8930	4810	320	-650	-340	H0
ATOM 3396	HA SER B 14	-55.435	-3.069	2.151	1.00	55.53		H0
ANISOU 3396	HA SER B 14	7810	8540	4750	260	-750	-250	H0
ATOM 3397	HB2 SER B 14	-54.183	-5.039	2.447	1.00	54.01		H0
ANISOU 3397	HB2 SER B 14	7700	8220	4600	140	-590	-400	H0
ATOM 3398	HB3 SER B 14	-52.843	-4.244	2.113	1.00	53.78		H0
ANISOU 3398	HB3 SER B 14	7760	8150	4530	230	-400	-270	H0
ATOM 3399	N ARG B 15	-54.449	-0.866	2.580	1.00	53.88		N0

ANISOU 3399 N	ARG B 15	7610	8230	4620	380	-560	0	N0
ATOM 3400 CA	ARG B 15	-53.933	0.494	2.877	1.00	52.99		C0
ANISOU 3400 CA	ARG B 15	7530	8050	4560	440	-460	150	C0
ATOM 3401 C	ARG B 15	-53.727	0.587	4.386	1.00	49.69		C0
ANISOU 3401 C	ARG B 15	6960	7550	4370	350	-400	150	C0
ATOM 3402 O	ARG B 15	-54.663	0.881	5.127	1.00	48.99		O0
ANISOU 3402 O	ARG B 15	6760	7480	4370	360	-490	130	O0
ATOM 3403 CB	ARG B 15	-54.919	1.542	2.352	1.00	55.75		C0
ANISOU 3403 CB	ARG B 15	7910	8450	4820	570	-580	230	C0
ATOM 3404 CG	ARG B 15	-55.077	1.553	0.837	1.00	58.83		C0
ANISOU 3404 CG	ARG B 15	8470	8920	4960	660	-640	250	C0
ATOM 3405 CD	ARG B 15	-53.942	2.293	0.148	1.00	60.66		C0
ANISOU 3405 CD	ARG B 15	8880	9070	5090	710	-470	390	C0
ATOM 3406 NE	ARG B 15	-54.072	2.291	-1.306	1.00	63.43		N0
ANISOU 3406 NE	ARG B 15	9410	9500	5180	810	-510	410	N0
ATOM 3407 CZ	ARG B 15	-53.643	1.324	-2.117	1.00	64.69		C0
ANISOU 3407 CZ	ARG B 15	9670	9710	5200	800	-480	330	C0
ATOM 3408 NH1	ARG B 15	-53.823	1.439	-3.424	1.00	66.90		N0
ANISOU 3408 NH1	ARG B 15	10130	10060	5230	910	-530	360	N0
ATOM 3409 NH2	ARG B 15	-53.042	0.248	-1.633	1.00	63.51		N0
ANISOU 3409 NH2	ARG B 15	9460	9530	5150	690	-410	230	N0
ATOM 3410 H	ARG B 15	-55.238	-1.039	3.002	1.00	53.74		H0
ANISOU 3410 H	ARG B 15	7500	8260	4660	360	-650	-50	H0
ATOM 3411 HA	ARG B 15	-53.069	0.614	2.423	1.00	53.33		H0
ANISOU 3411 HA	ARG B 15	7660	8050	4540	450	-350	200	H0
ATOM 3412 HB2	ARG B 15	-55.795	1.373	2.757	1.00	55.53		H0
ANISOU 3412 HB2	ARG B 15	7780	8480	4840	560	-690	180	H0
ATOM 3413 HB3	ARG B 15	-54.618	2.427	2.645	1.00	55.42		H0
ANISOU 3413 HB3	ARG B 15	7900	8340	4820	590	-510	320	H0
ATOM 3414 HG2	ARG B 15	-55.104	0.630	0.505	1.00	59.07		H0
ANISOU 3414 HG2	ARG B 15	8510	9000	4940	620	-670	150	H0
ATOM 3415 HG3	ARG B 15	-55.927	1.983	0.603	1.00	59.74		H0
ANISOU 3415 HG3	ARG B 15	8580	9100	5020	740	-750	270	H0
ATOM 3416 HD2	ARG B 15	-53.930	3.222	0.464	1.00	60.46		H0
ANISOU 3416 HD2	ARG B 15	8870	8990	5120	740	-430	480	H0
ATOM 3417 HD3	ARG B 15	-53.088	1.882	0.400	1.00	59.76		H0
ANISOU 3417 HD3	ARG B 15	8760	8910	5030	630	-350	370	H0
ATOM 3418 HE	ARG B 15	-54.462	2.978	-1.674	1.00	64.36		H0
ANISOU 3418 HE	ARG B 15	9590	9630	5230	900	-560	480	H0
ATOM 3419 HH11	ARG B 15	-54.221	2.152	-3.751	1.00	67.69		H0
ANISOU 3419 HH11	ARG B 15	10280	10170	5260	990	-590	440	H0
ATOM 3420 HH12	ARG B 15	-53.542	0.804	-3.963	1.00	67.39		H0
ANISOU 3420 HH12	ARG B 15	10270	10140	5190	900	-510	310	H0
ATOM 3421 HH21	ARG B 15	-52.919	0.158	-0.768	1.00	62.19		H0
ANISOU 3421 HH21	ARG B 15	9180	9320	5140	620	-380	210	H0
ATOM 3422 HH22	ARG B 15	-52.766	-0.383	-2.184	1.00	64.09		H0
ANISOU 3422 HH22	ARG B 15	9610	9620	5120	690	-390	180	H0
ATOM 3423 N	PRO B 16	-52.509	0.301	4.898	1.00	47.33		N0
ANISOU 3423 N	PRO B 16	6650	7170	4160	280	-250	160	N0
ATOM 3424 CA	PRO B 16	-52.282	0.244	6.344	1.00	44.89		C0
ANISOU 3424 CA	PRO B 16	6210	6800	4050	200	-210	140	C0
ATOM 3425 C	PRO B 16	-52.625	1.530	7.119	1.00	44.05		C0
ANISOU 3425 C	PRO B 16	6070	6640	4030	220	-220	220	C0
ATOM 3426 O	PRO B 16	-52.857	1.434	8.310	1.00	42.33		O0

ANISOU 3426 O PROB B 16	5740	6390	3950	170	-230	180	O0
ATOM 3427 CB PROB B 16	-50.782	-0.071	6.470	1.00	44.56		C0
ANISOU 3427 CB PROB B 16	6180	6710	4040	140	-40	170	C0
ATOM 3428 CG PROB B 16	-50.395	-0.683	5.131	1.00	46.10		C0
ANISOU 3428 CG PROB B 16	6500	6960	4060	180	-10	150	C0
ATOM 3429 CD PROB B 16	-51.305	-0.029	4.116	1.00	47.49		C0
ANISOU 3429 CD PROB B 16	6780	7180	4080	280	-110	190	C0
ATOM 3430 HA PROB B 16	-52.799	-0.512	6.717	1.00	44.56		H0
ANISOU 3430 HA PROB B 16	6100	6790	4050	160	-270	50	H0
ATOM 3431 HB2 PROB B 16	-50.265	0.746	6.639	1.00	44.58		H0
ANISOU 3431 HB2 PROB B 16	6200	6660	4070	130	20	250	H0
ATOM 3432 HB3 PROB B 16	-50.618	-0.704	7.201	1.00	43.72		H0
ANISOU 3432 HB3 PROB B 16	6000	6590	4020	80	-30	110	H0
ATOM 3433 HG2 PROB B 16	-49.457	-0.498	4.924	1.00	46.23		H0
ANISOU 3433 HG2 PROB B 16	6550	6950	4060	180	110	210	H0
ATOM 3434 HG3 PROB B 16	-50.530	-1.652	5.142	1.00	45.90		H0
ANISOU 3434 HG3 PROB B 16	6460	6950	4020	170	-30	60	H0
ATOM 3435 HD2 PROB B 16	-50.898	0.775	3.744	1.00	48.13		H0
ANISOU 3435 HD2 PROB B 16	6930	7240	4120	310	-50	280	H0
ATOM 3436 HD3 PROB B 16	-51.515	-0.645	3.390	1.00	48.35		H0
ANISOU 3436 HD3 PROB B 16	6950	7340	4080	300	-150	130	H0
ATOM 3437 N ASP B 17	-52.672	2.687	6.449	1.00	44.35		N0
ANISOU 3437 N ASP B 17	6220	6650	3980	300	-210	330	N0
ATOM 3438 CA ASP B 17	-52.908	4.007	7.097	1.00	43.93		C0
ANISOU 3438 CA ASP B 17	6190	6500	4000	340	-210	410	C0
ATOM 3439 C ASP B 17	-54.337	4.494	6.827	1.00	44.19		C0
ANISOU 3439 C ASP B 17	6220	6600	3970	480	-350	420	C0
ATOM 3440 O ASP B 17	-54.616	5.664	7.141	1.00	44.08		O0
ANISOU 3440 O ASP B 17	6260	6510	3980	560	-350	500	O0
ATOM 3441 CB ASP B 17	-51.856	5.020	6.639	1.00	45.36		C0
ANISOU 3441 CB ASP B 17	6520	6580	4140	330	-80	540	C0
ATOM 3442 CG ASP B 17	-50.434	4.590	6.958	1.00	45.51		C0
ANISOU 3442 CG ASP B 17	6500	6570	4230	190	50	550	C0
ATOM 3443 OD1 ASP B 17	-50.213	4.037	8.067	1.00	44.07		O0
ANISOU 3443 OD1 ASP B 17	6180	6380	4180	110	60	470	O0
ATOM 3444 OD2 ASP B 17	-49.554	4.797	6.092	1.00	47.69		O0
ANISOU 3444 OD2 ASP B 17	6860	6840	4420	180	160	630	O0
ATOM 3445 H ASP B 17	-52.546	2.742	5.550	1.00	45.36		H0
ANISOU 3445 H ASP B 17	6440	6800	3990	350	-210	360	H0
ATOM 3446 HA ASP B 17	-52.806	3.891	8.070	1.00	43.00		H0
ANISOU 3446 HA ASP B 17	5990	6350	4000	280	-190	380	H0
ATOM 3447 HB2 ASP B 17	-51.933	5.148	5.671	1.00	46.47		H0
ANISOU 3447 HB2 ASP B 17	6750	6760	4150	390	-90	580	H0
ATOM 3448 HB3 ASP B 17	-52.024	5.880	7.076	1.00	45.54		H0
ANISOU 3448 HB3 ASP B 17	6570	6530	4200	350	-80	590	H0
ATOM 3449 N VAL B 18	-55.202	3.629	6.277	1.00	44.54		N0
ANISOU 3449 N VAL B 18	6200	6780	3940	510	-470	340	N0
ATOM 3450 CA VAL B 18	-56.631	3.919	5.945	1.00	45.28		C0
ANISOU 3450 CA VAL B 18	6250	6990	3970	640	-630	330	C0
ATOM 3451 C VAL B 18	-57.526	2.959	6.737	1.00	44.73		C0
ANISOU 3451 C VAL B 18	5970	7020	4010	580	-720	210	C0
ATOM 3452 O VAL B 18	-57.442	1.737	6.496	1.00	44.72		O0
ANISOU 3452 O VAL B 18	5930	7080	3990	470	-740	110	O0
ATOM 3453 CB VAL B 18	-56.900	3.788	4.434	1.00	46.82		C0

ANISOU 3453 CB VAL B 18	6550	7290	3950	720	-710	350	C0
ATOM 3454 CG1 VAL B 18	-58.367	4.024	4.102	1.00	48.38		C0
ANISOU 3454 CG1 VAL B 18	6670	7630	4080	860	-900	340	C0
ATOM 3455 CG2 VAL B 18	-56.003	4.711	3.619	1.00	47.79		C0
ANISOU 3455 CG2 VAL B 18	6890	7310	3960	780	-610	480	C0
ATOM 3456 H VAL B 18	-54.964	2.777	6.064	1.00	44.21		H0
ANISOU 3456 H VAL B 18	6140	6780	3880	450	-470	270	H0
ATOM 3457 HA VAL B 18	-56.835	4.831	6.219	1.00	45.65		H0
ANISOU 3457 HA VAL B 18	6320	6990	4040	720	-620	400	H0
ATOM 3458 HB VAL B 18	-56.682	2.859	4.179	1.00	46.69		H0
ANISOU 3458 HB VAL B 18	6520	7310	3910	640	-720	270	H0
ATOM 3459 HG11 VAL B 18	-58.887	3.239	4.346	1.00	48.20		H0
ANISOU 3459 HG11 VAL B 18	6520	7690	4100	790	-970	250	H0
ATOM 3460 HG12 VAL B 18	-58.462	4.189	3.147	1.00	49.64		H0
ANISOU 3460 HG12 VAL B 18	6920	7840	4100	930	-940	370	H0
ATOM 3461 HG13 VAL B 18	-58.692	4.795	4.597	1.00	48.43		H0
ANISOU 3461 HG13 VAL B 18	6650	7600	4150	930	-890	390	H0
ATOM 3462 HG21 VAL B 18	-56.154	5.634	3.890	1.00	48.03		H0
ANISOU 3462 HG21 VAL B 18	6960	7280	4020	850	-590	560	H0
ATOM 3463 HG22 VAL B 18	-56.211	4.614	2.673	1.00	48.94		H0
ANISOU 3463 HG22 VAL B 18	7110	7520	3960	840	-660	490	H0
ATOM 3464 HG23 VAL B 18	-55.071	4.478	3.770	1.00	47.00		H0
ANISOU 3464 HG23 VAL B 18	6810	7140	3900	690	-490	480	H0
ATOM 3465 N ILE B 19	-58.356	3.488	7.640	1.00	44.24		N0
ANISOU 3465 N ILE B 19	5800	6970	4040	640	-760	220	N0
ATOM 3466 CA ILE B 19	-59.325	2.677	8.435	1.00	43.49		C0
ANISOU 3466 CA ILE B 19	5490	6990	4050	580	-830	120	C0
ATOM 3467 C ILE B 19	-60.351	2.089	7.466	1.00	44.66		C0
ANISOU 3467 C ILE B 19	5560	7320	4090	600	-1000	70	C0
ATOM 3468 O ILE B 19	-60.983	2.826	6.719	1.00	45.08		O0
ANISOU 3468 O ILE B 19	5650	7450	4030	760	-1090	130	O0
ATOM 3469 CB ILE B 19	-59.971	3.505	9.569	1.00	43.09		C0
ANISOU 3469 CB ILE B 19	5350	6920	4110	670	-810	160	C0
ATOM 3470 CG1 ILE B 19	-60.768	2.603	10.515	1.00	42.89		C0
ANISOU 3470 CG1 ILE B 19	5110	6990	4200	580	-850	70	C0
ATOM 3471 CG2 ILE B 19	-60.829	4.642	9.025	1.00	44.98		C0
ANISOU 3471 CG2 ILE B 19	5620	7210	4260	880	-890	250	C0
ATOM 3472 CD1 ILE B 19	-61.258	3.292	11.766	1.00	42.85		C0
ANISOU 3472 CD1 ILE B 19	5020	6950	4310	660	-800	100	C0
ATOM 3473 H ILE B 19	-58.367	4.376	7.837	1.00	44.47		H0
ANISOU 3473 H ILE B 19	5880	6940	4080	720	-730	290	H0
ATOM 3474 HA ILE B 19	-58.833	1.946	8.845	1.00	42.41		H0
ANISOU 3474 HA ILE B 19	5330	6810	3970	460	-780	70	H0
ATOM 3475 HB ILE B 19	-59.238	3.909	10.095	1.00	42.33		H0
ANISOU 3475 HB ILE B 19	5330	6690	4060	650	-720	190	H0
ATOM 3476 HG12 ILE B 19	-61.543	2.248	10.030	1.00	43.93		H0
ANISOU 3476 HG12 ILE B 19	5150	7250	4290	600	-950	40	H0
ATOM 3477 HG13 ILE B 19	-60.204	1.845	10.774	1.00	41.89		H0
ANISOU 3477 HG13 ILE B 19	4980	6820	4120	460	-800	20	H0
ATOM 3478 HG21 ILE B 19	-60.416	5.013	8.227	1.00	45.51		H0
ANISOU 3478 HG21 ILE B 19	5820	7240	4230	920	-890	300	H0
ATOM 3479 HG22 ILE B 19	-60.910	5.339	9.699	1.00	44.82		H0
ANISOU 3479 HG22 ILE B 19	5610	7130	4290	950	-850	290	H0
ATOM 3480 HG23 ILE B 19	-61.714	4.306	8.803	1.00	45.87		H0

ANISOU 3480 HG23 ILE B 19	5610	7470	4350	910	-1000	210	H0
ATOM 3481 HD11 ILE B 19	-60.500	3.653	12.258	1.00	41.87		H0
ANISOU 3481 HD11 ILE B 19	4990	6700	4220	640	-710	120	H0
ATOM 3482 HD12 ILE B 19	-61.730	2.652	12.324	1.00	42.59		H0
ANISOU 3482 HD12 ILE B 19	4850	6990	4340	600	-810	40	H0
ATOM 3483 HD13 ILE B 19	-61.861	4.017	11.525	1.00	43.90		H0
ANISOU 3483 HD13 ILE B 19	5150	7130	4400	800	-840	150	H0
ATOM 3484 N PROB 20	-60.537	0.746	7.435	1.00	44.84		N0
ANISOU 3484 N PROB 20	5500	7410	4130	450	-1050	-50	N0
ATOM 3485 CA PROB 20	-61.407	0.101	6.452	1.00	46.89		C0
ANISOU 3485 CA PROB 20	5700	7840	4270	440	-1220	-120	C0
ATOM 3486 C PROB 20	-62.883	0.046	6.879	1.00	49.09		C0
ANISOU 3486 C PROB 20	5740	8300	4620	460	-1350	-150	C0
ATOM 3487 O PROB 20	-63.387	-1.035	7.127	1.00	49.22		O0
ANISOU 3487 O PROB 20	5630	8390	4690	300	-1400	-250	O0
ATOM 3488 CB PROB 20	-60.790	-1.303	6.399	1.00	45.67		C0
ANISOU 3488 CB PROB 20	5600	7630	4130	250	-1180	-230	C0
ATOM 3489 CG PROB 20	-60.419	-1.571	7.837	1.00	43.67		C0
ANISOU 3489 CG PROB 20	5260	7270	4060	160	-1050	-240	C0
ATOM 3490 CD PROB 20	-59.907	-0.234	8.336	1.00	42.90		C0
ANISOU 3490 CD PROB 20	5220	7080	4010	290	-950	-120	C0
ATOM 3491 HA PROB 20	-61.312	0.544	5.571	1.00	47.85		H0
ANISOU 3491 HA PROB 20	5930	7980	4270	530	-1250	-70	H0
ATOM 3492 HB2 PROB 20	-61.434	-1.966	6.071	1.00	46.75		H0
ANISOU 3492 HB2 PROB 20	5670	7860	4230	190	-1290	-300	H0
ATOM 3493 HB3 PROB 20	-59.995	-1.318	5.824	1.00	45.65		H0
ANISOU 3493 HB3 PROB 20	5740	7560	4050	260	-1120	-220	H0
ATOM 3494 HG2 PROB 20	-61.199	-1.861	8.351	1.00	43.98		H0
ANISOU 3494 HG2 PROB 20	5150	7380	4170	120	-1100	-280	H0
ATOM 3495 HG3 PROB 20	-59.723	-2.257	7.897	1.00	42.99		H0
ANISOU 3495 HG3 PROB 20	5240	7110	3990	70	-990	-290	H0
ATOM 3496 HD2 PROB 20	-60.173	-0.079	9.261	1.00	42.37		H0
ANISOU 3496 HD2 PROB 20	5060	7000	4050	280	-920	-120	H0
ATOM 3497 HD3 PROB 20	-58.936	-0.189	8.273	1.00	42.19		H0
ANISOU 3497 HD3 PROB 20	5240	6880	3910	270	-850	-100	H0
ATOM 3498 N THR B 21	-63.541	1.206	6.954	1.00	51.97		N0
ANISOU 3498 N THR B 21	6050	8730	4970	650	-1380	-50	N0
ATOM 3499 CA THR B 21	-64.992	1.331	7.257	1.00	54.96		C0
ANISOU 3499 CA THR B 21	6180	9310	5390	710	-1510	-60	C0
ATOM 3500 C THR B 21	-65.807	0.913	6.028	1.00	58.97		C0
ANISOU 3500 C THR B 21	6630	10020	5760	720	-1720	-100	C0
ATOM 3501 O THR B 21	-65.377	1.235	4.899	1.00	58.94		O0
ANISOU 3501 O THR B 21	6820	10000	5580	800	-1760	-70	O0
ATOM 3502 CB THR B 21	-65.358	2.750	7.703	1.00	55.18		C0
ANISOU 3502 CB THR B 21	6200	9330	5440	950	-1470	60	C0
ATOM 3503 OG1 THR B 21	-64.983	3.658	6.669	1.00	56.31		O0
ANISOU 3503 OG1 THR B 21	6550	9420	5430	1120	-1490	160	O0
ATOM 3504 CG2 THR B 21	-64.688	3.144	9.001	1.00	53.57		C0
ANISOU 3504 CG2 THR B 21	6040	8930	5380	940	-1280	90	C0
ATOM 3505 H THR B 21	-63.143	2.014	6.817	1.00	51.70		H0
ANISOU 3505 H THR B 21	6130	8610	4900	750	-1330	30	H0
ATOM 3506 HA THR B 21	-65.199	0.711	7.994	1.00	54.41		H0
ANISOU 3506 HA THR B 21	5980	9250	5430	590	-1480	-110	H0
ATOM 3507 HB THR B 21	-66.334	2.794	7.823	1.00	56.60		H0

ANISOU 3507 HB THR B 21	6200	9660	5640	1010	-1550	60	H0
ATOM 3508 HG21 THR B 21	-64.998	2.561	9.717	1.00	53.00		H0
ANISOU 3508 HG21 THR B 21	5830	8900	5410	840	-1260	40	H0
ATOM 3509 HG22 THR B 21	-64.913	4.067	9.216	1.00	53.92		H0
ANISOU 3509 HG22 THR B 21	6110	8950	5420	1090	-1260	160	H0
ATOM 3510 HG23 THR B 21	-63.723	3.059	8.909	1.00	52.29		H0
ANISOU 3510 HG23 THR B 21	6030	8630	5210	870	-1200	90	H0
ATOM 3511 N GLN B 22	-66.917	0.202	6.258	1.00	62.93		N0
ANISOU 3511 N GLN B 22	6870	10720	6320	620	-1840	-180	N0
ATOM 3512 CA GLN B 22	-67.966	-0.117	5.252	1.00	68.12		C0
ANISOU 3512 CA GLN B 22	7400	11630	6850	620	-2070	-220	C0
ATOM 3513 C GLN B 22	-69.152	0.824	5.487	1.00	71.48		C0
ANISOU 3513 C GLN B 22	7600	12260	7300	840	-2160	-130	C0
ATOM 3514 O GLN B 22	-69.589	0.929	6.647	1.00	70.48		O0
ANISOU 3514 O GLN B 22	7280	12160	7340	840	-2070	-120	O0
ATOM 3515 CB GLN B 22	-68.386	-1.585	5.362	1.00	69.84		C0
ANISOU 3515 CB GLN B 22	7470	11930	7130	330	-2150	-370	C0
ATOM 3516 CG GLN B 22	-67.335	-2.565	4.860	1.00	69.65		C0
ANISOU 3516 CG GLN B 22	7700	11730	7040	150	-2110	-460	C0
ATOM 3517 CD GLN B 22	-66.998	-2.355	3.402	1.00	71.69		C0
ANISOU 3517 CD GLN B 22	8170	12000	7070	250	-2220	-460	C0
ATOM 3518 OE1 GLN B 22	-67.845	-2.493	2.521	1.00	74.70		O0
ANISOU 3518 OE1 GLN B 22	8480	12580	7320	260	-2430	-500	O0
ATOM 3519 NE2 GLN B 22	-65.745	-2.021	3.136	1.00	70.72		N0
ANISOU 3519 NE2 GLN B 22	8320	11670	6880	320	-2070	-410	N0
ATOM 3520 H GLN B 22	-67.103	-0.142	7.081	1.00	62.19		H0
ANISOU 3520 H GLN B 22	6660	10620	6350	530	-1790	-200	H0
ATOM 3521 HA GLN B 22	-67.601	0.049	4.353	1.00	68.63		H0
ANISOU 3521 HA GLN B 22	7630	11670	6780	680	-2120	-210	H0
ATOM 3522 HB2 GLN B 22	-68.585	-1.782	6.301	1.00	69.04		H0
ANISOU 3522 HB2 GLN B 22	7240	11810	7170	260	-2080	-370	H0
ATOM 3523 HB3 GLN B 22	-69.211	-1.711	4.849	1.00	71.80		H0
ANISOU 3523 HB3 GLN B 22	7590	12360	7320	330	-2320	-390	H0
ATOM 3524 HG2 GLN B 22	-66.520	-2.464	5.396	1.00	67.79		H0
ANISOU 3524 HG2 GLN B 22	7570	11320	6870	150	-1950	-440	H0
ATOM 3525 HG3 GLN B 22	-67.663	-3.480	4.983	1.00	70.15		H0
ANISOU 3525 HG3 GLN B 22	7680	11830	7150	-30	-2160	-550	H0
ATOM 3526 HE21 GLN B 22	-65.348	-2.336	2.411	1.00	70.92		H0
ANISOU 3526 HE21 GLN B 22	8490	11670	6790	300	-2090	-450	H0
ATOM 3527 HE22 GLN B 22	-65.304	-1.481	3.681	1.00	69.23		H0
ANISOU 3527 HE22 GLN B 22	8160	11390	6760	390	-1940	-340	H0
ATOM 3528 N ARG B 23	-69.654	1.461	4.422	1.00	76.58		N0
ANISOU 3528 N ARG B 23	8260	13050	7780	1030	-2320	-80	N0
ATOM 3529 CA ARG B 23	-70.616	2.598	4.477	1.00	80.31		C0
ANISOU 3529 CA ARG B 23	8590	13690	8240	1320	-2390	40	C0
ATOM 3530 C ARG B 23	-69.963	3.724	5.292	1.00	77.68		C0
ANISOU 3530 C ARG B 23	8410	13130	7970	1500	-2180	150	C0
ATOM 3531 O ARG B 23	-68.714	3.844	5.238	1.00	75.99		O0
ANISOU 3531 O ARG B 23	8480	12660	7740	1450	-2030	170	O0
ATOM 3532 CB ARG B 23	-71.964	2.183	5.086	1.00	84.78		C0
ANISOU 3532 CB ARG B 23	8750	14540	8930	1270	-2490	0	C0
ATOM 3533 CG ARG B 23	-72.360	0.725	4.890	1.00	87.97		C0
ANISOU 3533 CG ARG B 23	8990	15070	9360	940	-2610	-150	C0
ATOM 3534 CD ARG B 23	-72.236	0.178	3.478	1.00	91.82		C0

ANISOU 3534 CD ARG B 23	9620	15620	9650	860	-2810	-220	C0
ATOM 3535 NE ARG B 23	-71.532	-1.100	3.498	1.00	92.78		N0
ANISOU 3535 NE ARG B 23	9860	15590	9800	540	-2760	-360	N0
ATOM 3536 CZ ARG B 23	-72.030	-2.251	3.957	1.00	94.66		C0
ANISOU 3536 CZ ARG B 23	9910	15900	10160	260	-2800	-480	C0
ATOM 3537 NH1 ARG B 23	-73.265	-2.313	4.434	1.00	97.22		N0
ANISOU 3537 NH1 ARG B 23	9870	16480	10590	230	-2890	-470	N0
ATOM 3538 NH2 ARG B 23	-71.284	-3.343	3.936	1.00	93.61		N0
ANISOU 3538 NH2 ARG B 23	9950	15580	10040	0	-2740	-590	N0
ATOM 3539 H ARG B 23	-69.430	1.225	3.571	1.00	76.88		H0
ANISOU 3539 H ARG B 23	8420	13100	7690	1000	-2400	-100	H0
ATOM 3540 HA ARG B 23	-70.767	2.921	3.558	1.00	81.76		H0
ANISOU 3540 HA ARG B 23	8840	13950	8270	1430	-2510	70	H0
ATOM 3541 HB2 ARG B 23	-71.937	2.363	6.048	1.00	83.52		H0
ANISOU 3541 HB2 ARG B 23	8530	14310	8900	1280	-2350	20	H0
ATOM 3542 HB3 ARG B 23	-72.663	2.749	4.698	1.00	86.60		H0
ANISOU 3542 HB3 ARG B 23	8880	14930	9090	1450	-2600	60	H0
ATOM 3543 HG2 ARG B 23	-71.813	0.170	5.485	1.00	86.10		H0
ANISOU 3543 HG2 ARG B 23	8810	14690	9220	770	-2490	-200	H0
ATOM 3544 HG3 ARG B 23	-73.293	0.619	5.176	1.00	89.48		H0
ANISOU 3544 HG3 ARG B 23	8910	15470	9620	940	-2690	-150	H0
ATOM 3545 HD2 ARG B 23	-73.130	0.057	3.092	1.00	94.07		H0
ANISOU 3545 HD2 ARG B 23	9710	16140	9890	860	-2980	-240	H0
ATOM 3546 HD3 ARG B 23	-71.745	0.815	2.916	1.00	91.55		H0
ANISOU 3546 HD3 ARG B 23	9790	15500	9500	1020	-2790	-160	H0
ATOM 3547 HE ARG B 23	-70.713	-1.111	3.199	1.00	91.43		H0
ANISOU 3547 HE ARG B 23	9920	15250	9570	540	-2690	-360	H0
ATOM 3548 HH11 ARG B 23	-73.769	-1.596	4.457	1.00	97.81		H0
ANISOU 3548 HH11 ARG B 23	9820	16690	10660	410	-2930	-390	H0
ATOM 3549 HH12 ARG B 23	-73.579	-3.079	4.730	1.00	97.29		H0
ANISOU 3549 HH12 ARG B 23	9750	16540	10680	30	-2910	-540	H0
ATOM 3550 HH21 ARG B 23	-70.464	-3.310	3.616	1.00	92.25		H0
ANISOU 3550 HH21 ARG B 23	10000	15250	9790	30	-2670	-590	H0
ATOM 3551 HH22 ARG B 23	-71.613	-4.106	4.231	1.00	93.87		H0
ANISOU 3551 HH22 ARG B 23	9870	15650	10140	-190	-2770	-660	H0
ATOM 3552 N ASP B 24	-70.765	4.506	6.022	1.00	76.83		N0
ANISOU 3552 N ASP B 24	8130	13120	7940	1700	-2150	230	N0
ATOM 3553 CA ASP B 24	-70.288	5.404	7.110	1.00	74.56		C0
ANISOU 3553 CA ASP B 24	7960	12610	7760	1820	-1940	300	C0
ATOM 3554 C ASP B 24	-70.447	4.684	8.458	1.00	71.12		C0
ANISOU 3554 C ASP B 24	7320	12180	7530	1640	-1820	230	C0
ATOM 3555 O ASP B 24	-70.763	5.366	9.456	1.00	71.12		O0
ANISOU 3555 O ASP B 24	7260	12150	7620	1790	-1710	280	O0
ATOM 3556 CB ASP B 24	-71.041	6.738	7.094	1.00	77.40		C0
ANISOU 3556 CB ASP B 24	8290	13050	8070	2190	-1970	430	C0
ATOM 3557 CG ASP B 24	-70.756	7.607	5.882	1.00	79.17		C0
ANISOU 3557 CG ASP B 24	8780	13210	8090	2390	-2040	530	C0
ATOM 3558 OD1 ASP B 24	-69.563	7.870	5.615	1.00	78.39		O0
ANISOU 3558 OD1 ASP B 24	8990	12850	7940	2340	-1930	560	O0
ATOM 3559 OD2 ASP B 24	-71.729	8.019	5.220	1.00	81.88		O0
ANISOU 3559 OD2 ASP B 24	9000	13790	8320	2620	-2210	590	O0
ATOM 3560 H ASP B 24	-71.662	4.562	5.877	1.00	78.95		H0
ANISOU 3560 H ASP B 24	8210	13590	8200	1780	-2260	240	H0
ATOM 3561 HA ASP B 24	-69.331	5.588	6.964	1.00	73.04		H0

ANISOU 3561 HA ASP B 24	8000	12220	7540	1790	-1850	320	H0
ATOM 3562 HB2 ASP B 24	-72.003	6.557	7.122	1.00	78.97		H0
ANISOU 3562 HB2 ASP B 24	8250	13480	8280	2230	-2070	420	H0
ATOM 3563 HB3 ASP B 24	-70.803	7.250	7.894	1.00	76.40		H0
ANISOU 3563 HB3 ASP B 24	8230	12780	8020	2250	-1830	470	H0
ATOM 3564 N ARG B 25	-70.242	3.362	8.491	1.00	67.44		N0
ANISOU 3564 N ARG B 25	6780	11730	7120	1330	-1840	110	N0
ATOM 3565 CA ARG B 25	-70.352	2.537	9.722	1.00	65.22		C0
ANISOU 3565 CA ARG B 25	6330	11440	7010	1130	-1730	40	C0
ATOM 3566 C ARG B 25	-68.965	2.390	10.340	1.00	60.19		C0
ANISOU 3566 C ARG B 25	5940	10490	6430	1010	-1550	20	C0
ATOM 3567 O ARG B 25	-67.956	2.411	9.639	1.00	57.63		O0
ANISOU 3567 O ARG B 25	5870	10010	6020	980	-1540	20	O0
ATOM 3568 CB ARG B 25	-70.994	1.176	9.431	1.00	67.17		C0
ANISOU 3568 CB ARG B 25	6360	11880	7290	870	-1870	-70	C0
ATOM 3569 CG ARG B 25	-72.450	1.265	8.988	1.00	71.68		C0
ANISOU 3569 CG ARG B 25	6610	12790	7830	960	-2050	-60	C0
ATOM 3570 CD ARG B 25	-73.369	0.249	9.645	1.00	73.59		C0
ANISOU 3570 CD ARG B 25	6520	13230	8210	730	-2080	-130	C0
ATOM 3571 NE ARG B 25	-73.124	0.092	11.078	1.00	72.74		N0
ANISOU 3571 NE ARG B 25	6380	12990	8270	660	-1860	-120	N0
ATOM 3572 CZ ARG B 25	-73.500	0.948	12.031	1.00	73.28		C0
ANISOU 3572 CZ ARG B 25	6350	13080	8410	880	-1730	-40	C0
ATOM 3573 NH1 ARG B 25	-74.149	2.062	11.732	1.00	75.14		N0
ANISOU 3573 NH1 ARG B 25	6510	13460	8580	1190	-1790	50	N0
ATOM 3574 NH2 ARG B 25	-73.213	0.685	13.295	1.00	72.09		N0
ANISOU 3574 NH2 ARG B 25	6200	12800	8380	790	-1540	-50	N0
ATOM 3575 H ARG B 25	-70.007	2.882	7.756	1.00	68.01		H0
ANISOU 3575 H ARG B 25	6920	11810	7110	1240	-1920	70	H0
ATOM 3576 HA ARG B 25	-70.927	3.019	10.359	1.00	65.77		H0
ANISOU 3576 HA ARG B 25	6270	11580	7140	1260	-1690	90	H0
ATOM 3577 HB2 ARG B 25	-70.477	0.729	8.732	1.00	66.92		H0
ANISOU 3577 HB2 ARG B 25	6470	11780	7180	770	-1920	-120	H0
ATOM 3578 HB3 ARG B 25	-70.939	0.627	10.240	1.00	66.34		H0
ANISOU 3578 HB3 ARG B 25	6180	11730	7300	730	-1770	-110	H0
ATOM 3579 HG2 ARG B 25	-72.788	2.165	9.184	1.00	72.22		H0
ANISOU 3579 HG2 ARG B 25	6640	12900	7890	1190	-2030	30	H0
ATOM 3580 HG3 ARG B 25	-72.492	1.140	8.016	1.00	72.59		H0
ANISOU 3580 HG3 ARG B 25	6780	12970	7830	960	-2190	-80	H0
ATOM 3581 HD2 ARG B 25	-74.300	0.523	9.507	1.00	75.71		H0
ANISOU 3581 HD2 ARG B 25	6570	13730	8480	840	-2180	-100	H0
ATOM 3582 HD3 ARG B 25	-73.247	-0.620	9.206	1.00	73.72		H0
ANISOU 3582 HD3 ARG B 25	6550	13250	8210	530	-2150	-210	H0
ATOM 3583 HE ARG B 25	-72.697	-0.625	11.333	1.00	71.54		H0
ANISOU 3583 HE ARG B 25	6290	12730	8160	480	-1810	-180	H0
ATOM 3584 HH11 ARG B 25	-74.347	2.250	10.899	1.00	76.23		H0
ANISOU 3584 HH11 ARG B 25	6650	13690	8620	1260	-1920	70	H0
ATOM 3585 HH12 ARG B 25	-74.389	2.612	12.373	1.00	75.21		H0
ANISOU 3585 HH12 ARG B 25	6470	13470	8630	1330	-1700	110	H0
ATOM 3586 HH21 ARG B 25	-72.779	-0.053	13.503	1.00	70.80		H0
ANISOU 3586 HH21 ARG B 25	6100	12540	8260	590	-1500	-100	H0
ATOM 3587 HH22 ARG B 25	-73.458	1.247	13.928	1.00	72.05		H0
ANISOU 3587 HH22 ARG B 25	6150	12810	8420	930	-1460	0	H0
ATOM 3588 N PRO B 26	-68.872	2.254	11.680	1.00	57.19		N0

ANISOU 3588 N PROB B 26	5500	10030	6200	950	-1400	10	NO
ATOM 3589 CA PROB B 26	-67.580	2.063	12.337	1.00	53.84		C0
ANISOU 3589 CA PROB B 26	5290	9340	5830	830	-1230	-10	C0
ATOM 3590 C PROB B 26	-67.017	0.666	12.043	1.00	51.65		C0
ANISOU 3590 C PROB B 26	5050	9020	5560	550	-1250	-110	C0
ATOM 3591 O PROB B 26	-67.787	-0.220	11.712	1.00	53.09		O0
ANISOU 3591 O PROB B 26	5050	9370	5750	420	-1360	-180	O0
ATOM 3592 CB PROB B 26	-67.897	2.238	13.830	1.00	53.59		C0
ANISOU 3592 CB PROB B 26	5150	9290	5930	860	-1100	0	C0
ATOM 3593 CG PROB B 26	-69.369	1.881	13.952	1.00	55.93		C0
ANISOU 3593 CG PROB B 26	5110	9870	6270	870	-1180	-10	C0
ATOM 3594 CD PROB B 26	-69.996	2.264	12.628	1.00	58.14		C0
ANISOU 3594 CD PROB B 26	5340	10330	6420	1000	-1370	20	C0
ATOM 3595 HA PROB B 26	-66.945	2.764	12.043	1.00	53.29		H0
ANISOU 3595 HA PROB B 26	5410	9140	5700	930	-1200	40	H0
ATOM 3596 HB2 PROB B 26	-67.347	1.639	14.379	1.00	52.18		H0
ANISOU 3596 HB2 PROB B 26	5010	9010	5810	710	-1020	-40	H0
ATOM 3597 HB3 PROB B 26	-67.739	3.161	14.116	1.00	53.42		H0
ANISOU 3597 HB3 PROB B 26	5220	9190	5890	1020	-1040	60	H0
ATOM 3598 HG2 PROB B 26	-69.479	0.923	14.120	1.00	55.76		H0
ANISOU 3598 HG2 PROB B 26	4990	9890	6300	670	-1190	-70	H0
ATOM 3599 HG3 PROB B 26	-69.785	2.377	14.687	1.00	56.28		H0
ANISOU 3599 HG3 PROB B 26	5080	9940	6360	980	-1110	30	H0
ATOM 3600 HD2 PROB B 26	-70.679	1.619	12.366	1.00	59.44		H0
ANISOU 3600 HD2 PROB B 26	5310	10670	6600	900	-1460	-20	H0
ATOM 3601 HD3 PROB B 26	-70.402	3.150	12.677	1.00	59.13		H0
ANISOU 3601 HD3 PROB B 26	5440	10500	6520	1210	-1370	90	H0
ATOM 3602 N VAL B 27	-65.698	0.505	12.160	1.00	48.16		NO
ANISOU 3602 N VAL B 27	4830	8350	5120	470	-1150	-120	NO
ATOM 3603 CA VAL B 27	-65.038	-0.832	12.188	1.00	46.57		C0
ANISOU 3603 CA VAL B 27	4680	8070	4940	230	-1120	-220	C0
ATOM 3604 C VAL B 27	-65.277	-1.419	13.579	1.00	44.82		C0
ANISOU 3604 C VAL B 27	4330	7830	4870	120	-1010	-250	C0
ATOM 3605 O VAL B 27	-64.890	-0.771	14.564	1.00	42.43		O0
ANISOU 3605 O VAL B 27	4070	7420	4630	200	-890	-200	O0
ATOM 3606 CB VAL B 27	-63.535	-0.761	11.848	1.00	45.21		C0
ANISOU 3606 CB VAL B 27	4770	7690	4720	210	-1030	-210	C0
ATOM 3607 CG1 VAL B 27	-62.900	-2.142	11.859	1.00	44.40		C0
ANISOU 3607 CG1 VAL B 27	4730	7510	4640	0	-1000	-300	C0
ATOM 3608 CG2 VAL B 27	-63.292	-0.077	10.513	1.00	46.33		C0
ANISOU 3608 CG2 VAL B 27	5060	7840	4710	340	-1110	-160	C0
ATOM 3609 H VAL B 27	-65.121	1.204	12.242	1.00	47.69		H0
ANISOU 3609 H VAL B 27	4900	8180	5040	560	-1080	-70	H0
ATOM 3610 HA VAL B 27	-65.475	-1.403	11.531	1.00	47.59		H0
ANISOU 3610 HA VAL B 27	4750	8300	5030	160	-1220	-260	H0
ATOM 3611 HB VAL B 27	-63.097	-0.220	12.550	1.00	44.23		H0
ANISOU 3611 HB VAL B 27	4700	7460	4650	260	-930	-160	H0
ATOM 3612 HG11 VAL B 27	-62.808	-2.452	12.777	1.00	43.58		H0
ANISOU 3612 HG11 VAL B 27	4580	7350	4630	-60	-920	-310	H0
ATOM 3613 HG12 VAL B 27	-62.021	-2.100	11.444	1.00	43.73		H0
ANISOU 3613 HG12 VAL B 27	4790	7320	4500	10	-960	-290	H0
ATOM 3614 HG13 VAL B 27	-63.462	-2.762	11.363	1.00	45.46		H0
ANISOU 3614 HG13 VAL B 27	4800	7740	4740	-70	-1090	-350	H0
ATOM 3615 HG21 VAL B 27	-63.832	-0.504	9.826	1.00	47.45		H0

ANISOU 3615 HG21 VAL B 27	5140	8100	4790	310	-1220	-200	H0
ATOM 3616 HG22 VAL B 27	-62.351	-0.149	10.277	1.00	45.37		H0
ANISOU 3616 HG22 VAL B 27	5080	7600	4550	300	-1040	-150	H0
ATOM 3617 HG23 VAL B 27	-63.537	0.862	10.579	1.00	46.67		H0
ANISOU 3617 HG23 VAL B 27	5100	7890	4740	480	-1100	-90	H0
ATOM 3618 N ALA B 28	-65.933	-2.578	13.637	1.00	45.85		N0
ANISOU 3618 N ALA B 28	4310	8060	5040	-70	-1070	-320	N0
ATOM 3619 CA ALA B 28	-66.270	-3.314	14.877	1.00	45.75		C0
ANISOU 3619 CA ALA B 28	4170	8050	5160	-210	-970	-350	C0
ATOM 3620 C ALA B 28	-65.040	-4.109	15.319	1.00	44.01		C0
ANISOU 3620 C ALA B 28	4140	7610	4970	-340	-860	-390	C0
ATOM 3621 O ALA B 28	-64.761	-5.160	14.715	1.00	45.12		O0
ANISOU 3621 O ALA B 28	4360	7710	5080	-500	-910	-460	O0
ATOM 3622 CB ALA B 28	-67.465	-4.210	14.643	1.00	47.40		C0
ANISOU 3622 CB ALA B 28	4160	8450	5400	-370	-1080	-410	C0
ATOM 3623 H ALA B 28	-66.225	-3.014	12.892	1.00	46.84		H0
ANISOU 3623 H ALA B 28	4410	8260	5120	-130	-1170	-360	H0
ATOM 3624 HA ALA B 28	-66.492	-2.662	15.578	1.00	45.52		H0
ANISOU 3624 HA ALA B 28	4090	8030	5180	-100	-910	-300	H0
ATOM 3625 HB1 ALA B 28	-67.663	-4.706	15.456	1.00	47.40		H0
ANISOU 3625 HB1 ALA B 28	4080	8440	5490	-470	-1010	-420	H0
ATOM 3626 HB2 ALA B 28	-68.234	-3.669	14.400	1.00	48.84		H0
ANISOU 3626 HB2 ALA B 28	4200	8790	5570	-270	-1150	-380	H0
ATOM 3627 HB3 ALA B 28	-67.269	-4.834	13.925	1.00	47.83		H0
ANISOU 3627 HB3 ALA B 28	4280	8490	5410	-470	-1150	-470	H0
ATOM 3628 N VAL B 29	-64.317	-3.601	16.315	1.00	42.44		N0
ANISOU 3628 N VAL B 29	4030	7270	4820	-270	-730	-340	N0
ATOM 3629 CA VAL B 29	-63.100	-4.252	16.871	1.00	41.40		C0
ANISOU 3629 CA VAL B 29	4070	6950	4720	-360	-620	-370	C0
ATOM 3630 C VAL B 29	-63.500	-4.977	18.158	1.00	42.14		C0
ANISOU 3630 C VAL B 29	4060	7030	4920	-470	-530	-380	C0
ATOM 3631 O VAL B 29	-63.983	-4.313	19.090	1.00	41.98		O0
ANISOU 3631 O VAL B 29	3950	7060	4940	-380	-460	-330	O0
ATOM 3632 CB VAL B 29	-61.976	-3.227	17.107	1.00	39.90		C0
ANISOU 3632 CB VAL B 29	4040	6620	4510	-220	-540	-310	C0
ATOM 3633 CG1 VAL B 29	-60.705	-3.893	17.607	1.00	38.45		C0
ANISOU 3633 CG1 VAL B 29	4000	6270	4350	-310	-450	-330	C0
ATOM 3634 CG2 VAL B 29	-61.701	-2.408	15.854	1.00	40.44		C0
ANISOU 3634 CG2 VAL B 29	4200	6700	4470	-110	-620	-270	C0
ATOM 3635 H VAL B 29	-64.525	-2.813	16.723	1.00	42.59		H0
ANISOU 3635 H VAL B 29	4020	7310	4860	-150	-700	-290	H0
ATOM 3636 HA VAL B 29	-62.784	-4.911	16.229	1.00	41.49		H0
ANISOU 3636 HA VAL B 29	4150	6930	4690	-440	-660	-410	H0
ATOM 3637 HB VAL B 29	-62.286	-2.606	17.811	1.00	39.93		H0
ANISOU 3637 HB VAL B 29	3990	6630	4550	-150	-500	-270	H0
ATOM 3638 HG11 VAL B 29	-60.833	-4.194	18.523	1.00	38.17		H0
ANISOU 3638 HG11 VAL B 29	3920	6210	4370	-350	-390	-330	H0
ATOM 3639 HG12 VAL B 29	-59.970	-3.256	17.576	1.00	37.73		H0
ANISOU 3639 HG12 VAL B 29	4000	6100	4230	-240	-420	-290	H0
ATOM 3640 HG13 VAL B 29	-60.494	-4.657	17.042	1.00	38.59		H0
ANISOU 3640 HG13 VAL B 29	4060	6270	4340	-390	-480	-370	H0
ATOM 3641 HG21 VAL B 29	-61.559	-3.005	15.100	1.00	40.70		H0
ANISOU 3641 HG21 VAL B 29	4270	6740	4450	-180	-670	-310	H0
ATOM 3642 HG22 VAL B 29	-60.907	-1.863	15.989	1.00	39.54		H0

ANISOU 3642 HG22 VAL B 29	4190	6480	4350	-60	-560	-240	H0
ATOM 3643 HG23 VAL B 29	-62.462	-1.829	15.670	1.00	41.34		H0
ANISOU 3643 HG23 VAL B 29	4230	6910	4570	-20	-670	-250	H0
ATOM 3644 N SER B 30	-63.340	-6.298	18.183	1.00	42.97		N0
ANISOU 3644 N SER B 30	4200	7080	5040	-650	-520	-440	N0
ATOM 3645 CA SER B 30	-63.431	-7.124	19.411	1.00	43.36		C0
ANISOU 3645 CA SER B 30	4230	7070	5180	-770	-410	-450	C0
ATOM 3646 C SER B 30	-62.076	-7.103	20.122	1.00	41.58		C0
ANISOU 3646 C SER B 30	4190	6660	4950	-720	-300	-420	C0
ATOM 3647 O SER B 30	-61.077	-7.478	19.483	1.00	39.69		O0
ANISOU 3647 O SER B 30	4100	6310	4660	-740	-320	-450	O0
ATOM 3648 CB SER B 30	-63.857	-8.512	19.088	1.00	44.31		C0
ANISOU 3648 CB SER B 30	4330	7190	5310	-990	-450	-520	C0
ATOM 3649 OG SER B 30	-65.069	-8.484	18.364	1.00	47.76		O0
ANISOU 3649 OG SER B 30	4590	7820	5740	-1040	-570	-540	O0
ATOM 3650 H SER B 30	-63.161	-6.796	17.441	1.00	43.22		H0
ANISOU 3650 H SER B 30	4290	7100	5030	-720	-570	-480	H0
ATOM 3651 HA SER B 30	-64.107	-6.716	20.010	1.00	43.75		H0
ANISOU 3651 HA SER B 30	4150	7200	5270	-730	-380	-410	H0
ATOM 3652 HB2 SER B 30	-63.162	-8.954	18.557	1.00	44.31		H0
ANISOU 3652 HB2 SER B 30	4470	7100	5270	-1020	-470	-550	H0
ATOM 3653 HB3 SER B 30	-63.981	-9.017	19.917	1.00	44.82		H0
ANISOU 3653 HB3 SER B 30	4380	7220	5430	-1060	-370	-510	H0
ATOM 3654 N VAL B 31	-62.056	-6.644	21.377	1.00	41.93		N0
ANISOU 3654 N VAL B 31	4210	6680	5040	-660	-200	-380	N0
ATOM 3655 CA VAL B 31	-60.863	-6.676	22.274	1.00	41.20		C0
ANISOU 3655 CA VAL B 31	4270	6430	4960	-620	-110	-360	C0
ATOM 3656 C VAL B 31	-61.220	-7.497	23.516	1.00	42.37		C0
ANISOU 3656 C VAL B 31	4380	6550	5160	-710	-10	-350	C0
ATOM 3657 O VAL B 31	-62.264	-7.219	24.137	1.00	43.20		O0
ANISOU 3657 O VAL B 31	4350	6770	5300	-700	20	-320	O0
ATOM 3658 CB VAL B 31	-60.381	-5.264	22.662	1.00	40.85		C0
ANISOU 3658 CB VAL B 31	4260	6360	4890	-460	-90	-310	C0
ATOM 3659 CG1 VAL B 31	-58.972	-5.303	23.235	1.00	40.27		C0
ANISOU 3659 CG1 VAL B 31	4350	6140	4810	-440	-30	-300	C0
ATOM 3660 CG2 VAL B 31	-60.448	-4.292	21.498	1.00	40.98		C0
ANISOU 3660 CG2 VAL B 31	4280	6430	4860	-360	-180	-290	C0
ATOM 3661 H VAL B 31	-62.788	-6.273	21.772	1.00	42.49		H0
ANISOU 3661 H VAL B 31	4170	6840	5140	-620	-190	-350	H0
ATOM 3662 HA VAL B 31	-60.142	-7.125	21.805	1.00	40.86		H0
ANISOU 3662 HA VAL B 31	4320	6320	4890	-660	-120	-380	H0
ATOM 3663 HB VAL B 31	-60.986	-4.929	23.370	1.00	41.26		H0
ANISOU 3663 HB VAL B 31	4240	6460	4970	-420	-50	-290	H0
ATOM 3664 HG11 VAL B 31	-58.967	-5.826	24.055	1.00	39.97		H0
ANISOU 3664 HG11 VAL B 31	4310	6070	4800	-480	20	-300	H0
ATOM 3665 HG12 VAL B 31	-58.674	-4.397	23.428	1.00	39.68		H0
ANISOU 3665 HG12 VAL B 31	4300	6050	4720	-350	-30	-270	H0
ATOM 3666 HG13 VAL B 31	-58.369	-5.710	22.589	1.00	39.75		H0
ANISOU 3666 HG13 VAL B 31	4340	6040	4720	-480	-60	-310	H0
ATOM 3667 HG21 VAL B 31	-60.034	-4.695	20.715	1.00	40.90		H0
ANISOU 3667 HG21 VAL B 31	4320	6400	4820	-400	-220	-320	H0
ATOM 3668 HG22 VAL B 31	-59.975	-3.474	21.730	1.00	40.49		H0
ANISOU 3668 HG22 VAL B 31	4280	6320	4780	-270	-160	-260	H0
ATOM 3669 HG23 VAL B 31	-61.378	-4.083	21.302	1.00	41.95		H0

ANISOU 3669 HG23 VAL B 31	4290	6660	4990	-340	-210	-290	H0
ATOM 3670 N SER B 32	-60.383	-8.479	23.849	1.00	42.31		N0
ANISOU 3670 N SER B 32	4510	6410	5150	-790	40	-360	N0
ATOM 3671 CA SER B 32	-60.421	-9.239	25.122	1.00	42.52		C0
ANISOU 3671 CA SER B 32	4570	6380	5210	-850	140	-340	C0
ATOM 3672 C SER B 32	-58.981	-9.515	25.547	1.00	41.09		C0
ANISOU 3672 C SER B 32	4570	6050	5000	-800	180	-330	C0
ATOM 3673 O SER B 32	-58.168	-9.863	24.672	1.00	41.09		O0
ANISOU 3673 O SER B 32	4660	5980	4970	-800	130	-360	O0
ATOM 3674 CB SER B 32	-61.216	-10.512	24.990	1.00	45.01		C0
ANISOU 3674 CB SER B 32	4850	6700	5560	-1040	150	-370	C0
ATOM 3675 OG SER B 32	-60.480	-11.503	24.282	1.00	46.46		O0
ANISOU 3675 OG SER B 32	5180	6760	5710	-1110	120	-420	O0
ATOM 3676 H SER B 32	-59.714	-8.765	23.300	1.00	41.80		H0
ANISOU 3676 H SER B 32	4540	6290	5060	-800	10	-390	H0
ATOM 3677 HA SER B 32	-60.849	-8.667	25.812	1.00	42.79		H0
ANISOU 3677 HA SER B 32	4540	6460	5260	-790	180	-310	H0
ATOM 3678 HB2 SER B 32	-61.443	-10.850	25.885	1.00	45.44		H0
ANISOU 3678 HB2 SER B 32	4900	6730	5640	-1070	230	-340	H0
ATOM 3679 HB3 SER B 32	-62.056	-10.324	24.512	1.00	46.02		H0
ANISOU 3679 HB3 SER B 32	4850	6930	5700	-1070	100	-380	H0
ATOM 3680 N LEU B 33	-58.670	-9.330	26.829	1.00	39.11		N0
ANISOU 3680 N LEU B 33	4360	5750	4750	-740	260	-290	N0
ATOM 3681 CA LEU B 33	-57.347	-9.683	27.398	1.00	37.78		C0
ANISOU 3681 CA LEU B 33	4340	5470	4550	-700	290	-280	C0
ATOM 3682 C LEU B 33	-57.424	-11.096	27.983	1.00	37.89		C0
ANISOU 3682 C LEU B 33	4440	5390	4570	-790	360	-270	C0
ATOM 3683 O LEU B 33	-58.407	-11.405	28.668	1.00	38.81		O0
ANISOU 3683 O LEU B 33	4500	5540	4710	-860	420	-250	O0
ATOM 3684 CB LEU B 33	-56.955	-8.648	28.454	1.00	37.55		C0
ANISOU 3684 CB LEU B 33	4330	5440	4500	-580	310	-240	C0
ATOM 3685 CG LEU B 33	-57.001	-7.193	27.994	1.00	37.77		C0
ANISOU 3685 CG LEU B 33	4300	5530	4520	-490	250	-240	C0
ATOM 3686 CD1 LEU B 33	-56.351	-6.282	29.028	1.00	37.71		C0
ANISOU 3686 CD1 LEU B 33	4360	5490	4480	-390	270	-220	C0
ATOM 3687 CD2 LEU B 33	-56.329	-7.019	26.640	1.00	37.52		C0
ANISOU 3687 CD2 LEU B 33	4280	5490	4480	-490	180	-260	C0
ATOM 3688 H LEU B 33	-59.254	-8.978	27.433	1.00	39.70		H0
ANISOU 3688 H LEU B 33	4370	5880	4830	-720	290	-270	H0
ATOM 3689 HA LEU B 33	-56.685	-9.676	26.674	1.00	37.39		H0
ANISOU 3689 HA LEU B 33	4330	5390	4480	-680	240	-290	H0
ATOM 3690 HB2 LEU B 33	-57.554	-8.750	29.221	1.00	38.11		H0
ANISOU 3690 HB2 LEU B 33	4370	5530	4580	-590	370	-220	H0
ATOM 3691 HB3 LEU B 33	-56.048	-8.849	28.759	1.00	37.16		H0
ANISOU 3691 HB3 LEU B 33	4360	5330	4430	-550	310	-230	H0
ATOM 3692 HG LEU B 33	-57.949	-6.928	27.901	1.00	38.32		H0
ANISOU 3692 HG LEU B 33	4280	5670	4610	-490	260	-240	H0
ATOM 3693 HD11 LEU B 33	-56.678	-6.514	29.915	1.00	37.93		H0
ANISOU 3693 HD11 LEU B 33	4400	5520	4500	-390	320	-210	H0
ATOM 3694 HD12 LEU B 33	-56.576	-5.356	28.832	1.00	37.58		H0
ANISOU 3694 HD12 LEU B 33	4310	5500	4460	-340	240	-220	H0
ATOM 3695 HD13 LEU B 33	-55.385	-6.395	28.999	1.00	37.09		H0
ANISOU 3695 HD13 LEU B 33	4340	5360	4390	-390	250	-220	H0
ATOM 3696 HD21 LEU B 33	-55.523	-7.563	26.606	1.00	37.12		H0

ANISOU 3696 HD21 LEU B 33	4300	5390	4420	-500	180	-270	H0
ATOM 3697 HD22 LEU B 33	-56.094	-6.085	26.511	1.00	37.14		H0
ANISOU 3697 HD22 LEU B 33	4240	5460	4420	-430	150	-250	H0
ATOM 3698 HD23 LEU B 33	-56.939	-7.300	25.936	1.00	37.90		H0
ANISOU 3698 HD23 LEU B 33	4280	5580	4540	-530	150	-280	H0
ATOM 3699 N LYS B 34	-56.430	-11.929	27.680	1.00	37.18		N0
ANISOU 3699 N LYS B 34	4480	5190	4460	-790	350	-280	N0
ATOM 3700 CA LYS B 34	-56.224	-13.254	28.314	1.00	37.88		C0
ANISOU 3700 CA LYS B 34	4700	5160	4530	-840	430	-260	C0
ATOM 3701 C LYS B 34	-54.944	-13.144	29.147	1.00	35.64		C0
ANISOU 3701 C LYS B 34	4510	4820	4210	-710	440	-220	C0
ATOM 3702 O LYS B 34	-53.870	-12.927	28.559	1.00	33.88		O0
ANISOU 3702 O LYS B 34	4320	4590	3960	-620	390	-230	O0
ATOM 3703 CB LYS B 34	-56.159	-14.338	27.233	1.00	40.04		C0
ANISOU 3703 CB LYS B 34	5060	5350	4800	-930	400	-310	C0
ATOM 3704 CG LYS B 34	-56.619	-15.720	27.666	1.00	42.91		C0
ANISOU 3704 CG LYS B 34	5540	5590	5180	-1060	480	-310	C0
ATOM 3705 CD LYS B 34	-58.111	-15.821	27.913	1.00	45.13		C0
ANISOU 3705 CD LYS B 34	5700	5940	5510	-1220	500	-310	C0
ATOM 3706 CE LYS B 34	-58.552	-17.241	28.199	1.00	47.63		C0
ANISOU 3706 CE LYS B 34	6140	6120	5840	-1380	580	-300	C0
ATOM 3707 NZ LYS B 34	-59.851	-17.288	28.912	1.00	49.67		N0
ANISOU 3707 NZ LYS B 34	6270	6450	6150	-1530	650	-260	N0
ATOM 3708 H LYS B 34	-55.803	-11.730	27.050	1.00	36.82		H0
ANISOU 3708 H LYS B 34	4460	5140	4390	-750	310	-300	H0
ATOM 3709 HA LYS B 34	-56.981	-13.441	28.914	1.00	38.50		H0
ANISOU 3709 HA LYS B 34	4750	5250	4630	-900	480	-240	H0
ATOM 3710 HB2 LYS B 34	-56.712	-14.051	26.477	1.00	40.20		H0
ANISOU 3710 HB2 LYS B 34	5000	5440	4840	-980	350	-350	H0
ATOM 3711 HB3 LYS B 34	-55.235	-14.405	26.916	1.00	39.54		H0
ANISOU 3711 HB3 LYS B 34	5070	5240	4710	-850	380	-320	H0
ATOM 3712 HG2 LYS B 34	-56.370	-16.363	26.970	1.00	43.20		H0
ANISOU 3712 HG2 LYS B 34	5660	5550	5200	-1090	460	-350	H0
ATOM 3713 HG3 LYS B 34	-56.143	-15.968	28.487	1.00	42.72		H0
ANISOU 3713 HG3 LYS B 34	5590	5510	5130	-1000	530	-260	H0
ATOM 3714 HD2 LYS B 34	-58.350	-15.252	28.675	1.00	44.80		H0
ANISOU 3714 HD2 LYS B 34	5580	5960	5480	-1180	540	-260	H0
ATOM 3715 HD3 LYS B 34	-58.591	-15.490	27.124	1.00	45.20		H0
ANISOU 3715 HD3 LYS B 34	5610	6030	5530	-1270	440	-350	H0
ATOM 3716 HE2 LYS B 34	-58.635	-17.731	27.359	1.00	48.18		H0
ANISOU 3716 HE2 LYS B 34	6260	6140	5910	-1460	530	-360	H0
ATOM 3717 HE3 LYS B 34	-57.877	-17.688	28.743	1.00	47.52		H0
ANISOU 3717 HE3 LYS B 34	6270	6000	5790	-1320	630	-270	H0
ATOM 3718 HZ1 LYS B 34	-59.848	-16.698	29.601	1.00	48.92		H0
ANISOU 3718 HZ1 LYS B 34	6120	6420	6050	-1450	680	-220	H0
ATOM 3719 HZ2 LYS B 34	-59.989	-18.122	29.241	1.00	50.47		H0
ANISOU 3719 HZ2 LYS B 34	6470	6450	6250	-1620	710	-250	H0
ATOM 3720 HZ3 LYS B 34	-60.523	-17.076	28.342	1.00	49.94		H0
ANISOU 3720 HZ3 LYS B 34	6190	6580	6210	-1610	600	-300	H0
ATOM 3721 N PHE B 35	-55.061	-13.209	30.472	1.00	34.37		N0
ANISOU 3721 N PHE B 35	4390	4640	4030	-680	510	-170	N0
ATOM 3722 CA PHE B 35	-53.925	-12.960	31.393	1.00	33.28		C0
ANISOU 3722 CA PHE B 35	4330	4480	3840	-550	500	-130	C0
ATOM 3723 C PHE B 35	-53.064	-14.221	31.457	1.00	32.74		C0

ANISOU 3723 C PHE B 35	4410	4290	3740	-520	530	-110	C0
ATOM 3724 O PHE B 35	-53.593	-15.313	31.755	1.00	33.80		O0
ANISOU 3724 O PHE B 35	4640	4330	3870	-590	600	-90	O0
ATOM 3725 CB PHE B 35	-54.429	-12.464	32.750	1.00	33.92		C0
ANISOU 3725 CB PHE B 35	4400	4600	3890	-520	560	-90	C0
ATOM 3726 CG PHE B 35	-54.988	-11.068	32.682	1.00	33.64		C0
ANISOU 3726 CG PHE B 35	4240	4670	3870	-500	530	-110	C0
ATOM 3727 CD1 PHE B 35	-54.141	-9.971	32.642	1.00	32.84		C0
ANISOU 3727 CD1 PHE B 35	4120	4600	3750	-410	450	-120	C0
ATOM 3728 CD2 PHE B 35	-56.355	-10.852	32.630	1.00	34.54		C0
ANISOU 3728 CD2 PHE B 35	4250	4850	4020	-570	570	-110	C0
ATOM 3729 CE1 PHE B 35	-54.648	-8.685	32.555	1.00	32.50		C0
ANISOU 3729 CE1 PHE B 35	4000	4630	3710	-380	420	-140	C0
ATOM 3730 CE2 PHE B 35	-56.861	-9.563	32.546	1.00	35.01		C0
ANISOU 3730 CE2 PHE B 35	4200	5010	4090	-520	550	-130	C0
ATOM 3731 CZ PHE B 35	-56.006	-8.483	32.508	1.00	33.76		C0
ANISOU 3731 CZ PHE B 35	4070	4850	3900	-420	470	-150	C0
ATOM 3732 H PHE B 35	-55.835	-13.414	30.906	1.00	35.21		H0
ANISOU 3732 H PHE B 35	4480	4760	4150	-740	560	-150	H0
ATOM 3733 HA PHE B 35	-53.372	-12.239	30.999	1.00	32.55		H0
ANISOU 3733 HA PHE B 35	4190	4430	3740	-500	450	-140	H0
ATOM 3734 HB2 PHE B 35	-55.123	-13.076	33.073	1.00	34.66		H0
ANISOU 3734 HB2 PHE B 35	4520	4660	3990	-590	630	-70	H0
ATOM 3735 HB3 PHE B 35	-53.685	-12.483	33.388	1.00	33.79		H0
ANISOU 3735 HB3 PHE B 35	4450	4560	3830	-450	550	-60	H0
ATOM 3736 HD1 PHE B 35	-53.207	-10.104	32.668	1.00	32.57		H0
ANISOU 3736 HD1 PHE B 35	4140	4540	3690	-370	410	-120	H0
ATOM 3737 HD2 PHE B 35	-56.945	-11.587	32.651	1.00	35.38		H0
ANISOU 3737 HD2 PHE B 35	4350	4940	4150	-650	620	-100	H0
ATOM 3738 HE1 PHE B 35	-54.060	-7.947	32.534	1.00	32.26		H0
ANISOU 3738 HE1 PHE B 35	3980	4610	3670	-330	370	-150	H0
ATOM 3739 HE2 PHE B 35	-57.795	-9.427	32.517	1.00	35.25		H0
ANISOU 3739 HE2 PHE B 35	4150	5100	4140	-550	580	-130	H0
ATOM 3740 HZ PHE B 35	-56.353	-7.606	32.459	1.00	33.60		H0
ANISOU 3740 HZ PHE B 35	4000	4880	3890	-380	460	-160	H0
ATOM 3741 N ILE B 36	-51.777	-14.060	31.149	1.00	31.28		N0
ANISOU 3741 N ILE B 36	4250	4110	3530	-410	470	-110	N0
ATOM 3742 CA ILE B 36	-50.758	-15.147	31.180	1.00	32.16		C0
ANISOU 3742 CA ILE B 36	4490	4130	3600	-320	490	-80	C0
ATOM 3743 C ILE B 36	-49.980	-15.054	32.497	1.00	32.68		C0
ANISOU 3743 C ILE B 36	4610	4200	3610	-200	490	-20	C0
ATOM 3744 O ILE B 36	-49.622	-16.113	33.038	1.00	33.80		O0
ANISOU 3744 O ILE B 36	4890	4250	3700	-140	530	20	O0
ATOM 3745 CB ILE B 36	-49.823	-15.077	29.953	1.00	31.08		C0
ANISOU 3745 CB ILE B 36	4330	4010	3470	-260	440	-120	C0
ATOM 3746 CG1 ILE B 36	-50.589	-14.811	28.653	1.00	30.47		C0
ANISOU 3746 CG1 ILE B 36	4180	3960	3430	-370	420	-180	C0
ATOM 3747 CG2 ILE B 36	-48.988	-16.340	29.860	1.00	32.18		C0
ANISOU 3747 CG2 ILE B 36	4620	4050	3570	-160	480	-100	C0
ATOM 3748 CD1 ILE B 36	-51.705	-15.790	28.374	1.00	31.08		C0
ANISOU 3748 CD1 ILE B 36	4340	3950	3520	-500	470	-210	C0
ATOM 3749 H ILE B 36	-51.434	-13.256	30.891	1.00	30.94		H0
ANISOU 3749 H ILE B 36	4130	4130	3490	-370	420	-120	H0
ATOM 3750 HA ILE B 36	-51.222	-16.002	31.160	1.00	32.77		H0

ANISOU 3750 HA ILE B 36	4660	4120	3680	-380	540	-80	H0
ATOM 3751 HB ILE B 36	-49.205	-14.318	30.094	1.00	30.64		H0
ANISOU 3751 HB ILE B 36	4200	4040	3410	-200	400	-110	H0
ATOM 3752 HG12 ILE B 36	-50.966	-13.906	28.688	1.00	29.91		H0
ANISOU 3752 HG12 ILE B 36	4010	3970	3380	-400	390	-190	H0
ATOM 3753 HG13 ILE B 36	-49.954	-14.840	27.906	1.00	30.39		H0
ANISOU 3753 HG13 ILE B 36	4170	3960	3410	-320	400	-200	H0
ATOM 3754 HG21 ILE B 36	-48.353	-16.368	30.596	1.00	32.29		H0
ANISOU 3754 HG21 ILE B 36	4650	4070	3550	-70	480	-50	H0
ATOM 3755 HG22 ILE B 36	-48.504	-16.349	29.016	1.00	32.05		H0
ANISOU 3755 HG22 ILE B 36	4580	4040	3550	-130	460	-120	H0
ATOM 3756 HG23 ILE B 36	-49.569	-17.120	29.905	1.00	32.83		H0
ANISOU 3756 HG23 ILE B 36	4800	4030	3650	-220	530	-100	H0
ATOM 3757 HD11 ILE B 36	-51.331	-16.673	28.206	1.00	31.84		H0
ANISOU 3757 HD11 ILE B 36	4550	3950	3600	-480	490	-210	H0
ATOM 3758 HD12 ILE B 36	-52.206	-15.498	27.593	1.00	31.07		H0
ANISOU 3758 HD12 ILE B 36	4280	3980	3540	-570	440	-250	H0
ATOM 3759 HD13 ILE B 36	-52.304	-15.834	29.139	1.00	31.45		H0
ANISOU 3759 HD13 ILE B 36	4390	3980	3580	-550	500	-190	H0
ATOM 3760 N ASN B 37	-49.705	-13.845	32.989	1.00	32.48		N0
ANISOU 3760 N ASN B 37	4490	4280	3570	-170	430	-20	N0
ATOM 3761 CA ASN B 37	-48.825	-13.685	34.172	1.00	33.42		C0
ANISOU 3761 CA ASN B 37	4640	4430	3620	-50	390	30	C0
ATOM 3762 C ASN B 37	-49.027	-12.327	34.844	1.00	33.36		C0
ANISOU 3762 C ASN B 37	4560	4510	3600	-60	340	10	C0
ATOM 3763 O ASN B 37	-49.435	-11.369	34.163	1.00	32.58		O0
ANISOU 3763 O ASN B 37	4360	4460	3550	-130	320	-30	O0
ATOM 3764 CB ASN B 37	-47.359	-13.872	33.785	1.00	33.50		C0
ANISOU 3764 CB ASN B 37	4630	4480	3620	60	330	40	C0
ATOM 3765 CG ASN B 37	-46.588	-14.654	34.819	1.00	34.82		C0
ANISOU 3765 CG ASN B 37	4910	4610	3710	190	330	110	C0
ATOM 3766 OD1 ASN B 37	-46.854	-14.532	36.017	1.00	34.98		O0
ANISOU 3766 OD1 ASN B 37	4990	4630	3670	210	330	140	O0
ATOM 3767 ND2 ASN B 37	-45.657	-15.477	34.359	1.00	34.98		N0
ANISOU 3767 ND2 ASN B 37	4960	4610	3720	300	330	130	N0
ATOM 3768 H ASN B 37	-50.022	-13.068	32.637	1.00	31.95		H0
ANISOU 3768 H ASN B 37	4330	4270	3530	-210	400	-50	H0
ATOM 3769 HA ASN B 37	-49.056	-14.390	34.821	1.00	34.06		H0
ANISOU 3769 HA ASN B 37	4830	4450	3670	-40	450	60	H0
ATOM 3770 HB2 ASN B 37	-47.311	-14.341	32.928	1.00	33.59		H0
ANISOU 3770 HB2 ASN B 37	4650	4450	3660	50	350	20	H0
ATOM 3771 HB3 ASN B 37	-46.943	-12.992	33.674	1.00	33.11		H0
ANISOU 3771 HB3 ASN B 37	4490	4510	3580	60	270	30	H0
ATOM 3772 HD21 ASN B 37	-45.486	-16.232	34.786	1.00	35.90		H0
ANISOU 3772 HD21 ASN B 37	5180	4670	3790	370	360	170	H0
ATOM 3773 HD22 ASN B 37	-45.209	-15.273	33.625	1.00	34.85		H0
ANISOU 3773 HD22 ASN B 37	4870	4640	3730	310	310	110	H0
ATOM 3774 N ILE B 38	-48.748	-12.291	36.147	1.00	34.48		N0
ANISOU 3774 N ILE B 38	4780	4660	3660	0	330	50	N0
ATOM 3775 CA ILE B 38	-48.594	-11.070	36.989	1.00	35.45		C0
ANISOU 3775 CA ILE B 38	4880	4850	3740	20	270	30	C0
ATOM 3776 C ILE B 38	-47.226	-11.190	37.668	1.00	36.85		C0
ANISOU 3776 C ILE B 38	5080	5070	3840	130	180	60	C0
ATOM 3777 O ILE B 38	-47.031	-12.163	38.417	1.00	37.21		O0

ANISOU 3777 O ILE B 38	5240	5070	3820	210	210	120	O0
ATOM 3778 CB ILE B 38	-49.756	-10.960	37.997	1.00	36.32		C0
ANISOU 3778 CB ILE B 38	5060	4940	3800	0	350	40	C0
ATOM 3779 CG1 ILE B 38	-51.114	-10.899	37.289	1.00	36.00		C0
ANISOU 3779 CG1 ILE B 38	4950	4890	3840	-100	440	20	C0
ATOM 3780 CG2 ILE B 38	-49.547	-9.778	38.936	1.00	36.60		C0
ANISOU 3780 CG2 ILE B 38	5120	5030	3760	40	290	20	C0
ATOM 3781 CD1 ILE B 38	-52.297	-11.201	38.184	1.00	37.03		C0
ANISOU 3781 CD1 ILE B 38	5140	5000	3930	-120	560	50	C0
ATOM 3782 H ILE B 38	-48.633	-13.056	36.629	1.00	35.25		H0
ANISOU 3782 H ILE B 38	4960	4710	3720	50	370	90	H0
ATOM 3783 HA ILE B 38	-48.598	-10.284	36.414	1.00	34.88		H0
ANISOU 3783 HA ILE B 38	4720	4820	3710	-20	230	0	H0
ATOM 3784 HB ILE B 38	-49.748	-11.782	38.547	1.00	36.95		H0
ANISOU 3784 HB ILE B 38	5230	4980	3830	40	400	90	H0
ATOM 3785 HG12 ILE B 38	-51.229	-10.002	36.910	1.00	35.52		H0
ANISOU 3785 HG12 ILE B 38	4820	4870	3810	-120	400	-20	H0
ATOM 3786 HG13 ILE B 38	-51.113	-11.539	36.547	1.00	35.91		H0
ANISOU 3786 HG13 ILE B 38	4930	4850	3870	-130	460	20	H0
ATOM 3787 HG21 ILE B 38	-48.836	-9.984	39.568	1.00	37.09		H0
ANISOU 3787 HG21 ILE B 38	5230	5100	3760	110	240	40	H0
ATOM 3788 HG22 ILE B 38	-50.368	-9.599	39.425	1.00	36.84		H0
ANISOU 3788 HG22 ILE B 38	5180	5050	3770	30	350	20	H0
ATOM 3789 HG23 ILE B 38	-49.301	-8.991	38.420	1.00	36.04		H0
ANISOU 3789 HG23 ILE B 38	4970	4990	3730	20	230	-20	H0
ATOM 3790 HD11 ILE B 38	-52.134	-12.027	38.671	1.00	37.60		H0
ANISOU 3790 HD11 ILE B 38	5310	5020	3960	-100	600	100	H0
ATOM 3791 HD12 ILE B 38	-53.099	-11.299	37.642	1.00	36.91		H0
ANISOU 3791 HD12 ILE B 38	5060	4990	3970	-200	610	40	H0
ATOM 3792 HD13 ILE B 38	-52.423	-10.473	38.816	1.00	37.08		H0
ANISOU 3792 HD13 ILE B 38	5160	5040	3890	-90	550	40	H0
ATOM 3793 N LEU B 39	-46.305	-10.268	37.382	1.00	39.57		N0
ANISOU 3793 N LEU B 39	5330	5500	4210	130	60	30	N0
ATOM 3794 CA LEU B 39	-44.842	-10.466	37.599	1.00	43.03		C0
ANISOU 3794 CA LEU B 39	5730	6010	4610	210	-40	60	C0
ATOM 3795 C LEU B 39	-44.335	-9.612	38.759	1.00	45.33		C0
ANISOU 3795 C LEU B 39	6030	6370	4820	230	-150	50	C0
ATOM 3796 O LEU B 39	-43.520	-10.123	39.554	1.00	48.54		O0
ANISOU 3796 O LEU B 39	6480	6820	5140	330	-210	90	O0
ATOM 3797 CB LEU B 39	-44.101	-10.100	36.311	1.00	42.85		C0
ANISOU 3797 CB LEU B 39	5550	6050	4680	180	-80	40	C0
ATOM 3798 CG LEU B 39	-44.434	-10.981	35.111	1.00	43.82		C0
ANISOU 3798 CG LEU B 39	5670	6110	4860	180	20	50	C0
ATOM 3799 CD1 LEU B 39	-43.713	-10.491	33.871	1.00	44.05		C0
ANISOU 3799 CD1 LEU B 39	5560	6210	4960	150	-10	30	C0
ATOM 3800 CD2 LEU B 39	-44.076	-12.434	35.397	1.00	45.24		C0
ANISOU 3800 CD2 LEU B 39	5950	6240	5000	300	70	100	C0
ATOM 3801 H LEU B 39	-46.518	-9.458	37.024	1.00	38.97		H0
ANISOU 3801 H LEU B 39	5200	5450	4170	70	40	0	H0
ATOM 3802 HA LEU B 39	-44.682	-11.413	37.814	1.00	43.37		H0
ANISOU 3802 HA LEU B 39	5830	6020	4620	290	0	100	H0
ATOM 3803 HB2 LEU B 39	-44.312	-9.172	36.086	1.00	42.64		H0
ANISOU 3803 HB2 LEU B 39	5480	6040	4680	100	-100	10	H0
ATOM 3804 HB3 LEU B 39	-43.139	-10.153	36.481	1.00	43.71		H0

ANISOU 3804 HB3 LEU B 39	5610	6230	4770	230	-140	70	H0
ATOM 3805 HG LEU B 39	-45.407	-10.927	34.946	1.00	43.26		H0
ANISOU 3805 HG LEU B 39	5640	5990	4810	120	80	30	H0
ATOM 3806 HD11 LEU B 39	-43.966	-9.569	33.690	1.00	43.37		H0
ANISOU 3806 HD11 LEU B 39	5430	6150	4900	70	-40	0	H0
ATOM 3807 HD12 LEU B 39	-43.955	-11.049	33.112	1.00	43.62		H0
ANISOU 3807 HD12 LEU B 39	5520	6120	4940	150	50	30	H0
ATOM 3808 HD13 LEU B 39	-42.753	-10.543	34.015	1.00	44.43		H0
ANISOU 3808 HD13 LEU B 39	5550	6330	5000	210	-60	60	H0
ATOM 3809 HD21 LEU B 39	-43.188	-12.478	35.794	1.00	45.72		H0
ANISOU 3809 HD21 LEU B 39	5980	6370	5020	380	10	130	H0
ATOM 3810 HD22 LEU B 39	-44.084	-12.940	34.566	1.00	44.93		H0
ANISOU 3810 HD22 LEU B 39	5910	6170	5000	310	110	100	H0
ATOM 3811 HD23 LEU B 39	-44.725	-12.815	36.013	1.00	45.24		H0
ANISOU 3811 HD23 LEU B 39	6050	6180	4960	300	110	120	H0
ATOM 3812 N GLU B 40	-44.726	-8.341	38.782	1.00	46.41		N0
ANISOU 3812 N GLU B 40	6150	6520	4970	140	-180	-10	N0
ATOM 3813 CA GLU B 40	-44.275	-7.343	39.781	1.00	49.27		C0
ANISOU 3813 CA GLU B 40	6550	6930	5250	130	-300	-50	C0
ATOM 3814 C GLU B 40	-45.499	-6.521	40.170	1.00	48.51		C0
ANISOU 3814 C GLU B 40	6550	6760	5120	80	-240	-90	C0
ATOM 3815 O GLU B 40	-46.215	-6.026	39.264	1.00	49.70		O0
ANISOU 3815 O GLU B 40	6650	6880	5360	20	-180	-120	O0
ATOM 3816 CB GLU B 40	-43.159	-6.454	39.231	1.00	52.30		C0
ANISOU 3816 CB GLU B 40	6790	7390	5680	50	-430	-70	C0
ATOM 3817 CG GLU B 40	-41.923	-7.223	38.802	1.00	55.20		C0
ANISOU 3817 CG GLU B 40	7030	7860	6080	110	-480	-20	C0
ATOM 3818 CD GLU B 40	-40.615	-6.509	39.095	1.00	59.43		C0
ANISOU 3818 CD GLU B 40	7460	8520	6600	70	-640	-30	C0
ATOM 3819 OE1 GLU B 40	-40.455	-5.354	38.628	1.00	61.50		O0
ANISOU 3819 OE1 GLU B 40	7660	8790	6920	-60	-690	-80	O0
ATOM 3820 OE2 GLU B 40	-39.770	-7.099	39.810	1.00	61.22		O0
ANISOU 3820 OE2 GLU B 40	7660	8840	6760	170	-720	10	O0
ATOM 3821 H GLU B 40	-45.302	-7.998	38.167	1.00	45.78		H0
ANISOU 3821 H GLU B 40	6040	6410	4940	80	-140	-30	H0
ATOM 3822 HA GLU B 40	-43.942	-7.820	40.575	1.00	50.10		H0
ANISOU 3822 HA GLU B 40	6710	7050	5270	200	-330	-20	H0
ATOM 3823 HB2 GLU B 40	-43.507	-5.958	38.462	1.00	51.38		H0
ANISOU 3823 HB2 GLU B 40	6630	7250	5640	-10	-390	-100	H0
ATOM 3824 HB3 GLU B 40	-42.909	-5.804	39.921	1.00	52.81		H0
ANISOU 3824 HB3 GLU B 40	6900	7480	5690	30	-510	-100	H0
ATOM 3825 HG2 GLU B 40	-41.912	-8.090	39.260	1.00	55.70		H0
ANISOU 3825 HG2 GLU B 40	7150	7910	6090	210	-450	20	H0
ATOM 3826 HG3 GLU B 40	-41.974	-7.397	37.838	1.00	54.67		H0
ANISOU 3826 HG3 GLU B 40	6900	7780	6090	90	-420	-10	H0
ATOM 3827 N VAL B 41	-45.758	-6.473	41.468	1.00	45.80		N0
ANISOU 3827 N VAL B 41	6340	6400	4660	140	-250	-100	N0
ATOM 3828 CA VAL B 41	-46.913	-5.776	42.089	1.00	44.41		C0
ANISOU 3828 CA VAL B 41	6280	6170	4420	140	-170	-140	C0
ATOM 3829 C VAL B 41	-46.327	-4.890	43.183	1.00	43.27		C0
ANISOU 3829 C VAL B 41	6240	6050	4150	150	-300	-190	C0
ATOM 3830 O VAL B 41	-45.444	-5.369	43.904	1.00	42.56		O0
ANISOU 3830 O VAL B 41	6180	6010	3970	200	-400	-160	O0
ATOM 3831 CB VAL B 41	-47.920	-6.807	42.630	1.00	45.12		C0

ANISOU 3831 CB VAL B 41	6460	6220	4470	200	-20	-80	C0
ATOM 3832 CG1 VAL B 41	-48.839	-6.223	43.687	1.00	45.48		C0
ANISOU 3832 CG1 VAL B 41	6640	6240	4400	240	50	-100	C0
ATOM 3833 CG2 VAL B 41	-48.716	-7.441	41.502	1.00	43.98		C0
ANISOU 3833 CG2 VAL B 41	6220	6040	4450	150	100	-50	C0
ATOM 3834 H VAL B 41	-45.224	-6.883	42.082	1.00	46.99		H0
ANISOU 3834 H VAL B 41	6530	6590	4740	190	-290	-70	H0
ATOM 3835 HA VAL B 41	-47.349	-5.219	41.420	1.00	43.68		H0
ANISOU 3835 HA VAL B 41	6140	6060	4400	90	-150	-160	H0
ATOM 3836 HB VAL B 41	-47.395	-7.524	43.061	1.00	45.43		H0
ANISOU 3836 HB VAL B 41	6540	6270	4450	250	-40	-40	H0
ATOM 3837 HG11 VAL B 41	-48.382	-6.212	44.547	1.00	46.45		H0
ANISOU 3837 HG11 VAL B 41	6860	6380	4420	290	-10	-100	H0
ATOM 3838 HG12 VAL B 41	-49.642	-6.766	43.755	1.00	45.56		H0
ANISOU 3838 HG12 VAL B 41	6670	6230	4420	250	170	-70	H0
ATOM 3839 HG13 VAL B 41	-49.080	-5.318	43.436	1.00	45.28		H0
ANISOU 3839 HG13 VAL B 41	6600	6210	4400	210	30	-150	H0
ATOM 3840 HG21 VAL B 41	-49.398	-6.819	41.194	1.00	43.65		H0
ANISOU 3840 HG21 VAL B 41	6150	5990	4440	120	140	-80	H0
ATOM 3841 HG22 VAL B 41	-49.142	-8.255	41.822	1.00	44.32		H0
ANISOU 3841 HG22 VAL B 41	6310	6060	4470	180	190	-10	H0
ATOM 3842 HG23 VAL B 41	-48.120	-7.658	40.764	1.00	43.57		H0
ANISOU 3842 HG23 VAL B 41	6080	6010	4460	130	60	-50	H0
ATOM 3843 N ASN B 42	-46.760	-3.636	43.243	1.00	42.01		N0
ANISOU 3843 N ASN B 42	6130	5850	3980	110	-320	-260	N0
ATOM 3844 CA ASN B 42	-46.314	-2.665	44.271	1.00	42.88		C0
ANISOU 3844 CA ASN B 42	6380	5950	3960	100	-440	-330	C0
ATOM 3845 C ASN B 42	-47.554	-1.930	44.789	1.00	42.42		C0
ANISOU 3845 C ASN B 42	6470	5810	3830	150	-330	-380	C0
ATOM 3846 O ASN B 42	-48.094	-1.068	44.056	1.00	41.15		O0
ANISOU 3846 O ASN B 42	6280	5600	3750	110	-290	-410	O0
ATOM 3847 CB ASN B 42	-45.216	-1.750	43.723	1.00	42.78		C0
ANISOU 3847 CB ASN B 42	6280	5960	4010	-20	-600	-380	C0
ATOM 3848 CG ASN B 42	-44.506	-0.973	44.810	1.00	44.04		C0
ANISOU 3848 CG ASN B 42	6570	6130	4030	-50	-770	-450	C0
ATOM 3849 OD1 ASN B 42	-45.085	-0.688	45.853	1.00	44.64		O0
ANISOU 3849 OD1 ASN B 42	6840	6160	3960	20	-740	-490	O0
ATOM 3850 ND2 ASN B 42	-43.257	-0.613	44.569	1.00	44.56		N0
ANISOU 3850 ND2 ASN B 42	6540	6260	4130	-160	-930	-470	N0
ATOM 3851 H ASN B 42	-47.360	-3.293	42.648	1.00	41.58		H0
ANISOU 3851 H ASN B 42	6040	5760	3990	80	-260	-270	H0
ATOM 3852 HA ASN B 42	-45.922	-3.173	45.020	1.00	43.52		H0
ANISOU 3852 HA ASN B 42	6520	6070	3950	150	-480	-310	H0
ATOM 3853 HB2 ASN B 42	-44.562	-2.295	43.240	1.00	42.44		H0
ANISOU 3853 HB2 ASN B 42	6120	5980	4030	-40	-640	-340	H0
ATOM 3854 HB3 ASN B 42	-45.615	-1.124	43.087	1.00	42.18		H0
ANISOU 3854 HB3 ASN B 42	6190	5840	4000	-70	-570	-410	H0
ATOM 3855 HD21 ASN B 42	-42.729	-0.374	45.237	1.00	45.75		H0
ANISOU 3855 HD21 ASN B 42	6740	6440	4200	-180	-1050	-500	H0
ATOM 3856 HD22 ASN B 42	-42.949	-0.611	43.740	1.00	43.99		H0
ANISOU 3856 HD22 ASN B 42	6340	6210	4170	-220	-930	-450	H0
ATOM 3857 N GLU B 43	-47.992	-2.292	45.997	1.00	42.60		N0
ANISOU 3857 N GLU B 43	6650	5830	3700	250	-270	-360	N0
ATOM 3858 CA GLU B 43	-49.188	-1.718	46.666	1.00	43.64		C0

ANISOU 3858 CA GLU B 43	6930	5910	3740	330	-150	-400	C0
ATOM 3859 C GLU B 43	-48.927	-0.253	47.038	1.00	44.44		C0
ANISOU 3859 C GLU B 43	7170	5950	3760	310	-260	-510	C0
ATOM 3860 O GLU B 43	-49.908	0.516	47.104	1.00	44.93		O0
ANISOU 3860 O GLU B 43	7320	5950	3800	360	-150	-550	O0
ATOM 3861 CB GLU B 43	-49.550	-2.536	47.910	1.00	44.87		C0
ANISOU 3861 CB GLU B 43	7220	6090	3740	440	-60	-350	C0
ATOM 3862 CG GLU B 43	-50.903	-2.164	48.484	1.00	45.74		C0
ANISOU 3862 CG GLU B 43	7450	6170	3770	540	120	-360	C0
ATOM 3863 CD GLU B 43	-51.496	-3.146	49.482	1.00	47.02		C0
ANISOU 3863 CD GLU B 43	7710	6350	3800	640	270	-280	C0
ATOM 3864 OE1 GLU B 43	-52.571	-2.830	50.036	1.00	47.65		O0
ANISOU 3864 OE1 GLU B 43	7880	6420	3800	720	430	-280	O0
ATOM 3865 OE2 GLU B 43	-50.897	-4.228	49.693	1.00	47.07		O0
ANISOU 3865 OE2 GLU B 43	7710	6390	3790	640	240	-200	O0
ATOM 3866 H GLU B 43	-47.571	-2.928	46.495	1.00	43.36		H0
ANISOU 3866 H GLU B 43	6770	5970	3740	290	-310	-330	H0
ATOM 3867 HA GLU B 43	-49.941	-1.753	46.034	1.00	42.77		H0
ANISOU 3867 HA GLU B 43	6740	5790	3720	330	-40	-380	H0
ATOM 3868 HB2 GLU B 43	-49.551	-3.486	47.672	1.00	44.41		H0
ANISOU 3868 HB2 GLU B 43	7090	6060	3730	440	-10	-280	H0
ATOM 3869 HB3 GLU B 43	-48.861	-2.394	48.593	1.00	45.82		H0
ANISOU 3869 HB3 GLU B 43	7440	6220	3750	460	-170	-380	H0
ATOM 3870 HG2 GLU B 43	-50.828	-1.291	48.925	1.00	46.58		H0
ANISOU 3870 HG2 GLU B 43	7680	6240	3790	560	70	-430	H0
ATOM 3871 HG3 GLU B 43	-51.539	-2.063	47.744	1.00	44.99		H0
ANISOU 3871 HG3 GLU B 43	7250	6060	3780	520	200	-350	H0
ATOM 3872 N ILE B 44	-47.667	0.117	47.295	1.00	44.79		N0
ANISOU 3872 N ILE B 44	7250	6010	3760	230	-460	-560	N0
ATOM 3873 CA ILE B 44	-47.280	1.494	47.728	1.00	46.11		C0
ANISOU 3873 CA ILE B 44	7580	6100	3840	170	-590	-670	C0
ATOM 3874 C ILE B 44	-47.369	2.441	46.521	1.00	44.08		C0
ANISOU 3874 C ILE B 44	7240	5770	3740	70	-600	-710	C0
ATOM 3875 O ILE B 44	-47.945	3.530	46.675	1.00	44.98		O0
ANISOU 3875 O ILE B 44	7510	5770	3810	100	-560	-780	O0
ATOM 3876 CB ILE B 44	-45.890	1.502	48.399	1.00	48.32		C0
ANISOU 3876 CB ILE B 44	7890	6440	4030	100	-820	-710	C0
ATOM 3877 CG1 ILE B 44	-45.886	0.691	49.702	1.00	50.17		C0
ANISOU 3877 CG1 ILE B 44	8250	6740	4070	230	-820	-680	C0
ATOM 3878 CG2 ILE B 44	-45.410	2.927	48.633	1.00	50.05		C0
ANISOU 3878 CG2 ILE B 44	8260	6570	4190	-10	-970	-830	C0
ATOM 3879 CD1 ILE B 44	-44.519	0.171	50.108	1.00	51.31		C0
ANISOU 3879 CD1 ILE B 44	8330	7000	4160	190	-1020	-660	C0
ATOM 3880 H ILE B 44	-46.962	-0.455	47.229	1.00	44.78		H0
ANISOU 3880 H ILE B 44	7160	6070	3780	200	-530	-520	H0
ATOM 3881 HA ILE B 44	-47.930	1.791	48.390	1.00	46.80		H0
ANISOU 3881 HA ILE B 44	7820	6140	3820	260	-520	-700	H0
ATOM 3882 HB ILE B 44	-45.255	1.069	47.777	1.00	47.65		H0
ANISOU 3882 HB ILE B 44	7630	6420	4050	40	-870	-670	H0
ATOM 3883 HG12 ILE B 44	-46.233	1.257	50.424	1.00	51.15		H0
ANISOU 3883 HG12 ILE B 44	8560	6810	4070	270	-810	-740	H0
ATOM 3884 HG13 ILE B 44	-46.494	-0.072	49.601	1.00	49.27		H0
ANISOU 3884 HG13 ILE B 44	8090	6640	3980	300	-680	-610	H0
ATOM 3885 HG21 ILE B 44	-45.030	3.284	47.812	1.00	49.41		H0

ANISOU 3885 HG21 ILE B 44	8060	6480	4230	-120	-1020	-840	H0
ATOM 3886 HG22 ILE B 44	-44.731	2.933	49.330	1.00	51.20		H0
ANISOU 3886 HG22 ILE B 44	8460	6760	4230	-40	-1110	-870	H0
ATOM 3887 HG23 ILE B 44	-46.159	3.483	48.911	1.00	50.33		H0
ANISOU 3887 HG23 ILE B 44	8440	6520	4160	50	-890	-880	H0
ATOM 3888 HD11 ILE B 44	-44.165	-0.399	49.403	1.00	50.28		H0
ANISOU 3888 HD11 ILE B 44	8020	6930	4150	160	-1020	-600	H0
ATOM 3889 HD12 ILE B 44	-44.597	-0.344	50.930	1.00	52.04		H0
ANISOU 3889 HD12 ILE B 44	8520	7130	4120	280	-1010	-640	H0
ATOM 3890 HD13 ILE B 44	-43.914	0.919	50.251	1.00	52.21		H0
ANISOU 3890 HD13 ILE B 44	8480	7110	4250	90	-1170	-740	H0
ATOM 3891 N THR B 45	-46.855	2.035	45.356	1.00	41.41		N0
ANISOU 3891 N THR B 45	6680	5480	3570	-20	-620	-650	N0
ATOM 3892 CA THR B 45	-46.838	2.867	44.122	1.00	39.99		C0
ANISOU 3892 CA THR B 45	6410	5240	3540	-120	-620	-660	C0
ATOM 3893 C THR B 45	-48.114	2.644	43.294	1.00	37.91		C0
ANISOU 3893 C THR B 45	6070	4960	3370	-40	-440	-610	C0
ATOM 3894 O THR B 45	-48.296	3.387	42.314	1.00	37.35		O0
ANISOU 3894 O THR B 45	5970	4830	3400	-90	-420	-620	O0
ATOM 3895 CB THR B 45	-45.580	2.589	43.289	1.00	39.55		C0
ANISOU 3895 CB THR B 45	6160	5260	3600	-260	-740	-630	C0
ATOM 3896 OG1 THR B 45	-45.626	1.237	42.830	1.00	38.10		O0
ANISOU 3896 OG1 THR B 45	5800	5180	3490	-210	-660	-530	O0
ATOM 3897 CG2 THR B 45	-44.306	2.829	44.069	1.00	41.37		C0
ANISOU 3897 CG2 THR B 45	6430	5540	3750	-360	-940	-670	C0
ATOM 3898 H THR B 45	-46.474	1.217	45.234	1.00	41.10		H0
ANISOU 3898 H THR B 45	6530	5520	3570	-20	-630	-600	H0
ATOM 3899 HA THR B 45	-46.816	3.812	44.400	1.00	40.93		H0
ANISOU 3899 HA THR B 45	6670	5280	3610	-150	-670	-730	H0
ATOM 3900 HB THR B 45	-45.590	3.191	42.507	1.00	39.22		H0
ANISOU 3900 HB THR B 45	6080	5170	3640	-330	-740	-630	H0
ATOM 3901 HG21 THR B 45	-44.367	3.679	44.537	1.00	42.35		H0
ANISOU 3901 HG21 THR B 45	6700	5590	3800	-390	-990	-750	H0
ATOM 3902 HG22 THR B 45	-43.548	2.849	43.457	1.00	41.18		H0
ANISOU 3902 HG22 THR B 45	6270	5570	3810	-460	-1010	-650	H0
ATOM 3903 HG23 THR B 45	-44.181	2.112	44.716	1.00	41.57		H0
ANISOU 3903 HG23 THR B 45	6460	5640	3700	-290	-950	-650	H0
ATOM 3904 N ASN B 46	-48.952	1.666	43.655	1.00	36.76		N0
ANISOU 3904 N ASN B 46	5900	4860	3200	70	-300	-560	N0
ATOM 3905 CA ASN B 46	-50.149	1.258	42.869	1.00	35.93		C0
ANISOU 3905 CA ASN B 46	5690	4770	3190	130	-130	-500	C0
ATOM 3906 C ASN B 46	-49.741	0.970	41.414	1.00	34.92		C0
ANISOU 3906 C ASN B 46	5360	4680	3230	40	-160	-460	C0
ATOM 3907 O ASN B 46	-50.359	1.544	40.485	1.00	34.10		O0
ANISOU 3907 O ASN B 46	5210	4540	3210	40	-110	-460	O0
ATOM 3908 CB ASN B 46	-51.253	2.316	42.965	1.00	36.59		C0
ANISOU 3908 CB ASN B 46	5880	4780	3240	220	-40	-550	C0
ATOM 3909 CG ASN B 46	-52.197	2.083	44.129	1.00	37.16		C0
ANISOU 3909 CG ASN B 46	6070	4870	3180	370	90	-550	C0
ATOM 3910 OD1 ASN B 46	-52.515	0.943	44.460	1.00	36.11		O0
ANISOU 3910 OD1 ASN B 46	5870	4810	3040	390	170	-480	O0
ATOM 3911 ND2 ASN B 46	-52.653	3.161	44.746	1.00	38.19		N0
ANISOU 3911 ND2 ASN B 46	6390	4920	3200	460	110	-620	N0
ATOM 3912 H ASN B 46	-48.839	1.179	44.415	1.00	37.50		H0

ANISOU 3912 H ASN B 46	6050	4990	3210	120	-300	-550	H0
ATOM 3913 HA ASN B 46	-50.499	0.424	43.260	1.00	35.89		H0
ANISOU 3913 HA ASN B 46	5660	4810	3160	180	-60	-460	H0
ATOM 3914 HB2 ASN B 46	-50.839	3.196	43.064	1.00	37.11		H0
ANISOU 3914 HB2 ASN B 46	6050	4780	3270	190	-120	-600	H0
ATOM 3915 HB3 ASN B 46	-51.769	2.319	42.136	1.00	35.77		H0
ANISOU 3915 HB3 ASN B 46	5670	4690	3230	230	20	-520	H0
ATOM 3916 HD21 ASN B 46	-52.923	3.108	45.587	1.00	39.14		H0
ANISOU 3916 HD21 ASN B 46	6620	5040	3220	530	160	-630	H0
ATOM 3917 HD22 ASN B 46	-52.689	3.935	44.319	1.00	38.37		H0
ANISOU 3917 HD22 ASN B 46	6450	4880	3260	450	90	-650	H0
ATOM 3918 N GLU B 47	-48.744	0.100	41.223	1.00	34.70		N0
ANISOU 3918 N GLU B 47	5230	4720	3240	-20	-230	-420	N0
ATOM 3919 CA GLU B 47	-48.237	-0.310	39.888	1.00	34.32		C0
ANISOU 3919 CA GLU B 47	5000	4710	3330	-100	-250	-380	C0
ATOM 3920 C GLU B 47	-48.169	-1.837	39.812	1.00	34.61		C0
ANISOU 3920 C GLU B 47	4950	4820	3390	-70	-190	-310	C0
ATOM 3921 O GLU B 47	-47.808	-2.476	40.832	1.00	34.26		O0
ANISOU 3921 O GLU B 47	4970	4800	3250	-20	-220	-290	O0
ATOM 3922 CB GLU B 47	-46.874	0.321	39.608	1.00	35.29		C0
ANISOU 3922 CB GLU B 47	5090	4840	3480	-220	-400	-400	C0
ATOM 3923 CG GLU B 47	-46.934	1.832	39.468	1.00	36.31		C0
ANISOU 3923 CG GLU B 47	5320	4870	3600	-280	-450	-470	C0
ATOM 3924 CD GLU B 47	-45.578	2.503	39.360	1.00	37.97		C0
ANISOU 3924 CD GLU B 47	5510	5090	3820	-420	-600	-490	C0
ATOM 3925 OE1 GLU B 47	-45.502	3.723	39.606	1.00	39.66		O0
ANISOU 3925 OE1 GLU B 47	5870	5200	4000	-480	-660	-560	O0
ATOM 3926 OE2 GLU B 47	-44.602	1.807	39.015	1.00	38.81		O0
ANISOU 3926 OE2 GLU B 47	5460	5300	3980	-470	-660	-450	O0
ATOM 3927 H GLU B 47	-48.309	-0.301	41.915	1.00	35.32		H0
ANISOU 3927 H GLU B 47	5350	4820	3250	-10	-270	-420	H0
ATOM 3928 HA GLU B 47	-48.872	0.007	39.211	1.00	33.97		H0
ANISOU 3928 HA GLU B 47	4920	4640	3340	-100	-190	-380	H0
ATOM 3929 HB2 GLU B 47	-46.265	0.091	40.340	1.00	35.92		H0
ANISOU 3929 HB2 GLU B 47	5200	4960	3490	-210	-470	-410	H0
ATOM 3930 HB3 GLU B 47	-46.514	-0.063	38.781	1.00	34.62		H0
ANISOU 3930 HB3 GLU B 47	4880	4800	3470	-250	-400	-370	H0
ATOM 3931 HG2 GLU B 47	-47.456	2.057	38.669	1.00	35.80		H0
ANISOU 3931 HG2 GLU B 47	5220	4780	3600	-270	-390	-450	H0
ATOM 3932 HG3 GLU B 47	-47.403	2.206	40.242	1.00	37.05		H0
ANISOU 3932 HG3 GLU B 47	5550	4920	3610	-220	-430	-500	H0
ATOM 3933 N VAL B 48	-48.526	-2.383	38.641	1.00	34.68		N0
ANISOU 3933 N VAL B 48	4830	4840	3510	-90	-130	-270	N0
ATOM 3934 CA VAL B 48	-48.532	-3.842	38.328	1.00	35.12		C0
ANISOU 3934 CA VAL B 48	4810	4930	3600	-70	-60	-210	C0
ATOM 3935 C VAL B 48	-47.858	-4.055	36.969	1.00	35.06		C0
ANISOU 3935 C VAL B 48	4670	4950	3700	-130	-100	-200	C0
ATOM 3936 O VAL B 48	-48.094	-3.257	36.058	1.00	35.30		O0
ANISOU 3936 O VAL B 48	4660	4970	3790	-180	-100	-220	O0
ATOM 3937 CB VAL B 48	-49.960	-4.424	38.329	1.00	35.34		C0
ANISOU 3937 CB VAL B 48	4840	4940	3640	-40	80	-190	C0
ATOM 3938 CG1 VAL B 48	-50.696	-4.131	39.625	1.00	36.57		C0
ANISOU 3938 CG1 VAL B 48	5120	5080	3690	30	140	-200	C0
ATOM 3939 CG2 VAL B 48	-50.773	-3.934	37.141	1.00	35.33		C0

ANISOU 3939 CG2 VAL B 48	4750	4940	3730	-80	120	-210	C0
ATOM 3940 H VAL B 48	-48.795	-1.873	37.936	1.00	34.26		H0
ANISOU 3940 H VAL B 48	4740	4770	3510	-120	-120	-280	H0
ATOM 3941 HA VAL B 48	-48.012	-4.302	39.008	1.00	35.66		H0
ANISOU 3941 HA VAL B 48	4920	5020	3610	-40	-100	-200	H0
ATOM 3942 HB VAL B 48	-49.876	-5.407	38.248	1.00	35.36		H0
ANISOU 3942 HB VAL B 48	4830	4950	3660	-40	110	-160	H0
ATOM 3943 HG11 VAL B 48	-50.132	-4.370	40.381	1.00	36.99		H0
ANISOU 3943 HG11 VAL B 48	5250	5140	3670	50	100	-200	H0
ATOM 3944 HG12 VAL B 48	-51.518	-4.651	39.657	1.00	36.50		H0
ANISOU 3944 HG12 VAL B 48	5100	5080	3690	40	230	-180	H0
ATOM 3945 HG13 VAL B 48	-50.911	-3.183	39.668	1.00	36.61		H0
ANISOU 3945 HG13 VAL B 48	5160	5070	3680	30	120	-240	H0
ATOM 3946 HG21 VAL B 48	-50.642	-2.977	37.032	1.00	35.18		H0
ANISOU 3946 HG21 VAL B 48	4750	4910	3710	-80	70	-240	H0
ATOM 3947 HG22 VAL B 48	-51.715	-4.116	37.297	1.00	35.28		H0
ANISOU 3947 HG22 VAL B 48	4740	4940	3720	-50	200	-200	H0
ATOM 3948 HG23 VAL B 48	-50.485	-4.396	36.335	1.00	34.63		H0
ANISOU 3948 HG23 VAL B 48	4590	4860	3700	-110	110	-190	H0
ATOM 3949 N ASP B 49	-47.052	-5.109	36.868	1.00	36.21		N0
ANISOU 3949 N ASP B 49	4770	5140	3850	-110	-110	-160	N0
ATOM 3950 CA ASP B 49	-46.424	-5.616	35.624	1.00	36.96		C0
ANISOU 3950 CA ASP B 49	4750	5260	4030	-130	-110	-130	C0
ATOM 3951 C ASP B 49	-47.208	-6.868	35.244	1.00	36.46		C0
ANISOU 3951 C ASP B 49	4700	5160	3990	-100	-10	-110	C0
ATOM 3952 O ASP B 49	-47.251	-7.791	36.074	1.00	36.55		O0
ANISOU 3952 O ASP B 49	4790	5150	3940	-50	30	-70	O0
ATOM 3953 CB ASP B 49	-44.942	-5.906	35.879	1.00	39.84		C0
ANISOU 3953 CB ASP B 49	5070	5700	4370	-110	-210	-110	C0
ATOM 3954 CG ASP B 49	-44.031	-5.825	34.672	1.00	40.31		C0
ANISOU 3954 CG ASP B 49	4990	5820	4500	-140	-230	-90	C0
ATOM 3955 OD1 ASP B 49	-44.488	-6.137	33.562	1.00	43.35		O0
ANISOU 3955 OD1 ASP B 49	5350	6180	4950	-150	-160	-90	O0
ATOM 3956 OD2 ASP B 49	-42.854	-5.489	34.864	1.00	42.70		O0
ANISOU 3956 OD2 ASP B 49	5220	6200	4800	-160	-320	-80	O0
ATOM 3957 H ASP B 49	-46.828	-5.608	37.597	1.00	36.71		H0
ANISOU 3957 H ASP B 49	4880	5210	3860	-60	-120	-140	H0
ATOM 3958 HA ASP B 49	-46.513	-4.939	34.913	1.00	36.74		H0
ANISOU 3958 HA ASP B 49	4680	5230	4040	-180	-120	-150	H0
ATOM 3959 HB2 ASP B 49	-44.611	-5.281	36.548	1.00	40.01		H0
ANISOU 3959 HB2 ASP B 49	5120	5740	4350	-120	-280	-130	H0
ATOM 3960 HB3 ASP B 49	-44.860	-6.808	36.248	1.00	39.73		H0
ANISOU 3960 HB3 ASP B 49	5080	5690	4330	-40	-180	-80	H0
ATOM 3961 N VAL B 50	-47.871	-6.867	34.085	1.00	35.91		N0
ANISOU 3961 N VAL B 50	4580	5080	3990	-150	40	-120	N0
ATOM 3962 CA VAL B 50	-48.745	-7.990	33.635	1.00	35.63		C0
ANISOU 3962 CA VAL B 50	4560	5000	3970	-160	140	-110	C0
ATOM 3963 C VAL B 50	-48.327	-8.444	32.225	1.00	34.69		C0
ANISOU 3963 C VAL B 50	4380	4890	3910	-180	140	-110	C0
ATOM 3964 O VAL B 50	-47.925	-7.590	31.406	1.00	32.12		O0
ANISOU 3964 O VAL B 50	3980	4600	3620	-200	90	-120	O0
ATOM 3965 CB VAL B 50	-50.238	-7.609	33.691	1.00	36.13		C0
ANISOU 3965 CB VAL B 50	4620	5050	4050	-200	200	-130	C0
ATOM 3966 CG1 VAL B 50	-50.724	-7.413	35.117	1.00	37.38		C0

ANISOU 3966 CG1 VAL B 50	4860	5200	4140	-160	230	-120	C0
ATOM 3967 CG2 VAL B 50	-50.550	-6.381	32.863	1.00	36.09		C0
ANISOU 3967 CG2 VAL B 50	4550	5080	4090	-220	160	-160	C0
ATOM 3968 H VAL B 50	-47.819	-6.181	33.488	1.00	35.57		H0
ANISOU 3968 H VAL B 50	4490	5050	3970	-180	20	-130	H0
ATOM 3969 HA VAL B 50	-48.606	-8.739	34.242	1.00	36.06		H0
ANISOU 3969 HA VAL B 50	4670	5040	3990	-120	160	-80	H0
ATOM 3970 HB VAL B 50	-50.747	-8.364	33.305	1.00	36.27		H0
ANISOU 3970 HB VAL B 50	4630	5050	4090	-220	250	-120	H0
ATOM 3971 HG11 VAL B 50	-50.513	-8.203	35.643	1.00	37.54		H0
ANISOU 3971 HG11 VAL B 50	4930	5200	4130	-140	260	-90	H0
ATOM 3972 HG12 VAL B 50	-51.687	-7.272	35.116	1.00	37.25		H0
ANISOU 3972 HG12 VAL B 50	4830	5190	4140	-180	290	-120	H0
ATOM 3973 HG13 VAL B 50	-50.284	-6.637	35.506	1.00	37.23		H0
ANISOU 3973 HG13 VAL B 50	4860	5200	4090	-140	180	-130	H0
ATOM 3974 HG21 VAL B 50	-50.051	-5.622	33.208	1.00	35.98		H0
ANISOU 3974 HG21 VAL B 50	4550	5070	4050	-210	110	-170	H0
ATOM 3975 HG22 VAL B 50	-51.503	-6.190	32.913	1.00	36.04		H0
ANISOU 3975 HG22 VAL B 50	4530	5070	4090	-230	200	-170	H0
ATOM 3976 HG23 VAL B 50	-50.301	-6.538	31.937	1.00	35.62		H0
ANISOU 3976 HG23 VAL B 50	4450	5030	4060	-250	150	-160	H0
ATOM 3977 N VAL B 51	-48.419	-9.754	31.981	1.00	33.98		N0
ANISOU 3977 N VAL B 51	4330	4750	3820	-160	190	-90	N0
ATOM 3978 CA VAL B 51	-48.334	-10.386	30.634	1.00	33.39		C0
ANISOU 3978 CA VAL B 51	4240	4660	3780	-180	220	-110	C0
ATOM 3979 C VAL B 51	-49.744	-10.843	30.254	1.00	32.93		C0
ANISOU 3979 C VAL B 51	4210	4560	3750	-260	270	-130	C0
ATOM 3980 O VAL B 51	-50.382	-11.559	31.054	1.00	33.23		O0
ANISOU 3980 O VAL B 51	4310	4540	3770	-280	330	-120	O0
ATOM 3981 CB VAL B 51	-47.330	-11.554	30.594	1.00	33.97		C0
ANISOU 3981 CB VAL B 51	4380	4700	3830	-90	230	-80	C0
ATOM 3982 CG1 VAL B 51	-47.125	-12.060	29.169	1.00	34.19		C0
ANISOU 3982 CG1 VAL B 51	4400	4720	3880	-90	260	-100	C0
ATOM 3983 CG2 VAL B 51	-45.994	-11.173	31.219	1.00	33.96		C0
ANISOU 3983 CG2 VAL B 51	4330	4780	3800	-10	170	-40	C0
ATOM 3984 H VAL B 51	-48.544	-10.362	32.647	1.00	34.50		H0
ANISOU 3984 H VAL B 51	4460	4790	3860	-140	220	-70	H0
ATOM 3985 HA VAL B 51	-48.046	-9.712	29.998	1.00	33.04		H0
ANISOU 3985 HA VAL B 51	4140	4660	3760	-190	180	-120	H0
ATOM 3986 HB VAL B 51	-47.713	-12.294	31.126	1.00	34.37		H0
ANISOU 3986 HB VAL B 51	4510	4690	3860	-90	280	-70	H0
ATOM 3987 HG11 VAL B 51	-47.936	-12.500	28.859	1.00	34.22		H0
ANISOU 3987 HG11 VAL B 51	4450	4670	3890	-150	290	-130	H0
ATOM 3988 HG12 VAL B 51	-46.388	-12.695	29.151	1.00	34.62		H0
ANISOU 3988 HG12 VAL B 51	4490	4760	3910	-20	270	-80	H0
ATOM 3989 HG13 VAL B 51	-46.921	-11.311	28.583	1.00	33.76		H0
ANISOU 3989 HG13 VAL B 51	4270	4720	3840	-110	230	-110	H0
ATOM 3990 HG21 VAL B 51	-45.666	-10.353	30.812	1.00	33.75		H0
ANISOU 3990 HG21 VAL B 51	4220	4810	3790	-30	130	-50	H0
ATOM 3991 HG22 VAL B 51	-45.350	-11.887	31.072	1.00	34.55		H0
ANISOU 3991 HG22 VAL B 51	4420	4840	3860	60	180	-20	H0
ATOM 3992 HG23 VAL B 51	-46.110	-11.036	32.175	1.00	34.25		H0
ANISOU 3992 HG23 VAL B 51	4400	4810	3810	0	160	-30	H0
ATOM 3993 N PHE B 52	-50.219	-10.418	29.084	1.00	32.39		N0

ANISOU 3993 N PHE B 52	4070	4520	3710	-310	250	-170	N0
ATOM 3994 CA PHE B 52	-51.577	-10.716	28.568	1.00	32.39		C0
ANISOU 3994 CA PHE B 52	4060	4510	3740	-400	280	-200	C0
ATOM 3995 C PHE B 52	-51.541	-10.797	27.044	1.00	31.98		C0
ANISOU 3995 C PHE B 52	3980	4470	3690	-430	250	-240	C0
ATOM 3996 O PHE B 52	-50.749	-10.061	26.423	1.00	30.41		O0
ANISOU 3996 O PHE B 52	3750	4320	3490	-380	210	-230	O0
ATOM 3997 CB PHE B 52	-52.569	-9.634	29.009	1.00	32.32		C0
ANISOU 3997 CB PHE B 52	3970	4560	3750	-430	280	-200	C0
ATOM 3998 CG PHE B 52	-52.160	-8.224	28.667	1.00	31.62		C0
ANISOU 3998 CG PHE B 52	3830	4530	3660	-380	220	-200	C0
ATOM 3999 CD1 PHE B 52	-51.257	-7.531	29.459	1.00	31.94		C0
ANISOU 3999 CD1 PHE B 52	3890	4570	3680	-330	190	-180	C0
ATOM 4000 CD2 PHE B 52	-52.675	-7.583	27.552	1.00	31.52		C0
ANISOU 4000 CD2 PHE B 52	3750	4560	3660	-400	180	-230	C0
ATOM 4001 CE1 PHE B 52	-50.878	-6.235	29.141	1.00	31.18		C0
ANISOU 4001 CE1 PHE B 52	3760	4500	3580	-310	140	-190	C0
ATOM 4002 CE2 PHE B 52	-52.302	-6.284	27.243	1.00	30.76		C0
ANISOU 4002 CE2 PHE B 52	3630	4490	3560	-370	140	-220	C0
ATOM 4003 CZ PHE B 52	-51.410	-5.610	28.039	1.00	30.54		C0
ANISOU 4003 CZ PHE B 52	3640	4450	3520	-330	120	-200	C0
ATOM 4004 H PHE B 52	-49.734	-9.903	28.509	1.00	32.10		H0
ANISOU 4004 H PHE B 52	4000	4520	3680	-300	220	-170	H0
ATOM 4005 HA PHE B 52	-51.871	-11.589	28.928	1.00	32.89		H0
ANISOU 4005 HA PHE B 52	4180	4520	3800	-430	330	-190	H0
ATOM 4006 HB2 PHE B 52	-53.435	-9.821	28.590	1.00	32.56		H0
ANISOU 4006 HB2 PHE B 52	3970	4610	3800	-480	290	-220	H0
ATOM 4007 HB3 PHE B 52	-52.686	-9.701	29.979	1.00	32.46		H0
ANISOU 4007 HB3 PHE B 52	4020	4570	3750	-410	310	-180	H0
ATOM 4008 HD1 PHE B 52	-50.890	-7.952	30.220	1.00	31.85		H0
ANISOU 4008 HD1 PHE B 52	3920	4540	3640	-310	200	-170	H0
ATOM 4009 HD2 PHE B 52	-53.295	-8.035	27.002	1.00	31.71		H0
ANISOU 4009 HD2 PHE B 52	3760	4590	3700	-450	190	-240	H0
ATOM 4010 HE1 PHE B 52	-50.263	-5.777	29.691	1.00	31.17		H0
ANISOU 4010 HE1 PHE B 52	3780	4500	3560	-300	110	-180	H0
ATOM 4011 HE2 PHE B 52	-52.665	-5.862	26.482	1.00	30.92		H0
ANISOU 4011 HE2 PHE B 52	3620	4540	3590	-370	110	-230	H0
ATOM 4012 HZ PHE B 52	-51.151	-4.729	27.821	1.00	30.61		H0
ANISOU 4012 HZ PHE B 52	3640	4460	3530	-320	90	-200	H0
ATOM 4013 N TRP B 53	-52.385	-11.659	26.470	1.00	32.71		N0
ANISOU 4013 N TRP B 53	4110	4530	3790	-510	270	-270	N0
ATOM 4014 CA TRP B 53	-52.742	-11.620	25.029	1.00	32.70		C0
ANISOU 4014 CA TRP B 53	4080	4560	3790	-560	230	-320	C0
ATOM 4015 C TRP B 53	-53.785	-10.521	24.857	1.00	32.55		C0
ANISOU 4015 C TRP B 53	3940	4640	3790	-590	190	-330	C0
ATOM 4016 O TRP B 53	-54.814	-10.577	25.562	1.00	33.86		O0
ANISOU 4016 O TRP B 53	4050	4820	3990	-650	210	-320	O0
ATOM 4017 CB TRP B 53	-53.286	-12.956	24.511	1.00	33.70		C0
ANISOU 4017 CB TRP B 53	4290	4600	3910	-650	250	-370	C0
ATOM 4018 CG TRP B 53	-52.431	-14.153	24.778	1.00	34.16		C0
ANISOU 4018 CG TRP B 53	4500	4540	3940	-610	300	-360	C0
ATOM 4019 CD1 TRP B 53	-51.097	-14.187	25.063	1.00	33.64		C0
ANISOU 4019 CD1 TRP B 53	4480	4460	3840	-470	320	-320	C0
ATOM 4020 CD2 TRP B 53	-52.873	-15.520	24.743	1.00	35.31		C0

ANISOU 4020	CD2 TRP B 53	4780	4560	4070	-690	340	-390	C0
ATOM 4021	NE1 TRP B 53	-50.686	-15.483	25.229	1.00	34.56		N0
ANISOU 4021	NE1 TRP B 53	4750	4450	3930	-440	370	-320	N0
ATOM 4022	CE2 TRP B 53	-51.750	-16.322	25.035	1.00	35.35		C0
ANISOU 4022	CE2 TRP B 53	4930	4460	4040	-580	390	-370	C0
ATOM 4023	CE3 TRP B 53	-54.109	-16.136	24.515	1.00	36.67		C0
ANISOU 4023	CE3 TRP B 53	4970	4700	4270	-860	340	-440	C0
ATOM 4024	CZ2 TRP B 53	-51.830	-17.712	25.097	1.00	36.96		C0
ANISOU 4024	CZ2 TRP B 53	5320	4510	4220	-620	440	-380	C0
ATOM 4025	CZ3 TRP B 53	-54.189	-17.510	24.580	1.00	37.95		C0
ANISOU 4025	CZ3 TRP B 53	5310	4700	4410	-930	380	-460	C0
ATOM 4026	CH2 TRP B 53	-53.063	-18.283	24.867	1.00	38.20		C0
ANISOU 4026	CH2 TRP B 53	5510	4610	4400	-800	440	-430	C0
ATOM 4027	H TRP B 53	-52.802	-12.326	26.930	1.00	33.12		H0
ANISOU 4027	H TRP B 53	4200	4540	3850	-550	310	-270	H0
ATOM 4028	HA TRP B 53	-51.935	-11.392	24.515	1.00	32.45		H0
ANISOU 4028	HA TRP B 53	4060	4530	3740	-500	210	-320	H0
ATOM 4029	HB2 TRP B 53	-54.165	-13.102	24.917	1.00	34.10		H0
ANISOU 4029	HB2 TRP B 53	4310	4660	3980	-730	260	-370	H0
ATOM 4030	HB3 TRP B 53	-53.418	-12.873	23.545	1.00	33.86		H0
ANISOU 4030	HB3 TRP B 53	4310	4650	3910	-670	210	-400	H0
ATOM 4031	HD1 TRP B 53	-50.534	-13.432	25.141	1.00	33.11		H0
ANISOU 4031	HD1 TRP B 53	4350	4450	3780	-410	300	-300	H0
ATOM 4032	HE1 TRP B 53	-49.873	-15.731	25.417	1.00	34.65		H0
ANISOU 4032	HE1 TRP B 53	4810	4440	3920	-350	390	-300	H0
ATOM 4033	HE3 TRP B 53	-54.873	-15.618	24.320	1.00	36.54		H0
ANISOU 4033	HE3 TRP B 53	4840	4770	4280	-930	300	-450	H0
ATOM 4034	HZ2 TRP B 53	-51.074	-18.236	25.297	1.00	37.24		H0
ANISOU 4034	HZ2 TRP B 53	5450	4470	4230	-520	480	-360	H0
ATOM 4035	HZ3 TRP B 53	-55.016	-17.937	24.421	1.00	38.80		H0
ANISOU 4035	HZ3 TRP B 53	5420	4790	4540	-1060	380	-490	H0
ATOM 4036	HH2 TRP B 53	-53.147	-19.216	24.904	1.00	39.13		H0
ANISOU 4036	HH2 TRP B 53	5760	4600	4500	-850	480	-450	H0
ATOM 4037	N GLN B 54	-53.504	-9.543	24.002	1.00	31.91		N0
ANISOU 4037	N GLN B 54	3810	4610	3700	-540	140	-330	N0
ATOM 4038	CA GLN B 54	-54.476	-8.498	23.604	1.00	32.61		C0
ANISOU 4038	CA GLN B 54	3800	4790	3800	-550	90	-330	C0
ATOM 4039	C GLN B 54	-55.198	-9.016	22.362	1.00	33.53		C0
ANISOU 4039	C GLN B 54	3910	4940	3890	-620	40	-380	C0
ATOM 4040	O GLN B 54	-54.755	-8.697	21.229	1.00	33.71		O0
ANISOU 4040	O GLN B 54	3960	4980	3870	-580	0	-390	O0
ATOM 4041	CB GLN B 54	-53.756	-7.173	23.380	1.00	32.70		C0
ANISOU 4041	CB GLN B 54	3800	4830	3790	-470	60	-290	C0
ATOM 4042	CG GLN B 54	-54.694	-6.010	23.118	1.00	33.47		C0
ANISOU 4042	CG GLN B 54	3830	5000	3890	-430	20	-280	C0
ATOM 4043	CD GLN B 54	-54.010	-4.702	23.419	1.00	34.67		C0
ANISOU 4043	CD GLN B 54	4010	5130	4040	-360	20	-240	C0
ATOM 4044	OE1 GLN B 54	-53.494	-4.484	24.520	1.00	36.26		O0
ANISOU 4044	OE1 GLN B 54	4240	5290	4250	-350	40	-230	O0
ATOM 4045	NE2 GLN B 54	-53.988	-3.818	22.436	1.00	35.11		N0
ANISOU 4045	NE2 GLN B 54	4070	5210	4070	-330	-20	-230	N0
ATOM 4046	H GLN B 54	-52.689	-9.457	23.605	1.00	31.87		H0
ANISOU 4046	H GLN B 54	3840	4600	3670	-500	130	-320	H0
ATOM 4047	HA GLN B 54	-55.133	-8.385	24.330	1.00	32.81		H0

ANISOU 4047 HA GLN B 54	3790	4840	3850	-560	110	-320	H0
ATOM 4048 HB2 GLN B 54	-53.214	-6.978	24.172	1.00	32.32		H0
ANISOU 4048 HB2 GLN B 54	3780	4750	3750	-440	90	-270	H0
ATOM 4049 HB3 GLN B 54	-53.147	-7.272	22.618	1.00	32.62		H0
ANISOU 4049 HB3 GLN B 54	3830	4810	3760	-450	50	-300	H0
ATOM 4050 HG2 GLN B 54	-54.980	-6.024	22.179	1.00	34.06		H0
ANISOU 4050 HG2 GLN B 54	3890	5100	3940	-440	-10	-300	H0
ATOM 4051 HG3 GLN B 54	-55.492	-6.098	23.682	1.00	34.02		H0
ANISOU 4051 HG3 GLN B 54	3850	5090	3980	-450	40	-290	H0
ATOM 4052 HE21 GLN B 54	-53.453	-3.115	22.486	1.00	34.86		H0
ANISOU 4052 HE21 GLN B 54	4070	5150	4030	-300	-20	-200	H0
ATOM 4053 HE22 GLN B 54	-54.508	-3.926	21.728	1.00	35.38		H0
ANISOU 4053 HE22 GLN B 54	4080	5280	4080	-330	-50	-240	H0
ATOM 4054 N GLN B 55	-56.215	-9.849	22.572	1.00	34.72		N0
ANISOU 4054 N GLN B 55	4030	5100	4070	-720	40	-410	N0
ATOM 4055 CA GLN B 55	-56.924	-10.557	21.478	1.00	37.37		C0
ANISOU 4055 CA GLN B 55	4360	5460	4380	-820	-10	-470	C0
ATOM 4056 C GLN B 55	-57.780	-9.517	20.751	1.00	37.71		C0
ANISOU 4056 C GLN B 55	4280	5640	4410	-790	-100	-470	C0
ATOM 4057 O GLN B 55	-58.698	-8.954	21.382	1.00	36.36		O0
ANISOU 4057 O GLN B 55	3980	5550	4280	-780	-90	-440	O0
ATOM 4058 CB GLN B 55	-57.711	-11.753	22.012	1.00	39.37		C0
ANISOU 4058 CB GLN B 55	4620	5670	4670	-960	20	-490	C0
ATOM 4059 CG GLN B 55	-56.819	-12.827	22.624	1.00	40.49		C0
ANISOU 4059 CG GLN B 55	4920	5660	4810	-970	100	-490	C0
ATOM 4060 CD GLN B 55	-57.602	-13.932	23.290	1.00	42.94		C0
ANISOU 4060 CD GLN B 55	5260	5900	5160	-1110	150	-500	C0
ATOM 4061 OE1 GLN B 55	-58.409	-13.694	24.188	1.00	44.69		O0
ANISOU 4061 OE1 GLN B 55	5370	6180	5430	-1160	190	-460	O0
ATOM 4062 NE2 GLN B 55	-57.363	-15.161	22.860	1.00	44.92		N0
ANISOU 4062 NE2 GLN B 55	5670	6020	5380	-1190	160	-550	N0
ATOM 4063 H GLN B 55	-56.538	-10.034	23.404	1.00	35.11		H0
ANISOU 4063 H GLN B 55	4060	5140	4150	-740	80	-390	H0
ATOM 4064 HA GLN B 55	-56.245	-10.891	20.850	1.00	37.18		H0
ANISOU 4064 HA GLN B 55	4430	5380	4310	-800	-20	-490	H0
ATOM 4065 HB2 GLN B 55	-58.345	-11.437	22.687	1.00	39.58		H0
ANISOU 4065 HB2 GLN B 55	4550	5750	4740	-980	40	-470	H0
ATOM 4066 HB3 GLN B 55	-58.226	-12.144	21.275	1.00	40.30		H0
ANISOU 4066 HB3 GLN B 55	4730	5810	4770	-1040	-30	-540	H0
ATOM 4067 HG2 GLN B 55	-56.254	-13.211	21.921	1.00	40.58		H0
ANISOU 4067 HG2 GLN B 55	5030	5610	4780	-950	80	-520	H0
ATOM 4068 HG3 GLN B 55	-56.228	-12.412	23.288	1.00	39.67		H0
ANISOU 4068 HG3 GLN B 55	4830	5540	4710	-880	140	-450	H0
ATOM 4069 HE21 GLN B 55	-57.604	-15.856	23.352	1.00	45.24		H0
ANISOU 4069 HE21 GLN B 55	5760	5990	5440	-1270	200	-540	H0
ATOM 4070 HE22 GLN B 55	-56.964	-15.290	22.081	1.00	44.59		H0
ANISOU 4070 HE22 GLN B 55	5690	5960	5300	-1170	120	-580	H0
ATOM 4071 N THR B 56	-57.437	-9.247	19.489	1.00	37.08		N0
ANISOU 4071 N THR B 56	4240	5580	4270	-750	-160	-490	N0
ATOM 4072 CA THR B 56	-58.026	-8.172	18.649	1.00	38.06		C0
ANISOU 4072 CA THR B 56	4280	5820	4350	-690	-240	-470	C0
ATOM 4073 C THR B 56	-58.502	-8.791	17.334	1.00	38.68		C0
ANISOU 4073 C THR B 56	4390	5950	4360	-760	-340	-540	C0
ATOM 4074 O THR B 56	-57.661	-9.381	16.634	1.00	38.69		O0

ANISOU 4074 O THR B 56	4530	5870	4300	-760	-330	-580	O0
ATOM 4075 CB THR B 56	-57.004	-7.046	18.444	1.00	37.61		C0
ANISOU 4075 CB THR B 56	4290	5740	4260	-560	-220	-420	C0
ATOM 4076 OG1 THR B 56	-56.463	-6.740	19.729	1.00	38.10		O0
ANISOU 4076 OG1 THR B 56	4350	5740	4380	-520	-140	-380	O0
ATOM 4077 CG2 THR B 56	-57.598	-5.794	17.846	1.00	38.75		C0
ANISOU 4077 CG2 THR B 56	4370	5980	4380	-470	-290	-380	C0
ATOM 4078 H THR B 56	-56.798	-9.719	19.042	1.00	37.35		H0
ANISOU 4078 H THR B 56	4370	5560	4260	-750	-150	-510	H0
ATOM 4079 HA THR B 56	-58.803	-7.805	19.123	1.00	38.20		H0
ANISOU 4079 HA THR B 56	4200	5910	4410	-690	-250	-460	H0
ATOM 4080 HB THR B 56	-56.283	-7.376	17.857	1.00	37.81		H0
ANISOU 4080 HB THR B 56	4400	5720	4240	-550	-220	-430	H0
ATOM 4081 HG21 THR B 56	-58.050	-6.012	17.012	1.00	39.26		H0
ANISOU 4081 HG21 THR B 56	4420	6100	4400	-490	-350	-410	H0
ATOM 4082 HG22 THR B 56	-56.889	-5.149	17.670	1.00	38.01		H0
ANISOU 4082 HG22 THR B 56	4330	5850	4260	-400	-270	-350	H0
ATOM 4083 HG23 THR B 56	-58.239	-5.407	18.469	1.00	38.63		H0
ANISOU 4083 HG23 THR B 56	4270	6010	4400	-450	-290	-360	H0
ATOM 4084 N THR B 57	-59.799	-8.697	17.035	1.00	39.61		N0
ANISOU 4084 N THR B 57	4370	6190	4490	-810	-430	-560	N0
ATOM 4085 CA THR B 57	-60.405	-9.201	15.773	1.00	40.73		C0
ANISOU 4085 CA THR B 57	4520	6410	4550	-890	-550	-630	C0
ATOM 4086 C THR B 57	-61.237	-8.083	15.144	1.00	40.74		C0
ANISOU 4086 C THR B 57	4390	6580	4520	-800	-650	-600	C0
ATOM 4087 O THR B 57	-61.809	-7.267	15.902	1.00	39.93		O0
ANISOU 4087 O THR B 57	4140	6550	4480	-730	-630	-540	O0
ATOM 4088 CB THR B 57	-61.209	-10.491	15.997	1.00	42.64		C0
ANISOU 4088 CB THR B 57	4720	6640	4840	-1100	-570	-710	C0
ATOM 4089 OG1 THR B 57	-62.258	-10.255	16.933	1.00	43.96		O0
ANISOU 4089 OG1 THR B 57	4690	6910	5100	-1140	-560	-670	O0
ATOM 4090 CG2 THR B 57	-60.361	-11.629	16.518	1.00	42.52		C0
ANISOU 4090 CG2 THR B 57	4880	6440	4840	-1170	-470	-730	C0
ATOM 4091 H THR B 57	-60.414	-8.315	17.589	1.00	39.73		H0
ANISOU 4091 H THR B 57	4270	6270	4550	-810	-420	-540	H0
ATOM 4092 HA THR B 57	-59.668	-9.409	15.159	1.00	40.54		H0
ANISOU 4092 HA THR B 57	4620	6320	4470	-870	-550	-650	H0
ATOM 4093 HB THR B 57	-61.605	-10.761	15.134	1.00	43.93		H0
ANISOU 4093 HB THR B 57	4890	6850	4940	-1150	-670	-760	H0
ATOM 4094 HG21 THR B 57	-59.601	-11.767	15.926	1.00	42.10		H0
ANISOU 4094 HG21 THR B 57	4960	6320	4720	-1120	-470	-750	H0
ATOM 4095 HG22 THR B 57	-60.894	-12.443	16.555	1.00	43.46		H0
ANISOU 4095 HG22 THR B 57	5000	6540	4980	-1310	-490	-780	H0
ATOM 4096 HG23 THR B 57	-60.039	-11.413	17.412	1.00	41.45		H0
ANISOU 4096 HG23 THR B 57	4730	6260	4760	-1120	-390	-680	H0
ATOM 4097 N TRP B 58	-61.265	-8.037	13.809	1.00	40.78		N0
ANISOU 4097 N TRP B 58	4450	6630	4410	-780	-760	-640	N0
ATOM 4098 CA TRP B 58	-62.056	-7.064	13.010	1.00	41.36		C0
ANISOU 4098 CA TRP B 58	4430	6870	4420	-680	-880	-610	C0
ATOM 4099 C TRP B 58	-62.128	-7.538	11.557	1.00	42.92		C0
ANISOU 4099 C TRP B 58	4720	7110	4480	-720	-1010	-680	C0
ATOM 4100 O TRP B 58	-61.385	-8.471	11.186	1.00	42.15		O0
ANISOU 4100 O TRP B 58	4800	6890	4330	-800	-970	-740	O0
ATOM 4101 CB TRP B 58	-61.478	-5.644	13.115	1.00	39.95		C0

ANISOU 4101 CB TRP B 58	4290	6670	4220	-480	-820	-500	C0
ATOM 4102 CG TRP B 58	-60.160	-5.453	12.431	1.00	39.03		C0
ANISOU 4102 CG TRP B 58	4370	6440	4020	-410	-770	-480	C0
ATOM 4103 CD1 TRP B 58	-59.955	-4.973	11.169	1.00	39.57		C0
ANISOU 4103 CD1 TRP B 58	4540	6540	3960	-330	-830	-470	C0
ATOM 4104 CD2 TRP B 58	-58.855	-5.742	12.966	1.00	37.29		C0
ANISOU 4104 CD2 TRP B 58	4270	6060	3840	-430	-640	-470	C0
ATOM 4105 NE1 TRP B 58	-58.618	-4.939	10.884	1.00	38.43		N0
ANISOU 4105 NE1 TRP B 58	4560	6270	3770	-290	-730	-440	N0
ATOM 4106 CE2 TRP B 58	-57.917	-5.416	11.960	1.00	37.34		C0
ANISOU 4106 CE2 TRP B 58	4430	6020	3730	-350	-620	-450	C0
ATOM 4107 CE3 TRP B 58	-58.386	-6.254	14.181	1.00	36.15		C0
ANISOU 4107 CE3 TRP B 58	4120	5820	3800	-480	-530	-480	C0
ATOM 4108 CZ2 TRP B 58	-56.544	-5.578	12.143	1.00	36.05		C0
ANISOU 4108 CZ2 TRP B 58	4380	5740	3580	-340	-500	-430	C0
ATOM 4109 CZ3 TRP B 58	-57.029	-6.413	14.362	1.00	35.09		C0
ANISOU 4109 CZ3 TRP B 58	4110	5560	3660	-460	-430	-460	C0
ATOM 4110 CH2 TRP B 58	-56.122	-6.078	13.354	1.00	35.33		C0
ANISOU 4110 CH2 TRP B 58	4260	5570	3590	-390	-410	-430	C0
ATOM 4111 H TRP B 58	-60.786	-8.615	13.292	1.00	40.98		H0
ANISOU 4111 H TRP B 58	4600	6590	4380	-820	-760	-680	H0
ATOM 4112 HA TRP B 58	-62.970	-7.046	13.380	1.00	42.22		H0
ANISOU 4112 HA TRP B 58	4380	7080	4580	-720	-920	-600	H0
ATOM 4113 HB2 TRP B 58	-62.128	-5.021	12.731	1.00	40.87		H0
ANISOU 4113 HB2 TRP B 58	4330	6890	4310	-410	-900	-480	H0
ATOM 4114 HB3 TRP B 58	-61.379	-5.422	14.063	1.00	39.19		H0
ANISOU 4114 HB3 TRP B 58	4150	6530	4210	-460	-740	-470	H0
ATOM 4115 HD1 TRP B 58	-60.636	-4.694	10.575	1.00	40.67		H0
ANISOU 4115 HD1 TRP B 58	4630	6780	4040	-290	-930	-470	H0
ATOM 4116 HE1 TRP B 58	-58.272	-4.672	10.130	1.00	38.92		H0
ANISOU 4116 HE1 TRP B 58	4710	6340	3740	-240	-740	-430	H0
ATOM 4117 HE3 TRP B 58	-58.990	-6.485	14.867	1.00	36.29		H0
ANISOU 4117 HE3 TRP B 58	4050	5860	3880	-530	-530	-490	H0
ATOM 4118 HZ2 TRP B 58	-55.932	-5.350	11.467	1.00	36.30		H0
ANISOU 4118 HZ2 TRP B 58	4500	5760	3540	-290	-480	-410	H0
ATOM 4119 HZ3 TRP B 58	-56.706	-6.756	15.180	1.00	34.50		H0
ANISOU 4119 HZ3 TRP B 58	4030	5430	3650	-490	-370	-460	H0
ATOM 4120 HH2 TRP B 58	-55.201	-6.196	13.506	1.00	34.60		H0
ANISOU 4120 HH2 TRP B 58	4230	5410	3510	-380	-340	-420	H0
ATOM 4121 N SER B 59	-63.015	-6.919	10.781	1.00	44.67		N0
ANISOU 4121 N SER B 59	4840	7500	4630	-650	-1150	-670	N0
ATOM 4122 CA SER B 59	-63.226	-7.205	9.342	1.00	46.81		C0
ANISOU 4122 CA SER B 59	5200	7840	4740	-670	-1290	-730	C0
ATOM 4123 C SER B 59	-62.543	-6.120	8.503	1.00	46.45		C0
ANISOU 4123 C SER B 59	5290	7790	4570	-470	-1290	-650	C0
ATOM 4124 O SER B 59	-62.748	-4.920	8.795	1.00	45.96		O0
ANISOU 4124 O SER B 59	5150	7780	4530	-310	-1270	-550	O0
ATOM 4125 CB SER B 59	-64.685	-7.311	9.024	1.00	49.11		C0
ANISOU 4125 CB SER B 59	5280	8350	5030	-740	-1470	-770	C0
ATOM 4126 OG SER B 59	-64.884	-7.263	7.619	1.00	52.30		O0
ANISOU 4126 OG SER B 59	5770	8850	5260	-710	-1630	-810	O0
ATOM 4127 H SER B 59	-63.564	-6.258	11.085	1.00	44.92		H0
ANISOU 4127 H SER B 59	4750	7620	4700	-580	-1160	-620	H0
ATOM 4128 HA SER B 59	-62.796	-8.078	9.134	1.00	46.75		H0

ANISOU 4128 HA SER B 59	5320	7740	4710	-770	-1280	-800	H0
ATOM 4129 HB2 SER B 59	-65.039	-8.158	9.380	1.00	49.95		H0
ANISOU 4129 HB2 SER B 59	5330	8450	5190	-910	-1480	-830	H0
ATOM 4130 HB3 SER B 59	-65.171	-6.570	9.452	1.00	49.43		H0
ANISOU 4130 HB3 SER B 59	5180	8480	5120	-650	-1470	-700	H0
ATOM 4131 N ASP B 60	-61.742	-6.541	7.521	1.00	46.73		N0
ANISOU 4131 N ASP B 60	5540	7740	4470	-470	-1280	-690	N0
ATOM 4132 CA ASP B 60	-61.169	-5.674	6.458	1.00	47.39		C0
ANISOU 4132 CA ASP B 60	5770	7830	4400	-300	-1290	-630	C0
ATOM 4133 C ASP B 60	-61.483	-6.335	5.112	1.00	50.19		C0
ANISOU 4133 C ASP B 60	6240	8260	4570	-350	-1440	-720	C0
ATOM 4134 O ASP B 60	-60.737	-7.244	4.708	1.00	49.28		O0
ANISOU 4134 O ASP B 60	6310	8030	4390	-420	-1390	-800	O0
ATOM 4135 CB ASP B 60	-59.671	-5.438	6.684	1.00	45.45		C0
ANISOU 4135 CB ASP B 60	5690	7420	4160	-240	-1100	-570	C0
ATOM 4136 CG ASP B 60	-59.039	-4.413	5.751	1.00	45.46		C0
ANISOU 4136 CG ASP B 60	5830	7420	4030	-80	-1070	-470	C0
ATOM 4137 OD1 ASP B 60	-59.653	-4.095	4.712	1.00	46.67		O0
ANISOU 4137 OD1 ASP B 60	6010	7680	4040	-10	-1200	-470	O0
ATOM 4138 OD2 ASP B 60	-57.932	-3.934	6.078	1.00	43.97		O0
ANISOU 4138 OD2 ASP B 60	5720	7110	3880	-20	-910	-400	O0
ATOM 4139 H ASP B 60	-61.487	-7.412	7.446	1.00	46.91		H0
ANISOU 4139 H ASP B 60	5640	7700	4480	-570	-1270	-770	H0
ATOM 4140 HA ASP B 60	-61.625	-4.801	6.491	1.00	47.69		H0
ANISOU 4140 HA ASP B 60	5730	7950	4440	-200	-1330	-560	H0
ATOM 4141 HB2 ASP B 60	-59.537	-5.134	7.604	1.00	44.29		H0
ANISOU 4141 HB2 ASP B 60	5470	7230	4130	-230	-1020	-530	H0
ATOM 4142 HB3 ASP B 60	-59.197	-6.286	6.574	1.00	45.35		H0
ANISOU 4142 HB3 ASP B 60	5770	7330	4130	-310	-1060	-630	H0
ATOM 4143 N ARG B 61	-62.564	-5.895	4.462	1.00	53.60		N0
ANISOU 4143 N ARG B 61	6570	8880	4920	-300	-1620	-720	N0
ATOM 4144 CA ARG B 61	-63.091	-6.483	3.203	1.00	57.26		C0
ANISOU 4144 CA ARG B 61	7110	9450	5200	-360	-1810	-820	C0
ATOM 4145 C ARG B 61	-62.120	-6.208	2.046	1.00	57.43		C0
ANISOU 4145 C ARG B 61	7410	9400	5010	-230	-1760	-800	C0
ATOM 4146 O ARG B 61	-62.254	-6.883	1.014	1.00	58.76		O0
ANISOU 4146 O ARG B 61	7710	9600	5010	-280	-1880	-900	O0
ATOM 4147 CB ARG B 61	-64.486	-5.926	2.908	1.00	60.89		C0
ANISOU 4147 CB ARG B 61	7360	10150	5630	-310	-2010	-800	C0
ATOM 4148 CG ARG B 61	-65.541	-6.310	3.939	1.00	62.43		C0
ANISOU 4148 CG ARG B 61	7260	10440	6010	-460	-2060	-840	C0
ATOM 4149 CD ARG B 61	-65.898	-7.786	3.900	1.00	64.72		C0
ANISOU 4149 CD ARG B 61	7550	10720	6320	-730	-2140	-990	C0
ATOM 4150 NE ARG B 61	-66.398	-8.201	2.591	1.00	68.23		N0
ANISOU 4150 NE ARG B 61	8070	11280	6570	-780	-2360	-1090	N0
ATOM 4151 CZ ARG B 61	-66.551	-9.464	2.185	1.00	70.34		C0
ANISOU 4151 CZ ARG B 61	8440	11510	6780	-1010	-2450	-1250	C0
ATOM 4152 NH1 ARG B 61	-66.243	-10.476	2.983	1.00	69.65		N0
ANISOU 4152 NH1 ARG B 61	8390	11250	6820	-1200	-2340	-1320	N0
ATOM 4153 NH2 ARG B 61	-67.013	-9.710	0.969	1.00	72.94		N0
ANISOU 4153 NH2 ARG B 61	8840	11960	6910	-1040	-2670	-1330	N0
ATOM 4154 H ARG B 61	-63.049	-5.184	4.760	1.00	53.58		H0
ANISOU 4154 H ARG B 61	6440	8950	4960	-220	-1640	-660	H0
ATOM 4155 HA ARG B 61	-63.159	-7.457	3.326	1.00	57.62		H0

ANISOU 4155 HA ARG B 61	7180	9450	5270	-510	-1820	-920	H0
ATOM 4156 HB2 ARG B 61	-64.429	-4.949	2.865	1.00	60.47		H0
ANISOU 4156 HB2 ARG B 61	7290	10120	5560	-150	-1990	-700	H0
ATOM 4157 HB3 ARG B 61	-64.770	-6.248	2.028	1.00	62.44		H0
ANISOU 4157 HB3 ARG B 61	7620	10420	5690	-340	-2150	-870	H0
ATOM 4158 HG2 ARG B 61	-65.212	-6.087	4.836	1.00	60.74		H0
ANISOU 4158 HG2 ARG B 61	7010	10150	5930	-440	-1930	-780	H0
ATOM 4159 HG3 ARG B 61	-66.353	-5.784	3.779	1.00	63.61		H0
ANISOU 4159 HG3 ARG B 61	7260	10760	6150	-390	-2180	-800	H0
ATOM 4160 HD2 ARG B 61	-65.104	-8.315	4.125	1.00	63.46		H0
ANISOU 4160 HD2 ARG B 61	7540	10390	6180	-780	-2020	-1020	H0
ATOM 4161 HD3 ARG B 61	-66.583	-7.970	4.579	1.00	64.94		H0
ANISOU 4161 HD3 ARG B 61	7380	10820	6470	-820	-2160	-1000	H0
ATOM 4162 HE ARG B 61	-66.618	-7.572	2.027	1.00	68.98		H0
ANISOU 4162 HE ARG B 61	8160	11480	6570	-650	-2440	-1050	H0
ATOM 4163 HH11 ARG B 61	-65.935	-10.325	3.791	1.00	67.93		H0
ANISOU 4163 HH11 ARG B 61	8120	10960	6730	-1170	-2200	-1260	H0
ATOM 4164 HH12 ARG B 61	-66.348	-11.302	2.701	1.00	70.64		H0
ANISOU 4164 HH12 ARG B 61	8600	11340	6910	-1340	-2400	-1420	H0
ATOM 4165 HH21 ARG B 61	-67.221	-9.041	0.434	1.00	73.59		H0
ANISOU 4165 HH21 ARG B 61	8910	12150	6900	-900	-2750	-1280	H0
ATOM 4166 HH22 ARG B 61	-67.116	-10.542	0.697	1.00	73.99		H0
ANISOU 4166 HH22 ARG B 61	9060	12050	7000	-1190	-2730	-1440	H0
ATOM 4167 N THR B 62	-61.171	-5.277	2.215	1.00	56.01		N0
ANISOU 4167 N THR B 62	7310	9120	4850	-70	-1590	-670	N0
ATOM 4168 CA THR B 62	-60.105	-4.973	1.219	1.00	56.38		C0
ANISOU 4168 CA THR B 62	7610	9100	4720	40	-1500	-620	C0
ATOM 4169 C THR B 62	-59.153	-6.170	1.098	1.00	55.55		C0
ANISOU 4169 C THR B 62	7670	8850	4580	-50	-1390	-720	C0
ATOM 4170 O THR B 62	-58.545	-6.320	0.020	1.00	57.12		O0
ANISOU 4170 O THR B 62	8090	9030	4590	10	-1370	-740	O0
ATOM 4171 CB THR B 62	-59.316	-3.702	1.565	1.00	55.38		C0
ANISOU 4171 CB THR B 62	7510	8890	4640	190	-1340	-460	C0
ATOM 4172 OG1 THR B 62	-58.489	-3.965	2.699	1.00	53.33		O0
ANISOU 4172 OG1 THR B 62	7210	8490	4560	120	-1160	-450	O0
ATOM 4173 CG2 THR B 62	-60.201	-2.504	1.835	1.00	56.08		C0
ANISOU 4173 CG2 THR B 62	7450	9090	4770	310	-1420	-350	C0
ATOM 4174 H THR B 62	-61.111	-4.757	2.958	1.00	54.89		H0
ANISOU 4174 H THR B 62	7080	8960	4820	-40	-1520	-600	H0
ATOM 4175 HA THR B 62	-60.542	-4.837	0.347	1.00	57.94		H0
ANISOU 4175 HA THR B 62	7860	9390	4770	90	-1620	-630	H0
ATOM 4176 HB THR B 62	-58.733	-3.490	0.797	1.00	55.87		H0
ANISOU 4176 HB THR B 62	7730	8930	4570	260	-1290	-420	H0
ATOM 4177 HG21 THR B 62	-60.905	-2.461	1.163	1.00	57.57		H0
ANISOU 4177 HG21 THR B 62	7630	9390	4850	350	-1570	-370	H0
ATOM 4178 HG22 THR B 62	-59.667	-1.690	1.796	1.00	55.51		H0
ANISOU 4178 HG22 THR B 62	7450	8950	4690	410	-1330	-250	H0
ATOM 4179 HG23 THR B 62	-60.601	-2.585	2.719	1.00	55.23		H0
ANISOU 4179 HG23 THR B 62	7190	8980	4810	250	-1420	-370	H0
ATOM 4180 N LEU B 63	-59.031	-6.975	2.159	1.00	53.38		N0
ANISOU 4180 N LEU B 63	7320	8480	4480	-190	-1320	-780	N0
ATOM 4181 CA LEU B 63	-58.140	-8.164	2.231	1.00	52.88		C0
ANISOU 4181 CA LEU B 63	7410	8270	4410	-270	-1210	-870	C0
ATOM 4182 C LEU B 63	-58.817	-9.376	1.573	1.00	54.72		C0

ANISOU 4182 C LEU B 63	7730	8520	4540	-410	-1360	-1040	C0
ATOM 4183 O LEU B 63	-58.087	-10.252	1.089	1.00	55.84		O0
ANISOU 4183 O LEU B 63	8090	8550	4580	-420	-1290	-1120	O0
ATOM 4184 CB LEU B 63	-57.810	-8.463	3.698	1.00	51.08		C0
ANISOU 4184 CB LEU B 63	7060	7940	4420	-350	-1080	-850	C0
ATOM 4185 CG LEU B 63	-57.148	-7.335	4.492	1.00	49.40		C0
ANISOU 4185 CG LEU B 63	6750	7690	4330	-240	-940	-710	C0
ATOM 4186 CD1 LEU B 63	-56.949	-7.746	5.942	1.00	47.92		C0
ANISOU 4186 CD1 LEU B 63	6450	7410	4340	-330	-840	-710	C0
ATOM 4187 CD2 LEU B 63	-55.816	-6.924	3.879	1.00	49.50		C0
ANISOU 4187 CD2 LEU B 63	6930	7640	4240	-120	-790	-630	C0
ATOM 4188 H LEU B 63	-59.498	-6.835	2.928	1.00	52.96		H0
ANISOU 4188 H LEU B 63	7110	8450	4560	-230	-1340	-770	H0
ATOM 4189 HA LEU B 63	-57.310	-7.962	1.741	1.00	52.81		H0
ANISOU 4189 HA LEU B 63	7530	8220	4320	-180	-1110	-830	H0
ATOM 4190 HB2 LEU B 63	-58.639	-8.712	4.152	1.00	51.34		H0
ANISOU 4190 HB2 LEU B 63	6970	8010	4530	-440	-1170	-900	H0
ATOM 4191 HB3 LEU B 63	-57.219	-9.242	3.723	1.00	50.97		H0
ANISOU 4191 HB3 LEU B 63	7150	7820	4390	-380	-1000	-910	H0
ATOM 4192 HG LEU B 63	-57.749	-6.551	4.475	1.00	49.67		H0
ANISOU 4192 HG LEU B 63	6690	7810	4370	-200	-1010	-650	H0
ATOM 4193 HD11 LEU B 63	-57.771	-8.135	6.286	1.00	48.25		H0
ANISOU 4193 HD11 LEU B 63	6400	7490	4440	-420	-930	-760	H0
ATOM 4194 HD12 LEU B 63	-56.713	-6.965	6.471	1.00	46.85		H0
ANISOU 4194 HD12 LEU B 63	6240	7280	4280	-270	-780	-620	H0
ATOM 4195 HD13 LEU B 63	-56.233	-8.403	5.997	1.00	47.58		H0
ANISOU 4195 HD13 LEU B 63	6500	7280	4290	-350	-760	-740	H0
ATOM 4196 HD21 LEU B 63	-55.241	-7.705	3.798	1.00	49.41		H0
ANISOU 4196 HD21 LEU B 63	7010	7560	4200	-140	-720	-690	H0
ATOM 4197 HD22 LEU B 63	-55.387	-6.263	4.449	1.00	48.24		H0
ANISOU 4197 HD22 LEU B 63	6710	7460	4170	-80	-700	-550	H0
ATOM 4198 HD23 LEU B 63	-55.967	-6.540	2.998	1.00	50.44		H0
ANISOU 4198 HD23 LEU B 63	7120	7820	4220	-60	-840	-610	H0
ATOM 4199 N ALA B 64	-60.153	-9.421	1.553	1.00	55.75		N0
ANISOU 4199 N ALA B 64	7710	8790	4680	-510	-1560	-1090	N0
ATOM 4200 CA ALA B 64	-60.969	-10.588	1.137	1.00	58.02		C0
ANISOU 4200 CA ALA B 64	8040	9100	4910	-700	-1740	-1260	C0
ATOM 4201 C ALA B 64	-60.532	-11.106	-0.243	1.00	59.92		C0
ANISOU 4201 C ALA B 64	8570	9310	4890	-660	-1780	-1360	C0
ATOM 4202 O ALA B 64	-60.227	-10.278	-1.126	1.00	60.71		O0
ANISOU 4202 O ALA B 64	8770	9480	4820	-480	-1790	-1280	O0
ATOM 4203 CB ALA B 64	-62.434	-10.218	1.135	1.00	59.41		C0
ANISOU 4203 CB ALA B 64	7970	9490	5110	-770	-1960	-1270	C0
ATOM 4204 H ALA B 64	-60.671	-8.718	1.807	1.00	55.68		H0
ANISOU 4204 H ALA B 64	7550	8880	4730	-470	-1610	-1030	H0
ATOM 4205 HA ALA B 64	-60.829	-11.307	1.795	1.00	57.40		H0
ANISOU 4205 HA ALA B 64	7960	8920	4930	-810	-1670	-1310	H0
ATOM 4206 HB1 ALA B 64	-62.965	-10.992	0.881	1.00	60.95		H0
ANISOU 4206 HB1 ALA B 64	8180	9710	5270	-920	-2070	-1380	H0
ATOM 4207 HB2 ALA B 64	-62.697	-9.924	2.024	1.00	58.36		H0
ANISOU 4207 HB2 ALA B 64	7660	9380	5140	-790	-1910	-1210	H0
ATOM 4208 HB3 ALA B 64	-62.587	-9.499	0.499	1.00	60.08		H0
ANISOU 4208 HB3 ALA B 64	8060	9680	5090	-650	-2020	-1210	H0
ATOM 4209 N TRP B 65	-60.517	-12.433	-0.416	1.00	60.65		N0

ANISOU 4209 N TRP B 65	8830	9280	4930	-810	-1810	-1510	N0
ATOM 4210 CA TRP B 65	-60.242	-13.118	-1.708	1.00	63.03		C0
ANISOU 4210 CA TRP B 65	9440	9540	4970	-800	-1880	-1640	C0
ATOM 4211 C TRP B 65	-61.133	-14.361	-1.836	1.00	66.07		C0
ANISOU 4211 C TRP B 65	9880	9890	5330	-1060	-2060	-1830	C0
ATOM 4212 O TRP B 65	-61.761	-14.756	-0.830	1.00	65.24		O0
ANISOU 4212 O TRP B 65	9580	9770	5440	-1240	-2080	-1850	O0
ATOM 4213 CB TRP B 65	-58.749	-13.462	-1.843	1.00	61.24		C0
ANISOU 4213 CB TRP B 65	9460	9120	4680	-660	-1630	-1630	C0
ATOM 4214 CG TRP B 65	-58.281	-14.576	-0.957	1.00	60.06		C0
ANISOU 4214 CG TRP B 65	9380	8770	4670	-770	-1500	-1690	C0
ATOM 4215 CD1 TRP B 65	-58.172	-15.898	-1.283	1.00	61.54		C0
ANISOU 4215 CD1 TRP B 65	9820	8800	4770	-880	-1510	-1860	C0
ATOM 4216 CD2 TRP B 65	-57.860	-14.469	0.414	1.00	56.96		C0
ANISOU 4216 CD2 TRP B 65	8820	8300	4530	-780	-1340	-1600	C0
ATOM 4217 NE1 TRP B 65	-57.716	-16.617	-0.211	1.00	60.05		N0
ANISOU 4217 NE1 TRP B 65	9630	8430	4750	-940	-1370	-1860	N0
ATOM 4218 CE2 TRP B 65	-57.506	-15.767	0.842	1.00	57.22		C0
ANISOU 4218 CE2 TRP B 65	9010	8130	4600	-880	-1260	-1700	C0
ATOM 4219 CE3 TRP B 65	-57.737	-13.406	1.317	1.00	54.42		C0
ANISOU 4219 CE3 TRP B 65	8250	8050	4380	-710	-1250	-1440	C0
ATOM 4220 CZ2 TRP B 65	-57.047	-16.026	2.134	1.00	55.37		C0
ANISOU 4220 CZ2 TRP B 65	8680	7780	4580	-900	-1100	-1640	C0
ATOM 4221 CZ3 TRP B 65	-57.281	-13.662	2.592	1.00	52.31		C0
ANISOU 4221 CZ3 TRP B 65	7890	7670	4320	-740	-1100	-1390	C0
ATOM 4222 CH2 TRP B 65	-56.943	-14.955	2.994	1.00	52.69		C0
ANISOU 4222 CH2 TRP B 65	8090	7530	4400	-830	-1030	-1490	C0
ATOM 4223 H TRP B 65	-60.675	-13.016	0.266	1.00	60.45		H0
ANISOU 4223 H TRP B 65	8750	9190	5030	-940	-1790	-1560	H0
ATOM 4224 HA TRP B 65	-60.472	-12.493	-2.435	1.00	63.86		H0
ANISOU 4224 HA TRP B 65	9550	9770	4950	-710	-1960	-1610	H0
ATOM 4225 HB2 TRP B 65	-58.575	-13.703	-2.776	1.00	62.84		H0
ANISOU 4225 HB2 TRP B 65	9870	9320	4690	-620	-1660	-1690	H0
ATOM 4226 HB3 TRP B 65	-58.231	-12.657	-1.642	1.00	59.89		H0
ANISOU 4226 HB3 TRP B 65	9230	8980	4550	-530	-1520	-1500	H0
ATOM 4227 HD1 TRP B 65	-58.386	-16.270	-2.124	1.00	63.37		H0
ANISOU 4227 HD1 TRP B 65	10220	9030	4830	-900	-1610	-1960	H0
ATOM 4228 HE1 TRP B 65	-57.570	-17.481	-0.207	1.00	60.84		H0
ANISOU 4228 HE1 TRP B 65	9890	8400	4830	-1000	-1340	-1950	H0
ATOM 4229 HE3 TRP B 65	-57.963	-12.532	1.054	1.00	54.34		H0
ANISOU 4229 HE3 TRP B 65	8150	8150	4350	-630	-1300	-1360	H0
ATOM 4230 HZ2 TRP B 65	-56.820	-16.899	2.405	1.00	55.64		H0
ANISOU 4230 HZ2 TRP B 65	8840	7670	4630	-950	-1050	-1710	H0
ATOM 4231 HZ3 TRP B 65	-57.198	-12.950	3.206	1.00	50.99		H0
ANISOU 4231 HZ3 TRP B 65	7570	7540	4260	-690	-1050	-1290	H0
ATOM 4232 HH2 TRP B 65	-56.636	-15.099	3.872	1.00	51.62		H0
ANISOU 4232 HH2 TRP B 65	7890	7330	4400	-840	-940	-1450	H0
ATOM 4233 N ASN B 66	-61.182	-14.939	-3.038	1.00	69.73		N0
ANISOU 4233 N ASN B 66	10600	10340	5550	-1080	-2180	-1970	N0
ATOM 4234 CA ASN B 66	-61.961	-16.159	-3.375	1.00	73.59		C0
ANISOU 4234 CA ASN B 66	11210	10790	5970	-1330	-2370	-2170	C0
ATOM 4235 C ASN B 66	-61.099	-17.388	-3.064	1.00	73.76		C0
ANISOU 4235 C ASN B 66	11510	10510	6000	-1390	-2200	-2270	C0
ATOM 4236 O ASN B 66	-60.068	-17.558	-3.745	1.00	74.23		O0

ANISOU 4236 O ASN B 66	11860	10460	5890	-1210	-2060	-2290	O0
ATOM 4237 CB ASN B 66	-62.398	-16.125	-4.841	1.00	77.36		C0
ANISOU 4237 CB ASN B 66	11860	11390	6140	-1310	-2590	-2270	C0
ATOM 4238 CG ASN B 66	-63.325	-17.256	-5.231	1.00	81.30		C0
ANISOU 4238 CG ASN B 66	12450	11870	6570	-1600	-2830	-2490	C0
ATOM 4239 OD1 ASN B 66	-63.321	-18.323	-4.618	1.00	80.92		O0
ANISOU 4239 OD1 ASN B 66	12480	11630	6630	-1800	-2780	-2590	O0
ATOM 4240 ND2 ASN B 66	-64.119	-17.021	-6.263	1.00	85.80		N0
ANISOU 4240 ND2 ASN B 66	13030	12640	6930	-1630	-3100	-2560	N0
ATOM 4241 H ASN B 66	-60.719	-14.605	-3.749	1.00	70.04		H0
ANISOU 4241 H ASN B 66	10780	10400	5430	-930	-2150	-1940	H0
ATOM 4242 HA ASN B 66	-62.771	-16.182	-2.813	1.00	73.71		H0
ANISOU 4242 HA ASN B 66	11000	10880	6120	-1490	-2470	-2170	H0
ATOM 4243 HB2 ASN B 66	-62.849	-15.274	-5.014	1.00	77.35		H0
ANISOU 4243 HB2 ASN B 66	11690	11570	6130	-1240	-2680	-2190	H0
ATOM 4244 HB3 ASN B 66	-61.601	-16.162	-5.407	1.00	77.42		H0
ANISOU 4244 HB3 ASN B 66	12100	11320	6000	-1160	-2490	-2280	H0
ATOM 4245 N SER B 67	-61.510	-18.207	-2.086	1.00	73.92		N0
ANISOU 4245 N SER B 67	11440	10420	6220	-1620	-2190	-2330	N0
ATOM 4246 CA SER B 67	-60.754	-19.389	-1.587	1.00	74.37		C0
ANISOU 4246 CA SER B 67	11750	10180	6330	-1670	-2020	-2400	C0
ATOM 4247 C SER B 67	-61.495	-20.692	-1.926	1.00	78.65		C0
ANISOU 4247 C SER B 67	12490	10600	6800	-1960	-2190	-2620	C0
ATOM 4248 O SER B 67	-61.723	-21.506	-1.005	1.00	79.52		O0
ANISOU 4248 O SER B 67	12580	10560	7080	-2160	-2140	-2650	O0
ATOM 4249 CB SER B 67	-60.471	-19.268	-0.102	1.00	71.05		C0
ANISOU 4249 CB SER B 67	11110	9690	6190	-1680	-1830	-2270	C0
ATOM 4250 OG SER B 67	-61.672	-19.190	0.648	1.00	70.62		O0
ANISOU 4250 OG SER B 67	10760	9760	6320	-1900	-1970	-2260	O0
ATOM 4251 H SER B 67	-62.300	-18.096	-1.647	1.00	74.15		H0
ANISOU 4251 H SER B 67	11260	10550	6370	-1750	-2290	-2320	H0
ATOM 4252 HA SER B 67	-59.880	-19.409	-2.061	1.00	74.15		H0
ANISOU 4252 HA SER B 67	11920	10080	6170	-1500	-1900	-2400	H0
ATOM 4253 HB2 SER B 67	-59.949	-20.047	0.195	1.00	71.03		H0
ANISOU 4253 HB2 SER B 67	11290	9500	6200	-1690	-1720	-2320	H0
ATOM 4254 HB3 SER B 67	-59.933	-18.461	0.061	1.00	69.20		H0
ANISOU 4254 HB3 SER B 67	10780	9520	5980	-1490	-1730	-2150	H0
ATOM 4255 N SER B 68	-61.845	-20.883	-3.202	1.00	82.04		N0
ANISOU 4255 N SER B 68	13110	11090	6970	-1990	-2380	-2750	N0
ATOM 4256 CA SER B 68	-62.397	-22.148	-3.758	1.00	86.47		C0
ANISOU 4256 CA SER B 68	13950	11510	7400	-2250	-2550	-2980	C0
ATOM 4257 C SER B 68	-61.251	-23.137	-3.992	1.00	87.47		C0
ANISOU 4257 C SER B 68	14520	11310	7400	-2140	-2350	-3070	C0
ATOM 4258 O SER B 68	-61.322	-24.264	-3.463	1.00	89.00		O0
ANISOU 4258 O SER B 68	14880	11260	7680	-2330	-2320	-3180	O0
ATOM 4259 CB SER B 68	-63.176	-21.910	-5.032	1.00	89.26		C0
ANISOU 4259 CB SER B 68	14340	12060	7510	-2310	-2840	-3090	C0
ATOM 4260 OG SER B 68	-64.510	-21.514	-4.750	1.00	90.12		O0
ANISOU 4260 OG SER B 68	14070	12420	7750	-2530	-3080	-3070	O0
ATOM 4261 H SER B 68	-61.761	-20.236	-3.838	1.00	82.17		H0
ANISOU 4261 H SER B 68	13120	11240	6860	-1850	-2420	-2710	H0
ATOM 4262 HA SER B 68	-63.013	-22.539	-3.081	1.00	86.65		H0
ANISOU 4262 HA SER B 68	13830	11500	7580	-2470	-2600	-3000	H0
ATOM 4263 HB2 SER B 68	-62.731	-21.210	-5.562	1.00	88.60		H0

ANISOU 4263	HB2 SER B 68	14280	12070	7310	-2080	-2800	-3020	H0
ATOM 4264	HB3 SER B 68	-63.187	-22.736	-5.567	1.00	91.54		H0
ANISOU 4264	HB3 SER B 68	14910	12210	7660	-2410	-2910	-3250	H0
ATOM 4265	N HIS B 69	-60.240	-22.713	-4.758	1.00	87.43		N0
ANISOU 4265	N HIS B 69	14710	11310	7200	-1830	-2220	-3030	N0
ATOM 4266	CA HIS B 69	-59.023	-23.497	-5.108	1.00	88.36		C0
ANISOU 4266	CA HIS B 69	15250	11160	7170	-1640	-2010	-3100	C0
ATOM 4267	C HIS B 69	-57.795	-22.875	-4.433	1.00	84.96		C0
ANISOU 4267	C HIS B 69	14700	10720	6860	-1340	-1700	-2900	C0
ATOM 4268	O HIS B 69	-56.674	-23.065	-4.955	1.00	85.53		O0
ANISOU 4268	O HIS B 69	15040	10690	6770	-1090	-1510	-2900	O0
ATOM 4269	CB HIS B 69	-58.860	-23.568	-6.634	1.00	91.55		C0
ANISOU 4269	CB HIS B 69	15980	11590	7210	-1520	-2100	-3230	C0
ATOM 4270	CG HIS B 69	-60.057	-24.107	-7.340	1.00	95.30		C0
ANISOU 4270	CG HIS B 69	16560	12100	7540	-1810	-2430	-3430	C0
ATOM 4271	ND1 HIS B 69	-61.192	-23.347	-7.551	1.00	96.10		N0
ANISOU 4271	ND1 HIS B 69	16350	12500	7670	-1950	-2690	-3400	N0
ATOM 4272	CD2 HIS B 69	-60.302	-25.319	-7.884	1.00	99.10		C0
ANISOU 4272	CD2 HIS B 69	17420	12370	7860	-1980	-2540	-3660	C0
ATOM 4273	CE1 HIS B 69	-62.087	-24.069	-8.197	1.00	99.91		C0
ANISOU 4273	CE1 HIS B 69	16990	12970	8000	-2210	-2970	-3610	C0
ATOM 4274	NE2 HIS B 69	-61.563	-25.284	-8.415	1.00	101.72		N0
ANISOU 4274	NE2 HIS B 69	17660	12880	8110	-2250	-2880	-3780	N0
ATOM 4275	H HIS B 69	-60.228	-21.883	-5.133	1.00	86.80		H0
ANISOU 4275	H HIS B 69	14520	11400	7060	-1700	-2250	-2950	H0
ATOM 4276	HA HIS B 69	-59.136	-24.413	-4.761	1.00	89.36		H0
ANISOU 4276	HA HIS B 69	15520	11100	7340	-1790	-2000	-3200	H0
ATOM 4277	HB2 HIS B 69	-58.670	-22.665	-6.975	1.00	90.51		H0
ANISOU 4277	HB2 HIS B 69	15730	11640	7030	-1350	-2090	-3120	H0
ATOM 4278	HB3 HIS B 69	-58.087	-24.136	-6.845	1.00	92.03		H0
ANISOU 4278	HB3 HIS B 69	16320	11480	7170	-1390	-1960	-3280	H0
ATOM 4279	HD2 HIS B 69	-59.716	-26.053	-7.900	1.00	99.68		H0
ANISOU 4279	HD2 HIS B 69	17780	12220	7870	-1930	-2420	-3730	H0
ATOM 4280	HE1 HIS B 69	-62.944	-23.780	-8.459	1.00	101.03		H0
ANISOU 4280	HE1 HIS B 69	16970	13290	8130	-2350	-3180	-3640	H0
ATOM 4281	N SER B 70	-58.003	-22.176	-3.311	1.00	81.31		N0
ANISOU 4281	N SER B 70	13850	10370	6670	-1380	-1660	-2730	N0
ATOM 4282	CA SER B 70	-56.965	-21.410	-2.573	1.00	77.86		C0
ANISOU 4282	CA SER B 70	13240	9960	6380	-1140	-1400	-2530	C0
ATOM 4283	C SER B 70	-57.085	-21.697	-1.076	1.00	74.58		C0
ANISOU 4283	C SER B 70	12620	9450	6260	-1260	-1320	-2460	C0
ATOM 4284	O SER B 70	-58.135	-22.140	-0.613	1.00	75.86		O0
ANISOU 4284	O SER B 70	12690	9600	6540	-1540	-1470	-2530	O0
ATOM 4285	CB SER B 70	-57.088	-19.935	-2.874	1.00	76.91		C0
ANISOU 4285	CB SER B 70	12850	10120	6250	-1010	-1450	-2380	C0
ATOM 4286	OG SER B 70	-55.813	-19.347	-3.081	1.00	76.24		O0
ANISOU 4286	OG SER B 70	12810	10040	6110	-720	-1220	-2250	O0
ATOM 4287	H SER B 70	-58.815	-22.126	-2.903	1.00	81.50		H0
ANISOU 4287	H SER B 70	13690	10460	6810	-1560	-1780	-2740	H0
ATOM 4288	HA SER B 70	-56.075	-21.723	-2.883	1.00	77.94		H0
ANISOU 4288	HA SER B 70	13460	9860	6290	-970	-1260	-2540	H0
ATOM 4289	HB2 SER B 70	-57.640	-19.811	-3.679	1.00	78.62		H0
ANISOU 4289	HB2 SER B 70	13120	10430	6320	-1050	-1610	-2450	H0
ATOM 4290	HB3 SER B 70	-57.537	-19.484	-2.124	1.00	75.56		H0

ANISOU 4290 HB3 SER B 70	12420	10030	6260	-1090	-1480	-2300	H0
ATOM 4291 N PROB B 71	-56.009	-21.499	-0.280	1.00	70.80		N0
ANISOU 4291 N PROB B 71	12080	8910	5910	-1070	-1080	-2330	N0
ATOM 4292 CA PROB B 71	-56.096	-21.621	1.178	1.00	68.14		C0
ANISOU 4292 CA PROB B 71	11540	8510	5840	-1170	-1000	-2240	C0
ATOM 4293 C PROB B 71	-57.051	-20.584	1.790	1.00	65.26		C0
ANISOU 4293 C PROB B 71	10780	8370	5650	-1290	-1120	-2130	C0
ATOM 4294 O PROB B 71	-57.079	-19.466	1.311	1.00	64.52		O0
ANISOU 4294 O PROB B 71	10530	8480	5500	-1170	-1160	-2050	O0
ATOM 4295 CB PROB B 71	-54.656	-21.394	1.664	1.00	66.33		C0
ANISOU 4295 CB PROB B 71	11320	8220	5660	-890	-740	-2110	C0
ATOM 4296 CG PROB B 71	-53.800	-21.670	0.443	1.00	68.13		C0
ANISOU 4296 CG PROB B 71	11850	8400	5630	-690	-660	-2170	C0
ATOM 4297 CD PROB B 71	-54.639	-21.212	-0.732	1.00	70.04		C0
ANISOU 4297 CD PROB B 71	12120	8800	5700	-760	-870	-2250	C0
ATOM 4298 HA PROB B 71	-56.386	-22.537	1.416	1.00	69.26		H0
ANISOU 4298 HA PROB B 71	11820	8500	6000	-1310	-1030	-2330	H0
ATOM 4299 HB2 PROB B 71	-54.530	-20.472	1.976	1.00	64.58		H0
ANISOU 4299 HB2 PROB B 71	10870	8140	5520	-830	-710	-1990	H0
ATOM 4300 HB3 PROB B 71	-54.431	-22.009	2.394	1.00	66.05		H0
ANISOU 4300 HB3 PROB B 71	11330	8050	5720	-920	-660	-2110	H0
ATOM 4301 HG2 PROB B 71	-52.961	-21.167	0.486	1.00	66.97		H0
ANISOU 4301 HG2 PROB B 71	11650	8310	5490	-500	-520	-2070	H0
ATOM 4302 HG3 PROB B 71	-53.594	-22.624	0.371	1.00	69.51		H0
ANISOU 4302 HG3 PROB B 71	12270	8390	5750	-700	-620	-2270	H0
ATOM 4303 HD2 PROB B 71	-54.518	-20.261	-0.905	1.00	68.90		H0
ANISOU 4303 HD2 PROB B 71	11820	8810	5550	-670	-860	-2150	H0
ATOM 4304 HD3 PROB B 71	-54.418	-21.716	-1.537	1.00	71.80		H0
ANISOU 4304 HD3 PROB B 71	12600	8950	5740	-710	-870	-2350	H0
ATOM 4305 N ASP B 72	-57.801	-20.989	2.821	1.00	63.87		N0
ANISOU 4305 N ASP B 72	10460	8150	5660	-1510	-1160	-2140	N0
ATOM 4306 CA ASP B 72	-58.842	-20.172	3.506	1.00	61.81		C0
ANISOU 4306 CA ASP B 72	9820	8090	5580	-1640	-1270	-2050	C0
ATOM 4307 C ASP B 72	-58.198	-19.040	4.313	1.00	56.85		C0
ANISOU 4307 C ASP B 72	8950	7560	5080	-1440	-1120	-1860	C0
ATOM 4308 O ASP B 72	-58.868	-18.015	4.516	1.00	55.31		O0
ANISOU 4308 O ASP B 72	8480	7570	4970	-1450	-1200	-1780	O0
ATOM 4309 CB ASP B 72	-59.696	-21.021	4.454	1.00	63.53		C0
ANISOU 4309 CB ASP B 72	9970	8210	5960	-1920	-1310	-2100	C0
ATOM 4310 CG ASP B 72	-60.951	-21.599	3.827	1.00	67.47		C0
ANISOU 4310 CG ASP B 72	10490	8750	6390	-2210	-1550	-2250	C0
ATOM 4311 OD1 ASP B 72	-60.823	-22.408	2.885	1.00	70.15		O0
ANISOU 4311 OD1 ASP B 72	11140	8960	6550	-2250	-1610	-2400	O0
ATOM 4312 OD2 ASP B 72	-62.051	-21.241	4.298	1.00	69.03		O0
ANISOU 4312 OD2 ASP B 72	10390	9120	6720	-2380	-1670	-2220	O0
ATOM 4313 H ASP B 72	-57.711	-21.822	3.177	1.00	64.51		H0
ANISOU 4313 H ASP B 72	10670	8060	5780	-1580	-1120	-2190	H0
ATOM 4314 HA ASP B 72	-59.430	-19.777	2.819	1.00	62.79		H0
ANISOU 4314 HA ASP B 72	9890	8360	5620	-1680	-1420	-2080	H0
ATOM 4315 HB2 ASP B 72	-59.156	-21.762	4.795	1.00	63.58		H0
ANISOU 4315 HB2 ASP B 72	10150	8030	5980	-1910	-1200	-2120	H0
ATOM 4316 HB3 ASP B 72	-59.966	-20.469	5.216	1.00	62.16		H0
ANISOU 4316 HB3 ASP B 72	9560	8130	5930	-1930	-1290	-2000	H0
ATOM 4317 N GLN B 73	-56.972	-19.240	4.803	1.00	54.16		N0

ANISOU 4317 N GLN B 73	8720	7080	4780	-1270	-910	-1800	NO
ATOM 4318 CA GLN B 73	-56.311	-18.324	5.772	1.00	50.77		CO
ANISOU 4318 CA GLN B 73	8080	6720	4500	-1120	-770	-1630	CO
ATOM 4319 C GLN B 73	-54.829	-18.167	5.428	1.00	48.91		CO
ANISOU 4319 C GLN B 73	7980	6430	4180	-870	-590	-1570	CO
ATOM 4320 O GLN B 73	-54.234	-19.127	4.905	1.00	50.06		OO
ANISOU 4320 O GLN B 73	8410	6420	4200	-810	-530	-1660	OO
ATOM 4321 CB GLN B 73	-56.418	-18.860	7.202	1.00	49.87		CO
ANISOU 4321 CB GLN B 73	7880	6490	4580	-1230	-690	-1590	CO
ATOM 4322 CG GLN B 73	-57.842	-19.082	7.691	1.00	50.87		CO
ANISOU 4322 CG GLN B 73	7850	6670	4810	-1490	-830	-1630	CO
ATOM 4323 CD GLN B 73	-57.885	-19.432	9.162	1.00	49.72		CO
ANISOU 4323 CD GLN B 73	7610	6430	4850	-1570	-720	-1570	CO
ATOM 4324 OE1 GLN B 73	-56.960	-19.143	9.922	1.00	47.75		OO
ANISOU 4324 OE1 GLN B 73	7330	6140	4670	-1410	-570	-1460	OO
ATOM 4325 NE2 GLN B 73	-58.972	-20.060	9.578	1.00	50.94		NO
ANISOU 4325 NE2 GLN B 73	7710	6560	5090	-1820	-800	-1620	NO
ATOM 4326 H GLN B 73	-56.464	-19.961	4.578	1.00	55.09		HO
ANISOU 4326 H GLN B 73	9050	7060	4820	-1240	-850	-1860	HO
ATOM 4327 HA GLN B 73	-56.746	-17.445	5.723	1.00	50.08		HO
ANISOU 4327 HA GLN B 73	7810	6780	4440	-1120	-830	-1570	HO
ATOM 4328 HB2 GLN B 73	-55.932	-19.708	7.249	1.00	50.50		HO
ANISOU 4328 HB2 GLN B 73	8150	6410	4630	-1210	-610	-1640	HO
ATOM 4329 HB3 GLN B 73	-55.971	-18.226	7.800	1.00	48.19		HO
ANISOU 4329 HB3 GLN B 73	7540	6320	4450	-1130	-600	-1490	HO
ATOM 4330 HG2 GLN B 73	-58.368	-18.269	7.538	1.00	50.49		HO
ANISOU 4330 HG2 GLN B 73	7620	6790	4780	-1490	-910	-1590	HO
ATOM 4331 HG3 GLN B 73	-58.252	-19.809	7.175	1.00	52.64		HO
ANISOU 4331 HG3 GLN B 73	8210	6820	4960	-1620	-910	-1740	HO
ATOM 4332 HE21 GLN B 73	-58.985	-20.440	10.376	1.00	50.72		HO
ANISOU 4332 HE21 GLN B 73	7670	6450	5150	-1870	-740	-1590	HO
ATOM 4333 HE22 GLN B 73	-59.687	-20.100	9.059	1.00	52.27		HO
ANISOU 4333 HE22 GLN B 73	7850	6800	5220	-1940	-930	-1680	HO
ATOM 4334 N VAL B 74	-54.256	-17.007	5.751	1.00	46.06		NO
ANISOU 4334 N VAL B 74	7430	6190	3880	-720	-510	-1420	NO
ATOM 4335 CA VAL B 74	-52.789	-16.751	5.651	1.00	44.93		CO
ANISOU 4335 CA VAL B 74	7350	6020	3700	-500	-320	-1340	CO
ATOM 4336 C VAL B 74	-52.334	-15.993	6.897	1.00	41.84		CO
ANISOU 4336 C VAL B 74	6730	5670	3500	-450	-230	-1200	CO
ATOM 4337 O VAL B 74	-53.136	-15.236	7.469	1.00	40.60		OO
ANISOU 4337 O VAL B 74	6360	5620	3450	-540	-310	-1150	OO
ATOM 4338 CB VAL B 74	-52.405	-15.993	4.362	1.00	45.42		CO
ANISOU 4338 CB VAL B 74	7480	6200	3580	-360	-320	-1320	CO
ATOM 4339 CG1 VAL B 74	-52.456	-16.898	3.141	1.00	47.62		CO
ANISOU 4339 CG1 VAL B 74	8050	6400	3640	-350	-360	-1460	CO
ATOM 4340 CG2 VAL B 74	-53.252	-14.751	4.144	1.00	45.06		CO
ANISOU 4340 CG2 VAL B 74	7230	6340	3550	-400	-450	-1250	CO
ATOM 4341 H VAL B 74	-54.732	-16.291	6.055	1.00	45.41		HO
ANISOU 4341 H VAL B 74	7170	6210	3870	-760	-560	-1370	HO
ATOM 4342 HA VAL B 74	-52.334	-17.612	5.641	1.00	45.55		HO
ANISOU 4342 HA VAL B 74	7590	5970	3740	-460	-250	-1390	HO
ATOM 4343 HB VAL B 74	-51.468	-15.696	4.469	1.00	44.70		HO
ANISOU 4343 HB VAL B 74	7370	6110	3500	-230	-190	-1240	HO
ATOM 4344 HG11 VAL B 74	-51.835	-17.638	3.259	1.00	48.09		HO

ANISOU 4344 HG11 VAL B 74	8250	6340	3680	-290	-260	-1490	H0
ATOM 4345 HG12 VAL B 74	-52.207	-16.390	2.350	1.00	48.12		H0
ANISOU 4345 HG12 VAL B 74	8150	6550	3590	-260	-350	-1440	H0
ATOM 4346 HG13 VAL B 74	-53.357	-17.246	3.032	1.00	48.60		H0
ANISOU 4346 HG13 VAL B 74	8190	6520	3750	-490	-500	-1540	H0
ATOM 4347 HG21 VAL B 74	-54.176	-15.011	3.981	1.00	45.91		H0
ANISOU 4347 HG21 VAL B 74	7340	6460	3640	-530	-590	-1330	H0
ATOM 4348 HG22 VAL B 74	-52.914	-14.259	3.375	1.00	45.41		H0
ANISOU 4348 HG22 VAL B 74	7330	6440	3480	-300	-430	-1220	H0
ATOM 4349 HG23 VAL B 74	-53.210	-14.184	4.933	1.00	43.58		H0
ANISOU 4349 HG23 VAL B 74	6880	6180	3500	-400	-420	-1170	H0
ATOM 4350 N SER B 75	-51.082	-16.208	7.293	1.00	41.09		N0
ANISOU 4350 N SER B 75	6670	5520	3430	-300	-60	-1140	N0
ATOM 4351 CA SER B 75	-50.360	-15.357	8.267	1.00	39.51		C0
ANISOU 4351 CA SER B 75	6270	5380	3370	-220	40	-1000	C0
ATOM 4352 C SER B 75	-49.728	-14.189	7.502	1.00	39.43		C0
ANISOU 4352 C SER B 75	6190	5510	3290	-100	80	-910	C0
ATOM 4353 O SER B 75	-49.081	-14.438	6.464	1.00	40.03		O0
ANISOU 4353 O SER B 75	6420	5580	3210	10	150	-930	O0
ATOM 4354 CB SER B 75	-49.353	-16.159	9.041	1.00	39.43		C0
ANISOU 4354 CB SER B 75	6310	5260	3410	-130	180	-970	C0
ATOM 4355 OG SER B 75	-49.991	-17.234	9.716	1.00	40.01		O0
ANISOU 4355 OG SER B 75	6470	5180	3540	-250	140	-1050	O0
ATOM 4356 H SER B 75	-50.572	-16.900	6.989	1.00	42.08		H0
ANISOU 4356 H SER B 75	6950	5560	3480	-240	10	-1180	H0
ATOM 4357 HA SER B 75	-51.025	-14.990	8.907	1.00	38.71		H0
ANISOU 4357 HA SER B 75	6030	5310	3370	-320	-30	-970	H0
ATOM 4358 HB2 SER B 75	-48.672	-16.514	8.426	1.00	40.30		H0
ANISOU 4358 HB2 SER B 75	6550	5340	3420	-20	250	-990	H0
ATOM 4359 HB3 SER B 75	-48.903	-15.578	9.696	1.00	38.25		H0
ANISOU 4359 HB3 SER B 75	6020	5160	3350	-90	220	-890	H0
ATOM 4360 N VAL B 76	-49.947	-12.963	7.985	1.00	38.60		N0
ANISOU 4360 N VAL B 76	5880	5500	3280	-130	50	-810	N0
ATOM 4361 CA VAL B 76	-49.543	-11.700	7.307	1.00	38.85		C0
ANISOU 4361 CA VAL B 76	5850	5650	3250	-50	80	-710	C0
ATOM 4362 C VAL B 76	-48.870	-10.792	8.330	1.00	38.05		C0
ANISOU 4362 C VAL B 76	5570	5590	3300	-30	160	-580	C0
ATOM 4363 O VAL B 76	-49.386	-10.606	9.432	1.00	37.38		O0
ANISOU 4363 O VAL B 76	5360	5490	3350	-110	110	-570	O0
ATOM 4364 CB VAL B 76	-50.758	-11.016	6.655	1.00	39.30		C0
ANISOU 4364 CB VAL B 76	5890	5800	3250	-120	-80	-730	C0
ATOM 4365 CG1 VAL B 76	-50.382	-9.712	5.965	1.00	39.48		C0
ANISOU 4365 CG1 VAL B 76	5880	5920	3200	-30	-40	-620	C0
ATOM 4366 CG2 VAL B 76	-51.460	-11.951	5.684	1.00	41.20		C0
ANISOU 4366 CG2 VAL B 76	6310	6010	3340	-160	-180	-860	C0
ATOM 4367 H VAL B 76	-50.370	-12.822	8.780	1.00	37.77		H0
ANISOU 4367 H VAL B 76	5670	5400	3280	-200	20	-790	H0
ATOM 4368 HA VAL B 76	-48.902	-11.919	6.611	1.00	39.73		H0
ANISOU 4368 HA VAL B 76	6070	5760	3260	30	150	-710	H0
ATOM 4369 HB VAL B 76	-51.397	-10.800	7.378	1.00	38.63		H0
ANISOU 4369 HB VAL B 76	5690	5720	3270	-190	-140	-720	H0
ATOM 4370 HG11 VAL B 76	-50.179	-9.037	6.634	1.00	38.38		H0
ANISOU 4370 HG11 VAL B 76	5620	5790	3170	-40	-10	-540	H0
ATOM 4371 HG12 VAL B 76	-51.125	-9.409	5.416	1.00	40.03		H0

ANISOU 4371 HG12 VAL B 76	5960	6040	3210	-50	-140	-640	H0
ATOM 4372 HG13 VAL B 76	-49.602	-9.856	5.402	1.00	40.01		H0
ANISOU 4372 HG13 VAL B 76	6030	5980	3190	50	50	-600	H0
ATOM 4373 HG21 VAL B 76	-50.812	-12.316	5.057	1.00	41.96		H0
ANISOU 4373 HG21 VAL B 76	6530	6080	3330	-80	-100	-880	H0
ATOM 4374 HG22 VAL B 76	-52.143	-11.460	5.195	1.00	41.62		H0
ANISOU 4374 HG22 VAL B 76	6340	6140	3340	-190	-280	-870	H0
ATOM 4375 HG23 VAL B 76	-51.878	-12.679	6.177	1.00	41.23		H0
ANISOU 4375 HG23 VAL B 76	6320	5950	3400	-250	-210	-930	H0
ATOM 4376 N PROB 77	-47.699	-10.197	8.006	1.00	38.54		N0
ANISOU 4376 N PROB 77	5600	5700	3340	70	280	-490	N0
ATOM 4377 CA PROB 77	-47.084	-9.210	8.890	1.00	37.85		C0
ANISOU 4377 CA PROB 77	5340	5660	3380	70	330	-370	C0
ATOM 4378 C PROB 77	-48.034	-8.010	9.024	1.00	37.50		C0
ANISOU 4378 C PROB 77	5220	5650	3380	-10	220	-330	C0
ATOM 4379 O PROB 77	-48.601	-7.589	8.038	1.00	38.16		O0
ANISOU 4379 O PROB 77	5370	5780	3350	0	170	-340	O0
ATOM 4380 CB PROB 77	-45.753	-8.856	8.209	1.00	38.07		C0
ANISOU 4380 CB PROB 77	5380	5750	3340	170	480	-290	C0
ATOM 4381 CG PROB 77	-45.973	-9.230	6.764	1.00	39.82		C0
ANISOU 4381 CG PROB 77	5780	5980	3370	230	480	-340	C0
ATOM 4382 CD PROB 77	-46.909	-10.422	6.785	1.00	39.97		C0
ANISOU 4382 CD PROB 77	5920	5910	3360	190	380	-490	C0
ATOM 4383 HA PROB 77	-46.911	-9.616	9.775	1.00	37.11		H0
ANISOU 4383 HA PROB 77	5200	5520	3380	50	350	-380	H0
ATOM 4384 HB2 PROB 77	-45.555	-7.899	8.296	1.00	37.90		H0
ANISOU 4384 HB2 PROB 77	5280	5770	3360	150	490	-210	H0
ATOM 4385 HB3 PROB 77	-45.012	-9.370	8.594	1.00	38.29		H0
ANISOU 4385 HB3 PROB 77	5380	5760	3400	210	560	-280	H0
ATOM 4386 HG2 PROB 77	-46.375	-8.485	6.273	1.00	39.88		H0
ANISOU 4386 HG2 PROB 77	5790	6030	3330	210	440	-310	H0
ATOM 4387 HG3 PROB 77	-45.125	-9.465	6.338	1.00	40.52		H0
ANISOU 4387 HG3 PROB 77	5910	6090	3400	310	590	-320	H0
ATOM 4388 HD2 PROB 77	-47.477	-10.434	5.992	1.00	40.79		H0
ANISOU 4388 HD2 PROB 77	6120	6030	3350	180	320	-530	H0
ATOM 4389 HD3 PROB 77	-46.414	-11.260	6.836	1.00	40.48		H0
ANISOU 4389 HD3 PROB 77	6050	5930	3400	240	450	-520	H0
ATOM 4390 N ILE B 78	-48.200	-7.504	10.244	1.00	36.80		N0
ANISOU 4390 N ILE B 78	5000	5550	3430	-60	200	-290	N0
ATOM 4391 CA ILE B 78	-49.183	-6.426	10.553	1.00	36.89		C0
ANISOU 4391 CA ILE B 78	4930	5590	3490	-120	100	-260	C0
ATOM 4392 C ILE B 78	-48.808	-5.130	9.821	1.00	37.71		C0
ANISOU 4392 C ILE B 78	5050	5740	3540	-70	130	-160	C0
ATOM 4393 O ILE B 78	-49.711	-4.304	9.620	1.00	37.89		O0
ANISOU 4393 O ILE B 78	5070	5780	3550	-80	50	-140	O0
ATOM 4394 CB ILE B 78	-49.316	-6.236	12.073	1.00	36.34		C0
ANISOU 4394 CB ILE B 78	4750	5480	3580	-170	90	-250	C0
ATOM 4395 CG1 ILE B 78	-48.015	-5.747	12.719	1.00	36.30		C0
ANISOU 4395 CG1 ILE B 78	4670	5470	3640	-150	190	-170	C0
ATOM 4396 CG2 ILE B 78	-49.820	-7.527	12.702	1.00	36.48		C0
ANISOU 4396 CG2 ILE B 78	4770	5450	3640	-210	60	-340	C0
ATOM 4397 CD1 ILE B 78	-48.171	-5.335	14.165	1.00	35.24		C0
ANISOU 4397 CD1 ILE B 78	4440	5310	3640	-200	160	-150	C0
ATOM 4398 H ILE B 78	-47.716	-7.785	10.961	1.00	36.36		H0

ANISOU 4398 H ILE B 78	4890	5470	3450	-70	240	-290	H0
ATOM 4399 HA ILE B 78	-50.050	-6.715	10.217	1.00	37.38		H0
ANISOU 4399 HA ILE B 78	5030	5660	3510	-140	20	-320	H0
ATOM 4400 HB ILE B 78	-50.001	-5.541	12.225	1.00	36.16		H0
ANISOU 4400 HB ILE B 78	4680	5480	3580	-190	30	-230	H0
ATOM 4401 HG12 ILE B 78	-47.347	-6.463	12.666	1.00	36.40		H0
ANISOU 4401 HG12 ILE B 78	4710	5480	3640	-130	240	-180	H0
ATOM 4402 HG13 ILE B 78	-47.676	-4.981	12.210	1.00	36.50		H0
ANISOU 4402 HG13 ILE B 78	4710	5520	3640	-140	210	-110	H0
ATOM 4403 HG21 ILE B 78	-50.522	-7.910	12.147	1.00	36.99		H0
ANISOU 4403 HG21 ILE B 78	4890	5520	3640	-230	0	-390	H0
ATOM 4404 HG22 ILE B 78	-50.177	-7.337	13.586	1.00	35.76		H0
ANISOU 4404 HG22 ILE B 78	4610	5350	3630	-250	40	-330	H0
ATOM 4405 HG23 ILE B 78	-49.087	-8.162	12.780	1.00	36.49		H0
ANISOU 4405 HG23 ILE B 78	4810	5420	3630	-190	120	-350	H0
ATOM 4406 HD11 ILE B 78	-48.898	-4.693	14.244	1.00	35.11		H0
ANISOU 4406 HD11 ILE B 78	4410	5290	3630	-220	100	-140	H0
ATOM 4407 HD12 ILE B 78	-47.345	-4.928	14.478	1.00	35.13		H0
ANISOU 4407 HD12 ILE B 78	4390	5300	3660	-200	210	-100	H0
ATOM 4408 HD13 ILE B 78	-48.371	-6.118	14.707	1.00	35.00		H0
ANISOU 4408 HD13 ILE B 78	4410	5250	3640	-220	150	-200	H0
ATOM 4409 N SER B 79	-47.547	-4.960	9.408	1.00	38.74		N0
ANISOU 4409 N SER B 79	5200	5880	3640	-30	260	-100	N0
ATOM 4410 CA SER B 79	-47.073	-3.778	8.638	1.00	39.72		C0
ANISOU 4410 CA SER B 79	5350	6040	3700	-10	310	10	C0
ATOM 4411 C SER B 79	-47.778	-3.711	7.275	1.00	40.36		C0
ANISOU 4411 C SER B 79	5570	6160	3610	50	260	-10	C0
ATOM 4412 O SER B 79	-47.847	-2.613	6.708	1.00	41.48		O0
ANISOU 4412 O SER B 79	5750	6310	3700	70	260	80	O0
ATOM 4413 CB SER B 79	-45.565	-3.770	8.487	1.00	40.53		C0
ANISOU 4413 CB SER B 79	5420	6170	3810	10	470	80	C0
ATOM 4414 OG SER B 79	-45.105	-4.955	7.852	1.00	41.93		O0
ANISOU 4414 OG SER B 79	5670	6370	3890	90	540	30	O0
ATOM 4415 H SER B 79	-46.876	-5.549	9.585	1.00	38.67		H0
ANISOU 4415 H SER B 79	5180	5870	3640	-20	320	-110	H0
ATOM 4416 HA SER B 79	-47.332	-2.966	9.151	1.00	39.14		H0
ANISOU 4416 HA SER B 79	5230	5950	3690	-40	280	50	H0
ATOM 4417 HB2 SER B 79	-45.296	-2.987	7.956	1.00	41.20		H0
ANISOU 4417 HB2 SER B 79	5530	6270	3850	10	510	160	H0
ATOM 4418 HB3 SER B 79	-45.150	-3.693	9.376	1.00	39.95		H0
ANISOU 4418 HB3 SER B 79	5250	6080	3840	-30	480	100	H0
ATOM 4419 N SER B 80	-48.290	-4.836	6.772	1.00	40.48		N0
ANISOU 4419 N SER B 80	5660	6180	3540	70	200	-110	N0
ATOM 4420 CA SER B 80	-49.027	-4.916	5.484	1.00	41.70		C0
ANISOU 4420 CA SER B 80	5950	6380	3520	120	120	-150	C0
ATOM 4421 C SER B 80	-50.520	-4.624	5.684	1.00	41.34		C0
ANISOU 4421 C SER B 80	5860	6350	3490	80	-50	-200	C0
ATOM 4422 O SER B 80	-51.222	-4.536	4.671	1.00	42.53		O0
ANISOU 4422 O SER B 80	6100	6560	3500	110	-150	-220	O0
ATOM 4423 CB SER B 80	-48.821	-6.253	4.827	1.00	43.01		C0
ANISOU 4423 CB SER B 80	6240	6530	3570	150	150	-260	C0
ATOM 4424 OG SER B 80	-47.449	-6.458	4.521	1.00	43.81		O0
ANISOU 4424 OG SER B 80	6380	6640	3630	220	320	-210	O0
ATOM 4425 H SER B 80	-48.208	-5.649	7.173	1.00	40.25		H0

ANISOU 4425 H SER B 80	5620	6120	3550	50	210	-170	H0
ATOM 4426 HA SER B 80	-48.658	-4.217	4.881	1.00	42.38		H0
ANISOU 4426 HA SER B 80	6080	6490	3530	160	180	-80	H0
ATOM 4427 HB2 SER B 80	-49.134	-6.965	5.429	1.00	42.51		H0
ANISOU 4427 HB2 SER B 80	6150	6430	3570	100	110	-330	H0
ATOM 4428 HB3 SER B 80	-49.352	-6.296	3.999	1.00	43.98		H0
ANISOU 4428 HB3 SER B 80	6460	6690	3560	170	80	-290	H0
ATOM 4429 N LEU B 81	-50.984	-4.459	6.932	1.00	39.64		N0
ANISOU 4429 N LEU B 81	5510	6110	3440	10	-100	-200	N0
ATOM 4430 CA LEU B 81	-52.430	-4.377	7.279	1.00	39.38		C0
ANISOU 4430 CA LEU B 81	5400	6120	3450	-20	-250	-250	C0
ATOM 4431 C LEU B 81	-52.713	-3.075	8.025	1.00	37.83		C0
ANISOU 4431 C LEU B 81	5110	5910	3350	-10	-260	-160	C0
ATOM 4432 O LEU B 81	-51.818	-2.602	8.746	1.00	36.18		O0
ANISOU 4432 O LEU B 81	4870	5640	3230	-20	-160	-90	O0
ATOM 4433 CB LEU B 81	-52.814	-5.567	8.165	1.00	39.07		C0
ANISOU 4433 CB LEU B 81	5300	6040	3510	-120	-280	-350	C0
ATOM 4434 CG LEU B 81	-52.523	-6.951	7.595	1.00	40.62		C0
ANISOU 4434 CG LEU B 81	5610	6210	3620	-140	-270	-460	C0
ATOM 4435 CD1 LEU B 81	-53.027	-8.029	8.540	1.00	40.74		C0
ANISOU 4435 CD1 LEU B 81	5570	6170	3740	-250	-300	-550	C0
ATOM 4436 CD2 LEU B 81	-53.144	-7.125	6.219	1.00	42.72		C0
ANISOU 4436 CD2 LEU B 81	5990	6540	3700	-120	-370	-510	C0
ATOM 4437 H LEU B 81	-50.438	-4.381	7.652	1.00	38.89		H0
ANISOU 4437 H LEU B 81	5360	5980	3440	-10	-30	-170	H0
ATOM 4438 HA LEU B 81	-52.960	-4.392	6.450	1.00	40.36		H0
ANISOU 4438 HA LEU B 81	5580	6290	3460	0	-330	-270	H0
ATOM 4439 HB2 LEU B 81	-52.340	-5.479	9.016	1.00	38.22		H0
ANISOU 4439 HB2 LEU B 81	5130	5890	3500	-130	-220	-330	H0
ATOM 4440 HB3 LEU B 81	-53.771	-5.508	8.356	1.00	39.35		H0
ANISOU 4440 HB3 LEU B 81	5270	6120	3570	-150	-380	-380	H0
ATOM 4441 HG LEU B 81	-51.543	-7.051	7.507	1.00	40.49		H0
ANISOU 4441 HG LEU B 81	5640	6150	3590	-100	-160	-430	H0
ATOM 4442 HD11 LEU B 81	-52.595	-7.929	9.406	1.00	39.59		H0
ANISOU 4442 HD11 LEU B 81	5370	5980	3690	-250	-230	-510	H0
ATOM 4443 HD12 LEU B 81	-52.819	-8.906	8.174	1.00	41.20		H0
ANISOU 4443 HD12 LEU B 81	5730	6180	3740	-260	-290	-610	H0
ATOM 4444 HD13 LEU B 81	-53.990	-7.943	8.647	1.00	40.84		H0
ANISOU 4444 HD13 LEU B 81	5520	6220	3770	-290	-400	-570	H0
ATOM 4445 HD21 LEU B 81	-54.070	-6.826	6.242	1.00	42.88		H0
ANISOU 4445 HD21 LEU B 81	5950	6610	3730	-140	-480	-520	H0
ATOM 4446 HD22 LEU B 81	-53.114	-8.064	5.965	1.00	43.18		H0
ANISOU 4446 HD22 LEU B 81	6130	6560	3710	-150	-380	-600	H0
ATOM 4447 HD23 LEU B 81	-52.649	-6.598	5.569	1.00	42.97		H0
ANISOU 4447 HD23 LEU B 81	6090	6590	3650	-40	-320	-460	H0
ATOM 4448 N TRP B 82	-53.930	-2.543	7.890	1.00	38.12		N0
ANISOU 4448 N TRP B 82	5100	6010	3370	20	-390	-160	N0
ATOM 4449 CA TRP B 82	-54.477	-1.586	8.883	1.00	37.38		C0
ANISOU 4449 CA TRP B 82	4910	5910	3390	40	-410	-100	C0
ATOM 4450 C TRP B 82	-54.647	-2.346	10.200	1.00	36.62		C0
ANISOU 4450 C TRP B 82	4690	5780	3440	-50	-400	-170	C0
ATOM 4451 O TRP B 82	-55.121	-3.502	10.166	1.00	36.86		O0
ANISOU 4451 O TRP B 82	4690	5840	3470	-120	-450	-260	O0
ATOM 4452 CB TRP B 82	-55.791	-0.931	8.444	1.00	38.27		C0

ANISOU 4452 CB TRP B 82	4980	6120	3440	120	-540	-90	C0
ATOM 4453 CG TRP B 82	-56.363	-0.045	9.511	1.00	37.77		C0
ANISOU 4453 CG TRP B 82	4820	6040	3490	160	-550	-40	C0
ATOM 4454 CD1 TRP B 82	-56.038	1.257	9.765	1.00	37.63		C0
ANISOU 4454 CD1 TRP B 82	4860	5940	3490	240	-500	60	C0
ATOM 4455 CD2 TRP B 82	-57.326	-0.415	10.514	1.00	37.17		C0
ANISOU 4455 CD2 TRP B 82	4590	6010	3530	130	-600	-100	C0
ATOM 4456 NE1 TRP B 82	-56.745	1.726	10.838	1.00	37.32		N0
ANISOU 4456 NE1 TRP B 82	4720	5900	3560	270	-510	60	N0
ATOM 4457 CE2 TRP B 82	-57.546	0.724	11.317	1.00	37.14		C0
ANISOU 4457 CE2 TRP B 82	4560	5960	3590	210	-570	-30	C0
ATOM 4458 CE3 TRP B 82	-58.036	-1.586	10.799	1.00	37.20		C0
ANISOU 4458 CE3 TRP B 82	4480	6080	3570	30	-660	-200	C0
ATOM 4459 CZ2 TRP B 82	-58.438	0.718	12.386	1.00	36.87		C0
ANISOU 4459 CZ2 TRP B 82	4380	5970	3660	210	-590	-50	C0
ATOM 4460 CZ3 TRP B 82	-58.921	-1.587	11.854	1.00	37.16		C0
ANISOU 4460 CZ3 TRP B 82	4320	6120	3680	10	-680	-210	C0
ATOM 4461 CH2 TRP B 82	-59.117	-0.451	12.637	1.00	36.64		C0
ANISOU 4461 CH2 TRP B 82	4220	6030	3670	120	-640	-140	C0
ATOM 4462 H TRP B 82	-54.490	-2.728	7.196	1.00	39.09		H0
ANISOU 4462 H TRP B 82	5250	6200	3400	40	-470	-190	H0
ATOM 4463 HA TRP B 82	-53.812	-0.872	9.011	1.00	37.15		H0
ANISOU 4463 HA TRP B 82	4910	5830	3380	70	-340	-30	H0
ATOM 4464 HB2 TRP B 82	-55.625	-0.404	7.636	1.00	39.08		H0
ANISOU 4464 HB2 TRP B 82	5170	6230	3450	190	-550	-30	H0
ATOM 4465 HB3 TRP B 82	-56.435	-1.635	8.224	1.00	38.83		H0
ANISOU 4465 HB3 TRP B 82	5010	6250	3490	90	-630	-160	H0
ATOM 4466 HD1 TRP B 82	-55.418	1.769	9.269	1.00	37.89		H0
ANISOU 4466 HD1 TRP B 82	5000	5930	3470	270	-450	120	H0
ATOM 4467 HE1 TRP B 82	-56.696	2.535	11.161	1.00	37.34		H0
ANISOU 4467 HE1 TRP B 82	4760	5850	3580	320	-490	110	H0
ATOM 4468 HE3 TRP B 82	-57.908	-2.362	10.277	1.00	37.57		H0
ANISOU 4468 HE3 TRP B 82	4560	6150	3570	-30	-680	-250	H0
ATOM 4469 HZ2 TRP B 82	-58.575	1.488	12.911	1.00	36.77		H0
ANISOU 4469 HZ2 TRP B 82	4370	5920	3680	280	-570	-10	H0
ATOM 4470 HZ3 TRP B 82	-59.400	-2.374	12.056	1.00	37.31		H0
ANISOU 4470 HZ3 TRP B 82	4260	6190	3730	-70	-710	-270	H0
ATOM 4471 HH2 TRP B 82	-59.728	-0.483	13.351	1.00	36.81		H0
ANISOU 4471 HH2 TRP B 82	4140	6090	3760	110	-650	-150	H0
ATOM 4472 N VAL B 83	-54.244	-1.720	11.301	1.00	35.51		N0
ANISOU 4472 N VAL B 83	4510	5570	3410	-50	-330	-120	N0
ATOM 4473 CA VAL B 83	-54.453	-2.227	12.687	1.00	35.39		C0
ANISOU 4473 CA VAL B 83	4390	5530	3530	-120	-310	-160	C0
ATOM 4474 C VAL B 83	-55.026	-1.083	13.518	1.00	34.31		C0
ANISOU 4474 C VAL B 83	4190	5380	3460	-60	-320	-110	C0
ATOM 4475 O VAL B 83	-54.599	0.063	13.379	1.00	34.57		O0
ANISOU 4475 O VAL B 83	4300	5370	3470	0	-290	-30	O0
ATOM 4476 CB VAL B 83	-53.132	-2.770	13.258	1.00	35.19		C0
ANISOU 4476 CB VAL B 83	4390	5430	3560	-170	-200	-160	C0
ATOM 4477 CG1 VAL B 83	-53.252	-3.167	14.720	1.00	35.57		C0
ANISOU 4477 CG1 VAL B 83	4350	5440	3720	-220	-180	-190	C0
ATOM 4478 CG2 VAL B 83	-52.621	-3.936	12.426	1.00	35.70		C0
ANISOU 4478 CG2 VAL B 83	4520	5500	3540	-190	-180	-220	C0
ATOM 4479 H VAL B 83	-53.801	-0.924	11.274	1.00	35.68		H0

ANISOU 4479 H VAL B 83	4570	5560	3430	-20	-290	-50	H0
ATOM 4480 HA VAL B 83	-55.102	-2.951	12.656	1.00	35.47		H0
ANISOU 4480 HA VAL B 83	4350	5580	3540	-150	-360	-220	H0
ATOM 4481 HB VAL B 83	-52.465	-2.043	13.198	1.00	35.21		H0
ANISOU 4481 HB VAL B 83	4430	5400	3560	-150	-160	-100	H0
ATOM 4482 HG11 VAL B 83	-53.466	-2.384	15.254	1.00	34.98		H0
ANISOU 4482 HG11 VAL B 83	4250	5350	3690	-200	-180	-160	H0
ATOM 4483 HG12 VAL B 83	-52.407	-3.542	15.024	1.00	34.73		H0
ANISOU 4483 HG12 VAL B 83	4270	5290	3640	-240	-120	-190	H0
ATOM 4484 HG13 VAL B 83	-53.954	-3.832	14.820	1.00	35.36		H0
ANISOU 4484 HG13 VAL B 83	4290	5440	3710	-250	-220	-240	H0
ATOM 4485 HG21 VAL B 83	-53.337	-4.583	12.299	1.00	36.04		H0
ANISOU 4485 HG21 VAL B 83	4550	5570	3570	-220	-240	-280	H0
ATOM 4486 HG22 VAL B 83	-51.878	-4.362	12.885	1.00	35.18		H0
ANISOU 4486 HG22 VAL B 83	4460	5390	3520	-210	-120	-220	H0
ATOM 4487 HG23 VAL B 83	-52.322	-3.610	11.559	1.00	36.23		H0
ANISOU 4487 HG23 VAL B 83	4650	5580	3530	-150	-170	-190	H0
ATOM 4488 N PROB 84	-56.035	-1.330	14.378	1.00	33.66		N0
ANISOU 4488 N PROB 84	4000	5340	3450	-80	-360	-150	N0
ATOM 4489 CA PROB 84	-56.571	-0.271	15.228	1.00	33.58		C0
ANISOU 4489 CA PROB 84	3950	5320	3490	0	-360	-110	C0
ATOM 4490 C PROB 84	-55.483	0.346	16.121	1.00	31.82		C0
ANISOU 4490 C PROB 84	3790	4970	3320	-20	-270	-70	C0
ATOM 4491 O PROB 84	-54.580	-0.352	16.543	1.00	30.57		O0
ANISOU 4491 O PROB 84	3640	4770	3200	-100	-210	-90	O0
ATOM 4492 CB PROB 84	-57.693	-0.957	16.025	1.00	33.95		C0
ANISOU 4492 CB PROB 84	3850	5440	3600	-40	-390	-160	C0
ATOM 4493 CG PROB 84	-57.388	-2.427	15.925	1.00	33.77		C0
ANISOU 4493 CG PROB 84	3820	5420	3590	-170	-380	-230	C0
ATOM 4494 CD PROB 84	-56.731	-2.609	14.574	1.00	34.21		C0
ANISOU 4494 CD PROB 84	3980	5470	3540	-160	-400	-230	C0
ATOM 4495 HA PROB 84	-56.967	0.431	14.654	1.00	34.22		H0
ANISOU 4495 HA PROB 84	4050	5430	3520	80	-400	-70	H0
ATOM 4496 HB2 PROB 84	-57.689	-0.663	16.959	1.00	33.49		H0
ANISOU 4496 HB2 PROB 84	3770	5350	3600	-30	-350	-150	H0
ATOM 4497 HB3 PROB 84	-58.570	-0.758	15.635	1.00	34.81		H0
ANISOU 4497 HB3 PROB 84	3900	5640	3690	10	-450	-160	H0
ATOM 4498 HG2 PROB 84	-56.784	-2.705	16.643	1.00	32.97		H0
ANISOU 4498 HG2 PROB 84	3740	5250	3540	-210	-320	-240	H0
ATOM 4499 HG3 PROB 84	-58.210	-2.956	15.984	1.00	34.30		H0
ANISOU 4499 HG3 PROB 84	3800	5560	3670	-210	-420	-270	H0
ATOM 4500 HD2 PROB 84	-56.106	-3.356	14.586	1.00	33.73		H0
ANISOU 4500 HD2 PROB 84	3960	5370	3490	-220	-360	-260	H0
ATOM 4501 HD3 PROB 84	-57.395	-2.759	13.876	1.00	34.99		H0
ANISOU 4501 HD3 PROB 84	4060	5640	3590	-160	-480	-260	H0
ATOM 4502 N ASP B 85	-55.594	1.655	16.352	1.00	32.45		N0
ANISOU 4502 N ASP B 85	3930	5000	3400	70	-260	-10	N0
ATOM 4503 CA ASP B 85	-54.665	2.469	17.180	1.00	31.93		C0
ANISOU 4503 CA ASP B 85	3940	4810	3380	50	-200	30	C0
ATOM 4504 C ASP B 85	-55.087	2.359	18.653	1.00	31.82		C0
ANISOU 4504 C ASP B 85	3870	4780	3440	50	-180	-10	C0
ATOM 4505 O ASP B 85	-55.333	3.400	19.279	1.00	31.36		O0
ANISOU 4505 O ASP B 85	3870	4650	3390	120	-170	20	O0
ATOM 4506 CB ASP B 85	-54.655	3.926	16.706	1.00	32.52		C0

ANISOU 4506 CB ASP B 85	4140	4810	3410	140	-200	110	C0
ATOM 4507 CG ASP B 85	-55.993	4.638	16.851	1.00	33.49		C0
ANISOU 4507 CG ASP B 85	4250	4960	3510	280	-250	120	C0
ATOM 4508 OD1 ASP B 85	-57.034	3.944	16.781	1.00	33.44		O0
ANISOU 4508 OD1 ASP B 85	4110	5090	3510	320	-300	80	O0
ATOM 4509 OD2 ASP B 85	-55.987	5.878	17.036	1.00	33.16		O0
ANISOU 4509 OD2 ASP B 85	4330	4820	3450	360	-230	170	O0
ATOM 4510 H ASP B 85	-56.278	2.143	16.002	1.00	33.09		H0
ANISOU 4510 H ASP B 85	4010	5120	3450	150	-300	10	H0
ATOM 4511 HA ASP B 85	-53.755	2.101	17.082	1.00	31.50		H0
ANISOU 4511 HA ASP B 85	3910	4730	3330	-20	-160	30	H0
ATOM 4512 HB2 ASP B 85	-53.983	4.424	17.214	1.00	32.42		H0
ANISOU 4512 HB2 ASP B 85	4190	4710	3420	100	-160	130	H0
ATOM 4513 HB3 ASP B 85	-54.400	3.946	15.762	1.00	33.01		H0
ANISOU 4513 HB3 ASP B 85	4250	4890	3410	140	-210	140	H0
ATOM 4514 N LEU B 86	-55.173	1.136	19.177	1.00	31.98		N0
ANISOU 4514 N LEU B 86	3800	4850	3500	-30	-170	-70	N0
ATOM 4515 CA LEU B 86	-55.599	0.868	20.575	1.00	32.24		C0
ANISOU 4515 CA LEU B 86	3780	4870	3600	-30	-140	-100	C0
ATOM 4516 C LEU B 86	-54.470	1.274	21.521	1.00	31.53		C0
ANISOU 4516 C LEU B 86	3770	4680	3540	-70	-100	-90	C0
ATOM 4517 O LEU B 86	-53.298	0.991	21.218	1.00	31.18		O0
ANISOU 4517 O LEU B 86	3760	4600	3490	-150	-80	-80	O0
ATOM 4518 CB LEU B 86	-55.955	-0.612	20.744	1.00	32.30		C0
ANISOU 4518 CB LEU B 86	3690	4950	3630	-110	-140	-150	C0
ATOM 4519 CG LEU B 86	-57.071	-1.120	19.835	1.00	33.45		C0
ANISOU 4519 CG LEU B 86	3740	5210	3750	-110	-200	-180	C0
ATOM 4520 CD1 LEU B 86	-57.434	-2.557	20.171	1.00	33.51		C0
ANISOU 4520 CD1 LEU B 86	3670	5260	3800	-210	-190	-230	C0
ATOM 4521 CD2 LEU B 86	-58.294	-0.224	19.926	1.00	34.87		C0
ANISOU 4521 CD2 LEU B 86	3850	5470	3930	10	-230	-150	C0
ATOM 4522 H LEU B 86	-54.949	0.387	18.712	1.00	31.77		H0
ANISOU 4522 H LEU B 86	3750	4850	3470	-70	-170	-90	H0
ATOM 4523 HA LEU B 86	-56.388	1.421	20.769	1.00	32.70		H0
ANISOU 4523 HA LEU B 86	3820	4960	3650	40	-150	-90	H0
ATOM 4524 HB2 LEU B 86	-55.151	-1.143	20.576	1.00	31.84		H0
ANISOU 4524 HB2 LEU B 86	3660	4860	3580	-170	-120	-160	H0
ATOM 4525 HB3 LEU B 86	-56.219	-0.761	21.674	1.00	32.16		H0
ANISOU 4525 HB3 LEU B 86	3640	4930	3650	-120	-110	-170	H0
ATOM 4526 HG LEU B 86	-56.742	-1.097	18.904	1.00	33.63		H0
ANISOU 4526 HG LEU B 86	3800	5240	3730	-110	-230	-170	H0
ATOM 4527 HD11 LEU B 86	-56.644	-3.119	20.089	1.00	32.98		H0
ANISOU 4527 HD11 LEU B 86	3660	5140	3730	-270	-170	-240	H0
ATOM 4528 HD12 LEU B 86	-58.120	-2.871	19.558	1.00	34.15		H0
ANISOU 4528 HD12 LEU B 86	3700	5420	3860	-230	-240	-250	H0
ATOM 4529 HD13 LEU B 86	-57.769	-2.602	21.084	1.00	33.42		H0
ANISOU 4529 HD13 LEU B 86	3620	5250	3830	-210	-150	-230	H0
ATOM 4530 HD21 LEU B 86	-58.445	0.027	20.854	1.00	34.61		H0
ANISOU 4530 HD21 LEU B 86	3810	5410	3930	30	-190	-150	H0
ATOM 4531 HD22 LEU B 86	-59.072	-0.700	19.589	1.00	35.34		H0
ANISOU 4531 HD22 LEU B 86	3820	5620	3990	-10	-270	-170	H0
ATOM 4532 HD23 LEU B 86	-58.150	0.578	19.394	1.00	35.01		H0
ANISOU 4532 HD23 LEU B 86	3930	5460	3910	70	-250	-120	H0
ATOM 4533 N ALA B 87	-54.826	1.929	22.623	1.00	31.58		N0

ANISOU 4533 N ALA B 87	3800	4640	3560	-20	-80	-90	N0
ATOM 4534 CA ALA B 87	-53.904	2.277	23.719	1.00	31.46		C0
ANISOU 4534 CA ALA B 87	3870	4530	3560	-70	-60	-100	C0
ATOM 4535 C ALA B 87	-54.546	1.869	25.046	1.00	32.05		C0
ANISOU 4535 C ALA B 87	3900	4620	3650	-40	-20	-140	C0
ATOM 4536 O ALA B 87	-55.785	2.024	25.195	1.00	32.65		O0
ANISOU 4536 O ALA B 87	3930	4750	3720	50	-10	-140	O0
ATOM 4537 CB ALA B 87	-53.590	3.748	23.675	1.00	32.52		C0
ANISOU 4537 CB ALA B 87	4130	4550	3670	-30	-60	-70	C0
ATOM 4538 H ALA B 87	-55.675	2.219	22.779	1.00	32.13		H0
ANISOU 4538 H ALA B 87	3850	4740	3620	50	-80	-100	H0
ATOM 4539 HA ALA B 87	-53.068	1.767	23.605	1.00	31.18		H0
ANISOU 4539 HA ALA B 87	3820	4490	3540	-140	-50	-100	H0
ATOM 4540 HB1 ALA B 87	-52.983	3.973	24.400	1.00	32.32		H0
ANISOU 4540 HB1 ALA B 87	4160	4470	3650	-70	-60	-80	H0
ATOM 4541 HB2 ALA B 87	-53.172	3.966	22.825	1.00	32.52		H0
ANISOU 4541 HB2 ALA B 87	4160	4540	3660	-50	-70	-40	H0
ATOM 4542 HB3 ALA B 87	-54.411	4.259	23.771	1.00	32.95		H0
ANISOU 4542 HB3 ALA B 87	4200	4610	3710	60	-60	-70	H0
ATOM 4543 N ALA B 88	-53.738	1.339	25.964	1.00	31.72		N0
ANISOU 4543 N ALA B 88	3880	4550	3630	-110	-10	-160	N0
ATOM 4544 CA ALA B 88	-54.138	1.105	27.362	1.00	31.99		C0
ANISOU 4544 CA ALA B 88	3920	4580	3650	-80	30	-190	C0
ATOM 4545 C ALA B 88	-53.967	2.435	28.099	1.00	33.41		C0
ANISOU 4545 C ALA B 88	4230	4660	3800	-30	20	-190	C0
ATOM 4546 O ALA B 88	-52.814	2.863	28.314	1.00	33.29		O0
ANISOU 4546 O ALA B 88	4300	4570	3780	-100	-10	-190	O0
ATOM 4547 CB ALA B 88	-53.337	-0.021	27.954	1.00	31.56		C0
ANISOU 4547 CB ALA B 88	3850	4530	3610	-160	40	-200	C0
ATOM 4548 H ALA B 88	-52.878	1.087	25.796	1.00	31.40		H0
ANISOU 4548 H ALA B 88	3850	4490	3590	-170	-20	-150	H0
ATOM 4549 HA ALA B 88	-55.089	0.856	27.377	1.00	32.40		H0
ANISOU 4549 HA ALA B 88	3910	4690	3710	-40	50	-190	H0
ATOM 4550 HB1 ALA B 88	-53.786	-0.351	28.749	1.00	31.64		H0
ANISOU 4550 HB1 ALA B 88	3850	4550	3620	-140	70	-210	H0
ATOM 4551 HB2 ALA B 88	-53.259	-0.740	27.305	1.00	31.23		H0
ANISOU 4551 HB2 ALA B 88	3750	4530	3590	-200	40	-190	H0
ATOM 4552 HB3 ALA B 88	-52.450	0.297	28.191	1.00	31.45		H0
ANISOU 4552 HB3 ALA B 88	3890	4470	3590	-190	10	-200	H0
ATOM 4553 N TYR B 89	-55.084	3.091	28.410	1.00	35.10		N0
ANISOU 4553 N TYR B 89	4470	4880	3990	90	50	-200	N0
ATOM 4554 CA TYR B 89	-55.136	4.506	28.865	1.00	36.88		C0
ANISOU 4554 CA TYR B 89	4850	4990	4170	170	50	-200	C0
ATOM 4555 C TYR B 89	-54.291	4.701	30.130	1.00	36.58		C0
ANISOU 4555 C TYR B 89	4930	4860	4100	120	40	-240	C0
ATOM 4556 O TYR B 89	-53.632	5.755	30.226	1.00	36.80		O0
ANISOU 4556 O TYR B 89	5110	4770	4100	90	0	-250	O0
ATOM 4557 CB TYR B 89	-56.596	4.952	29.004	1.00	39.17		C0
ANISOU 4557 CB TYR B 89	5110	5330	4440	340	100	-200	C0
ATOM 4558 CG TYR B 89	-57.355	5.011	27.698	1.00	40.22		C0
ANISOU 4558 CG TYR B 89	5140	5550	4590	400	80	-160	C0
ATOM 4559 CD1 TYR B 89	-56.687	5.129	26.489	1.00	41.01		C0
ANISOU 4559 CD1 TYR B 89	5260	5620	4700	330	20	-130	C0
ATOM 4560 CD2 TYR B 89	-58.742	5.006	27.661	1.00	42.41		C0

ANISOU 4560 CD2 TYR B 89	5310	5940	4870	540	110	-140	C0
ATOM 4561 CE1 TYR B 89	-57.364	5.198	25.284	1.00	42.28		C0
ANISOU 4561 CE1 TYR B 89	5340	5860	4860	390	-10	-90	C0
ATOM 4562 CE2 TYR B 89	-59.437	5.079	26.462	1.00	43.65		C0
ANISOU 4562 CE2 TYR B 89	5360	6190	5030	600	70	-110	C0
ATOM 4563 CZ TYR B 89	-58.744	5.167	25.265	1.00	43.28		C0
ANISOU 4563 CZ TYR B 89	5350	6110	4980	530	10	-80	C0
ATOM 4564 OH TYR B 89	-59.383	5.247	24.058	1.00	45.75		O0
ANISOU 4564 OH TYR B 89	5590	6510	5280	590	-40	-50	O0
ATOM 4565 H TYR B 89	-55.909	2.707	28.374	1.00	35.24		H0
ANISOU 4565 H TYR B 89	4400	4970	4020	130	80	-190	H0
ATOM 4566 HA TYR B 89	-54.721	5.059	28.158	1.00	37.00		H0
ANISOU 4566 HA TYR B 89	4910	4950	4190	150	10	-180	H0
ATOM 4567 HB2 TYR B 89	-57.054	4.333	29.611	1.00	38.99		H0
ANISOU 4567 HB2 TYR B 89	5020	5370	4420	350	140	-210	H0
ATOM 4568 HB3 TYR B 89	-56.608	5.840	29.416	1.00	39.75		H0
ANISOU 4568 HB3 TYR B 89	5310	5310	4480	410	100	-210	H0
ATOM 4569 HD1 TYR B 89	-55.747	5.142	26.479	1.00	40.52		H0
ANISOU 4569 HD1 TYR B 89	5250	5490	4650	240	0	-130	H0
ATOM 4570 HD2 TYR B 89	-59.224	4.937	28.469	1.00	42.70		H0
ANISOU 4570 HD2 TYR B 89	5330	6000	4900	590	160	-160	H0
ATOM 4571 HE1 TYR B 89	-56.884	5.263	24.475	1.00	41.87		H0
ANISOU 4571 HE1 TYR B 89	5310	5790	4800	350	-40	-70	H0
ATOM 4572 HE2 TYR B 89	-60.380	5.057	26.460	1.00	44.18		H0
ANISOU 4572 HE2 TYR B 89	5330	6350	5100	690	90	-100	H0
ATOM 4573 N ASN B 90	-54.247	3.708	31.026	1.00	35.74		N0
ANISOU 4573 N ASN B 90	4770	4820	3990	90	60	-260	N0
ATOM 4574 CA ASN B 90	-53.557	3.815	32.341	1.00	35.77		C0
ANISOU 4574 CA ASN B 90	4890	4760	3940	60	50	-300	C0
ATOM 4575 C ASN B 90	-52.238	3.031	32.316	1.00	34.59		C0
ANISOU 4575 C ASN B 90	4690	4630	3820	-70	-10	-300	C0
ATOM 4576 O ASN B 90	-51.684	2.766	33.399	1.00	33.61		O0
ANISOU 4576 O ASN B 90	4630	4490	3650	-100	-30	-320	O0
ATOM 4577 CB ASN B 90	-54.472	3.385	33.496	1.00	36.52		C0
ANISOU 4577 CB ASN B 90	4990	4900	3990	160	130	-320	C0
ATOM 4578 CG ASN B 90	-54.981	1.964	33.364	1.00	36.41		C0
ANISOU 4578 CG ASN B 90	4810	5000	4020	130	180	-290	C0
ATOM 4579 OD1 ASN B 90	-55.423	1.557	32.293	1.00	35.28		O0
ANISOU 4579 OD1 ASN B 90	4540	4930	3940	110	190	-260	O0
ATOM 4580 ND2 ASN B 90	-54.940	1.210	34.452	1.00	37.28		N0
ANISOU 4580 ND2 ASN B 90	4940	5130	4090	130	220	-290	N0
ATOM 4581 H ASN B 90	-54.639	2.899	30.882	1.00	35.41		H0
ANISOU 4581 H ASN B 90	4630	4850	3970	90	90	-250	H0
ATOM 4582 HA ASN B 90	-53.339	4.765	32.488	1.00	36.42		H0
ANISOU 4582 HA ASN B 90	5090	4750	4000	70	20	-320	H0
ATOM 4583 HB2 ASN B 90	-53.980	3.471	34.336	1.00	36.84		H0
ANISOU 4583 HB2 ASN B 90	5120	4900	3980	140	110	-340	H0
ATOM 4584 HB3 ASN B 90	-55.238	3.993	33.532	1.00	37.25		H0
ANISOU 4584 HB3 ASN B 90	5110	4980	4060	250	160	-320	H0
ATOM 4585 HD21 ASN B 90	-54.757	0.347	34.385	1.00	36.60		H0
ANISOU 4585 HD21 ASN B 90	4790	5090	4030	70	230	-280	H0
ATOM 4586 HD22 ASN B 90	-55.097	1.568	35.245	1.00	37.62		H0
ANISOU 4586 HD22 ASN B 90	5070	5150	4080	180	240	-310	H0
ATOM 4587 N ALA B 91	-51.728	2.683	31.132	1.00	34.05		N0

ANISOU 4587 N ALA B 91	4530	4590	3810	-140	-30	-260	N0
ATOM 4588 CA ALA B 91	-50.359	2.138	30.970	1.00	33.72		C0
ANISOU 4588 CA ALA B 91	4440	4580	3790	-260	-90	-250	C0
ATOM 4589 C ALA B 91	-49.337	3.233	31.305	1.00	34.27		C0
ANISOU 4589 C ALA B 91	4620	4560	3840	-330	-160	-270	C0
ATOM 4590 O ALA B 91	-49.598	4.411	30.986	1.00	34.93		O0
ANISOU 4590 O ALA B 91	4800	4560	3920	-320	-160	-270	O0
ATOM 4591 CB ALA B 91	-50.154	1.604	29.574	1.00	33.77		C0
ANISOU 4591 CB ALA B 91	4340	4640	3850	-290	-80	-210	C0
ATOM 4592 H ALA B 91	-52.176	2.750	30.343	1.00	33.93		H0
ANISOU 4592 H ALA B 91	4470	4600	3820	-120	-20	-240	H0
ATOM 4593 HA ALA B 91	-50.242	1.398	31.611	1.00	33.62		H0
ANISOU 4593 HA ALA B 91	4410	4600	3770	-250	-80	-260	H0
ATOM 4594 HB1 ALA B 91	-49.232	1.314	29.470	1.00	33.47		H0
ANISOU 4594 HB1 ALA B 91	4270	4620	3830	-350	-100	-200	H0
ATOM 4595 HB2 ALA B 91	-50.747	0.850	29.424	1.00	33.21		H0
ANISOU 4595 HB2 ALA B 91	4210	4620	3790	-260	-40	-210	H0
ATOM 4596 HB3 ALA B 91	-50.347	2.302	28.926	1.00	33.78		H0
ANISOU 4596 HB3 ALA B 91	4370	4610	3860	-280	-80	-200	H0
ATOM 4597 N ILE B 92	-48.229	2.860	31.949	1.00	34.09		N0
ANISOU 4597 N ILE B 92	4580	4570	3810	-410	-220	-280	N0
ATOM 4598 CA ILE B 92	-47.115	3.792	32.303	1.00	35.58		C0
ANISOU 4598 CA ILE B 92	4840	4700	3990	-520	-300	-290	C0
ATOM 4599 C ILE B 92	-45.817	3.352	31.608	1.00	35.53		C0
ANISOU 4599 C ILE B 92	4690	4780	4040	-630	-340	-250	C0
ATOM 4600 O ILE B 92	-44.798	4.007	31.817	1.00	36.52		O0
ANISOU 4600 O ILE B 92	4830	4890	4170	-750	-420	-260	O0
ATOM 4601 CB ILE B 92	-46.971	3.923	33.837	1.00	35.84		C0
ANISOU 4601 CB ILE B 92	4980	4700	3940	-510	-360	-350	C0
ATOM 4602 CG1 ILE B 92	-46.697	2.592	34.538	1.00	35.21		C0
ANISOU 4602 CG1 ILE B 92	4810	4730	3840	-470	-360	-340	C0
ATOM 4603 CG2 ILE B 92	-48.205	4.603	34.411	1.00	36.57		C0
ANISOU 4603 CG2 ILE B 92	5220	4700	3970	-400	-310	-390	C0
ATOM 4604 CD1 ILE B 92	-46.306	2.742	36.001	1.00	36.77		C0
ANISOU 4604 CD1 ILE B 92	5120	4910	3940	-470	-440	-390	C0
ATOM 4605 H ILE B 92	-48.091	2.004	32.229	1.00	33.95		H0
ANISOU 4605 H ILE B 92	4500	4610	3790	-400	-210	-270	H0
ATOM 4606 HA ILE B 92	-47.347	4.672	31.957	1.00	35.81		H0
ANISOU 4606 HA ILE B 92	4940	4650	4010	-530	-300	-300	H0
ATOM 4607 HB ILE B 92	-46.198	4.513	34.012	1.00	36.74		H0
ANISOU 4607 HB ILE B 92	5130	4790	4050	-600	-430	-370	H0
ATOM 4608 HG12 ILE B 92	-47.502	2.034	34.483	1.00	34.80		H0
ANISOU 4608 HG12 ILE B 92	4740	4700	3780	-390	-290	-330	H0
ATOM 4609 HG13 ILE B 92	-45.975	2.126	34.065	1.00	35.17		H0
ANISOU 4609 HG13 ILE B 92	4700	4790	3870	-520	-380	-310	H0
ATOM 4610 HG21 ILE B 92	-48.361	5.443	33.945	1.00	36.85		H0
ANISOU 4610 HG21 ILE B 92	5330	4660	4010	-410	-310	-390	H0
ATOM 4611 HG22 ILE B 92	-48.071	4.780	35.357	1.00	37.11		H0
ANISOU 4611 HG22 ILE B 92	5380	4740	3970	-390	-340	-430	H0
ATOM 4612 HG23 ILE B 92	-48.979	4.024	34.298	1.00	35.86		H0
ANISOU 4612 HG23 ILE B 92	5080	4660	3890	-310	-240	-380	H0
ATOM 4613 HD11 ILE B 92	-45.625	3.432	36.086	1.00	37.37		H0
ANISOU 4613 HD11 ILE B 92	5230	4960	4010	-560	-510	-410	H0
ATOM 4614 HD12 ILE B 92	-45.953	1.899	36.333	1.00	36.44		H0

ANISOU 4614 HD12 ILE B 92	5010	4950	3890	-460	-450	-370	H0
ATOM 4615 HD13 ILE B 92	-47.087	2.993	36.523	1.00	36.78		H0
ANISOU 4615 HD13 ILE B 92	5220	4870	3890	-400	-400	-420	H0
ATOM 4616 N SER B 93	-45.865	2.298	30.791	1.00	36.28		N0
ANISOU 4616 N SER B 93	4650	4960	4170	-590	-280	-210	N0
ATOM 4617 CA SER B 93	-44.754	1.824	29.925	1.00	37.26		C0
ANISOU 4617 CA SER B 93	4640	5170	4340	-650	-290	-160	C0
ATOM 4618 C SER B 93	-45.310	1.535	28.529	1.00	37.58		C0
ANISOU 4618 C SER B 93	4640	5230	4410	-610	-210	-130	C0
ATOM 4619 O SER B 93	-46.497	1.196	28.428	1.00	38.28		O0
ANISOU 4619 O SER B 93	4760	5300	4490	-530	-160	-140	O0
ATOM 4620 CB SER B 93	-44.083	0.602	30.506	1.00	36.97		C0
ANISOU 4620 CB SER B 93	4510	5240	4300	-620	-300	-150	C0
ATOM 4621 OG SER B 93	-44.837	-0.572	30.223	1.00	36.23		O0
ANISOU 4621 OG SER B 93	4390	5170	4210	-520	-230	-150	O0
ATOM 4622 H SER B 93	-46.604	1.774	30.705	1.00	35.52		H0
ANISOU 4622 H SER B 93	4550	4880	4070	-520	-240	-210	H0
ATOM 4623 HA SER B 93	-44.081	2.553	29.850	1.00	37.95		H0
ANISOU 4623 HA SER B 93	4730	5240	4440	-740	-330	-150	H0
ATOM 4624 HB2 SER B 93	-43.180	0.513	30.126	1.00	37.44		H0
ANISOU 4624 HB2 SER B 93	4480	5360	4390	-670	-320	-120	H0
ATOM 4625 HB3 SER B 93	-43.996	0.710	31.481	1.00	37.45		H0
ANISOU 4625 HB3 SER B 93	4620	5290	4330	-620	-350	-180	H0
ATOM 4626 N LYS B 94	-44.487	1.677	27.490	1.00	39.69		N0
ANISOU 4626 N LYS B 94	4830	5530	4710	-680	-190	-80	N0
ATOM 4627 CA LYS B 94	-44.837	1.231	26.116	1.00	39.74		C0
ANISOU 4627 CA LYS B 94	4800	5570	4730	-630	-120	-40	C0
ATOM 4628 C LYS B 94	-45.085	-0.272	26.179	1.00	37.73		C0
ANISOU 4628 C LYS B 94	4480	5390	4470	-550	-90	-60	C0
ATOM 4629 O LYS B 94	-44.427	-0.972	26.947	1.00	36.34		O0
ANISOU 4629 O LYS B 94	4260	5260	4290	-540	-110	-60	O0
ATOM 4630 CB LYS B 94	-43.729	1.590	25.118	1.00	41.85		C0
ANISOU 4630 CB LYS B 94	5000	5890	5020	-710	-100	10	C0
ATOM 4631 CG LYS B 94	-43.581	3.081	24.838	1.00	44.81		C0
ANISOU 4631 CG LYS B 94	5460	6170	5400	-810	-120	40	C0
ATOM 4632 CD LYS B 94	-42.413	3.451	23.929	1.00	46.80		C0
ANISOU 4632 CD LYS B 94	5630	6470	5680	-920	-80	110	C0
ATOM 4633 CE LYS B 94	-42.749	3.380	22.452	1.00	47.95		C0
ANISOU 4633 CE LYS B 94	5790	6630	5800	-870	0	160	C0
ATOM 4634 NZ LYS B 94	-41.820	4.198	21.634	1.00	50.28		N0
ANISOU 4634 NZ LYS B 94	6070	6930	6110	-990	50	240	N0
ATOM 4635 H LYS B 94	-43.661	2.055	27.562	1.00	40.05		H0
ANISOU 4635 H LYS B 94	4850	5590	4770	-750	-220	-60	H0
ATOM 4636 HA LYS B 94	-45.669	1.683	25.847	1.00	39.49		H0
ANISOU 4636 HA LYS B 94	4830	5490	4680	-600	-110	-50	H0
ATOM 4637 HB2 LYS B 94	-42.877	1.251	25.465	1.00	42.33		H0
ANISOU 4637 HB2 LYS B 94	4980	6010	5100	-750	-120	20	H0
ATOM 4638 HB3 LYS B 94	-43.912	1.130	24.272	1.00	41.69		H0
ANISOU 4638 HB3 LYS B 94	4950	5900	4990	-670	-50	30	H0
ATOM 4639 HG2 LYS B 94	-44.413	3.402	24.431	1.00	44.29		H0
ANISOU 4639 HG2 LYS B 94	5470	6050	5310	-770	-100	40	H0
ATOM 4640 HG3 LYS B 94	-43.472	3.548	25.694	1.00	44.90		H0
ANISOU 4640 HG3 LYS B 94	5510	6140	5410	-860	-170	10	H0
ATOM 4641 HD2 LYS B 94	-42.121	4.362	24.142	1.00	47.66		H0

ANISOU 4641	HD2 LYS B 94	5790	6520	5800	-1020	-110	120	H0
ATOM 4642	HD3 LYS B 94	-41.664	2.845	24.112	1.00	47.01		H0
ANISOU 4642	HD3 LYS B 94	5550	6590	5720	-930	-80	120	H0
ATOM 4643	HE2 LYS B 94	-42.700	2.452	22.152	1.00	47.41		H0
ANISOU 4643	HE2 LYS B 94	5660	6640	5720	-810	30	160	H0
ATOM 4644	HE3 LYS B 94	-43.660	3.695	22.306	1.00	47.52		H0
ANISOU 4644	HE3 LYS B 94	5830	6500	5720	-820	0	150	H0
ATOM 4645	HZ1 LYS B 94	-41.894	5.072	21.866	1.00	50.48		H0
ANISOU 4645	HZ1 LYS B 94	6180	6860	6140	-1060	20	240	H0
ATOM 4646	HZ2 LYS B 94	-42.022	4.106	20.755	1.00	49.91		H0
ANISOU 4646	HZ2 LYS B 94	6040	6890	6030	-950	100	270	H0
ATOM 4647	HZ3 LYS B 94	-40.966	3.925	21.773	1.00	50.40		H0
ANISOU 4647	HZ3 LYS B 94	5980	7020	6150	-1040	50	260	H0
ATOM 4648	N PROB 95	-46.042	-0.815	25.394	1.00	36.16		N0
ANISOU 4648	N PROB 95	4300	5190	4260	-480	-40	-70	N0
ATOM 4649	CA PROB 95	-46.256	-2.258	25.359	1.00	35.43		C0
ANISOU 4649	CA PROB 95	4170	5130	4160	-420	-10	-80	C0
ATOM 4650	C PROB 95	-44.969	-2.964	24.896	1.00	35.42		C0
ANISOU 4650	C PROB 95	4090	5200	4160	-420	10	-50	C0
ATOM 4651	O PROB 95	-44.351	-2.502	23.959	1.00	36.42		O0
ANISOU 4651	O PROB 95	4190	5360	4290	-450	40	-20	O0
ATOM 4652	CB PROB 95	-47.446	-2.467	24.407	1.00	35.25		C0
ANISOU 4652	CB PROB 95	4170	5100	4120	-390	20	-100	C0
ATOM 4653	CG PROB 95	-47.660	-1.143	23.693	1.00	35.71		C0
ANISOU 4653	CG PROB 95	4270	5130	4170	-410	0	-70	C0
ATOM 4654	CD PROB 95	-46.954	-0.078	24.509	1.00	36.61		C0
ANISOU 4654	CD PROB 95	4410	5200	4300	-470	-30	-60	C0
ATOM 4655	HA PROB 95	-46.505	-2.571	26.264	1.00	35.31		H0
ANISOU 4655	HA PROB 95	4170	5100	4140	-410	-20	-100	H0
ATOM 4656	HB2 PROB 95	-47.251	-3.178	23.759	1.00	35.26		H0
ANISOU 4656	HB2 PROB 95	4160	5130	4110	-380	40	-100	H0
ATOM 4657	HB3 PROB 95	-48.250	-2.718	24.910	1.00	35.04		H0
ANISOU 4657	HB3 PROB 95	4160	5060	4090	-370	10	-120	H0
ATOM 4658	HG2 PROB 95	-47.288	-1.180	22.788	1.00	35.98		H0
ANISOU 4658	HG2 PROB 95	4290	5190	4190	-420	20	-50	H0
ATOM 4659	HG3 PROB 95	-48.616	-0.943	23.627	1.00	35.72		H0
ANISOU 4659	HG3 PROB 95	4290	5120	4160	-390	-10	-90	H0
ATOM 4660	HD2 PROB 95	-46.458	0.528	23.929	1.00	36.80		H0
ANISOU 4660	HD2 PROB 95	4440	5220	4330	-510	-30	-30	H0
ATOM 4661	HD3 PROB 95	-47.595	0.441	25.029	1.00	36.41		H0
ANISOU 4661	HD3 PROB 95	4430	5130	4270	-450	-50	-80	H0
ATOM 4662	N GLU B 96	-44.549	-4.000	25.625	1.00	34.47		N0
ANISOU 4662	N GLU B 96	3950	5110	4040	-370	20	-60	N0
ATOM 4663	CA GLU B 96	-43.417	-4.882	25.251	1.00	35.12		C0
ANISOU 4663	CA GLU B 96	3960	5260	4120	-320	50	-30	C0
ATOM 4664	C GLU B 96	-44.015	-6.102	24.539	1.00	33.42		C0
ANISOU 4664	C GLU B 96	3810	5020	3880	-250	110	-50	C0
ATOM 4665	O GLU B 96	-44.518	-7.009	25.239	1.00	32.06		O0
ANISOU 4665	O GLU B 96	3690	4800	3700	-210	120	-80	O0
ATOM 4666	CB GLU B 96	-42.579	-5.250	26.480	1.00	36.19		C0
ANISOU 4666	CB GLU B 96	4060	5440	4260	-290	10	-10	C0
ATOM 4667	CG GLU B 96	-41.321	-6.038	26.146	1.00	38.42		C0
ANISOU 4667	CG GLU B 96	4240	5820	4540	-220	40	30	C0
ATOM 4668	CD GLU B 96	-40.435	-6.405	27.332	1.00	41.00		C0

ANISOU 4668	CD GLU B 96	4510	6210	4860	-170	-20	50	C0
ATOM 4669	OE1 GLU B 96	-39.459	-7.174	27.127	1.00	42.28		O0
ANISOU 4669	OE1 GLU B 96	4590	6460	5010	-70	10	90	O0
ATOM 4670	OE2 GLU B 96	-40.704	-5.911	28.456	1.00	41.43		O0
ANISOU 4670	OE2 GLU B 96	4600	6240	4900	-210	-90	30	O0
ATOM 4671	H GLU B 96	-44.944	-4.232	26.413	1.00	34.56		H0
ANISOU 4671	H GLU B 96	4000	5090	4040	-360	0	-80	H0
ATOM 4672	HA GLU B 96	-42.842	-4.398	24.615	1.00	35.28		H0
ANISOU 4672	HA GLU B 96	3940	5320	4150	-350	60	0	H0
ATOM 4673	HB2 GLU B 96	-42.325	-4.425	26.944	1.00	36.60		H0
ANISOU 4673	HB2 GLU B 96	4090	5500	4320	-350	-40	-10	H0
ATOM 4674	HB3 GLU B 96	-43.131	-5.780	27.090	1.00	36.06		H0
ANISOU 4674	HB3 GLU B 96	4100	5380	4220	-260	10	-40	H0
ATOM 4675	HG2 GLU B 96	-41.580	-6.868	25.692	1.00	38.37		H0
ANISOU 4675	HG2 GLU B 96	4280	5790	4510	-150	90	20	H0
ATOM 4676	HG3 GLU B 96	-40.783	-5.516	25.514	1.00	38.89		H0
ANISOU 4676	HG3 GLU B 96	4240	5930	4610	-260	50	50	H0
ATOM 4677	N VAL B 97	-43.982	-6.105	23.202	1.00	31.87		N0
ANISOU 4677	N VAL B 97	3610	4840	3660	-250	160	-50	N0
ATOM 4678	CA VAL B 97	-44.559	-7.196	22.361	1.00	31.71		C0
ANISOU 4678	CA VAL B 97	3660	4780	3600	-200	200	-80	C0
ATOM 4679	C VAL B 97	-43.589	-8.380	22.369	1.00	31.53		C0
ANISOU 4679	C VAL B 97	3640	4780	3560	-100	250	-70	C0
ATOM 4680	O VAL B 97	-42.473	-8.231	21.853	1.00	33.01		O0
ANISOU 4680	O VAL B 97	3750	5050	3740	-60	290	-30	O0
ATOM 4681	CB VAL B 97	-44.862	-6.731	20.925	1.00	32.18		C0
ANISOU 4681	CB VAL B 97	3750	4850	3630	-220	220	-90	C0
ATOM 4682	CG1 VAL B 97	-45.492	-7.852	20.108	1.00	32.51		C0
ANISOU 4682	CG1 VAL B 97	3880	4860	3620	-180	250	-140	C0
ATOM 4683	CG2 VAL B 97	-45.748	-5.492	20.904	1.00	32.11		C0
ANISOU 4683	CG2 VAL B 97	3740	4830	3630	-290	170	-80	C0
ATOM 4684	H VAL B 97	-43.591	-5.440	22.719	1.00	32.47		H0
ANISOU 4684	H VAL B 97	3650	4940	3740	-280	160	-20	H0
ATOM 4685	HA VAL B 97	-45.395	-7.482	22.771	1.00	31.31		H0
ANISOU 4685	HA VAL B 97	3660	4680	3560	-210	180	-110	H0
ATOM 4686	HB VAL B 97	-44.000	-6.494	20.501	1.00	32.66		H0
ANISOU 4686	HB VAL B 97	3760	4970	3680	-200	250	-50	H0
ATOM 4687	HG11 VAL B 97	-44.794	-8.441	19.770	1.00	32.99		H0
ANISOU 4687	HG11 VAL B 97	3950	4930	3650	-120	300	-130	H0
ATOM 4688	HG12 VAL B 97	-45.984	-7.474	19.362	1.00	32.53		H0
ANISOU 4688	HG12 VAL B 97	3900	4860	3590	-200	240	-150	H0
ATOM 4689	HG13 VAL B 97	-46.100	-8.362	20.671	1.00	32.26		H0
ANISOU 4689	HG13 VAL B 97	3880	4780	3600	-190	230	-170	H0
ATOM 4690	HG21 VAL B 97	-46.551	-5.658	21.429	1.00	31.65		H0
ANISOU 4690	HG21 VAL B 97	3710	4730	3590	-300	140	-110	H0
ATOM 4691	HG22 VAL B 97	-45.998	-5.286	19.987	1.00	32.18		H0
ANISOU 4691	HG22 VAL B 97	3770	4840	3610	-290	180	-80	H0
ATOM 4692	HG23 VAL B 97	-45.264	-4.738	21.283	1.00	32.05		H0
ANISOU 4692	HG23 VAL B 97	3690	4830	3650	-320	160	-50	H0
ATOM 4693	N LEU B 98	-44.019	-9.517	22.913	1.00	30.99		N0
ANISOU 4693	N LEU B 98	3660	4640	3480	-50	260	-100	N0
ATOM 4694	CA LEU B 98	-43.175	-10.720	23.139	1.00	32.14		C0
ANISOU 4694	CA LEU B 98	3830	4780	3600	70	310	-90	C0
ATOM 4695	C LEU B 98	-43.186	-11.654	21.920	1.00	32.17		C0

ANISOU 4695 C LEU B 98	3930	4740	3550	130	380	-120	C0
ATOM 4696 O LEU B 98	-42.310	-12.523	21.860	1.00	33.70		O0
ANISOU 4696 O LEU B 98	4150	4940	3710	260	440	-100	O0
ATOM 4697 CB LEU B 98	-43.702	-11.450	24.376	1.00	32.28		C0
ANISOU 4697 CB LEU B 98	3930	4710	3620	80	290	-100	C0
ATOM 4698 CG LEU B 98	-43.732	-10.616	25.655	1.00	32.24		C0
ANISOU 4698 CG LEU B 98	3860	4740	3650	30	230	-70	C0
ATOM 4699 CD1 LEU B 98	-44.411	-11.379	26.782	1.00	32.53		C0
ANISOU 4699 CD1 LEU B 98	4000	4690	3670	40	230	-80	C0
ATOM 4700 CD2 LEU B 98	-42.328	-10.203	26.057	1.00	32.69		C0
ANISOU 4700 CD2 LEU B 98	3790	4910	3720	80	200	-20	C0
ATOM 4701 H LEU B 98	-44.883	-9.628	23.182	1.00	30.86		H0
ANISOU 4701 H LEU B 98	3690	4570	3470	-90	250	-130	H0
ATOM 4702 HA LEU B 98	-42.250	-10.425	23.301	1.00	32.37		H0
ANISOU 4702 HA LEU B 98	3770	4880	3640	100	310	-50	H0
ATOM 4703 HB2 LEU B 98	-44.609	-11.764	24.187	1.00	32.10		H0
ANISOU 4703 HB2 LEU B 98	3980	4620	3600	30	300	-140	H0
ATOM 4704 HB3 LEU B 98	-43.142	-12.237	24.531	1.00	32.95		H0
ANISOU 4704 HB3 LEU B 98	4050	4780	3690	170	320	-80	H0
ATOM 4705 HG LEU B 98	-44.256	-9.797	25.479	1.00	31.66		H0
ANISOU 4705 HG LEU B 98	3760	4670	3600	-50	200	-90	H0
ATOM 4706 HD11 LEU B 98	-45.323	-11.597	26.523	1.00	32.20		H0
ANISOU 4706 HD11 LEU B 98	4010	4590	3640	-20	250	-110	H0
ATOM 4707 HD12 LEU B 98	-44.426	-10.828	27.584	1.00	32.23		H0
ANISOU 4707 HD12 LEU B 98	3930	4680	3650	10	190	-70	H0
ATOM 4708 HD13 LEU B 98	-43.920	-12.199	26.961	1.00	33.04		H0
ANISOU 4708 HD13 LEU B 98	4100	4730	3720	120	260	-60	H0
ATOM 4709 HD21 LEU B 98	-41.736	-10.973	26.003	1.00	33.40		H0
ANISOU 4709 HD21 LEU B 98	3890	5010	3790	180	230	0	H0
ATOM 4710 HD22 LEU B 98	-42.337	-9.864	26.969	1.00	32.64		H0
ANISOU 4710 HD22 LEU B 98	3770	4910	3720	60	150	-10	H0
ATOM 4711 HD23 LEU B 98	-42.009	-9.507	25.456	1.00	32.72		H0
ANISOU 4711 HD23 LEU B 98	3720	4970	3740	40	200	-10	H0
ATOM 4712 N THR B 99	-44.130	-11.489	20.993	1.00	31.36		N0
ANISOU 4712 N THR B 99	3890	4600	3420	60	370	-170	N0
ATOM 4713 CA THR B 99	-44.457	-12.502	19.952	1.00	32.15		C0
ANISOU 4713 CA THR B 99	4140	4630	3460	90	420	-230	C0
ATOM 4714 C THR B 99	-44.191	-11.943	18.557	1.00	32.06		C0
ANISOU 4714 C THR B 99	4110	4680	3390	100	440	-230	C0
ATOM 4715 O THR B 99	-44.119	-10.729	18.375	1.00	31.62		O0
ANISOU 4715 O THR B 99	3950	4710	3360	50	420	-190	O0
ATOM 4716 CB THR B 99	-45.903	-12.966	20.134	1.00	31.91		C0
ANISOU 4716 CB THR B 99	4200	4490	3430	-10	370	-300	C0
ATOM 4717 OG1 THR B 99	-46.710	-11.794	20.262	1.00	31.21		O0
ANISOU 4717 OG1 THR B 99	4020	4460	3380	-120	310	-290	O0
ATOM 4718 CG2 THR B 99	-46.073	-13.846	21.353	1.00	32.03		C0
ANISOU 4718 CG2 THR B 99	4280	4420	3470	-10	380	-290	C0
ATOM 4719 H THR B 99	-44.643	-10.740	20.925	1.00	30.98		H0
ANISOU 4719 H THR B 99	3810	4570	3390	-20	340	-170	H0
ATOM 4720 HA THR B 99	-43.866	-13.276	20.093	1.00	32.70		H0
ANISOU 4720 HA THR B 99	4250	4670	3500	190	460	-220	H0
ATOM 4721 HB THR B 99	-46.179	-13.467	19.330	1.00	32.48		H0
ANISOU 4721 HB THR B 99	4360	4520	3450	-20	390	-340	H0
ATOM 4722 HG21 THR B 99	-45.728	-14.737	21.163	1.00	32.79		H0

ANISOU 4722 HG21 THR B 99	4480	4450	3530	60	430	-310	H0
ATOM 4723 HG22 THR B 99	-47.017	-13.907	21.582	1.00	31.83		H0
ANISOU 4723 HG22 THR B 99	4280	4350	3460	-100	360	-320	H0
ATOM 4724 HG23 THR B 99	-45.583	-13.463	22.103	1.00	31.72		H0
ANISOU 4724 HG23 THR B 99	4170	4420	3460	20	380	-240	H0
ATOM 4725 N PRO B 100	-44.027	-12.804	17.527	1.00	32.52		N0
ANISOU 4725 N PRO B 100	4290	4700	3360	180	500	-270	N0
ATOM 4726 CA PRO B 100	-43.916	-12.329	16.150	1.00	33.18		C0
ANISOU 4726 CA PRO B 100	4390	4840	3370	190	530	-280	C0
ATOM 4727 C PRO B 100	-45.127	-11.462	15.791	1.00	32.41		C0
ANISOU 4727 C PRO B 100	4280	4750	3280	60	440	-300	C0
ATOM 4728 O PRO B 100	-46.240	-11.809	16.166	1.00	31.75		O0
ANISOU 4728 O PRO B 100	4250	4600	3220	-30	370	-360	O0
ATOM 4729 CB PRO B 100	-43.876	-13.611	15.302	1.00	34.19		C0
ANISOU 4729 CB PRO B 100	4710	4890	3400	280	580	-350	C0
ATOM 4730 CG PRO B 100	-43.377	-14.668	16.268	1.00	34.78		C0
ANISOU 4730 CG PRO B 100	4830	4880	3500	370	620	-350	C0
ATOM 4731 CD PRO B 100	-43.944	-14.268	17.617	1.00	33.31		C0
ANISOU 4731 CD PRO B 100	4550	4690	3420	260	550	-320	C0
ATOM 4732 HA PRO B 100	-43.074	-11.821	16.036	1.00	33.27		H0
ANISOU 4732 HA PRO B 100	4310	4940	3390	230	570	-220	H0
ATOM 4733 HB2 PRO B 100	-44.768	-13.839	14.963	1.00	34.34		H0
ANISOU 4733 HB2 PRO B 100	4810	4850	3390	210	530	-410	H0
ATOM 4734 HB3 PRO B 100	-43.263	-13.512	14.543	1.00	34.96		H0
ANISOU 4734 HB3 PRO B 100	4810	5040	3440	350	640	-330	H0
ATOM 4735 HG2 PRO B 100	-43.698	-15.555	16.007	1.00	35.37		H0
ANISOU 4735 HG2 PRO B 100	5050	4860	3530	390	640	-410	H0
ATOM 4736 HG3 PRO B 100	-42.399	-14.681	16.294	1.00	35.14		H0
ANISOU 4736 HG3 PRO B 100	4810	4990	3540	480	690	-300	H0
ATOM 4737 HD2 PRO B 100	-44.825	-14.661	17.759	1.00	33.31		H0
ANISOU 4737 HD2 PRO B 100	4630	4600	3420	190	510	-370	H0
ATOM 4738 HD3 PRO B 100	-43.352	-14.544	18.341	1.00	33.52		H0
ANISOU 4738 HD3 PRO B 100	4540	4720	3480	330	570	-280	H0
ATOM 4739 N GLN B 101	-44.884	-10.353	15.095	1.00	33.35		N0
ANISOU 4739 N GLN B 101	4330	4960	3380	40	440	-250	N0
ATOM 4740 CA GLN B 101	-45.938	-9.379	14.712	1.00	34.24		C0
ANISOU 4740 CA GLN B 101	4430	5090	3490	-50	360	-260	C0
ATOM 4741 C GLN B 101	-46.611	-9.847	13.412	1.00	34.38		C0
ANISOU 4741 C GLN B 101	4590	5090	3390	-40	340	-330	C0
ATOM 4742 O GLN B 101	-46.499	-9.152	12.384	1.00	35.35		O0
ANISOU 4742 O GLN B 101	4730	5270	3430	-20	350	-300	O0
ATOM 4743 CB GLN B 101	-45.332	-7.974	14.659	1.00	35.60		C0
ANISOU 4743 CB GLN B 101	4500	5340	3690	-70	380	-170	C0
ATOM 4744 CG GLN B 101	-44.972	-7.433	16.040	1.00	36.37		C0
ANISOU 4744 CG GLN B 101	4480	5440	3900	-110	360	-120	C0
ATOM 4745 CD GLN B 101	-46.186	-6.959	16.808	1.00	37.89		C0
ANISOU 4745 CD GLN B 101	4660	5590	4140	-180	270	-150	C0
ATOM 4746 OE1 GLN B 101	-47.173	-7.679	16.988	1.00	37.79		O0
ANISOU 4746 OE1 GLN B 101	4700	5530	4130	-200	220	-210	O0
ATOM 4747 NE2 GLN B 101	-46.133	-5.719	17.270	1.00	39.84		N0
ANISOU 4747 NE2 GLN B 101	4840	5850	4440	-230	240	-100	N0
ATOM 4748 H GLN B 101	-44.049	-10.129	14.806	1.00	33.82		H0
ANISOU 4748 H GLN B 101	4350	5070	3420	100	500	-210	H0
ATOM 4749 HA GLN B 101	-46.620	-9.388	15.419	1.00	33.57		H0

ANISOU 4749 HA GLN B 101	4330	4970	3450	-110	300	-280	H0
ATOM 4750 HB2 GLN B 101	-44.527	-7.999	14.101	1.00	36.19		H0
ANISOU 4750 HB2 GLN B 101	4570	5460	3720	-10	450	-140	H0
ATOM 4751 HB3 GLN B 101	-45.975	-7.370	14.235	1.00	35.50		H0
ANISOU 4751 HB3 GLN B 101	4500	5330	3650	-100	330	-170	H0
ATOM 4752 HG2 GLN B 101	-44.522	-8.137	16.555	1.00	36.59		H0
ANISOU 4752 HG2 GLN B 101	4500	5460	3950	-70	380	-130	H0
ATOM 4753 HG3 GLN B 101	-44.342	-6.688	15.938	1.00	36.70		H0
ANISOU 4753 HG3 GLN B 101	4460	5530	3950	-120	380	-60	H0
ATOM 4754 HE21 GLN B 101	-46.882	-5.288	17.465	1.00	38.79		H0
ANISOU 4754 HE21 GLN B 101	4720	5700	4320	-260	190	-110	H0
ATOM 4755 HE22 GLN B 101	-45.349	-5.320	17.387	1.00	39.23		H0
ANISOU 4755 HE22 GLN B 101	4720	5800	4380	-230	270	-50	H0
ATOM 4756 N LEU B 102	-47.294	-10.991	13.484	1.00	34.37		N0
ANISOU 4756 N LEU B 102	4690	5010	3360	-70	300	-420	N0
ATOM 4757 CA LEU B 102	-48.115	-11.580	12.397	1.00	35.48		C0
ANISOU 4757 CA LEU B 102	4970	5120	3390	-100	250	-510	C0
ATOM 4758 C LEU B 102	-49.582	-11.625	12.837	1.00	34.36		C0
ANISOU 4758 C LEU B 102	4790	4960	3300	-230	130	-560	C0
ATOM 4759 O LEU B 102	-49.853	-12.005	13.996	1.00	34.39		O0
ANISOU 4759 O LEU B 102	4750	4910	3410	-290	130	-570	O0
ATOM 4760 CB LEU B 102	-47.610	-12.991	12.087	1.00	37.70		C0
ANISOU 4760 CB LEU B 102	5420	5300	3600	-30	320	-580	C0
ATOM 4761 CG LEU B 102	-46.145	-13.115	11.670	1.00	39.22		C0
ANISOU 4761 CG LEU B 102	5630	5530	3740	130	450	-530	C0
ATOM 4762 CD1 LEU B 102	-45.841	-14.537	11.230	1.00	41.17		C0
ANISOU 4762 CD1 LEU B 102	6080	5660	3900	210	510	-610	C0
ATOM 4763 CD2 LEU B 102	-45.802	-12.137	10.558	1.00	39.95		C0
ANISOU 4763 CD2 LEU B 102	5700	5730	3750	170	480	-480	C0
ATOM 4764 H LEU B 102	-47.306	-11.494	14.242	1.00	34.23		H0
ANISOU 4764 H LEU B 102	4670	4940	3400	-80	310	-430	H0
ATOM 4765 HA LEU B 102	-48.036	-11.013	11.597	1.00	35.82		H0
ANISOU 4765 HA LEU B 102	5020	5220	3370	-80	250	-490	H0
ATOM 4766 HB2 LEU B 102	-47.750	-13.545	12.881	1.00	37.41		H0
ANISOU 4766 HB2 LEU B 102	5380	5200	3630	-60	310	-600	H0
ATOM 4767 HB3 LEU B 102	-48.164	-13.362	11.371	1.00	38.45		H0
ANISOU 4767 HB3 LEU B 102	5610	5370	3620	-60	270	-650	H0
ATOM 4768 HG LEU B 102	-45.580	-12.904	12.454	1.00	38.60		H0
ANISOU 4768 HG LEU B 102	5450	5470	3740	150	490	-470	H0
ATOM 4769 HD11 LEU B 102	-46.064	-15.154	11.949	1.00	40.88		H0
ANISOU 4769 HD11 LEU B 102	6070	5550	3910	180	500	-640	H0
ATOM 4770 HD12 LEU B 102	-44.894	-14.616	11.018	1.00	41.50		H0
ANISOU 4770 HD12 LEU B 102	6120	5740	3910	330	610	-570	H0
ATOM 4771 HD13 LEU B 102	-46.368	-14.754	10.442	1.00	41.75		H0
ANISOU 4771 HD13 LEU B 102	6270	5720	3880	180	470	-680	H0
ATOM 4772 HD21 LEU B 102	-46.525	-12.117	9.907	1.00	40.25		H0
ANISOU 4772 HD21 LEU B 102	5810	5760	3720	130	410	-530	H0
ATOM 4773 HD22 LEU B 102	-44.980	-12.418	10.119	1.00	40.60		H0
ANISOU 4773 HD22 LEU B 102	5820	5830	3770	270	570	-460	H0
ATOM 4774 HD23 LEU B 102	-45.679	-11.248	10.933	1.00	39.05		H0
ANISOU 4774 HD23 LEU B 102	5460	5680	3700	140	470	-410	H0
ATOM 4775 N ALA B 103	-50.487	-11.247	11.936	1.00	34.39		N0
ANISOU 4775 N ALA B 103	4810	5010	3240	-280	40	-600	N0
ATOM 4776 CA ALA B 103	-51.948	-11.442	12.055	1.00	34.50		C0

ANISOU 4776 CA ALA B 103	4800	5040	3270	-410	-90	-670	C0
ATOM 4777 C ALA B 103	-52.351	-12.650	11.206	1.00	35.58		C0
ANISOU 4777 C ALA B 103	5100	5110	3310	-460	-130	-780	C0
ATOM 4778 O ALA B 103	-51.713	-12.881	10.166	1.00	36.19		O0
ANISOU 4778 O ALA B 103	5320	5180	3260	-380	-90	-810	O0
ATOM 4779 CB ALA B 103	-52.678	-10.196	11.613	1.00	34.87		C0
ANISOU 4779 CB ALA B 103	4740	5200	3300	-410	-170	-620	C0
ATOM 4780 H ALA B 103	-50.262	-10.829	11.159	1.00	34.84		H0
ANISOU 4780 H ALA B 103	4900	5120	3220	-240	40	-580	H0
ATOM 4781 HA ALA B 103	-52.170	-11.628	12.997	1.00	34.00		H0
ANISOU 4781 HA ALA B 103	4670	4940	3300	-450	-80	-660	H0
ATOM 4782 HB1 ALA B 103	-53.637	-10.332	11.701	1.00	35.10		H0
ANISOU 4782 HB1 ALA B 103	4730	5260	3350	-490	-250	-660	H0
ATOM 4783 HB2 ALA B 103	-52.407	-9.446	12.169	1.00	33.86		H0
ANISOU 4783 HB2 ALA B 103	4530	5100	3240	-380	-140	-550	H0
ATOM 4784 HB3 ALA B 103	-52.463	-10.005	10.685	1.00	35.33		H0
ANISOU 4784 HB3 ALA B 103	4870	5290	3270	-360	-180	-630	H0
ATOM 4785 N ARG B 104	-53.360	-13.398	11.655	1.00	35.85		N0
ANISOU 4785 N ARG B 104	5130	5100	3390	-600	-200	-850	N0
ATOM 4786 CA ARG B 104	-54.041	-14.442	10.849	1.00	37.41		C0
ANISOU 4786 CA ARG B 104	5480	5240	3490	-710	-280	-980	C0
ATOM 4787 C ARG B 104	-55.203	-13.768	10.112	1.00	37.83		C0
ANISOU 4787 C ARG B 104	5430	5440	3500	-780	-440	-1000	C0
ATOM 4788 O ARG B 104	-56.023	-13.113	10.786	1.00	37.04		O0
ANISOU 4788 O ARG B 104	5140	5430	3500	-840	-490	-960	O0
ATOM 4789 CB ARG B 104	-54.493	-15.592	11.754	1.00	38.05		C0
ANISOU 4789 CB ARG B 104	5600	5190	3660	-840	-270	-1030	C0
ATOM 4790 CG ARG B 104	-54.857	-16.867	11.010	1.00	40.54		C0
ANISOU 4790 CG ARG B 104	6130	5390	3870	-950	-320	-1160	C0
ATOM 4791 CD ARG B 104	-53.677	-17.532	10.320	1.00	41.33		C0
ANISOU 4791 CD ARG B 104	6480	5370	3850	-810	-230	-1200	C0
ATOM 4792 NE ARG B 104	-54.086	-18.771	9.678	1.00	43.71		N0
ANISOU 4792 NE ARG B 104	7020	5530	4050	-920	-280	-1340	N0
ATOM 4793 CZ ARG B 104	-53.276	-19.591	9.016	1.00	45.41		C0
ANISOU 4793 CZ ARG B 104	7500	5620	4140	-810	-210	-1410	C0
ATOM 4794 NH1 ARG B 104	-51.987	-19.312	8.902	1.00	45.04		N0
ANISOU 4794 NH1 ARG B 104	7480	5580	4050	-580	-70	-1340	N0
ATOM 4795 NH2 ARG B 104	-53.759	-20.692	8.468	1.00	47.49		N0
ANISOU 4795 NH2 ARG B 104	7990	5740	4310	-930	-270	-1550	N0
ATOM 4796 H ARG B 104	-53.696	-13.309	12.497	1.00	35.27		H0
ANISOU 4796 H ARG B 104	4970	5030	3410	-650	-200	-830	H0
ATOM 4797 HA ARG B 104	-53.403	-14.789	10.186	1.00	38.01		H0
ANISOU 4797 HA ARG B 104	5690	5270	3470	-630	-240	-1010	H0
ATOM 4798 HB2 ARG B 104	-53.773	-15.791	12.388	1.00	37.41		H0
ANISOU 4798 HB2 ARG B 104	5550	5050	3620	-780	-180	-990	H0
ATOM 4799 HB3 ARG B 104	-55.272	-15.295	12.270	1.00	37.88		H0
ANISOU 4799 HB3 ARG B 104	5450	5230	3710	-930	-320	-1010	H0
ATOM 4800 HG2 ARG B 104	-55.251	-17.505	11.643	1.00	40.81		H0
ANISOU 4800 HG2 ARG B 104	6180	5350	3970	-1060	-320	-1190	H0
ATOM 4801 HG3 ARG B 104	-55.539	-16.659	10.335	1.00	41.28		H0
ANISOU 4801 HG3 ARG B 104	6200	5560	3910	-1020	-430	-1210	H0
ATOM 4802 HD2 ARG B 104	-53.305	-16.924	9.647	1.00	41.18		H0
ANISOU 4802 HD2 ARG B 104	6450	5440	3760	-710	-230	-1180	H0
ATOM 4803 HD3 ARG B 104	-52.977	-17.721	10.981	1.00	40.64		H0

ANISOU 4803 HD3 ARG B 104	6400	5220	3820	-730	-130	-1150	H0
ATOM 4804 HE ARG B 104	-54.927	-18.995	9.730	1.00	44.50		H0
ANISOU 4804 HE ARG B 104	7090	5640	4180	-1060	-370	-1390	H0
ATOM 4805 HH11 ARG B 104	-51.659	-18.581	9.260	1.00	43.58		H0
ANISOU 4805 HH11 ARG B 104	7140	5480	3930	-510	-30	-1250	H0
ATOM 4806 HH12 ARG B 104	-51.459	-19.858	8.461	1.00	45.79		H0
ANISOU 4806 HH12 ARG B 104	7740	5590	4060	-500	-10	-1380	H0
ATOM 4807 HH21 ARG B 104	-54.615	-20.883	8.547	1.00	48.16		H0
ANISOU 4807 HH21 ARG B 104	8050	5820	4430	-1100	-360	-1590	H0
ATOM 4808 HH22 ARG B 104	-53.227	-21.236	8.031	1.00	48.41		H0
ANISOU 4808 HH22 ARG B 104	8300	5750	4340	-850	-220	-1590	H0
ATOM 4809 N VAL B 105	-55.234	-13.867	8.778	1.00	38.67		N0
ANISOU 4809 N VAL B 105	5670	5580	3440	-750	-510	-1070	N0
ATOM 4810 CA VAL B 105	-56.292	-13.251	7.925	1.00	39.43		C0
ANISOU 4810 CA VAL B 105	5690	5820	3460	-800	-670	-1090	C0
ATOM 4811 C VAL B 105	-57.062	-14.379	7.232	1.00	41.70		C0
ANISOU 4811 C VAL B 105	6110	6070	3660	-950	-800	-1240	C0
ATOM 4812 O VAL B 105	-56.418	-15.226	6.583	1.00	42.74		O0
ANISOU 4812 O VAL B 105	6480	6080	3670	-920	-750	-1320	O0
ATOM 4813 CB VAL B 105	-55.703	-12.245	6.917	1.00	39.28		C0
ANISOU 4813 CB VAL B 105	5720	5890	3320	-630	-660	-1020	C0
ATOM 4814 CG1 VAL B 105	-56.772	-11.653	6.010	1.00	40.57		C0
ANISOU 4814 CG1 VAL B 105	5820	6210	3380	-650	-830	-1040	C0
ATOM 4815 CG2 VAL B 105	-54.940	-11.132	7.614	1.00	37.65		C0
ANISOU 4815 CG2 VAL B 105	5390	5710	3210	-510	-540	-880	C0
ATOM 4816 H VAL B 105	-54.605	-14.323	8.303	1.00	39.20		H0
ANISOU 4816 H VAL B 105	5890	5580	3430	-700	-450	-1100	H0
ATOM 4817 HA VAL B 105	-56.908	-12.773	8.505	1.00	38.99		H0
ANISOU 4817 HA VAL B 105	5470	5840	3500	-840	-710	-1050	H0
ATOM 4818 HB VAL B 105	-55.063	-12.738	6.347	1.00	39.92		H0
ANISOU 4818 HB VAL B 105	5960	5910	3300	-580	-600	-1060	H0
ATOM 4819 HG11 VAL B 105	-57.103	-12.339	5.405	1.00	42.00		H0
ANISOU 4819 HG11 VAL B 105	6110	6380	3470	-720	-910	-1140	H0
ATOM 4820 HG12 VAL B 105	-56.390	-10.923	5.491	1.00	40.44		H0
ANISOU 4820 HG12 VAL B 105	5830	6240	3290	-540	-810	-980	H0
ATOM 4821 HG13 VAL B 105	-57.507	-11.316	6.551	1.00	40.32		H0
ANISOU 4821 HG13 VAL B 105	5630	6250	3440	-700	-890	-1020	H0
ATOM 4822 HG21 VAL B 105	-55.527	-10.682	8.246	1.00	37.01		H0
ANISOU 4822 HG21 VAL B 105	5160	5680	3220	-550	-580	-850	H0
ATOM 4823 HG22 VAL B 105	-54.623	-10.492	6.953	1.00	37.71		H0
ANISOU 4823 HG22 VAL B 105	5430	5770	3130	-420	-530	-840	H0
ATOM 4824 HG23 VAL B 105	-54.179	-11.508	8.090	1.00	36.92		H0
ANISOU 4824 HG23 VAL B 105	5340	5530	3160	-480	-430	-870	H0
ATOM 4825 N VAL B 106	-58.390	-14.376	7.371	1.00	43.00		N0
ANISOU 4825 N VAL B 106	6120	6340	3880	-1110	-950	-1280	N0
ATOM 4826 CA VAL B 106	-59.325	-15.353	6.733	1.00	45.64		C0
ANISOU 4826 CA VAL B 106	6540	6670	4130	-1310	-1100	-1420	C0
ATOM 4827 C VAL B 106	-59.813	-14.736	5.415	1.00	47.36		C0
ANISOU 4827 C VAL B 106	6760	7050	4180	-1260	-1270	-1450	C0
ATOM 4828 O VAL B 106	-59.824	-13.491	5.321	1.00	46.23		O0
ANISOU 4828 O VAL B 106	6480	7050	4040	-1110	-1270	-1340	O0
ATOM 4829 CB VAL B 106	-60.489	-15.711	7.680	1.00	46.07		C0
ANISOU 4829 CB VAL B 106	6400	6760	4350	-1520	-1170	-1440	C0
ATOM 4830 CG1 VAL B 106	-61.294	-16.891	7.167	1.00	48.83		C0

ANISOU 4830	CG1 VAL B 106	6850	7060	4640	-1760	-1310	-1590	C0
ATOM 4831	CG2 VAL B 106	-60.010	-15.982	9.101	1.00	44.58		C0
ANISOU 4831	CG2 VAL B 106	6170	6440	4330	-1520	-990	-1370	C0
ATOM 4832	H VAL B 106	-58.822	-13.749	7.870	1.00	42.30		H0
ANISOU 4832	H VAL B 106	5860	6340	3870	-1110	-960	-1220	H0
ATOM 4833	HA VAL B 106	-58.830	-16.167	6.529	1.00	46.20		H0
ANISOU 4833	HA VAL B 106	6810	6600	4150	-1320	-1050	-1490	H0
ATOM 4834	HB VAL B 106	-61.092	-14.929	7.712	1.00	46.04		H0
ANISOU 4834	HB VAL B 106	6200	6910	4380	-1500	-1240	-1390	H0
ATOM 4835	HG11 VAL B 106	-61.795	-16.623	6.377	1.00	50.03		H0
ANISOU 4835	HG11 VAL B 106	6980	7330	4700	-1780	-1440	-1630	H0
ATOM 4836	HG12 VAL B 106	-61.913	-17.189	7.856	1.00	49.11		H0
ANISOU 4836	HG12 VAL B 106	6770	7100	4790	-1910	-1320	-1590	H0
ATOM 4837	HG13 VAL B 106	-60.692	-17.620	6.936	1.00	49.19		H0
ANISOU 4837	HG13 VAL B 106	7120	6950	4620	-1760	-1250	-1650	H0
ATOM 4838	HG21 VAL B 106	-59.258	-16.600	9.078	1.00	44.42		H0
ANISOU 4838	HG21 VAL B 106	6330	6270	4270	-1490	-910	-1400	H0
ATOM 4839	HG22 VAL B 106	-60.733	-16.374	9.620	1.00	45.17		H0
ANISOU 4839	HG22 VAL B 106	6150	6520	4480	-1680	-1030	-1390	H0
ATOM 4840	HG23 VAL B 106	-59.730	-15.148	9.516	1.00	43.04		H0
ANISOU 4840	HG23 VAL B 106	5860	6310	4180	-1410	-940	-1270	H0
ATOM 4841	N SER B 107	-60.189	-15.571	4.440	1.00	50.17		N0
ANISOU 4841	N SER B 107	7300	7380	4390	-1370	-1400	-1590	N0
ATOM 4842	CA SER B 107	-60.552	-15.167	3.052	1.00	52.70		C0
ANISOU 4842	CA SER B 107	7680	7840	4500	-1310	-1560	-1640	C0
ATOM 4843	C SER B 107	-61.772	-14.234	3.036	1.00	53.83		C0
ANISOU 4843	C SER B 107	7530	8230	4690	-1340	-1730	-1590	C0
ATOM 4844	O SER B 107	-61.916	-13.505	2.046	1.00	54.23		O0
ANISOU 4844	O SER B 107	7600	8420	4580	-1220	-1840	-1570	O0
ATOM 4845	CB SER B 107	-60.761	-16.363	2.156	1.00	55.17		C0
ANISOU 4845	CB SER B 107	8250	8060	4650	-1450	-1670	-1820	C0
ATOM 4846	OG SER B 107	-61.609	-17.324	2.765	1.00	56.78		O0
ANISOU 4846	OG SER B 107	8400	8200	4970	-1730	-1750	-1920	O0
ATOM 4847	H SER B 107	-60.249	-16.472	4.561	1.00	51.07		H0
ANISOU 4847	H SER B 107	7520	7380	4510	-1490	-1390	-1680	H0
ATOM 4848	HA SER B 107	-59.785	-14.654	2.689	1.00	51.84		H0
ANISOU 4848	HA SER B 107	7650	7720	4320	-1140	-1470	-1580	H0
ATOM 4849	HB2 SER B 107	-61.159	-16.068	1.307	1.00	56.64		H0
ANISOU 4849	HB2 SER B 107	8460	8360	4700	-1440	-1810	-1860	H0
ATOM 4850	HB3 SER B 107	-59.891	-16.777	1.958	1.00	55.09		H0
ANISOU 4850	HB3 SER B 107	8450	7900	4570	-1370	-1560	-1850	H0
ATOM 4851	N ASP B 108	-62.593	-14.222	4.095	1.00	54.63		N0
ANISOU 4851	N ASP B 108	7380	8400	4990	-1480	-1750	-1560	N0
ATOM 4852	CA ASP B 108	-63.758	-13.299	4.236	1.00	55.53		C0
ANISOU 4852	CA ASP B 108	7170	8760	5160	-1480	-1890	-1490	C0
ATOM 4853	C ASP B 108	-63.283	-11.907	4.693	1.00	53.25		C0
ANISOU 4853	C ASP B 108	6770	8530	4940	-1230	-1770	-1320	C0
ATOM 4854	O ASP B 108	-64.125	-10.990	4.745	1.00	54.10		O0
ANISOU 4854	O ASP B 108	6650	8830	5080	-1170	-1870	-1250	O0
ATOM 4855	CB ASP B 108	-64.833	-13.882	5.162	1.00	56.63		C0
ANISOU 4855	CB ASP B 108	7080	8950	5480	-1720	-1950	-1520	C0
ATOM 4856	CG ASP B 108	-64.447	-13.995	6.629	1.00	54.61		C0
ANISOU 4856	CG ASP B 108	6750	8570	5430	-1730	-1740	-1440	C0
ATOM 4857	OD1 ASP B 108	-63.268	-13.762	6.956	1.00	52.69		O0

ANISOU 4857 OD1 ASP B 108	6650	8180	5190	-1580	-1560	-1380	O0
ATOM 4858 OD2 ASP B 108	-65.335	-14.322	7.439	1.00	55.83		O0
ANISOU 4858 OD2 ASP B 108	6700	8780	5730	-1910	-1760	-1450	O0
ATOM 4859 H ASP B 108	-62.500	-14.798	4.793	1.00	53.98		H0
ANISOU 4859 H ASP B 108	7300	8210	5010	-1570	-1680	-1570	H0
ATOM 4860 HA ASP B 108	-64.165	-13.199	3.344	1.00	57.11		H0
ANISOU 4860 HA ASP B 108	7400	9070	5230	-1470	-2040	-1530	H0
ATOM 4861 HB2 ASP B 108	-65.633	-13.322	5.103	1.00	57.37		H0
ANISOU 4861 HB2 ASP B 108	6970	9230	5590	-1710	-2050	-1490	H0
ATOM 4862 HB3 ASP B 108	-65.068	-14.778	4.843	1.00	58.16		H0
ANISOU 4862 HB3 ASP B 108	7380	9090	5630	-1890	-2020	-1630	H0
ATOM 4863 N GLY B 109	-61.992	-11.743	4.999	1.00	50.97		N0
ANISOU 4863 N GLY B 109	6630	8070	4660	-1100	-1570	-1250	N0
ATOM 4864 CA GLY B 109	-61.399	-10.454	5.409	1.00	49.14		C0
ANISOU 4864 CA GLY B 109	6330	7860	4480	-890	-1450	-1100	C0
ATOM 4865 C GLY B 109	-61.360	-10.274	6.922	1.00	47.26		C0
ANISOU 4865 C GLY B 109	5930	7570	4460	-920	-1320	-1030	C0
ATOM 4866 O GLY B 109	-60.988	-9.175	7.364	1.00	46.19		O0
ANISOU 4866 O GLY B 109	5720	7450	4370	-760	-1240	-910	O0
ATOM 4867 H GLY B 109	-61.398	-12.429	4.988	1.00	50.89		H0
ANISOU 4867 H GLY B 109	6780	7930	4630	-1130	-1500	-1300	H0
ATOM 4868 HA2 GLY B 109	-60.477	-10.401	5.052	1.00	48.48		H0
ANISOU 4868 HA2 GLY B 109	6400	7690	4320	-800	-1360	-1080	H0
ATOM 4869 HA3 GLY B 109	-61.921	-9.716	5.006	1.00	49.72		H0
ANISOU 4869 HA3 GLY B 109	6310	8070	4510	-820	-1540	-1060	H0
ATOM 4870 N GLU B 110	-61.727	-11.294	7.703	1.00	47.60		N0
ANISOU 4870 N GLU B 110	5920	7550	4610	-1100	-1300	-1090	N0
ATOM 4871 CA GLU B 110	-61.554	-11.274	9.180	1.00	46.88		C0
ANISOU 4871 CA GLU B 110	5720	7390	4710	-1120	-1160	-1030	C0
ATOM 4872 C GLU B 110	-60.049	-11.279	9.480	1.00	44.35		C0
ANISOU 4872 C GLU B 110	5580	6890	4380	-1000	-980	-980	C0
ATOM 4873 O GLU B 110	-59.309	-12.048	8.827	1.00	44.17		O0
ANISOU 4873 O GLU B 110	5770	6750	4260	-1010	-950	-1050	O0
ATOM 4874 CB GLU B 110	-62.267	-12.448	9.858	1.00	49.17		C0
ANISOU 4874 CB GLU B 110	5960	7630	5090	-1350	-1180	-1110	C0
ATOM 4875 CG GLU B 110	-62.251	-12.360	11.376	1.00	49.43		C0
ANISOU 4875 CG GLU B 110	5860	7620	5300	-1370	-1040	-1030	C0
ATOM 4876 CD GLU B 110	-62.679	-13.611	12.131	1.00	51.72		C0
ANISOU 4876 CD GLU B 110	6160	7810	5680	-1590	-1010	-1090	C0
ATOM 4877 OE1 GLU B 110	-62.772	-14.691	11.505	1.00	53.26		O0
ANISOU 4877 OE1 GLU B 110	6500	7920	5810	-1740	-1070	-1200	O0
ATOM 4878 OE2 GLU B 110	-62.909	-13.502	13.360	1.00	52.10		O0
ANISOU 4878 OE2 GLU B 110	6070	7860	5860	-1610	-910	-1020	O0
ATOM 4879 H GLU B 110	-62.104	-12.057	7.381	1.00	49.11		H0
ANISOU 4879 H GLU B 110	6160	7730	4770	-1230	-1380	-1180	H0
ATOM 4880 HA GLU B 110	-61.939	-10.435	9.521	1.00	46.39		H0
ANISOU 4880 HA GLU B 110	5510	7420	4690	-1050	-1170	-960	H0
ATOM 4881 HB2 GLU B 110	-63.196	-12.473	9.548	1.00	50.71		H0
ANISOU 4881 HB2 GLU B 110	6030	7950	5280	-1440	-1300	-1140	H0
ATOM 4882 HB3 GLU B 110	-61.832	-13.280	9.580	1.00	49.65		H0
ANISOU 4882 HB3 GLU B 110	6190	7570	5110	-1420	-1160	-1180	H0
ATOM 4883 HG2 GLU B 110	-61.344	-12.128	11.667	1.00	47.89		H0
ANISOU 4883 HG2 GLU B 110	5760	7330	5110	-1260	-930	-980	H0
ATOM 4884 HG3 GLU B 110	-62.840	-11.625	11.650	1.00	49.30		H0

ANISOU 4884 HG3 GLU B 110	5670	7730	5330	-1320	-1070	-970	H0
ATOM 4885 N VAL B 111	-59.617	-10.417	10.402	1.00	42.07		N0
ANISOU 4885 N VAL B 111	5200	6590	4200	-900	-870	-870	N0
ATOM 4886 CA VAL B 111	-58.209	-10.316	10.877	1.00	40.46		C0
ANISOU 4886 CA VAL B 111	5110	6250	4020	-790	-710	-820	C0
ATOM 4887 C VAL B 111	-58.175	-10.711	12.355	1.00	39.89		C0
ANISOU 4887 C VAL B 111	4960	6100	4100	-860	-610	-790	C0
ATOM 4888 O VAL B 111	-58.990	-10.170	13.127	1.00	40.32		O0
ANISOU 4888 O VAL B 111	4840	6240	4240	-880	-630	-750	O0
ATOM 4889 CB VAL B 111	-57.653	-8.900	10.660	1.00	39.49		C0
ANISOU 4889 CB VAL B 111	4960	6180	3870	-620	-670	-710	C0
ATOM 4890 CG1 VAL B 111	-56.192	-8.810	11.066	1.00	38.23		C0
ANISOU 4890 CG1 VAL B 111	4890	5900	3730	-540	-520	-650	C0
ATOM 4891 CG2 VAL B 111	-57.851	-8.438	9.225	1.00	40.79		C0
ANISOU 4891 CG2 VAL B 111	5190	6430	3870	-550	-770	-720	C0
ATOM 4892 H VAL B 111	-60.173	-9.821	10.809	1.00	42.07		H0
ANISOU 4892 H VAL B 111	5050	6680	4250	-880	-890	-830	H0
ATOM 4893 HA VAL B 111	-57.664	-10.946	10.373	1.00	40.89		H0
ANISOU 4893 HA VAL B 111	5310	6230	4000	-800	-680	-860	H0
ATOM 4894 HB VAL B 111	-58.166	-8.290	11.246	1.00	39.18		H0
ANISOU 4894 HB VAL B 111	4790	6190	3900	-610	-680	-660	H0
ATOM 4895 HG11 VAL B 111	-56.123	-8.803	12.036	1.00	37.35		H0
ANISOU 4895 HG11 VAL B 111	4720	5760	3720	-560	-460	-630	H0
ATOM 4896 HG12 VAL B 111	-55.805	-7.991	10.710	1.00	37.92		H0
ANISOU 4896 HG12 VAL B 111	4870	5890	3650	-450	-500	-590	H0
ATOM 4897 HG13 VAL B 111	-55.708	-9.576	10.712	1.00	38.53		H0
ANISOU 4897 HG13 VAL B 111	5050	5880	3720	-560	-480	-700	H0
ATOM 4898 HG21 VAL B 111	-57.504	-9.113	8.615	1.00	41.39		H0
ANISOU 4898 HG21 VAL B 111	5400	6460	3870	-570	-770	-780	H0
ATOM 4899 HG22 VAL B 111	-57.377	-7.601	9.084	1.00	40.22		H0
ANISOU 4899 HG22 VAL B 111	5130	6370	3780	-450	-730	-640	H0
ATOM 4900 HG23 VAL B 111	-58.799	-8.304	9.053	1.00	41.66		H0
ANISOU 4900 HG23 VAL B 111	5210	6640	3980	-590	-880	-740	H0
ATOM 4901 N LEU B 112	-57.293	-11.642	12.721	1.00	39.85		N0
ANISOU 4901 N LEU B 112	5090	5950	4100	-880	-510	-820	N0
ATOM 4902 CA LEU B 112	-57.048	-12.050	14.129	1.00	39.55		C0
ANISOU 4902 CA LEU B 112	5020	5820	4190	-910	-410	-790	C0
ATOM 4903 C LEU B 112	-55.614	-11.652	14.479	1.00	37.57		C0
ANISOU 4903 C LEU B 112	4840	5500	3940	-770	-290	-720	C0
ATOM 4904 O LEU B 112	-54.675	-12.285	13.954	1.00	38.41		O0
ANISOU 4904 O LEU B 112	5100	5520	3980	-720	-230	-740	O0
ATOM 4905 CB LEU B 112	-57.272	-13.558	14.294	1.00	41.12		C0
ANISOU 4905 CB LEU B 112	5340	5890	4390	-1060	-400	-870	C0
ATOM 4906 CG LEU B 112	-58.679	-14.067	13.973	1.00	43.75		C0
ANISOU 4906 CG LEU B 112	5600	6290	4730	-1250	-520	-950	C0
ATOM 4907 CD1 LEU B 112	-58.851	-14.320	12.482	1.00	45.49		C0
ANISOU 4907 CD1 LEU B 112	5930	6540	4810	-1270	-640	-1040	C0
ATOM 4908 CD2 LEU B 112	-58.992	-15.341	14.748	1.00	44.94		C0
ANISOU 4908 CD2 LEU B 112	5820	6310	4950	-1410	-470	-990	C0
ATOM 4909 H LEU B 112	-56.779	-12.092	12.118	1.00	40.30		H0
ANISOU 4909 H LEU B 112	5280	5950	4080	-860	-500	-860	H0
ATOM 4910 HA LEU B 112	-57.667	-11.558	14.714	1.00	39.16		H0
ANISOU 4910 HA LEU B 112	4840	5830	4200	-930	-420	-750	H0
ATOM 4911 HB2 LEU B 112	-56.636	-14.027	13.719	1.00	41.51		H0

ANISOU 4911 HB2 LEU B 112	5540	5870	4370	-1020	-380	-910	H0
ATOM 4912 HB3 LEU B 112	-57.062	-13.797	15.219	1.00	40.62		H0
ANISOU 4912 HB3 LEU B 112	5270	5770	4400	-1070	-320	-840	H0
ATOM 4913 HG LEU B 112	-59.329	-13.373	14.245	1.00	43.55		H0
ANISOU 4913 HG LEU B 112	5410	6380	4750	-1250	-560	-910	H0
ATOM 4914 HD11 LEU B 112	-58.889	-13.472	12.009	1.00	45.14		H0
ANISOU 4914 HD11 LEU B 112	5830	6600	4720	-1180	-680	-1010	H0
ATOM 4915 HD12 LEU B 112	-59.676	-14.811	12.329	1.00	46.73		H0
ANISOU 4915 HD12 LEU B 112	6060	6720	4970	-1410	-720	-1100	H0
ATOM 4916 HD13 LEU B 112	-58.099	-14.842	12.151	1.00	45.47		H0
ANISOU 4916 HD13 LEU B 112	6100	6430	4750	-1230	-590	-1070	H0
ATOM 4917 HD21 LEU B 112	-58.348	-16.032	14.512	1.00	45.06		H0
ANISOU 4917 HD21 LEU B 112	6010	6200	4910	-1400	-430	-1030	H0
ATOM 4918 HD22 LEU B 112	-59.889	-15.645	14.524	1.00	46.11		H0
ANISOU 4918 HD22 LEU B 112	5910	6510	5100	-1550	-550	-1040	H0
ATOM 4919 HD23 LEU B 112	-58.940	-15.163	15.703	1.00	43.99		H0
ANISOU 4919 HD23 LEU B 112	5630	6180	4910	-1400	-400	-930	H0
ATOM 4920 N TYR B 113	-55.459	-10.594	15.272	1.00	35.87		N0
ANISOU 4920 N TYR B 113	4500	5330	3800	-700	-250	-630	N0
ATOM 4921 CA TYR B 113	-54.153	-10.081	15.746	1.00	35.03		C0
ANISOU 4921 CA TYR B 113	4420	5180	3710	-590	-160	-560	C0
ATOM 4922 C TYR B 113	-54.104	-10.249	17.267	1.00	34.35		C0
ANISOU 4922 C TYR B 113	4280	5040	3730	-610	-100	-530	C0
ATOM 4923 O TYR B 113	-54.802	-9.504	17.965	1.00	33.44		O0
ANISOU 4923 O TYR B 113	4050	4990	3670	-620	-120	-490	O0
ATOM 4924 CB TYR B 113	-53.942	-8.636	15.286	1.00	34.91		C0
ANISOU 4924 CB TYR B 113	4350	5250	3670	-500	-170	-490	C0
ATOM 4925 CG TYR B 113	-52.680	-8.008	15.814	1.00	34.86		C0
ANISOU 4925 CG TYR B 113	4340	5210	3690	-420	-90	-420	C0
ATOM 4926 CD1 TYR B 113	-51.458	-8.646	15.682	1.00	35.37		C0
ANISOU 4926 CD1 TYR B 113	4490	5220	3730	-380	-10	-410	C0
ATOM 4927 CD2 TYR B 113	-52.708	-6.795	16.481	1.00	35.19		C0
ANISOU 4927 CD2 TYR B 113	4310	5270	3790	-390	-90	-350	C0
ATOM 4928 CE1 TYR B 113	-50.294	-8.086	16.184	1.00	35.67		C0
ANISOU 4928 CE1 TYR B 113	4500	5250	3810	-320	60	-340	C0
ATOM 4929 CE2 TYR B 113	-51.555	-6.221	16.992	1.00	34.65		C0
ANISOU 4929 CE2 TYR B 113	4230	5180	3750	-340	-20	-290	C0
ATOM 4930 CZ TYR B 113	-50.342	-6.869	16.845	1.00	34.88		C0
ANISOU 4930 CZ TYR B 113	4310	5170	3760	-320	50	-280	C0
ATOM 4931 OH TYR B 113	-49.202	-6.307	17.345	1.00	34.57		O0
ANISOU 4931 OH TYR B 113	4240	5130	3760	-290	100	-220	O0
ATOM 4932 H TYR B 113	-56.158	-10.101	15.584	1.00	36.05		H0
ANISOU 4932 H TYR B 113	4420	5420	3860	-720	-290	-610	H0
ATOM 4933 HA TYR B 113	-53.437	-10.639	15.351	1.00	35.28		H0
ANISOU 4933 HA TYR B 113	4550	5160	3690	-560	-120	-580	H0
ATOM 4934 HB2 TYR B 113	-53.919	-8.622	14.307	1.00	35.66		H0
ANISOU 4934 HB2 TYR B 113	4500	5370	3690	-480	-210	-510	H0
ATOM 4935 HB3 TYR B 113	-54.711	-8.102	15.577	1.00	35.05		H0
ANISOU 4935 HB3 TYR B 113	4280	5320	3720	-510	-220	-480	H0
ATOM 4936 HD1 TYR B 113	-51.414	-9.477	15.238	1.00	36.05		H0
ANISOU 4936 HD1 TYR B 113	4650	5270	3780	-390	0	-460	H0
ATOM 4937 HD2 TYR B 113	-53.531	-6.348	16.592	1.00	35.10		H0
ANISOU 4937 HD2 TYR B 113	4240	5300	3790	-390	-130	-350	H0
ATOM 4938 HE1 TYR B 113	-49.471	-8.533	16.079	1.00	35.51		H0

ANISOU 4938 HE1 TYR B 113	4510	5210	3770	-280	110	-340	H0
ATOM 4939 HE2 TYR B 113	-51.595	-5.391	17.439	1.00	34.30		H0
ANISOU 4939 HE2 TYR B 113	4150	5140	3740	-330	-30	-250	H0
ATOM 4940 N MET B 114	-53.301	-11.202	17.745	1.00	34.60		N0
ANISOU 4940 N MET B 114	4400	4970	3770	-600	-20	-530	N0
ATOM 4941 CA MET B 114	-53.288	-11.655	19.161	1.00	35.15		C0
ANISOU 4941 CA MET B 114	4460	4980	3910	-620	30	-510	C0
ATOM 4942 C MET B 114	-51.866	-11.548	19.706	1.00	32.55		C0
ANISOU 4942 C MET B 114	4160	4620	3590	-510	100	-450	C0
ATOM 4943 O MET B 114	-51.240	-12.551	20.029	1.00	32.45		O0
ANISOU 4943 O MET B 114	4250	4510	3570	-490	160	-460	O0
ATOM 4944 CB MET B 114	-53.779	-13.104	19.282	1.00	38.80		C0
ANISOU 4944 CB MET B 114	5020	5340	4370	-730	50	-570	C0
ATOM 4945 CG MET B 114	-54.923	-13.484	18.341	1.00	42.97		C0
ANISOU 4945 CG MET B 114	5550	5900	4870	-850	-40	-650	C0
ATOM 4946 SD MET B 114	-56.504	-12.658	18.695	1.00	48.06		S0
ANISOU 4946 SD MET B 114	5990	6690	5580	-950	-110	-630	S0
ATOM 4947 CE MET B 114	-57.670	-13.980	18.382	1.00	49.09		C0
ANISOU 4947 CE MET B 114	6150	6790	5710	-1160	-160	-720	C0
ATOM 4948 H MET B 114	-52.699	-11.641	17.220	1.00	35.03		H0
ANISOU 4948 H MET B 114	4540	4990	3770	-560	0	-550	H0
ATOM 4949 HA MET B 114	-53.874	-11.063	19.687	1.00	34.75		H0
ANISOU 4949 HA MET B 114	4320	4980	3910	-640	20	-490	H0
ATOM 4950 HB2 MET B 114	-53.027	-13.702	19.113	1.00	38.97		H0
ANISOU 4950 HB2 MET B 114	5150	5290	4360	-680	90	-580	H0
ATOM 4951 HB3 MET B 114	-54.070	-13.254	20.204	1.00	38.68		H0
ANISOU 4951 HB3 MET B 114	4980	5310	4410	-760	70	-550	H0
ATOM 4952 HG2 MET B 114	-54.661	-13.274	17.420	1.00	43.48		H0
ANISOU 4952 HG2 MET B 114	5650	5990	4870	-810	-70	-670	H0
ATOM 4953 HG3 MET B 114	-55.063	-14.454	18.393	1.00	44.09		H0
ANISOU 4953 HG3 MET B 114	5790	5960	5010	-920	-20	-690	H0
ATOM 4954 HE1 MET B 114	-58.568	-13.625	18.391	1.00	49.83		H0
ANISOU 4954 HE1 MET B 114	6120	6980	5840	-1220	-210	-720	H0
ATOM 4955 HE2 MET B 114	-57.488	-14.372	17.520	1.00	49.99		H0
ANISOU 4955 HE2 MET B 114	6360	6870	5760	-1170	-200	-780	H0
ATOM 4956 HE3 MET B 114	-57.583	-14.652	19.068	1.00	49.55		H0
ANISOU 4956 HE3 MET B 114	6270	6750	5810	-1200	-100	-720	H0
ATOM 4957 N PRO B 115	-51.291	-10.334	19.831	1.00	30.68		N0
ANISOU 4957 N PRO B 115	3850	4450	3370	-450	100	-400	N0
ATOM 4958 CA PRO B 115	-49.960	-10.190	20.414	1.00	30.53		C0
ANISOU 4958 CA PRO B 115	3820	4410	3360	-370	150	-340	C0
ATOM 4959 C PRO B 115	-49.969	-10.494	21.920	1.00	31.31		C0
ANISOU 4959 C PRO B 115	3910	4470	3510	-370	180	-320	C0
ATOM 4960 O PRO B 115	-50.935	-10.123	22.594	1.00	30.57		O0
ANISOU 4960 O PRO B 115	3770	4390	3450	-430	160	-320	O0
ATOM 4961 CB PRO B 115	-49.614	-8.717	20.181	1.00	29.72		C0
ANISOU 4961 CB PRO B 115	3640	4390	3260	-340	130	-290	C0
ATOM 4962 CG PRO B 115	-50.963	-8.042	20.123	1.00	30.12		C0
ANISOU 4962 CG PRO B 115	3640	4470	3330	-390	70	-310	C0
ATOM 4963 CD PRO B 115	-51.882	-9.045	19.452	1.00	30.54		C0
ANISOU 4963 CD PRO B 115	3740	4510	3350	-450	50	-370	C0
ATOM 4964 HA PRO B 115	-49.315	-10.771	19.939	1.00	31.02		H0
ANISOU 4964 HA PRO B 115	3950	4450	3390	-320	190	-350	H0
ATOM 4965 HB2 PRO B 115	-49.073	-8.358	20.917	1.00	29.56		H0

ANISOU 4965 HB2 PRO B 115	3590	4370	3270	-320	140	-260	H0
ATOM 4966 HB3 PRO B 115	-49.126	-8.598	19.338	1.00	30.15		H0
ANISOU 4966 HB3 PRO B 115	3710	4460	3280	-310	140	-290	H0
ATOM 4967 HG2 PRO B 115	-51.283	-7.829	21.024	1.00	29.65		H0
ANISOU 4967 HG2 PRO B 115	3550	4410	3310	-410	70	-300	H0
ATOM 4968 HG3 PRO B 115	-50.915	-7.214	19.604	1.00	29.91		H0
ANISOU 4968 HG3 PRO B 115	3600	4480	3290	-380	50	-290	H0
ATOM 4969 HD2 PRO B 115	-52.795	-8.965	19.784	1.00	30.71		H0
ANISOU 4969 HD2 PRO B 115	3720	4550	3400	-500	20	-390	H0
ATOM 4970 HD3 PRO B 115	-51.882	-8.930	18.484	1.00	30.96		H0
ANISOU 4970 HD3 PRO B 115	3820	4590	3350	-440	30	-390	H0
ATOM 4971 N SER B 116	-48.923	-11.175	22.395	1.00	31.31		N0
ANISOU 4971 N SER B 116	3960	4430	3500	-300	220	-300	N0
ATOM 4972 CA SER B 116	-48.601	-11.304	23.834	1.00	31.48		C0
ANISOU 4972 CA SER B 116	3970	4430	3550	-270	240	-260	C0
ATOM 4973 C SER B 116	-47.788	-10.080	24.248	1.00	31.11		C0
ANISOU 4973 C SER B 116	3830	4460	3530	-240	210	-210	C0
ATOM 4974 O SER B 116	-46.736	-9.823	23.630	1.00	31.35		O0
ANISOU 4974 O SER B 116	3830	4540	3540	-190	220	-190	O0
ATOM 4975 CB SER B 116	-47.876	-12.569	24.152	1.00	32.53		C0
ANISOU 4975 CB SER B 116	4210	4490	3660	-200	290	-250	C0
ATOM 4976 OG SER B 116	-47.853	-12.758	25.556	1.00	32.91		O0
ANISOU 4976 OG SER B 116	4270	4510	3720	-180	300	-210	O0
ATOM 4977 H SER B 116	-48.325	-11.612	21.864	1.00	31.80		H0
ANISOU 4977 H SER B 116	4060	4480	3540	-250	250	-300	H0
ATOM 4978 HA SER B 116	-49.456	-11.298	24.343	1.00	31.43		H0
ANISOU 4978 HA SER B 116	3970	4410	3570	-330	230	-270	H0
ATOM 4979 HB2 SER B 116	-48.329	-13.328	23.721	1.00	33.02		H0
ANISOU 4979 HB2 SER B 116	4350	4490	3710	-230	310	-290	H0
ATOM 4980 HB3 SER B 116	-46.955	-12.519	23.808	1.00	32.68		H0
ANISOU 4980 HB3 SER B 116	4210	4540	3660	-130	300	-230	H0
ATOM 4981 N ILE B 117	-48.288	-9.347	25.239	1.00	30.60		N0
ANISOU 4981 N ILE B 117	3730	4410	3490	-270	180	-200	N0
ATOM 4982 CA ILE B 117	-47.733	-8.035	25.659	1.00	30.57		C0
ANISOU 4982 CA ILE B 117	3660	4460	3500	-270	140	-170	C0
ATOM 4983 C ILE B 117	-47.365	-8.103	27.142	1.00	31.14		C0
ANISOU 4983 C ILE B 117	3740	4520	3570	-240	130	-150	C0
ATOM 4984 O ILE B 117	-48.182	-8.619	27.947	1.00	30.47		O0
ANISOU 4984 O ILE B 117	3710	4390	3480	-250	150	-160	O0
ATOM 4985 CB ILE B 117	-48.743	-6.917	25.352	1.00	30.49		C0
ANISOU 4985 CB ILE B 117	3620	4460	3500	-320	110	-180	C0
ATOM 4986 CG1 ILE B 117	-48.895	-6.730	23.838	1.00	31.07		C0
ANISOU 4986 CG1 ILE B 117	3680	4560	3560	-330	110	-190	C0
ATOM 4987 CG2 ILE B 117	-48.331	-5.630	26.052	1.00	30.42		C0
ANISOU 4987 CG2 ILE B 117	3590	4470	3500	-320	70	-160	C0
ATOM 4988 CD1 ILE B 117	-50.041	-5.839	23.425	1.00	31.38		C0
ANISOU 4988 CD1 ILE B 117	3700	4620	3600	-350	80	-200	C0
ATOM 4989 H ILE B 117	-49.009	-9.608	25.730	1.00	30.72		H0
ANISOU 4989 H ILE B 117	3770	4400	3510	-300	190	-210	H0
ATOM 4990 HA ILE B 117	-46.924	-7.864	25.147	1.00	30.79		H0
ANISOU 4990 HA ILE B 117	3660	4520	3520	-250	140	-150	H0
ATOM 4991 HB ILE B 117	-49.621	-7.194	25.712	1.00	30.55		H0
ANISOU 4991 HB ILE B 117	3640	4450	3510	-340	120	-200	H0
ATOM 4992 HG12 ILE B 117	-48.062	-6.351	23.485	1.00	31.11		H0

ANISOU 4992 HG12 ILE B 117	3670	4590	3560	-320	110	-170	H0
ATOM 4993 HG13 ILE B 117	-49.020	-7.611	23.425	1.00	31.26		H0
ANISOU 4993 HG13 ILE B 117	3740	4570	3570	-330	130	-210	H0
ATOM 4994 HG21 ILE B 117	-48.558	-5.685	26.997	1.00	30.41		H0
ANISOU 4994 HG21 ILE B 117	3610	4450	3500	-320	70	-160	H0
ATOM 4995 HG22 ILE B 117	-48.799	-4.877	25.654	1.00	30.36		H0
ANISOU 4995 HG22 ILE B 117	3570	4460	3500	-340	60	-160	H0
ATOM 4996 HG23 ILE B 117	-47.372	-5.499	25.958	1.00	30.55		H0
ANISOU 4996 HG23 ILE B 117	3580	4510	3520	-320	70	-140	H0
ATOM 4997 HD11 ILE B 117	-50.838	-6.078	23.930	1.00	31.28		H0
ANISOU 4997 HD11 ILE B 117	3690	4600	3600	-370	80	-220	H0
ATOM 4998 HD12 ILE B 117	-50.216	-5.953	22.474	1.00	31.45		H0
ANISOU 4998 HD12 ILE B 117	3720	4640	3590	-360	70	-210	H0
ATOM 4999 HD13 ILE B 117	-49.813	-4.910	23.602	1.00	31.17		H0
ANISOU 4999 HD13 ILE B 117	3670	4590	3580	-350	60	-180	H0
ATOM 5000 N ARG B 118	-46.168	-7.625	27.478	1.00	31.37		N0
ANISOU 5000 N ARG B 118	3720	4600	3600	-220	100	-120	N0
ATOM 5001 CA ARG B 118	-45.808	-7.242	28.863	1.00	31.92		C0
ANISOU 5001 CA ARG B 118	3800	4680	3650	-210	50	-100	C0
ATOM 5002 C ARG B 118	-45.882	-5.716	28.951	1.00	31.71		C0
ANISOU 5002 C ARG B 118	3740	4670	3640	-270	0	-110	C0
ATOM 5003 O ARG B 118	-45.277	-5.047	28.088	1.00	30.69		O0
ANISOU 5003 O ARG B 118	3560	4570	3530	-310	-20	-100	O0
ATOM 5004 CB ARG B 118	-44.421	-7.747	29.256	1.00	33.46		C0
ANISOU 5004 CB ARG B 118	3950	4930	3830	-140	30	-60	C0
ATOM 5005 CG ARG B 118	-44.022	-7.340	30.668	1.00	34.13		C0
ANISOU 5005 CG ARG B 118	4040	5040	3880	-130	-40	-60	C0
ATOM 5006 CD ARG B 118	-42.776	-8.046	31.151	1.00	35.94		C0
ANISOU 5006 CD ARG B 118	4230	5340	4090	-50	-70	-10	C0
ATOM 5007 NE ARG B 118	-42.406	-7.611	32.490	1.00	37.53		N0
ANISOU 5007 NE ARG B 118	4440	5570	4250	-40	-160	-10	N0
ATOM 5008 CZ ARG B 118	-41.502	-8.204	33.264	1.00	39.02		C0
ANISOU 5008 CZ ARG B 118	4610	5820	4390	50	-210	20	C0
ATOM 5009 NH1 ARG B 118	-40.878	-9.288	32.841	1.00	40.38		N0
ANISOU 5009 NH1 ARG B 118	4760	6030	4560	160	-160	60	N0
ATOM 5010 NH2 ARG B 118	-41.228	-7.717	34.465	1.00	39.59		N0
ANISOU 5010 NH2 ARG B 118	4710	5930	4410	40	-300	20	N0
ATOM 5011 H ARG B 118	-45.496	-7.508	26.874	1.00	31.61		H0
ANISOU 5011 H ARG B 118	3710	4670	3630	-210	100	-100	H0
ATOM 5012 HA ARG B 118	-46.471	-7.628	29.476	1.00	31.95		H0
ANISOU 5012 HA ARG B 118	3860	4640	3640	-200	70	-110	H0
ATOM 5013 HB2 ARG B 118	-44.411	-8.725	29.191	1.00	33.51		H0
ANISOU 5013 HB2 ARG B 118	4000	4910	3820	-90	70	-60	H0
ATOM 5014 HB3 ARG B 118	-43.763	-7.393	28.623	1.00	33.48		H0
ANISOU 5014 HB3 ARG B 118	3890	4980	3850	-150	20	-50	H0
ATOM 5015 HG2 ARG B 118	-43.866	-6.373	30.694	1.00	34.30		H0
ANISOU 5015 HG2 ARG B 118	4030	5080	3920	-190	-90	-60	H0
ATOM 5016 HG3 ARG B 118	-44.759	-7.543	31.282	1.00	34.15		H0
ANISOU 5016 HG3 ARG B 118	4120	4990	3860	-130	-30	-70	H0
ATOM 5017 HD2 ARG B 118	-42.937	-9.013	31.155	1.00	36.08		H0
ANISOU 5017 HD2 ARG B 118	4300	5320	4090	20	-30	0	H0
ATOM 5018 HD3 ARG B 118	-42.037	-7.863	30.532	1.00	36.24		H0
ANISOU 5018 HD3 ARG B 118	4180	5440	4150	-50	-80	0	H0
ATOM 5019 HE ARG B 118	-42.788	-6.894	32.798	1.00	37.27		H0

ANISOU 5019 HE ARG B 118	4430	5520	4210	-100	-180	-40	H0
ATOM 5020 HH11 ARG B 118	-41.050	-9.618	32.047	1.00	39.72		H0
ANISOU 5020 HH11 ARG B 118	4670	5910	4500	170	-100	60	H0
ATOM 5021 HH12 ARG B 118	-40.285	-9.680	33.359	1.00	40.78		H0
ANISOU 5021 HH12 ARG B 118	4790	6120	4580	230	-200	90	H0
ATOM 5022 HH21 ARG B 118	-41.641	-6.996	34.752	1.00	39.37		H0
ANISOU 5022 HH21 ARG B 118	4710	5870	4370	-30	-320	-10	H0
ATOM 5023 HH22 ARG B 118	-40.634	-8.118	34.976	1.00	40.34		H0
ANISOU 5023 HH22 ARG B 118	4790	6070	4470	100	-340	40	H0
ATOM 5024 N GLN B 119	-46.615	-5.201	29.943	1.00	31.03		N0
ANISOU 5024 N GLN B 119	3710	4540	3530	-280	-20	-130	N0
ATOM 5025 CA GLN B 119	-46.849	-3.749	30.142	1.00	30.83		C0
ANISOU 5025 CA GLN B 119	3710	4500	3510	-330	-60	-150	C0
ATOM 5026 C GLN B 119	-47.040	-3.461	31.631	1.00	31.32		C0
ANISOU 5026 C GLN B 119	3850	4540	3520	-310	-90	-170	C0
ATOM 5027 O GLN B 119	-47.570	-4.337	32.352	1.00	31.87		O0
ANISOU 5027 O GLN B 119	3960	4590	3560	-260	-50	-160	O0
ATOM 5028 CB GLN B 119	-48.069	-3.312	29.335	1.00	30.50		C0
ANISOU 5028 CB GLN B 119	3680	4430	3480	-330	-20	-160	C0
ATOM 5029 CG GLN B 119	-48.080	-1.829	28.999	1.00	30.94		C0
ANISOU 5029 CG GLN B 119	3760	4450	3540	-370	-60	-170	C0
ATOM 5030 CD GLN B 119	-49.095	-1.493	27.932	1.00	30.70		C0
ANISOU 5030 CD GLN B 119	3720	4420	3530	-350	-30	-170	C0
ATOM 5031 OE1 GLN B 119	-49.983	-2.286	27.623	1.00	30.54		O0
ANISOU 5031 OE1 GLN B 119	3670	4420	3510	-320	10	-170	O0
ATOM 5032 NE2 GLN B 119	-48.971	-0.302	27.368	1.00	31.02		N0
ANISOU 5032 NE2 GLN B 119	3790	4430	3570	-370	-50	-150	N0
ATOM 5033 H GLN B 119	-47.025	-5.724	30.567	1.00	31.16		H0
ANISOU 5033 H GLN B 119	3770	4540	3530	-260	0	-130	H0
ATOM 5034 HA GLN B 119	-46.058	-3.257	29.822	1.00	31.15		H0
ANISOU 5034 HA GLN B 119	3710	4560	3560	-360	-100	-140	H0
ATOM 5035 HB2 GLN B 119	-48.091	-3.829	28.503	1.00	30.36		H0
ANISOU 5035 HB2 GLN B 119	3630	4430	3480	-330	0	-160	H0
ATOM 5036 HB3 GLN B 119	-48.876	-3.531	29.844	1.00	30.52		H0
ANISOU 5036 HB3 GLN B 119	3710	4410	3470	-310	0	-180	H0
ATOM 5037 HG2 GLN B 119	-48.284	-1.315	29.809	1.00	31.13		H0
ANISOU 5037 HG2 GLN B 119	3830	4450	3540	-360	-80	-180	H0
ATOM 5038 HG3 GLN B 119	-47.188	-1.561	28.689	1.00	31.08		H0
ANISOU 5038 HG3 GLN B 119	3750	4490	3570	-400	-90	-150	H0
ATOM 5039 HE21 GLN B 119	-49.583	-0.017	26.796	1.00	31.02		H0
ANISOU 5039 HE21 GLN B 119	3800	4420	3570	-350	-40	-150	H0
ATOM 5040 HE22 GLN B 119	-48.277	0.211	27.561	1.00	31.30		H0
ANISOU 5040 HE22 GLN B 119	3850	4440	3610	-410	-80	-150	H0
ATOM 5041 N ARG B 120	-46.637	-2.271	32.069	1.00	32.19		N0
ANISOU 5041 N ARG B 120	3990	4630	3610	-350	-150	-180	N0
ATOM 5042 CA ARG B 120	-46.789	-1.811	33.472	1.00	33.67		C0
ANISOU 5042 CA ARG B 120	4280	4780	3730	-330	-190	-220	C0
ATOM 5043 C ARG B 120	-47.990	-0.864	33.531	1.00	33.06		C0
ANISOU 5043 C ARG B 120	4280	4640	3640	-310	-150	-250	C0
ATOM 5044 O ARG B 120	-48.153	-0.043	32.609	1.00	32.66		O0
ANISOU 5044 O ARG B 120	4220	4560	3630	-340	-160	-250	O0
ATOM 5045 CB ARG B 120	-45.485	-1.172	33.962	1.00	36.20		C0
ANISOU 5045 CB ARG B 120	4600	5120	4030	-400	-300	-220	C0
ATOM 5046 CG ARG B 120	-45.421	-1.007	35.473	1.00	39.21		C0

ANISOU 5046 CG ARG B 120	5080	5490	4320	-370	-360	-260	C0
ATOM 5047 CD ARG B 120	-44.014	-0.855	36.018	1.00	41.14		C0
ANISOU 5047 CD ARG B 120	5290	5800	4540	-430	-480	-260	C0
ATOM 5048 NE ARG B 120	-44.006	-0.873	37.478	1.00	42.86		N0
ANISOU 5048 NE ARG B 120	5620	6010	4650	-390	-540	-290	N0
ATOM 5049 CZ ARG B 120	-44.131	-1.963	38.235	1.00	43.38		C0
ANISOU 5049 CZ ARG B 120	5710	6120	4650	-280	-520	-270	C0
ATOM 5050 NH1 ARG B 120	-44.294	-3.150	37.678	1.00	42.40		N0
ANISOU 5050 NH1 ARG B 120	5510	6020	4570	-220	-430	-210	N0
ATOM 5051 NH2 ARG B 120	-44.104	-1.864	39.555	1.00	45.22		N0
ANISOU 5051 NH2 ARG B 120	6070	6340	4770	-240	-570	-290	N0
ATOM 5052 H ARG B 120	-46.239	-1.658	31.525	1.00	32.41		H0
ANISOU 5052 H ARG B 120	4000	4660	3660	-390	-180	-180	H0
ATOM 5053 HA ARG B 120	-46.981	-2.595	34.032	1.00	33.69		H0
ANISOU 5053 HA ARG B 120	4300	4800	3710	-280	-170	-210	H0
ATOM 5054 HB2 ARG B 120	-44.733	-1.730	33.670	1.00	36.34		H0
ANISOU 5054 HB2 ARG B 120	4530	5200	4070	-400	-320	-200	H0
ATOM 5055 HB3 ARG B 120	-45.389	-0.292	33.541	1.00	36.47		H0
ANISOU 5055 HB3 ARG B 120	4640	5130	4090	-450	-320	-230	H0
ATOM 5056 HG2 ARG B 120	-45.943	-0.219	35.728	1.00	39.08		H0
ANISOU 5056 HG2 ARG B 120	5160	5410	4280	-380	-360	-290	H0
ATOM 5057 HG3 ARG B 120	-45.838	-1.787	35.895	1.00	38.69		H0
ANISOU 5057 HG3 ARG B 120	5040	5430	4230	-300	-310	-250	H0
ATOM 5058 HD2 ARG B 120	-43.450	-1.582	35.678	1.00	41.01		H0
ANISOU 5058 HD2 ARG B 120	5170	5850	4550	-410	-480	-220	H0
ATOM 5059 HD3 ARG B 120	-43.635	-0.006	35.703	1.00	41.51		H0
ANISOU 5059 HD3 ARG B 120	5330	5830	4610	-510	-530	-280	H0
ATOM 5060 HE ARG B 120	-43.899	-0.111	37.888	1.00	43.45		H0
ANISOU 5060 HE ARG B 120	5760	6050	4690	-430	-600	-330	H0
ATOM 5061 HH11 ARG B 120	-44.313	-3.231	36.806	1.00	41.90		H0
ANISOU 5061 HH11 ARG B 120	5380	5960	4580	-240	-400	-200	H0
ATOM 5062 HH12 ARG B 120	-44.379	-3.860	38.188	1.00	42.64		H0
ANISOU 5062 HH12 ARG B 120	5580	6060	4560	-160	-410	-190	H0
ATOM 5063 HH21 ARG B 120	-43.999	-1.075	39.935	1.00	45.48		H0
ANISOU 5063 HH21 ARG B 120	6170	6350	4760	-290	-630	-340	H0
ATOM 5064 HH22 ARG B 120	-44.193	-2.585	40.053	1.00	44.98		H0
ANISOU 5064 HH22 ARG B 120	6060	6330	4690	-170	-550	-270	H0
ATOM 5065 N PHE B 121	-48.829	-1.001	34.555	1.00	33.13		N0
ANISOU 5065 N PHE B 121	4370	4620	3590	-240	-110	-260	N0
ATOM 5066 CA PHE B 121	-50.092	-0.234	34.695	1.00	33.01		C0
ANISOU 5066 CA PHE B 121	4420	4560	3560	-180	-60	-290	C0
ATOM 5067 C PHE B 121	-50.098	0.524	36.020	1.00	33.99		C0
ANISOU 5067 C PHE B 121	4690	4630	3590	-150	-80	-330	C0
ATOM 5068 O PHE B 121	-49.560	0.016	37.026	1.00	33.80		O0
ANISOU 5068 O PHE B 121	4710	4630	3500	-140	-110	-340	O0
ATOM 5069 CB PHE B 121	-51.293	-1.169	34.547	1.00	33.16		C0
ANISOU 5069 CB PHE B 121	4380	4630	3600	-130	50	-260	C0
ATOM 5070 CG PHE B 121	-51.453	-1.714	33.150	1.00	31.89		C0
ANISOU 5070 CG PHE B 121	4100	4500	3520	-170	70	-240	C0
ATOM 5071 CD1 PHE B 121	-52.105	-0.974	32.182	1.00	31.96		C0
ANISOU 5071 CD1 PHE B 121	4070	4510	3560	-160	70	-240	C0
ATOM 5072 CD2 PHE B 121	-50.913	-2.940	32.793	1.00	31.70		C0
ANISOU 5072 CD2 PHE B 121	4010	4510	3520	-210	70	-220	C0
ATOM 5073 CE1 PHE B 121	-52.227	-1.452	30.886	1.00	31.82		C0

ANISOU 5073 CE1 PHE B 121	3960	4530	3600	-200	70	-220	C0
ATOM 5074 CE2 PHE B 121	-51.033	-3.416	31.494	1.00	31.73		C0
ANISOU 5074 CE2 PHE B 121	3940	4540	3580	-240	80	-200	C0
ATOM 5075 CZ PHE B 121	-51.690	-2.672	30.543	1.00	31.45		C0
ANISOU 5075 CZ PHE B 121	3870	4510	3570	-240	80	-210	C0
ATOM 5076 H PHE B 121	-48.689	-1.575	35.248	1.00	33.28		H0
ANISOU 5076 H PHE B 121	4410	4660	3570	-220	-110	-260	H0
ATOM 5077 HA PHE B 121	-50.132	0.432	33.963	1.00	33.09		H0
ANISOU 5077 HA PHE B 121	4420	4550	3600	-200	-70	-290	H0
ATOM 5078 HB2 PHE B 121	-51.188	-1.916	35.171	1.00	33.01		H0
ANISOU 5078 HB2 PHE B 121	4370	4620	3550	-130	70	-250	H0
ATOM 5079 HB3 PHE B 121	-52.105	-0.680	34.796	1.00	33.26		H0
ANISOU 5079 HB3 PHE B 121	4420	4630	3590	-80	90	-280	H0
ATOM 5080 HD1 PHE B 121	-52.469	-0.133	32.406	1.00	32.43		H0
ANISOU 5080 HD1 PHE B 121	4180	4540	3600	-120	70	-250	H0
ATOM 5081 HD2 PHE B 121	-50.452	-3.450	33.438	1.00	31.93		H0
ANISOU 5081 HD2 PHE B 121	4070	4540	3520	-200	60	-210	H0
ATOM 5082 HE1 PHE B 121	-52.680	-0.941	30.243	1.00	31.81		H0
ANISOU 5082 HE1 PHE B 121	3940	4530	3610	-180	70	-220	H0
ATOM 5083 HE2 PHE B 121	-50.668	-4.254	31.265	1.00	31.40		H0
ANISOU 5083 HE2 PHE B 121	3870	4510	3550	-260	90	-190	H0
ATOM 5084 HZ PHE B 121	-51.783	-3.001	29.663	1.00	31.25		H0
ANISOU 5084 HZ PHE B 121	3790	4510	3570	-260	80	-200	H0
ATOM 5085 N SER B 122	-50.648	1.740	35.979	1.00	34.38		N0
ANISOU 5085 N SER B 122	4830	4610	3620	-110	-80	-360	N0
ATOM 5086 CA SER B 122	-51.129	2.514	37.150	1.00	35.22		C0
ANISOU 5086 CA SER B 122	5110	4650	3620	-30	-60	-410	C0
ATOM 5087 C SER B 122	-52.583	2.112	37.421	1.00	34.92		C0
ANISOU 5087 C SER B 122	5040	4660	3570	90	70	-390	C0
ATOM 5088 O SER B 122	-53.445	2.460	36.606	1.00	34.30		O0
ANISOU 5088 O SER B 122	4900	4590	3540	130	130	-380	O0
ATOM 5089 CB SER B 122	-51.001	3.998	36.908	1.00	35.72		C0
ANISOU 5089 CB SER B 122	5300	4600	3670	-50	-110	-450	C0
ATOM 5090 OG SER B 122	-51.617	4.738	37.952	1.00	36.42		O0
ANISOU 5090 OG SER B 122	5570	4620	3650	60	-80	-510	O0
ATOM 5091 H SER B 122	-50.772	2.194	35.198	1.00	34.18		H0
ANISOU 5091 H SER B 122	4780	4570	3630	-130	-80	-360	H0
ATOM 5092 HA SER B 122	-50.577	2.268	37.939	1.00	35.50		H0
ANISOU 5092 HA SER B 122	5190	4690	3600	-50	-100	-430	H0
ATOM 5093 HB2 SER B 122	-50.048	4.238	36.852	1.00	35.84		H0
ANISOU 5093 HB2 SER B 122	5330	4590	3690	-140	-200	-470	H0
ATOM 5094 HB3 SER B 122	-51.425	4.227	36.050	1.00	35.34		H0
ANISOU 5094 HB3 SER B 122	5200	4550	3680	-30	-80	-430	H0
ATOM 5095 N CYS B 123	-52.837	1.378	38.504	1.00	35.60		N0
ANISOU 5095 N CYS B 123	5160	4780	3580	130	130	-390	N0
ATOM 5096 CA CYS B 123	-54.197	0.921	38.901	1.00	36.28		C0
ANISOU 5096 CA CYS B 123	5210	4930	3650	230	270	-360	C0
ATOM 5097 C CYS B 123	-54.240	0.611	40.405	1.00	36.68		C0
ANISOU 5097 C CYS B 123	5390	4980	3570	290	320	-370	C0
ATOM 5098 O CYS B 123	-53.195	0.722	41.078	1.00	35.55		O0
ANISOU 5098 O CYS B 123	5360	4790	3350	260	220	-400	O0
ATOM 5099 CB CYS B 123	-54.624	-0.287	38.071	1.00	35.60		C0
ANISOU 5099 CB CYS B 123	4940	4930	3660	180	330	-300	C0
ATOM 5100 SG CYS B 123	-53.529	-1.718	38.264	1.00	36.80		S0

ANISOU 5100 SG CYS B 123	5060	5100	3820	80	280	-270	S0
ATOM 5101 H CYS B 123	-52.191	1.096	39.082	1.00	35.76		H0
ANISOU 5101 H CYS B 123	5230	4800	3560	110	80	-400	H0
ATOM 5102 HA CYS B 123	-54.827	1.657	38.719	1.00	36.57		H0
ANISOU 5102 HA CYS B 123	5260	4950	3690	300	310	-380	H0
ATOM 5103 HB2 CYS B 123	-55.528	-0.552	38.328	1.00	36.40		H0
ANISOU 5103 HB2 CYS B 123	5000	5070	3760	230	420	-280	H0
ATOM 5104 HB3 CYS B 123	-54.642	-0.035	37.125	1.00	35.50		H0
ANISOU 5104 HB3 CYS B 123	4850	4920	3720	150	300	-300	H0
ATOM 5105 N ASP B 124	-55.418	0.235	40.909	1.00	37.22		N0
ANISOU 5105 N ASP B 124	5430	5100	3610	380	470	-340	N0
ATOM 5106 CA ASP B 124	-55.664	-0.015	42.353	1.00	37.76		C0
ANISOU 5106 CA ASP B 124	5630	5180	3540	460	540	-340	C0
ATOM 5107 C ASP B 124	-55.115	-1.390	42.747	1.00	36.67		C0
ANISOU 5107 C ASP B 124	5470	5070	3390	390	540	-290	C0
ATOM 5108 O ASP B 124	-55.758	-2.401	42.432	1.00	36.75		O0
ANISOU 5108 O ASP B 124	5360	5140	3470	360	640	-220	O0
ATOM 5109 CB ASP B 124	-57.152	0.088	42.684	1.00	39.05		C0
ANISOU 5109 CB ASP B 124	5750	5400	3680	580	720	-310	C0
ATOM 5110 CG ASP B 124	-57.416	0.201	44.172	1.00	40.99		C0
ANISOU 5110 CG ASP B 124	6180	5640	3760	690	810	-320	C0
ATOM 5111 OD1 ASP B 124	-56.431	0.208	44.949	1.00	40.85		O0
ANISOU 5111 OD1 ASP B 124	6330	5560	3630	670	720	-360	O0
ATOM 5112 OD2 ASP B 124	-58.600	0.283	44.538	1.00	42.77		O0
ANISOU 5112 OD2 ASP B 124	6370	5930	3950	800	980	-300	O0
ATOM 5113 H ASP B 124	-56.156	0.115	40.389	1.00	36.97		H0
ANISOU 5113 H ASP B 124	5290	5120	3640	390	530	-320	H0
ATOM 5114 HA ASP B 124	-55.184	0.675	42.868	1.00	38.32		H0
ANISOU 5114 HA ASP B 124	5840	5190	3530	490	480	-390	H0
ATOM 5115 HB2 ASP B 124	-57.528	0.873	42.240	1.00	39.22		H0
ANISOU 5115 HB2 ASP B 124	5760	5410	3730	630	720	-340	H0
ATOM 5116 HB3 ASP B 124	-57.616	-0.704	42.346	1.00	38.78		H0
ANISOU 5116 HB3 ASP B 124	5590	5430	3710	530	790	-260	H0
ATOM 5117 N VAL B 125	-53.993	-1.415	43.466	1.00	36.58		N0
ANISOU 5117 N VAL B 125	5590	5020	3280	380	430	-310	N0
ATOM 5118 CA VAL B 125	-53.333	-2.658	43.962	1.00	36.23		C0
ANISOU 5118 CA VAL B 125	5570	5000	3200	340	410	-260	C0
ATOM 5119 C VAL B 125	-53.672	-2.867	45.450	1.00	37.82		C0
ANISOU 5119 C VAL B 125	5940	5200	3230	440	500	-240	C0
ATOM 5120 O VAL B 125	-53.282	-3.920	45.997	1.00	37.94		O0
ANISOU 5120 O VAL B 125	5990	5230	3190	440	510	-180	O0
ATOM 5121 CB VAL B 125	-51.816	-2.583	43.703	1.00	36.00		C0
ANISOU 5121 CB VAL B 125	5540	4950	3190	270	230	-280	C0
ATOM 5122 CG1 VAL B 125	-51.092	-3.858	44.101	1.00	36.11		C0
ANISOU 5122 CG1 VAL B 125	5560	5000	3160	270	200	-220	C0
ATOM 5123 CG2 VAL B 125	-51.522	-2.243	42.246	1.00	35.00		C0
ANISOU 5123 CG2 VAL B 125	5260	4820	3210	190	160	-290	C0
ATOM 5124 H VAL B 125	-53.547	-0.655	43.701	1.00	36.94		H0
ANISOU 5124 H VAL B 125	5730	5020	3280	390	350	-360	H0
ATOM 5125 HA VAL B 125	-53.689	-3.412	43.461	1.00	35.86		H0
ANISOU 5125 HA VAL B 125	5410	4980	3230	310	480	-210	H0
ATOM 5126 HB VAL B 125	-51.458	-1.849	44.260	1.00	36.70		H0
ANISOU 5126 HB VAL B 125	5740	5020	3190	300	160	-330	H0
ATOM 5127 HG11 VAL B 125	-51.094	-3.948	45.069	1.00	37.03		H0

ANISOU 5127 HG11 VAL B 125	5790	5110	3170	330	210	-220	H0
ATOM 5128 HG12 VAL B 125	-50.175	-3.814	43.786	1.00	35.86		H0
ANISOU 5128 HG12 VAL B 125	5490	4970	3160	230	90	-230	H0
ATOM 5129 HG13 VAL B 125	-51.537	-4.625	43.701	1.00	35.69		H0
ANISOU 5129 HG13 VAL B 125	5430	4950	3180	250	280	-170	H0
ATOM 5130 HG21 VAL B 125	-52.110	-2.759	41.668	1.00	34.41		H0
ANISOU 5130 HG21 VAL B 125	5090	4770	3210	170	240	-260	H0
ATOM 5131 HG22 VAL B 125	-50.596	-2.458	42.040	1.00	34.67		H0
ANISOU 5131 HG22 VAL B 125	5190	4790	3190	140	70	-290	H0
ATOM 5132 HG23 VAL B 125	-51.673	-1.294	42.097	1.00	35.08		H0
ANISOU 5132 HG23 VAL B 125	5300	4800	3220	190	140	-340	H0
ATOM 5133 N SER B 126	-54.386	-1.932	46.095	1.00	38.68		N0
ANISOU 5133 N SER B 126	6160	5300	3240	540	570	-290	N0
ATOM 5134 CA SER B 126	-54.799	-2.068	47.519	1.00	40.28		C0
ANISOU 5134 CA SER B 126	6540	5510	3260	650	670	-270	C0
ATOM 5135 C SER B 126	-55.595	-3.370	47.686	1.00	40.17		C0
ANISOU 5135 C SER B 126	6440	5550	3270	650	850	-160	C0
ATOM 5136 O SER B 126	-56.415	-3.675	46.802	1.00	38.81		O0
ANISOU 5136 O SER B 126	6080	5420	3250	590	940	-130	O0
ATOM 5137 CB SER B 126	-55.566	-0.863	48.025	1.00	41.66		C0
ANISOU 5137 CB SER B 126	6830	5660	3340	780	740	-340	C0
ATOM 5138 OG SER B 126	-56.847	-0.769	47.420	1.00	41.81		O0
ANISOU 5138 OG SER B 126	6700	5730	3460	810	910	-300	O0
ATOM 5139 H SER B 126	-54.667	-1.152	45.719	1.00	38.66		H0
ANISOU 5139 H SER B 126	6140	5270	3270	560	560	-330	H0
ATOM 5140 HA SER B 126	-53.970	-2.149	48.060	1.00	40.61		H0
ANISOU 5140 HA SER B 126	6680	5530	3210	650	570	-290	H0
ATOM 5141 HB2 SER B 126	-55.670	-0.931	49.001	1.00	42.84		H0
ANISOU 5141 HB2 SER B 126	7120	5810	3350	850	790	-340	H0
ATOM 5142 HB3 SER B 126	-55.053	-0.046	47.830	1.00	41.60		H0
ANISOU 5142 HB3 SER B 126	6880	5590	3330	760	630	-410	H0
ATOM 5143 N GLY B 127	-55.306	-4.130	48.751	1.00	41.36		N0
ANISOU 5143 N GLY B 127	6730	5700	3280	690	880	-110	N0
ATOM 5144 CA GLY B 127	-55.973	-5.405	49.083	1.00	41.81		C0
ANISOU 5144 CA GLY B 127	6760	5790	3340	670	1060	0	C0
ATOM 5145 C GLY B 127	-55.330	-6.622	48.426	1.00	40.99		C0
ANISOU 5145 C GLY B 127	6570	5660	3340	560	1000	60	C0
ATOM 5146 O GLY B 127	-55.859	-7.728	48.640	1.00	41.04		O0
ANISOU 5146 O GLY B 127	6570	5670	3350	530	1140	160	O0
ATOM 5147 H GLY B 127	-54.661	-3.892	49.349	1.00	41.79		H0
ANISOU 5147 H GLY B 127	6910	5730	3230	720	790	-150	H0
ATOM 5148 HA2 GLY B 127	-55.958	-5.523	50.065	1.00	43.06		H0
ANISOU 5148 HA2 GLY B 127	7070	5950	3350	740	1100	20	H0
ATOM 5149 HA3 GLY B 127	-56.921	-5.351	48.803	1.00	42.03		H0
ANISOU 5149 HA3 GLY B 127	6690	5860	3430	670	1180	20	H0
ATOM 5150 N VAL B 128	-54.222	-6.462	47.685	1.00	40.21		N0
ANISOU 5150 N VAL B 128	6420	5540	3320	510	810	20	N0
ATOM 5151 CA VAL B 128	-53.562	-7.576	46.932	1.00	40.03		C0
ANISOU 5151 CA VAL B 128	6310	5500	3400	430	750	70	C0
ATOM 5152 C VAL B 128	-53.171	-8.715	47.890	1.00	41.39		C0
ANISOU 5152 C VAL B 128	6640	5640	3450	480	790	160	C0
ATOM 5153 O VAL B 128	-53.264	-9.879	47.458	1.00	40.34		O0
ANISOU 5153 O VAL B 128	6470	5470	3390	420	850	230	O0
ATOM 5154 CB VAL B 128	-52.350	-7.107	46.100	1.00	39.38		C0

ANISOU 5154 CB VAL B 128	6150	5410	3390	390	550	10	C0
ATOM 5155 CG1 VAL B 128	-51.199	-6.599	46.957	1.00	40.36		C0
ANISOU 5155 CG1 VAL B 128	6410	5550	3380	450	380	-40	C0
ATOM 5156 CG2 VAL B 128	-51.865	-8.208	45.166	1.00	38.72		C0
ANISOU 5156 CG2 VAL B 128	5970	5310	3430	320	530	60	C0
ATOM 5157 H VAL B 128	-53.804	-5.660	47.590	1.00	40.03		H0
ANISOU 5157 H VAL B 128	6410	5520	3280	520	700	-50	H0
ATOM 5158 HA VAL B 128	-54.221	-7.933	46.312	1.00	39.64		H0
ANISOU 5158 HA VAL B 128	6160	5450	3450	370	840	90	H0
ATOM 5159 HB VAL B 128	-52.657	-6.355	45.537	1.00	38.79		H0
ANISOU 5159 HB VAL B 128	6000	5350	3390	360	540	-40	H0
ATOM 5160 HG11 VAL B 128	-51.542	-5.999	47.642	1.00	41.04		H0
ANISOU 5160 HG11 VAL B 128	6590	5630	3370	500	410	-70	H0
ATOM 5161 HG12 VAL B 128	-50.564	-6.120	46.397	1.00	39.65		H0
ANISOU 5161 HG12 VAL B 128	6250	5470	3350	410	260	-80	H0
ATOM 5162 HG13 VAL B 128	-50.751	-7.351	47.381	1.00	40.78		H0
ANISOU 5162 HG13 VAL B 128	6520	5600	3370	490	370	10	H0
ATOM 5163 HG21 VAL B 128	-51.297	-8.826	45.658	1.00	39.20		H0
ANISOU 5163 HG21 VAL B 128	6110	5360	3420	360	500	100	H0
ATOM 5164 HG22 VAL B 128	-51.359	-7.815	44.435	1.00	37.86		H0
ANISOU 5164 HG22 VAL B 128	5770	5220	3400	290	430	20	H0
ATOM 5165 HG23 VAL B 128	-52.630	-8.689	44.806	1.00	38.54		H0
ANISOU 5165 HG23 VAL B 128	5890	5280	3470	280	640	90	H0
ATOM 5166 N ASP B 129	-52.773	-8.404	49.134	1.00	43.55		N0
ANISOU 5166 N ASP B 129	7090	5920	3530	590	750	150	N0
ATOM 5167 CA ASP B 129	-52.360	-9.400	50.168	1.00	45.32		C0
ANISOU 5167 CA ASP B 129	7500	6130	3600	670	770	240	C0
ATOM 5168 C ASP B 129	-53.525	-9.739	51.111	1.00	46.48		C0
ANISOU 5168 C ASP B 129	7760	6270	3630	710	1000	310	C0
ATOM 5169 O ASP B 129	-53.254	-10.095	52.276	1.00	48.70		O0
ANISOU 5169 O ASP B 129	8240	6540	3720	810	1010	360	O0
ATOM 5170 CB ASP B 129	-51.175	-8.890	50.994	1.00	46.96		C0
ANISOU 5170 CB ASP B 129	7840	6370	3640	760	570	190	C0
ATOM 5171 CG ASP B 129	-49.891	-8.719	50.202	1.00	47.16		C0
ANISOU 5171 CG ASP B 129	7740	6420	3760	720	350	140	C0
ATOM 5172 OD1 ASP B 129	-49.883	-9.067	49.000	1.00	46.30		O0
ANISOU 5172 OD1 ASP B 129	7460	6290	3840	630	360	150	O0
ATOM 5173 OD2 ASP B 129	-48.908	-8.234	50.795	1.00	49.78		O0
ANISOU 5173 OD2 ASP B 129	8150	6790	3970	770	170	100	O0
ATOM 5174 H ASP B 129	-52.723	-7.543	49.427	1.00	43.64		H0
ANISOU 5174 H ASP B 129	7150	5950	3480	620	700	90	H0
ATOM 5175 HA ASP B 129	-52.082	-10.227	49.708	1.00	44.95		H0
ANISOU 5175 HA ASP B 129	7410	6050	3620	630	770	290	H0
ATOM 5176 HB2 ASP B 129	-51.411	-8.025	51.388	1.00	47.43		H0
ANISOU 5176 HB2 ASP B 129	7950	6440	3630	790	560	130	H0
ATOM 5177 HB3 ASP B 129	-50.995	-9.518	51.723	1.00	48.10		H0
ANISOU 5177 HB3 ASP B 129	8110	6500	3660	830	590	250	H0
ATOM 5178 N THR B 130	-54.772	-9.643	50.643	1.00	45.50		N0
ANISOU 5178 N THR B 130	7510	6160	3620	640	1170	320	N0
ATOM 5179 CA THR B 130	-55.990	-10.004	51.417	1.00	46.51		C0
ANISOU 5179 CA THR B 130	7700	6300	3670	660	1420	400	C0
ATOM 5180 C THR B 130	-56.734	-11.119	50.674	1.00	46.82		C0
ANISOU 5180 C THR B 130	7610	6320	3870	510	1570	490	C0
ATOM 5181 O THR B 130	-56.448	-11.324	49.465	1.00	44.87		O0

ANISOU 5181 O THR B 130	7200	6050	3800	410	1470	460	O0
ATOM 5182 CB THR B 130	-56.870	-8.769	51.653	1.00	46.44		C0
ANISOU 5182 CB THR B 130	7660	6360	3620	720	1500	330	C0
ATOM 5183 OG1 THR B 130	-57.491	-8.399	50.420	1.00	44.94		O0
ANISOU 5183 OG1 THR B 130	7220	6210	3640	620	1510	290	O0
ATOM 5184 CG2 THR B 130	-56.090	-7.595	52.204	1.00	46.18		C0
ANISOU 5184 CG2 THR B 130	7770	6330	3450	830	1330	220	C0
ATOM 5185 H THR B 130	-54.970	-9.349	49.805	1.00	44.52		H0
ANISOU 5185 H THR B 130	7250	6050	3620	570	1150	280	H0
ATOM 5186 HA THR B 130	-55.704	-10.353	52.292	1.00	47.73		H0
ANISOU 5186 HA THR B 130	8020	6440	3670	730	1430	450	H0
ATOM 5187 HB THR B 130	-57.573	-9.013	52.301	1.00	47.72		H0
ANISOU 5187 HB THR B 130	7880	6550	3710	750	1660	390	H0
ATOM 5188 HG21 THR B 130	-55.587	-7.878	52.989	1.00	47.18		H0
ANISOU 5188 HG21 THR B 130	8050	6440	3430	890	1290	250	H0
ATOM 5189 HG22 THR B 130	-56.706	-6.883	52.453	1.00	46.91		H0
ANISOU 5189 HG22 THR B 130	7870	6450	3500	890	1400	190	H0
ATOM 5190 HG23 THR B 130	-55.473	-7.266	51.526	1.00	45.11		H0
ANISOU 5190 HG23 THR B 130	7560	6180	3400	790	1180	170	H0
ATOM 5191 N GLU B 131	-57.660	-11.795	51.360	1.00	48.54		N0
ANISOU 5191 N GLU B 131	7880	6530	4030	490	1790	590	N0
ATOM 5192 CA GLU B 131	-58.491	-12.891	50.787	1.00	49.66		C0
ANISOU 5192 CA GLU B 131	7910	6640	4310	330	1950	680	C0
ATOM 5193 C GLU B 131	-59.268	-12.393	49.560	1.00	48.36		C0
ANISOU 5193 C GLU B 131	7470	6550	4350	210	1950	620	C0
ATOM 5194 O GLU B 131	-59.347	-13.156	48.571	1.00	47.68		O0
ANISOU 5194 O GLU B 131	7270	6420	4430	60	1940	630	O0
ATOM 5195 CB GLU B 131	-59.449	-13.446	51.837	1.00	52.38		C0
ANISOU 5195 CB GLU B 131	8360	7000	4540	320	2210	800	C0
ATOM 5196 CG GLU B 131	-58.817	-14.529	52.677	1.00	54.38		C0
ANISOU 5196 CG GLU B 131	8870	7140	4650	370	2240	910	C0
ATOM 5197 CD GLU B 131	-59.600	-14.889	53.924	1.00	57.27		C0
ANISOU 5197 CD GLU B 131	9390	7520	4850	410	2480	1030	C0
ATOM 5198 OE1 GLU B 131	-60.257	-15.943	53.908	1.00	59.56		O0
ANISOU 5198 OE1 GLU B 131	9680	7750	5190	260	2660	1150	O0
ATOM 5199 OE2 GLU B 131	-59.537	-14.117	54.907	1.00	58.28		O0
ANISOU 5199 OE2 GLU B 131	9650	7710	4780	570	2490	1010	O0
ATOM 5200 H GLU B 131	-57.835	-11.623	52.237	1.00	49.87		H0
ANISOU 5200 H GLU B 131	8170	6720	4060	580	1860	620	H0
ATOM 5201 HA GLU B 131	-57.887	-13.614	50.500	1.00	49.20		H0
ANISOU 5201 HA GLU B 131	7900	6510	4280	290	1880	710	H0
ATOM 5202 HB2 GLU B 131	-59.742	-12.715	52.420	1.00	53.05		H0
ANISOU 5202 HB2 GLU B 131	8470	7150	4530	420	2250	780	H0
ATOM 5203 HB3 GLU B 131	-60.238	-13.811	51.385	1.00	52.78		H0
ANISOU 5203 HB3 GLU B 131	8270	7070	4710	200	2320	840	H0
ATOM 5204 HG2 GLU B 131	-58.713	-15.337	52.130	1.00	54.05		H0
ANISOU 5204 HG2 GLU B 131	8810	7020	4700	260	2230	950	H0
ATOM 5205 HG3 GLU B 131	-57.924	-14.236	52.946	1.00	53.82		H0
ANISOU 5205 HG3 GLU B 131	8910	7060	4490	480	2090	870	H0
ATOM 5206 N SER B 132	-59.807	-11.171	49.623	1.00	48.17		N0
ANISOU 5206 N SER B 132	7350	6630	4320	290	1970	550	N0
ATOM 5207 CA SER B 132	-60.642	-10.545	48.561	1.00	47.76		C0
ANISOU 5207 CA SER B 132	7040	6670	4440	220	1970	490	C0
ATOM 5208 C SER B 132	-59.768	-10.117	47.369	1.00	44.92		C0

ANISOU 5208	C	SER B 132	6590	6280	4200	190	1740	390	C0
ATOM 5209	O	SER B 132	-60.288	-10.065	46.236	1.00	43.91		O0
ANISOU 5209	O	SER B 132	6260	6190	4230	90	1720	370	O0
ATOM 5210	CB	SER B 132	-61.431	-9.384	49.125	1.00	49.20		C0
ANISOU 5210	CB	SER B 132	7190	6960	4540	350	2070	460	C0
ATOM 5211	OG	SER B 132	-60.575	-8.289	49.430	1.00	49.10		O0
ANISOU 5211	OG	SER B 132	7310	6920	4420	500	1910	360	O0
ATOM 5212	H	SER B 132	-59.700	-10.622	50.342	1.00	48.82		H0
ANISOU 5212	H	SER B 132	7540	6740	4280	400	1970	530	H0
ATOM 5213	HA	SER B 132	-61.286	-11.230	48.238	1.00	48.20		H0
ANISOU 5213	HA	SER B 132	6990	6740	4580	100	2070	550	H0
ATOM 5214	HB2	SER B 132	-62.107	-9.100	48.469	1.00	49.08		H0
ANISOU 5214	HB2	SER B 132	6990	7020	4640	310	2100	440	H0
ATOM 5215	HB3	SER B 132	-61.898	-9.673	49.941	1.00	50.72		H0
ANISOU 5215	HB3	SER B 132	7450	7180	4640	380	2220	520	H0
ATOM 5216	N	GLY B 133	-58.492	-9.814	47.625	1.00	43.65		N0
ANISOU 5216	N	GLY B 133	6580	6050	3950	280	1570	350	N0
ATOM 5217	CA	GLY B 133	-57.495	-9.427	46.612	1.00	41.21		C0
ANISOU 5217	CA	GLY B 133	6210	5710	3730	250	1360	270	C0
ATOM 5218	C	GLY B 133	-57.656	-7.983	46.170	1.00	40.26		C0
ANISOU 5218	C	GLY B 133	6010	5640	3640	310	1280	170	C0
ATOM 5219	O	GLY B 133	-58.549	-7.297	46.698	1.00	40.65		O0
ANISOU 5219	O	GLY B 133	6050	5760	3640	390	1400	160	O0
ATOM 5220	H	GLY B 133	-58.158	-9.819	48.472	1.00	44.32		H0
ANISOU 5220	H	GLY B 133	6820	6120	3900	350	1580	360	H0
ATOM 5221	HA2	GLY B 133	-56.588	-9.558	46.985	1.00	41.18		H0
ANISOU 5221	HA2	GLY B 133	6330	5660	3650	300	1260	260	H0
ATOM 5222	HA3	GLY B 133	-57.591	-10.021	45.826	1.00	40.76		H0
ANISOU 5222	HA3	GLY B 133	6060	5640	3790	150	1350	280	H0
ATOM 5223	N	ALA B 134	-56.813	-7.538	45.234	1.00	38.50		N0
ANISOU 5223	N	ALA B 134	5730	5400	3500	280	1100	100	N0
ATOM 5224	CA	ALA B 134	-56.917	-6.220	44.563	1.00	38.21		C0
ANISOU 5224	CA	ALA B 134	5600	5390	3520	310	1020	20	C0
ATOM 5225	C	ALA B 134	-57.799	-6.364	43.321	1.00	37.94		C0
ANISOU 5225	C	ALA B 134	5350	5410	3660	220	1070	20	C0
ATOM 5226	O	ALA B 134	-57.860	-7.483	42.774	1.00	37.77		O0
ANISOU 5226	O	ALA B 134	5260	5370	3720	110	1090	70	O0
ATOM 5227	CB	ALA B 134	-55.549	-5.703	44.197	1.00	36.76		C0
ANISOU 5227	CB	ALA B 134	5470	5160	3340	300	820	-50	C0
ATOM 5228	H	ALA B 134	-56.106	-8.026	44.929	1.00	38.09		H0
ANISOU 5228	H	ALA B 134	5680	5310	3480	240	1030	110	H0
ATOM 5229	HA	ALA B 134	-57.345	-5.583	45.181	1.00	38.90		H0
ANISOU 5229	HA	ALA B 134	5750	5500	3530	390	1080	0	H0
ATOM 5230	HB1	ALA B 134	-55.626	-4.805	43.833	1.00	36.59		H0
ANISOU 5230	HB1	ALA B 134	5420	5140	3340	320	780	-100	H0
ATOM 5231	HB2	ALA B 134	-54.986	-5.683	44.989	1.00	37.40		H0
ANISOU 5231	HB2	ALA B 134	5680	5220	3310	350	780	-50	H0
ATOM 5232	HB3	ALA B 134	-55.148	-6.287	43.531	1.00	36.14		H0
ANISOU 5232	HB3	ALA B 134	5330	5070	3340	240	770	-30	H0
ATOM 5233	N	THR B 135	-58.453	-5.276	42.905	1.00	38.54		N0
ANISOU 5233	N	THR B 135	5340	5530	3770	270	1080	-20	N0
ATOM 5234	CA	THR B 135	-59.101	-5.146	41.573	1.00	38.96		C0
ANISOU 5234	CA	THR B 135	5190	5640	3970	210	1060	-30	C0
ATOM 5235	C	THR B 135	-58.402	-4.027	40.795	1.00	38.23		C0

ANISOU 5235 C THR B 135	5110	5510	3910	240	910	-100	C0
ATOM 5236 O THR B 135	-58.677	-2.843	41.059	1.00	39.06		O0
ANISOU 5236 O THR B 135	5260	5620	3960	350	910	-140	O0
ATOM 5237 CB THR B 135	-60.612	-4.922	41.683	1.00	40.18		C0
ANISOU 5237 CB THR B 135	5210	5910	4150	250	1220	0	C0
ATOM 5238 OG1 THR B 135	-61.149	-5.983	42.470	1.00	42.18		O0
ANISOU 5238 OG1 THR B 135	5460	6190	4370	200	1370	70	O0
ATOM 5239 CG2 THR B 135	-61.288	-4.902	40.330	1.00	39.77		C0
ANISOU 5239 CG2 THR B 135	4930	5940	4240	180	1190	-10	C0
ATOM 5240 H THR B 135	-58.550	-4.528	43.415	1.00	39.15		H0
ANISOU 5240 H THR B 135	5490	5610	3770	360	1090	-50	H0
ATOM 5241 HA THR B 135	-58.958	-5.989	41.090	1.00	38.38		H0
ANISOU 5241 HA THR B 135	5060	5560	3960	110	1050	-10	H0
ATOM 5242 HB THR B 135	-60.774	-4.062	42.140	1.00	40.86		H0
ANISOU 5242 HB THR B 135	5350	6010	4170	360	1240	-30	H0
ATOM 5243 HG21 THR B 135	-61.096	-4.060	39.881	1.00	39.29		H0
ANISOU 5243 HG21 THR B 135	4870	5870	4190	240	1110	-50	H0
ATOM 5244 HG22 THR B 135	-62.251	-4.995	40.445	1.00	40.81		H0
ANISOU 5244 HG22 THR B 135	4950	6160	4390	180	1290	30	H0
ATOM 5245 HG23 THR B 135	-60.955	-5.641	39.789	1.00	39.14		H0
ANISOU 5245 HG23 THR B 135	4820	5830	4220	70	1140	0	H0
ATOM 5246 N CYS B 136	-57.506	-4.413	39.892	1.00	37.61		N0
ANISOU 5246 N CYS B 136	5000	5390	3900	150	790	-110	N0
ATOM 5247 CA CYS B 136	-56.784	-3.523	38.954	1.00	37.50		C0
ANISOU 5247 CA CYS B 136	4970	5340	3930	140	650	-160	C0
ATOM 5248 C CYS B 136	-57.608	-3.383	37.665	1.00	37.95		C0
ANISOU 5248 C CYS B 136	4860	5460	4100	110	660	-160	C0
ATOM 5249 O CYS B 136	-57.878	-4.420	37.021	1.00	38.21		O0
ANISOU 5249 O CYS B 136	4780	5530	4210	10	680	-130	O0
ATOM 5250 CB CYS B 136	-55.398	-4.094	38.677	1.00	37.04		C0
ANISOU 5250 CB CYS B 136	4960	5230	3890	70	540	-170	C0
ATOM 5251 SG CYS B 136	-54.519	-3.254	37.337	1.00	36.80		S0
ANISOU 5251 SG CYS B 136	4880	5170	3930	30	390	-210	S0
ATOM 5252 H CYS B 136	-57.268	-5.286	39.783	1.00	37.45		H0
ANISOU 5252 H CYS B 136	4970	5360	3900	80	790	-90	H0
ATOM 5253 HA CYS B 136	-56.686	-2.638	39.374	1.00	37.90		H0
ANISOU 5253 HA CYS B 136	5110	5370	3930	210	630	-200	H0
ATOM 5254 HB2 CYS B 136	-54.858	-4.030	39.491	1.00	37.45		H0
ANISOU 5254 HB2 CYS B 136	5120	5250	3860	100	510	-170	H0
ATOM 5255 HB3 CYS B 136	-55.482	-5.041	38.446	1.00	36.99		H0
ANISOU 5255 HB3 CYS B 136	4910	5230	3920	10	570	-130	H0
ATOM 5256 N ARG B 137	-57.995	-2.154	37.306	1.00	38.38		N0
ANISOU 5256 N ARG B 137	4900	5520	4160	190	630	-190	N0
ATOM 5257 CA ARG B 137	-58.852	-1.859	36.126	1.00	38.84		C0
ANISOU 5257 CA ARG B 137	4800	5660	4300	190	630	-190	C0
ATOM 5258 C ARG B 137	-57.983	-1.288	34.997	1.00	37.41		C0
ANISOU 5258 C ARG B 137	4630	5420	4160	160	500	-210	C0
ATOM 5259 O ARG B 137	-57.299	-0.279	35.231	1.00	36.68		O0
ANISOU 5259 O ARG B 137	4670	5240	4020	210	440	-240	O0
ATOM 5260 CB ARG B 137	-59.995	-0.921	36.523	1.00	40.72		C0
ANISOU 5260 CB ARG B 137	5010	5950	4510	340	710	-190	C0
ATOM 5261 CG ARG B 137	-60.919	-1.512	37.577	1.00	43.36		C0
ANISOU 5261 CG ARG B 137	5300	6370	4800	370	870	-150	C0
ATOM 5262 CD ARG B 137	-62.205	-0.741	37.787	1.00	45.71		C0

ANISOU 5262 CD ARG B 137	5520	6770	5080	530	970	-140	C0
ATOM 5263 NE ARG B 137	-62.741	-0.973	39.126	1.00	49.23		N0
ANISOU 5263 NE ARG B 137	6010	7250	5450	600	1130	-110	N0
ATOM 5264 CZ ARG B 137	-63.529	-1.990	39.494	1.00	50.65		C0
ANISOU 5264 CZ ARG B 137	6050	7540	5650	530	1250	-50	C0
ATOM 5265 NH1 ARG B 137	-63.910	-2.914	38.623	1.00	50.20		N0
ANISOU 5265 NH1 ARG B 137	5810	7560	5710	370	1240	-20	N0
ATOM 5266 NH2 ARG B 137	-63.933	-2.077	40.751	1.00	51.79		N0
ANISOU 5266 NH2 ARG B 137	6270	7710	5700	600	1400	-30	N0
ATOM 5267 H ARG B 137	-57.752	-1.410	37.772	1.00	38.70		H0
ANISOU 5267 H ARG B 137	5040	5520	4140	260	610	-220	H0
ATOM 5268 HA ARG B 137	-59.244	-2.706	35.817	1.00	38.78		H0
ANISOU 5268 HA ARG B 137	4690	5700	4340	120	660	-160	H0
ATOM 5269 HB2 ARG B 137	-59.613	-0.086	36.866	1.00	41.02		H0
ANISOU 5269 HB2 ARG B 137	5170	5920	4490	410	690	-220	H0
ATOM 5270 HB3 ARG B 137	-60.520	-0.708	35.723	1.00	41.00		H0
ANISOU 5270 HB3 ARG B 137	4940	6040	4590	350	700	-180	H0
ATOM 5271 HG2 ARG B 137	-61.146	-2.432	37.320	1.00	43.11		H0
ANISOU 5271 HG2 ARG B 137	5170	6380	4820	270	890	-120	H0
ATOM 5272 HG3 ARG B 137	-60.438	-1.555	38.431	1.00	43.31		H0
ANISOU 5272 HG3 ARG B 137	5430	6300	4720	390	880	-160	H0
ATOM 5273 HD2 ARG B 137	-62.032	0.218	37.668	1.00	46.05		H0
ANISOU 5273 HD2 ARG B 137	5640	6760	5100	620	930	-170	H0
ATOM 5274 HD3 ARG B 137	-62.865	-1.016	37.117	1.00	46.26		H0
ANISOU 5274 HD3 ARG B 137	5420	6930	5230	490	980	-110	H0
ATOM 5275 HE ARG B 137	-62.522	-0.399	39.745	1.00	49.21		H0
ANISOU 5275 HE ARG B 137	6140	7190	5360	690	1140	-140	H0
ATOM 5276 HH11 ARG B 137	-63.646	-2.871	37.787	1.00	49.42		H0
ANISOU 5276 HH11 ARG B 137	5670	7440	5660	320	1140	-40	H0
ATOM 5277 HH12 ARG B 137	-64.428	-3.574	38.885	1.00	50.94		H0
ANISOU 5277 HH12 ARG B 137	5820	7710	5820	310	1320	20	H0
ATOM 5278 HH21 ARG B 137	-63.687	-1.466	41.336	1.00	52.06		H0
ANISOU 5278 HH21 ARG B 137	6440	7690	5650	710	1410	-50	H0
ATOM 5279 HH22 ARG B 137	-64.455	-2.742	41.000	1.00	52.49		H0
ANISOU 5279 HH22 ARG B 137	6270	7860	5810	550	1490	20	H0
ATOM 5280 N ILE B 138	-58.015	-1.933	33.826	1.00	36.07		N0
ANISOU 5280 N ILE B 138	4350	5290	4070	70	460	-200	N0
ATOM 5281 CA ILE B 138	-57.247	-1.548	32.603	1.00	35.83		C0
ANISOU 5281 CA ILE B 138	4320	5220	4080	30	350	-210	C0
ATOM 5282 C ILE B 138	-58.249	-1.081	31.540	1.00	36.02		C0
ANISOU 5282 C ILE B 138	4220	5320	4140	70	340	-210	C0
ATOM 5283 O ILE B 138	-59.177	-1.849	31.237	1.00	36.72		O0
ANISOU 5283 O ILE B 138	4170	5510	4270	30	380	-190	O0
ATOM 5284 CB ILE B 138	-56.388	-2.734	32.119	1.00	35.36		C0
ANISOU 5284 CB ILE B 138	4240	5140	4050	-90	320	-210	C0
ATOM 5285 CG1 ILE B 138	-55.251	-3.031	33.100	1.00	35.63		C0
ANISOU 5285 CG1 ILE B 138	4390	5110	4040	-100	300	-210	C0
ATOM 5286 CG2 ILE B 138	-55.870	-2.498	30.710	1.00	35.23		C0
ANISOU 5286 CG2 ILE B 138	4190	5120	4070	-130	240	-210	C0
ATOM 5287 CD1 ILE B 138	-54.628	-4.394	32.930	1.00	35.53		C0
ANISOU 5287 CD1 ILE B 138	4370	5090	4040	-180	300	-190	C0
ATOM 5288 H ILE B 138	-58.528	-2.674	33.698	1.00	36.59		H0
ANISOU 5288 H ILE B 138	4330	5410	4170	20	500	-180	H0
ATOM 5289 HA ILE B 138	-56.656	-0.807	32.824	1.00	35.65		H0

ANISOU 5289 HA ILE B 138	4390	5140	4020	60	310	-230	H0
ATOM 5290 HB ILE B 138	-56.972	-3.531	32.093	1.00	35.73		H0
ANISOU 5290 HB ILE B 138	4220	5230	4120	-130	360	-200	H0
ATOM 5291 HG12 ILE B 138	-54.553	-2.351	32.987	1.00	35.35		H0
ANISOU 5291 HG12 ILE B 138	4410	5030	3990	-90	240	-220	H0
ATOM 5292 HG13 ILE B 138	-55.596	-2.957	34.015	1.00	36.08		H0
ANISOU 5292 HG13 ILE B 138	4490	5170	4050	-60	350	-210	H0
ATOM 5293 HG21 ILE B 138	-56.577	-2.681	30.067	1.00	35.30		H0
ANISOU 5293 HG21 ILE B 138	4120	5190	4110	-140	240	-210	H0
ATOM 5294 HG22 ILE B 138	-55.117	-3.088	30.534	1.00	34.63		H0
ANISOU 5294 HG22 ILE B 138	4130	5020	4000	-180	210	-210	H0
ATOM 5295 HG23 ILE B 138	-55.582	-1.573	30.618	1.00	35.08		H0
ANISOU 5295 HG23 ILE B 138	4220	5070	4040	-90	200	-220	H0
ATOM 5296 HD11 ILE B 138	-55.327	-5.071	32.907	1.00	35.74		H0
ANISOU 5296 HD11 ILE B 138	4350	5140	4090	-210	360	-180	H0
ATOM 5297 HD12 ILE B 138	-54.029	-4.573	33.675	1.00	35.49		H0
ANISOU 5297 HD12 ILE B 138	4430	5050	4000	-170	300	-190	H0
ATOM 5298 HD13 ILE B 138	-54.125	-4.422	32.098	1.00	34.99		H0
ANISOU 5298 HD13 ILE B 138	4280	5010	4000	-210	250	-200	H0
ATOM 5299 N LYS B 139	-58.091	0.139	31.026	1.00	35.73		N0
ANISOU 5299 N LYS B 139	4240	5240	4090	150	290	-210	N0
ATOM 5300 CA LYS B 139	-58.979	0.705	29.979	1.00	36.80		C0
ANISOU 5300 CA LYS B 139	4280	5450	4250	220	270	-200	C0
ATOM 5301 C LYS B 139	-58.215	0.756	28.649	1.00	35.89		C0
ANISOU 5301 C LYS B 139	4180	5310	4150	150	180	-190	C0
ATOM 5302 O LYS B 139	-57.146	1.398	28.590	1.00	34.01		O0
ANISOU 5302 O LYS B 139	4070	4960	3890	130	130	-200	O0
ATOM 5303 CB LYS B 139	-59.506	2.075	30.405	1.00	38.75		C0
ANISOU 5303 CB LYS B 139	4610	5670	4450	390	290	-190	C0
ATOM 5304 CG LYS B 139	-60.632	2.032	31.432	1.00	41.15		C0
ANISOU 5304 CG LYS B 139	4850	6050	4730	490	400	-190	C0
ATOM 5305 CD LYS B 139	-61.367	3.352	31.570	1.00	43.54		C0
ANISOU 5305 CD LYS B 139	5210	6350	4990	690	430	-180	C0
ATOM 5306 CE LYS B 139	-62.626	3.253	32.404	1.00	45.66		C0
ANISOU 5306 CE LYS B 139	5370	6740	5240	810	550	-170	C0
ATOM 5307 NZ LYS B 139	-63.105	4.593	32.817	1.00	47.61		N0
ANISOU 5307 NZ LYS B 139	5730	6940	5420	1040	600	-170	N0
ATOM 5308 H LYS B 139	-57.423	0.701	31.287	1.00	35.77		H0
ANISOU 5308 H LYS B 139	4350	5170	4070	160	260	-220	H0
ATOM 5309 HA LYS B 139	-59.747	0.100	29.872	1.00	37.23		H0
ANISOU 5309 HA LYS B 139	4210	5600	4330	200	300	-190	H0
ATOM 5310 HB2 LYS B 139	-58.762	2.593	30.778	1.00	38.60		H0
ANISOU 5310 HB2 LYS B 139	4730	5540	4400	390	270	-210	H0
ATOM 5311 HB3 LYS B 139	-59.828	2.546	29.608	1.00	39.13		H0
ANISOU 5311 HB3 LYS B 139	4620	5740	4500	440	260	-180	H0
ATOM 5312 HG2 LYS B 139	-61.272	1.336	31.172	1.00	41.32		H0
ANISOU 5312 HG2 LYS B 139	4730	6180	4790	450	420	-170	H0
ATOM 5313 HG3 LYS B 139	-60.255	1.784	32.304	1.00	40.93		H0
ANISOU 5313 HG3 LYS B 139	4900	5980	4670	460	440	-200	H0
ATOM 5314 HD2 LYS B 139	-60.767	4.010	31.981	1.00	43.40		H0
ANISOU 5314 HD2 LYS B 139	5350	6210	4930	720	420	-200	H0
ATOM 5315 HD3 LYS B 139	-61.605	3.679	30.677	1.00	43.61		H0
ANISOU 5315 HD3 LYS B 139	5170	6390	5010	730	380	-170	H0
ATOM 5316 HE2 LYS B 139	-63.326	2.809	31.888	1.00	45.99		H0

ANISOU 5316 HE2 LYS B 139	5230	6910	5330	800	560	-140	H0
ATOM 5317 HE3 LYS B 139	-62.450	2.717	33.201	1.00	45.46		H0
ANISOU 5317 HE3 LYS B 139	5360	6710	5200	760	600	-180	H0
ATOM 5318 HZ1 LYS B 139	-62.476	4.999	33.330	1.00	47.23		H0
ANISOU 5318 HZ1 LYS B 139	5850	6770	5320	1050	590	-200	H0
ATOM 5319 HZ2 LYS B 139	-63.871	4.511	33.296	1.00	48.39		H0
ANISOU 5319 HZ2 LYS B 139	5750	7130	5510	1120	680	-160	H0
ATOM 5320 HZ3 LYS B 139	-63.265	5.102	32.084	1.00	47.68		H0
ANISOU 5320 HZ3 LYS B 139	5730	6950	5440	1100	550	-160	H0
ATOM 5321 N ILE B 140	-58.759	0.089	27.629	1.00	36.11		N0
ANISOU 5321 N ILE B 140	4080	5430	4210	100	150	-190	N0
ATOM 5322 CA ILE B 140	-58.175	-0.014	26.261	1.00	35.42		C0
ANISOU 5322 CA ILE B 140	3990	5340	4130	50	70	-180	C0
ATOM 5323 C ILE B 140	-59.192	0.541	25.261	1.00	35.31		C0
ANISOU 5323 C ILE B 140	3890	5420	4110	130	30	-160	C0
ATOM 5324 O ILE B 140	-60.319	0.016	25.195	1.00	35.62		O0
ANISOU 5324 O ILE B 140	3780	5580	4170	130	30	-170	O0
ATOM 5325 CB ILE B 140	-57.766	-1.465	25.943	1.00	36.10		C0
ANISOU 5325 CB ILE B 140	4040	5440	4240	-90	70	-200	C0
ATOM 5326 CG1 ILE B 140	-56.682	-1.943	26.914	1.00	36.53		C0
ANISOU 5326 CG1 ILE B 140	4180	5400	4300	-150	100	-210	C0
ATOM 5327 CG2 ILE B 140	-57.324	-1.597	24.487	1.00	36.07		C0
ANISOU 5327 CG2 ILE B 140	4040	5440	4230	-130	0	-200	C0
ATOM 5328 CD1 ILE B 140	-56.279	-3.387	26.744	1.00	36.52		C0
ANISOU 5328 CD1 ILE B 140	4160	5400	4310	-250	110	-220	C0
ATOM 5329 H ILE B 140	-59.548	-0.359	27.709	1.00	36.52		H0
ANISOU 5329 H ILE B 140	4030	5560	4280	100	170	-180	H0
ATOM 5330 HA ILE B 140	-57.377	0.538	26.228	1.00	35.12		H0
ANISOU 5330 HA ILE B 140	4050	5220	4070	50	50	-180	H0
ATOM 5331 HB ILE B 140	-58.562	-2.037	26.073	1.00	36.58		H0
ANISOU 5331 HB ILE B 140	4010	5570	4320	-120	90	-210	H0
ATOM 5332 HG12 ILE B 140	-55.886	-1.381	26.796	1.00	36.00		H0
ANISOU 5332 HG12 ILE B 140	4190	5280	4210	-140	80	-200	H0
ATOM 5333 HG13 ILE B 140	-57.004	-1.816	27.832	1.00	36.59		H0
ANISOU 5333 HG13 ILE B 140	4200	5410	4300	-110	140	-210	H0
ATOM 5334 HG21 ILE B 140	-58.069	-1.392	23.897	1.00	36.61		H0
ANISOU 5334 HG21 ILE B 140	4040	5580	4290	-100	-30	-200	H0
ATOM 5335 HG22 ILE B 140	-57.024	-2.507	24.317	1.00	35.74		H0
ANISOU 5335 HG22 ILE B 140	3990	5400	4190	-210	0	-220	H0
ATOM 5336 HG23 ILE B 140	-56.593	-0.979	24.311	1.00	35.71		H0
ANISOU 5336 HG23 ILE B 140	4070	5340	4160	-110	-10	-190	H0
ATOM 5337 HD11 ILE B 140	-57.075	-3.943	26.686	1.00	36.86		H0
ANISOU 5337 HD11 ILE B 140	4140	5500	4370	-280	130	-230	H0
ATOM 5338 HD12 ILE B 140	-55.745	-3.668	27.508	1.00	36.15		H0
ANISOU 5338 HD12 ILE B 140	4170	5310	4260	-260	140	-220	H0
ATOM 5339 HD13 ILE B 140	-55.754	-3.487	25.931	1.00	36.13		H0
ANISOU 5339 HD13 ILE B 140	4130	5340	4260	-280	80	-230	H0
ATOM 5340 N GLY B 141	-58.798	1.574	24.521	1.00	34.52		N0
ANISOU 5340 N GLY B 141	3890	5260	3970	200	-20	-140	N0
ATOM 5341 CA GLY B 141	-59.596	2.128	23.414	1.00	35.89		C0
ANISOU 5341 CA GLY B 141	4010	5510	4120	300	-70	-110	C0
ATOM 5342 C GLY B 141	-58.714	2.749	22.350	1.00	35.03		C0
ANISOU 5342 C GLY B 141	4020	5320	3970	290	-120	-80	C0
ATOM 5343 O GLY B 141	-57.487	2.797	22.548	1.00	33.55		O0

ANISOU 5343 O GLY B 141	3950	5020	3780	210	-100	-80	O0
ATOM 5344 H GLY B 141	-58.007	2.003	24.665	1.00	34.44		H0
ANISOU 5344 H GLY B 141	3980	5150	3950	190	-20	-130	H0
ATOM 5345 HA2 GLY B 141	-60.136	1.403	23.010	1.00	35.89		H0
ANISOU 5345 HA2 GLY B 141	3890	5610	4130	250	-100	-120	H0
ATOM 5346 HA3 GLY B 141	-60.215	2.812	23.772	1.00	36.41		H0
ANISOU 5346 HA3 GLY B 141	4070	5590	4170	410	-60	-90	H0
ATOM 5347 N SER B 142	-59.332	3.215	21.264	1.00	35.60		N0
ANISOU 5347 N SER B 142	4070	5460	4000	380	-180	-50	N0
ATOM 5348 CA SER B 142	-58.661	3.939	20.156	1.00	35.47		C0
ANISOU 5348 CA SER B 142	4190	5370	3920	400	-220	0	C0
ATOM 5349 C SER B 142	-58.089	5.251	20.687	1.00	35.54		C0
ANISOU 5349 C SER B 142	4370	5210	3920	470	-180	30	C0
ATOM 5350 O SER B 142	-58.748	5.897	21.515	1.00	36.53		O0
ANISOU 5350 O SER B 142	4520	5320	4050	590	-150	30	O0
ATOM 5351 CB SER B 142	-59.598	4.188	19.012	1.00	36.15		C0
ANISOU 5351 CB SER B 142	4210	5570	3950	510	-290	30	C0
ATOM 5352 OG SER B 142	-58.970	4.992	18.030	1.00	36.33		O0
ANISOU 5352 OG SER B 142	4390	5510	3910	550	-310	90	O0
ATOM 5353 H SER B 142	-60.227	3.120	21.123	1.00	36.34		H0
ANISOU 5353 H SER B 142	4060	5650	4090	440	-200	-50	H0
ATOM 5354 HA SER B 142	-57.908	3.376	19.832	1.00	34.69		H0
ANISOU 5354 HA SER B 142	4100	5250	3830	300	-220	-10	H0
ATOM 5355 HB2 SER B 142	-59.867	3.330	18.614	1.00	36.19		H0
ANISOU 5355 HB2 SER B 142	4120	5670	3960	450	-330	0	H0
ATOM 5356 HB3 SER B 142	-60.406	4.642	19.342	1.00	37.05		H0
ANISOU 5356 HB3 SER B 142	4280	5730	4070	630	-290	40	H0
ATOM 5357 N TRP B 143	-56.910	5.645	20.210	1.00	35.43		N0
ANISOU 5357 N TRP B 143	4490	5080	3880	390	-170	60	N0
ATOM 5358 CA TRP B 143	-56.304	6.946	20.576	1.00	35.26		C0
ANISOU 5358 CA TRP B 143	4670	4890	3850	420	-140	100	C0
ATOM 5359 C TRP B 143	-56.958	8.067	19.763	1.00	35.96		C0
ANISOU 5359 C TRP B 143	4860	4940	3870	580	-170	160	C0
ATOM 5360 O TRP B 143	-57.106	9.165	20.323	1.00	36.73		O0
ANISOU 5360 O TRP B 143	5100	4910	3950	680	-140	180	O0
ATOM 5361 CB TRP B 143	-54.776	6.921	20.428	1.00	35.65		C0
ANISOU 5361 CB TRP B 143	4800	4840	3910	250	-120	110	C0
ATOM 5362 CG TRP B 143	-54.128	8.081	21.116	1.00	36.22		C0
ANISOU 5362 CG TRP B 143	5040	4730	3980	230	-100	120	C0
ATOM 5363 CD1 TRP B 143	-53.444	9.109	20.541	1.00	37.45		C0
ANISOU 5363 CD1 TRP B 143	5370	4750	4110	190	-90	180	C0
ATOM 5364 CD2 TRP B 143	-54.190	8.374	22.520	1.00	37.41		C0
ANISOU 5364 CD2 TRP B 143	5250	4810	4160	230	-80	70	C0
ATOM 5365 NE1 TRP B 143	-53.043	10.005	21.493	1.00	38.39		N0
ANISOU 5365 NE1 TRP B 143	5640	4710	4240	160	-80	170	N0
ATOM 5366 CE2 TRP B 143	-53.491	9.585	22.719	1.00	38.44		C0
ANISOU 5366 CE2 TRP B 143	5580	4750	4270	190	-80	90	C0
ATOM 5367 CE3 TRP B 143	-54.754	7.727	23.627	1.00	37.25		C0
ANISOU 5367 CE3 TRP B 143	5130	4860	4160	270	-70	10	C0
ATOM 5368 CZ2 TRP B 143	-53.344	10.157	23.982	1.00	38.88		C0
ANISOU 5368 CZ2 TRP B 143	5760	4690	4330	180	-70	40	C0
ATOM 5369 CZ3 TRP B 143	-54.593	8.285	24.877	1.00	38.16		C0
ANISOU 5369 CZ3 TRP B 143	5360	4860	4270	270	-50	-30	C0
ATOM 5370 CH2 TRP B 143	-53.903	9.488	25.047	1.00	39.22		C0

ANISOU 5370	CH2 TRP B 143	5710	4810	4380	230	-60	-20	C0
ATOM 5371	H TRP B 143	-56.405	5.146	19.639	1.00	34.79		H0
ANISOU 5371	H TRP B 143	4400	5020	3800	310	-180	60	H0
ATOM 5372	HA TRP B 143	-56.503	7.103	21.528	1.00	35.45		H0
ANISOU 5372	HA TRP B 143	4700	4880	3890	440	-120	70	H0
ATOM 5373	HB2 TRP B 143	-54.436	6.085	20.806	1.00	34.57		H0
ANISOU 5373	HB2 TRP B 143	4580	4750	3810	170	-110	70	H0
ATOM 5374	HB3 TRP B 143	-54.552	6.940	19.475	1.00	35.61		H0
ANISOU 5374	HB3 TRP B 143	4810	4850	3870	240	-130	150	H0
ATOM 5375	HD1 TRP B 143	-53.256	9.189	19.618	1.00	37.84		H0
ANISOU 5375	HD1 TRP B 143	5430	4810	4130	180	-90	230	H0
ATOM 5376	HE1 TRP B 143	-52.583	10.730	21.342	1.00	39.23		H0
ANISOU 5376	HE1 TRP B 143	5870	4710	4330	120	-70	200	H0
ATOM 5377	HE3 TRP B 143	-55.227	6.917	23.518	1.00	36.75		H0
ANISOU 5377	HE3 TRP B 143	4940	4910	4110	280	-70	-10	H0
ATOM 5378	HZ2 TRP B 143	-52.865	10.957	24.102	1.00	39.79		H0
ANISOU 5378	HZ2 TRP B 143	6020	4670	4430	140	-70	50	H0
ATOM 5379	HZ3 TRP B 143	-54.976	7.861	25.629	1.00	37.69		H0
ANISOU 5379	HZ3 TRP B 143	5250	4850	4220	300	-40	-70	H0
ATOM 5380	HH2 TRP B 143	-53.814	9.848	25.912	1.00	39.21		H0
ANISOU 5380	HH2 TRP B 143	5790	4730	4370	240	-60	-60	H0
ATOM 5381	N THR B 144	-57.346	7.815	18.506	1.00	36.12		N0
ANISOU 5381	N THR B 144	4820	5070	3840	630	-220	200	N0
ATOM 5382	CA THR B 144	-57.689	8.890	17.531	1.00	37.40		C0
ANISOU 5382	CA THR B 144	5120	5180	3910	770	-240	280	C0
ATOM 5383	C THR B 144	-59.002	8.639	16.779	1.00	37.78		C0
ANISOU 5383	C THR B 144	5030	5410	3910	930	-320	300	C0
ATOM 5384	O THR B 144	-59.380	9.540	16.006	1.00	39.36		O0
ANISOU 5384	O THR B 144	5340	5590	4030	1080	-350	370	O0
ATOM 5385	CB THR B 144	-56.556	9.115	16.520	1.00	37.84		C0
ANISOU 5385	CB THR B 144	5300	5150	3920	670	-230	340	C0
ATOM 5386	OG1 THR B 144	-56.428	7.971	15.672	1.00	37.48		O0
ANISOU 5386	OG1 THR B 144	5130	5250	3860	590	-260	320	O0
ATOM 5387	CG2 THR B 144	-55.235	9.405	17.196	1.00	37.69		C0
ANISOU 5387	CG2 THR B 144	5390	4970	3960	500	-160	340	C0
ATOM 5388	H THR B 144	-57.391	6.980	18.147	1.00	35.65		H0
ANISOU 5388	H THR B 144	4660	5100	3780	570	-240	180	H0
ATOM 5389	HA THR B 144	-57.797	9.720	18.042	1.00	38.03		H0
ANISOU 5389	HA THR B 144	5300	5150	3990	850	-220	300	H0
ATOM 5390	HB THR B 144	-56.796	9.893	15.962	1.00	39.01		H0
ANISOU 5390	HB THR B 144	5560	5250	4010	770	-240	400	H0
ATOM 5391	HG21 THR B 144	-55.368	10.064	17.902	1.00	37.95		H0
ANISOU 5391	HG21 THR B 144	5500	4910	4010	540	-150	330	H0
ATOM 5392	HG22 THR B 144	-54.604	9.755	16.542	1.00	37.93		H0
ANISOU 5392	HG22 THR B 144	5510	4940	3960	450	-140	390	H0
ATOM 5393	HG23 THR B 144	-54.880	8.585	17.582	1.00	36.51		H0
ANISOU 5393	HG23 THR B 144	5130	4880	3860	400	-150	290	H0
ATOM 5394	N HIS B 145	-59.675	7.502	16.977	1.00	36.90		N0
ANISOU 5394	N HIS B 145	4700	5480	3840	890	-360	230	N0
ATOM 5395	CA HIS B 145	-60.952	7.175	16.283	1.00	38.44		C0
ANISOU 5395	CA HIS B 145	4730	5880	4000	1010	-450	240	C0
ATOM 5396	C HIS B 145	-62.119	7.184	17.280	1.00	39.46		C0
ANISOU 5396	C HIS B 145	4700	6120	4180	1120	-430	210	C0
ATOM 5397	O HIS B 145	-62.134	6.334	18.191	1.00	38.99		O0

ANISOU 5397 O HIS B 145	4520	6100	4200	1000	-390	150	O0
ATOM 5398 CB HIS B 145	-60.828	5.849	15.523	1.00	37.77		C0
ANISOU 5398 CB HIS B 145	4520	5930	3900	850	-510	190	C0
ATOM 5399 CG HIS B 145	-59.828	5.902	14.418	1.00	37.50		C0
ANISOU 5399 CG HIS B 145	4630	5820	3790	790	-510	220	C0
ATOM 5400 ND1 HIS B 145	-60.066	6.579	13.243	1.00	38.58		N0
ANISOU 5400 ND1 HIS B 145	4860	5980	3820	910	-570	290	N0
ATOM 5401 CD2 HIS B 145	-58.585	5.385	14.312	1.00	36.26		C0
ANISOU 5401 CD2 HIS B 145	4550	5580	3650	620	-450	200	C0
ATOM 5402 CE1 HIS B 145	-59.013	6.465	12.457	1.00	38.62		C0
ANISOU 5402 CE1 HIS B 145	5000	5910	3770	820	-540	320	C0
ATOM 5403 NE2 HIS B 145	-58.091	5.740	13.090	1.00	36.73		N0
ANISOU 5403 NE2 HIS B 145	4740	5610	3610	640	-470	260	N0
ATOM 5404 H HIS B 145	-59.412	6.849	17.552	1.00	36.14		H0
ANISOU 5404 H HIS B 145	4540	5400	3800	780	-330	180	H0
ATOM 5405 HA HIS B 145	-61.121	7.884	15.620	1.00	39.46		H0
ANISOU 5405 HA HIS B 145	4940	5990	4060	1120	-480	290	H0
ATOM 5406 HB2 HIS B 145	-60.573	5.141	16.153	1.00	36.80		H0
ANISOU 5406 HB2 HIS B 145	4330	5800	3840	730	-470	130	H0
ATOM 5407 HB3 HIS B 145	-61.706	5.614	15.147	1.00	38.67		H0
ANISOU 5407 HB3 HIS B 145	4510	6190	4000	910	-570	180	H0
ATOM 5408 HD2 HIS B 145	-58.140	4.870	14.957	1.00	35.24		H0
ANISOU 5408 HD2 HIS B 145	4390	5420	3580	520	-410	160	H0
ATOM 5409 HE1 HIS B 145	-58.927	6.835	11.596	1.00	39.28		H0
ANISOU 5409 HE1 HIS B 145	5170	5990	3760	870	-560	370	H0
ATOM 5410 N HIS B 146	-63.055	8.123	17.110	1.00	41.54		N0
ANISOU 5410 N HIS B 146	4960	6430	4390	1350	-460	270	N0
ATOM 5411 CA HIS B 146	-64.332	8.204	17.869	1.00	42.92		C0
ANISOU 5411 CA HIS B 146	4960	6750	4600	1510	-450	260	C0
ATOM 5412 C HIS B 146	-65.242	7.031	17.471	1.00	43.51		C0
ANISOU 5412 C HIS B 146	4740	7090	4700	1430	-530	220	C0
ATOM 5413 O HIS B 146	-64.848	6.242	16.583	1.00	42.07		O0
ANISOU 5413 O HIS B 146	4530	6950	4500	1280	-610	190	O0
ATOM 5414 CB HIS B 146	-64.993	9.581	17.699	1.00	45.23		C0
ANISOU 5414 CB HIS B 146	5360	7010	4820	1810	-450	340	C0
ATOM 5415 CG HIS B 146	-65.247	10.001	16.291	1.00	46.97		C0
ANISOU 5415 CG HIS B 146	5620	7290	4940	1930	-560	410	C0
ATOM 5416 ND1 HIS B 146	-66.216	9.413	15.498	1.00	48.44		N0
ANISOU 5416 ND1 HIS B 146	5570	7740	5100	1970	-680	410	N0
ATOM 5417 CD2 HIS B 146	-64.686	10.975	15.543	1.00	47.94		C0
ANISOU 5417 CD2 HIS B 146	6000	7240	4970	2010	-570	490	C0
ATOM 5418 CE1 HIS B 146	-66.224	9.996	14.315	1.00	49.82		C0
ANISOU 5418 CE1 HIS B 146	5860	7910	5160	2090	-760	490	C0
ATOM 5419 NE2 HIS B 146	-65.299	10.959	14.318	1.00	49.73		N0
ANISOU 5419 NE2 HIS B 146	6160	7630	5110	2120	-690	540	N0
ATOM 5420 H HIS B 146	-62.968	8.797	16.506	1.00	42.25		H0
ANISOU 5420 H HIS B 146	5170	6460	4420	1450	-480	320	H0
ATOM 5421 HA HIS B 146	-64.111	8.095	18.824	1.00	42.25		H0
ANISOU 5421 HA HIS B 146	4880	6600	4570	1460	-380	230	H0
ATOM 5422 HB2 HIS B 146	-65.849	9.580	18.181	1.00	46.15		H0
ANISOU 5422 HB2 HIS B 146	5330	7240	4960	1920	-440	340	H0
ATOM 5423 HB3 HIS B 146	-64.420	10.255	18.126	1.00	45.00		H0
ANISOU 5423 HB3 HIS B 146	5520	6790	4790	1830	-390	350	H0
ATOM 5424 HD2 HIS B 146	-64.001	11.559	15.808	1.00	47.62		H0

ANISOU 5424	HD2 HIS B 146	6160	7000	4930	2000	-510	500	H0
ATOM 5425	HE1 HIS B 146	-66.785	9.773	13.594	1.00	50.85		H0
ANISOU 5425	HE1 HIS B 146	5880	8200	5240	2140	-860	500	H0
ATOM 5426	N SER B 147	-66.403	6.920	18.127	1.00	44.69		N0
ANISOU 5426	N SER B 147	4670	7410	4900	1540	-520	210	N0
ATOM 5427	CA SER B 147	-67.306	5.737	18.107	1.00	45.74		C0
ANISOU 5427	CA SER B 147	4500	7800	5090	1420	-570	170	C0
ATOM 5428	C SER B 147	-67.918	5.513	16.717	1.00	47.34		C0
ANISOU 5428	C SER B 147	4580	8190	5220	1440	-730	180	C0
ATOM 5429	O SER B 147	-68.302	4.361	16.444	1.00	47.61		O0
ANISOU 5429	O SER B 147	4420	8380	5290	1260	-800	130	O0
ATOM 5430	CB SER B 147	-68.383	5.862	19.161	1.00	46.73		C0
ANISOU 5430	CB SER B 147	4430	8060	5270	1540	-500	180	C0
ATOM 5431	OG SER B 147	-69.237	6.962	18.886	1.00	48.60		O0
ANISOU 5431	OG SER B 147	4630	8380	5450	1850	-520	250	O0
ATOM 5432	H SER B 147	-66.730	7.585	18.656	1.00	45.51		H0
ANISOU 5432	H SER B 147	4800	7490	5000	1680	-470	240	H0
ATOM 5433	HA SER B 147	-66.756	4.939	18.326	1.00	44.31		H0
ANISOU 5433	HA SER B 147	4320	7560	4950	1230	-550	120	H0
ATOM 5434	HB2 SER B 147	-68.912	5.033	19.187	1.00	47.09		H0
ANISOU 5434	HB2 SER B 147	4270	8260	5360	1430	-520	150	H0
ATOM 5435	HB3 SER B 147	-67.964	5.985	20.042	1.00	45.86		H0
ANISOU 5435	HB3 SER B 147	4410	7820	5190	1530	-400	160	H0
ATOM 5436	N ARG B 148	-68.010	6.550	15.877	1.00	49.30		N0
ANISOU 5436	N ARG B 148	4950	8420	5370	1660	-800	260	N0
ATOM 5437	CA ARG B 148	-68.501	6.429	14.473	1.00	52.19		C0
ANISOU 5437	CA ARG B 148	5240	8950	5640	1700	-970	280	C0
ATOM 5438	C ARG B 148	-67.418	5.832	13.561	1.00	49.74		C0
ANISOU 5438	C ARG B 148	5100	8530	5270	1500	-1010	240	C0
ATOM 5439	O ARG B 148	-67.761	5.514	12.411	1.00	50.75		O0
ANISOU 5439	O ARG B 148	5170	8800	5310	1490	-1160	240	O0
ATOM 5440	CB ARG B 148	-68.951	7.778	13.897	1.00	55.59		C0
ANISOU 5440	CB ARG B 148	5770	9390	5960	2020	-1020	380	C0
ATOM 5441	CG ARG B 148	-70.248	8.323	14.477	1.00	59.53		C0
ANISOU 5441	CG ARG B 148	6060	10070	6490	2280	-1010	430	C0
ATOM 5442	CD ARG B 148	-71.417	7.369	14.330	1.00	62.77		C0
ANISOU 5442	CD ARG B 148	6080	10830	6940	2200	-1120	390	C0
ATOM 5443	NE ARG B 148	-71.648	6.950	12.949	1.00	65.53		N0
ANISOU 5443	NE ARG B 148	6370	11330	7200	2150	-1310	380	N0
ATOM 5444	CZ ARG B 148	-72.273	5.830	12.584	1.00	67.27		C0
ANISOU 5444	CZ ARG B 148	6310	11800	7450	1960	-1430	310	C0
ATOM 5445	NH1 ARG B 148	-72.731	4.986	13.496	1.00	67.46		N0
ANISOU 5445	NH1 ARG B 148	6100	11930	7610	1790	-1370	250	N0
ATOM 5446	NH2 ARG B 148	-72.436	5.551	11.301	1.00	68.75		N0
ANISOU 5446	NH2 ARG B 148	6490	12110	7530	1930	-1610	300	N0
ATOM 5447	H ARG B 148	-67.793	7.400	16.119	1.00	49.54		H0
ANISOU 5447	H ARG B 148	5120	8320	5380	1790	-750	300	H0
ATOM 5448	HA ARG B 148	-69.269	5.816	14.473	1.00	52.87		H0
ANISOU 5448	HA ARG B 148	5100	9230	5760	1650	-1030	250	H0
ATOM 5449	HB2 ARG B 148	-68.243	8.430	14.054	1.00	54.88		H0
ANISOU 5449	HB2 ARG B 148	5910	9090	5850	2070	-940	410	H0
ATOM 5450	HB3 ARG B 148	-69.058	7.683	12.927	1.00	56.41		H0
ANISOU 5450	HB3 ARG B 148	5870	9570	5990	2030	-1120	400	H0
ATOM 5451	HG2 ARG B 148	-70.116	8.517	15.430	1.00	58.85		H0

ANISOU 5451	HG2 ARG B 148	6010	9890	6460	2290	-890	420	H0
ATOM 5452	HG3 ARG B 148	-70.470	9.167	14.028	1.00	60.80		H0
ANISOU 5452	HG3 ARG B 148	6310	10220	6570	2490	-1040	500	H0
ATOM 5453	HD2 ARG B 148	-71.254	6.579	14.886	1.00	61.59		H0
ANISOU 5453	HD2 ARG B 148	5850	10670	6880	2000	-1060	320	H0
ATOM 5454	HD3 ARG B 148	-72.226	7.807	14.667	1.00	64.30		H0
ANISOU 5454	HD3 ARG B 148	6140	11140	7150	2390	-1100	420	H0
ATOM 5455	HE ARG B 148	-71.366	7.478	12.315	1.00	65.69		H0
ANISOU 5455	HE ARG B 148	6540	11280	7130	2250	-1350	420	H0
ATOM 5456	HH11 ARG B 148	-72.630	5.159	14.347	1.00	66.57		H0
ANISOU 5456	HH11 ARG B 148	6000	11740	7560	1810	-1250	260	H0
ATOM 5457	HH12 ARG B 148	-73.138	4.251	13.244	1.00	67.94		H0
ANISOU 5457	HH12 ARG B 148	5990	12140	7690	1650	-1450	210	H0
ATOM 5458	HH21 ARG B 148	-72.132	6.107	10.688	1.00	68.80		H0
ANISOU 5458	HH21 ARG B 148	6660	12040	7440	2050	-1650	350	H0
ATOM 5459	HH22 ARG B 148	-72.844	4.809	11.061	1.00	69.23		H0
ANISOU 5459	HH22 ARG B 148	6380	12320	7610	1790	-1700	250	H0
ATOM 5460	N GLU B 149	-66.175	5.688	14.036	1.00	47.08		N0
ANISOU 5460	N GLU B 149	4950	7960	4980	1350	-900	220	N0
ATOM 5461	CA GLU B 149	-65.033	5.160	13.236	1.00	45.83		C0
ANISOU 5461	CA GLU B 149	4960	7690	4760	1180	-910	190	C0
ATOM 5462	C GLU B 149	-64.558	3.814	13.804	1.00	44.28		C0
ANISOU 5462	C GLU B 149	4690	7480	4660	910	-860	90	C0
ATOM 5463	O GLU B 149	-64.327	2.889	13.000	1.00	44.07		O0
ANISOU 5463	O GLU B 149	4650	7500	4590	770	-930	40	O0
ATOM 5464	CB GLU B 149	-63.921	6.207	13.161	1.00	44.93		C0
ANISOU 5464	CB GLU B 149	5130	7330	4610	1240	-820	260	C0
ATOM 5465	CG GLU B 149	-64.250	7.350	12.209	1.00	46.71		C0
ANISOU 5465	CG GLU B 149	5490	7560	4710	1470	-890	360	C0
ATOM 5466	CD GLU B 149	-63.230	8.476	12.149	1.00	46.45		C0
ANISOU 5466	CD GLU B 149	5750	7270	4630	1530	-790	440	C0
ATOM 5467	OE1 GLU B 149	-62.164	8.346	12.777	1.00	44.61		O0
ANISOU 5467	OE1 GLU B 149	5620	6870	4470	1370	-690	410	O0
ATOM 5468	OE2 GLU B 149	-63.506	9.489	11.478	1.00	48.27		O0
ANISOU 5468	OE2 GLU B 149	6110	7470	4760	1730	-830	530	O0
ATOM 5469	H GLU B 149	-65.943	5.928	14.880	1.00	46.50		H0
ANISOU 5469	H GLU B 149	4920	7790	4960	1360	-810	220	H0
ATOM 5470	HA GLU B 149	-65.358	5.000	12.320	1.00	46.79		H0
ANISOU 5470	HA GLU B 149	5050	7920	4810	1200	-1010	190	H0
ATOM 5471	HB2 GLU B 149	-63.769	6.571	14.059	1.00	44.43		H0
ANISOU 5471	HB2 GLU B 149	5100	7170	4610	1260	-740	260	H0
ATOM 5472	HB3 GLU B 149	-63.095	5.771	12.866	1.00	43.96		H0
ANISOU 5472	HB3 GLU B 149	5090	7130	4470	1110	-800	240	H0
ATOM 5473	HG2 GLU B 149	-64.355	6.984	11.305	1.00	47.29		H0
ANISOU 5473	HG2 GLU B 149	5540	7720	4710	1450	-970	360	H0
ATOM 5474	HG3 GLU B 149	-65.115	7.735	12.469	1.00	47.88		H0
ANISOU 5474	HG3 GLU B 149	5540	7800	4860	1620	-910	380	H0
ATOM 5475	N ILE B 150	-64.398	3.696	15.123	1.00	44.15		N0
ANISOU 5475	N ILE B 150	4640	7380	4750	860	-750	70	N0
ATOM 5476	CA ILE B 150	-64.059	2.406	15.801	1.00	43.50		C0
ANISOU 5476	CA ILE B 150	4480	7290	4760	640	-700	-10	C0
ATOM 5477	C ILE B 150	-65.030	2.178	16.965	1.00	45.24		C0
ANISOU 5477	C ILE B 150	4500	7610	5070	650	-650	-30	C0
ATOM 5478	O ILE B 150	-65.095	3.042	17.873	1.00	45.48		O0

ANISOU 5478 O ILE B 150	4580	7570	5130	780	-560	10	O0
ATOM 5479 CB ILE B 150	-62.592	2.378	16.276	1.00	41.44		C0
ANISOU 5479 CB ILE B 150	4420	6800	4520	540	-590	-20	C0
ATOM 5480 CG1 ILE B 150	-61.607	2.434	15.102	1.00	40.76		C0
ANISOU 5480 CG1 ILE B 150	4500	6640	4350	500	-620	0	C0
ATOM 5481 CG2 ILE B 150	-62.334	1.166	17.167	1.00	40.39		C0
ANISOU 5481 CG2 ILE B 150	4220	6650	4480	350	-530	-90	C0
ATOM 5482 CD1 ILE B 150	-60.149	2.376	15.515	1.00	38.68		C0
ANISOU 5482 CD1 ILE B 150	4400	6190	4110	400	-520	0	C0
ATOM 5483 H ILE B 150	-64.476	4.400	15.696	1.00	44.18		H0
ANISOU 5483 H ILE B 150	4680	7330	4770	970	-690	100	H0
ATOM 5484 HA ILE B 150	-64.179	1.685	15.159	1.00	43.86		H0
ANISOU 5484 HA ILE B 150	4480	7410	4780	540	-770	-50	H0
ATOM 5485 HB ILE B 150	-62.443	3.187	16.824	1.00	41.30		H0
ANISOU 5485 HB ILE B 150	4470	6700	4520	630	-540	20	H0
ATOM 5486 HG12 ILE B 150	-61.794	1.683	14.499	1.00	41.03		H0
ANISOU 5486 HG12 ILE B 150	4480	6750	4360	430	-680	-40	H0
ATOM 5487 HG13 ILE B 150	-61.760	3.265	14.604	1.00	41.51		H0
ANISOU 5487 HG13 ILE B 150	4660	6730	4380	630	-650	50	H0
ATOM 5488 HG21 ILE B 150	-62.842	1.251	17.992	1.00	40.56		H0
ANISOU 5488 HG21 ILE B 150	4160	6700	4550	380	-490	-90	H0
ATOM 5489 HG22 ILE B 150	-61.387	1.110	17.380	1.00	39.28		H0
ANISOU 5489 HG22 ILE B 150	4190	6390	4350	300	-470	-90	H0
ATOM 5490 HG23 ILE B 150	-62.608	0.356	16.703	1.00	40.70		H0
ANISOU 5490 HG23 ILE B 150	4180	6770	4510	260	-580	-130	H0
ATOM 5491 HD11 ILE B 150	-60.027	2.858	16.350	1.00	38.44		H0
ANISOU 5491 HD11 ILE B 150	4390	6090	4130	430	-460	10	H0
ATOM 5492 HD12 ILE B 150	-59.599	2.783	14.824	1.00	38.90		H0
ANISOU 5492 HD12 ILE B 150	4540	6160	4080	430	-520	30	H0
ATOM 5493 HD13 ILE B 150	-59.881	1.449	15.635	1.00	38.19		H0
ANISOU 5493 HD13 ILE B 150	4300	6130	4080	280	-510	-50	H0
ATOM 5494 N SER B 151	-65.741	1.048	16.942	1.00	46.53		N0
ANISOU 5494 N SER B 151	4470	7930	5280	500	-700	-80	N0
ATOM 5495 CA SER B 151	-66.486	0.509	18.104	1.00	48.22		C0
ANISOU 5495 CA SER B 151	4490	8230	5590	440	-620	-100	C0
ATOM 5496 C SER B 151	-65.679	-0.642	18.703	1.00	47.45		C0
ANISOU 5496 C SER B 151	4470	8010	5550	220	-550	-160	C0
ATOM 5497 O SER B 151	-65.196	-1.487	17.926	1.00	47.54		O0
ANISOU 5497 O SER B 151	4540	7980	5540	70	-610	-210	O0
ATOM 5498 CB SER B 151	-67.867	0.065	17.725	1.00	51.29		C0
ANISOU 5498 CB SER B 151	4610	8880	6000	420	-720	-110	C0
ATOM 5499 OG SER B 151	-67.810	-1.128	16.960	1.00	53.24		O0
ANISOU 5499 OG SER B 151	4820	9170	6240	200	-810	-180	O0
ATOM 5500 H SER B 151	-65.822	0.522	16.204	1.00	47.06		H0
ANISOU 5500 H SER B 151	4510	8060	5320	420	-770	-110	H0
ATOM 5501 HA SER B 151	-66.560	1.228	18.784	1.00	48.25		H0
ANISOU 5501 HA SER B 151	4520	8200	5610	570	-550	-70	H0
ATOM 5502 HB2 SER B 151	-68.398	-0.090	18.539	1.00	51.91		H0
ANISOU 5502 HB2 SER B 151	4560	9030	6140	410	-650	-110	H0
ATOM 5503 HB3 SER B 151	-68.307	0.772	17.200	1.00	52.56		H0
ANISOU 5503 HB3 SER B 151	4730	9130	6110	570	-780	-70	H0
ATOM 5504 N VAL B 152	-65.524	-0.653	20.028	1.00	47.27		N0
ANISOU 5504 N VAL B 152	4460	7910	5600	210	-420	-150	N0
ATOM 5505 CA VAL B 152	-64.864	-1.757	20.784	1.00	47.40		C0

ANISOU 5505 CA VAL B 152	4530	7810	5670	20	-330	-200	C0
ATOM 5506 C VAL B 152	-65.938	-2.505	21.578	1.00	50.84		C0
ANISOU 5506 C VAL B 152	4760	8380	6180	-70	-280	-210	C0
ATOM 5507 O VAL B 152	-66.767	-1.842	22.216	1.00	52.32		O0
ANISOU 5507 O VAL B 152	4820	8680	6380	60	-230	-160	O0
ATOM 5508 CB VAL B 152	-63.730	-1.246	21.693	1.00	44.88		C0
ANISOU 5508 CB VAL B 152	4410	7300	5350	70	-230	-180	C0
ATOM 5509 CG1 VAL B 152	-62.506	-0.851	20.889	1.00	43.58		C0
ANISOU 5509 CG1 VAL B 152	4440	7000	5120	80	-270	-180	C0
ATOM 5510 CG2 VAL B 152	-64.164	-0.099	22.591	1.00	45.40		C0
ANISOU 5510 CG2 VAL B 152	4470	7370	5410	260	-160	-140	C0
ATOM 5511 H VAL B 152	-65.838	0.015	20.561	1.00	47.80		H0
ANISOU 5511 H VAL B 152	4500	7990	5670	330	-370	-120	H0
ATOM 5512 HA VAL B 152	-64.478	-2.372	20.141	1.00	47.08		H0
ANISOU 5512 HA VAL B 152	4540	7740	5610	-80	-380	-230	H0
ATOM 5513 HB VAL B 152	-63.467	-1.998	22.279	1.00	44.48		H0
ANISOU 5513 HB VAL B 152	4370	7200	5330	-40	-180	-200	H0
ATOM 5514 HG11 VAL B 152	-62.183	-1.620	20.389	1.00	43.35		H0
ANISOU 5514 HG11 VAL B 152	4430	6960	5090	-30	-300	-210	H0
ATOM 5515 HG12 VAL B 152	-61.808	-0.540	21.491	1.00	42.78		H0
ANISOU 5515 HG12 VAL B 152	4440	6780	5030	100	-210	-170	H0
ATOM 5516 HG13 VAL B 152	-62.740	-0.138	20.270	1.00	44.22		H0
ANISOU 5516 HG13 VAL B 152	4530	7110	5160	190	-320	-150	H0
ATOM 5517 HG21 VAL B 152	-64.302	0.699	22.054	1.00	45.83		H0
ANISOU 5517 HG21 VAL B 152	4550	7440	5430	380	-210	-110	H0
ATOM 5518 HG22 VAL B 152	-63.471	0.073	23.251	1.00	44.46		H0
ANISOU 5518 HG22 VAL B 152	4470	7130	5290	260	-100	-140	H0
ATOM 5519 HG23 VAL B 152	-64.991	-0.332	23.046	1.00	46.28		H0
ANISOU 5519 HG23 VAL B 152	4440	7590	5560	260	-130	-130	H0
ATOM 5520 N ASP B 153	-65.935	-3.836	21.510	1.00	54.21		N0
ANISOU 5520 N ASP B 153	5150	8810	6640	-290	-290	-260	N0
ATOM 5521 CA ASP B 153	-66.789	-4.705	22.362	1.00	58.92		C0
ANISOU 5521 CA ASP B 153	5580	9490	7310	-430	-220	-260	C0
ATOM 5522 C ASP B 153	-65.910	-5.795	22.969	1.00	59.35		C0
ANISOU 5522 C ASP B 153	5790	9370	7390	-590	-130	-290	C0
ATOM 5523 O ASP B 153	-64.954	-6.247	22.342	1.00	56.89		O0
ANISOU 5523 O ASP B 153	5650	8930	7040	-660	-180	-330	O0
ATOM 5524 CB ASP B 153	-67.987	-5.259	21.579	1.00	62.40		C0
ANISOU 5524 CB ASP B 153	5790	10150	7770	-550	-320	-280	C0
ATOM 5525 CG ASP B 153	-67.648	-6.348	20.574	1.00	63.37		C0
ANISOU 5525 CG ASP B 153	5990	10220	7870	-750	-430	-360	C0
ATOM 5526 OD1 ASP B 153	-66.569	-6.266	19.968	1.00	64.09		O0
ANISOU 5526 OD1 ASP B 153	6290	10160	7900	-720	-470	-380	O0
ATOM 5527 OD2 ASP B 153	-68.471	-7.270	20.404	1.00	66.47		O0
ANISOU 5527 OD2 ASP B 153	6230	10720	8310	-950	-470	-400	O0
ATOM 5528 H ASP B 153	-65.407	-4.298	20.929	1.00	53.70		H0
ANISOU 5528 H ASP B 153	5180	8680	6550	-370	-340	-290	H0
ATOM 5529 HA ASP B 153	-67.143	-4.151	23.095	1.00	59.03		H0
ANISOU 5529 HA ASP B 153	5540	9550	7340	-320	-140	-220	H0
ATOM 5530 HB2 ASP B 153	-68.635	-5.624	22.216	1.00	63.23		H0
ANISOU 5530 HB2 ASP B 153	5760	10330	7930	-610	-260	-270	H0
ATOM 5531 HB3 ASP B 153	-68.416	-4.523	21.097	1.00	63.00		H0
ANISOU 5531 HB3 ASP B 153	5780	10330	7820	-420	-390	-260	H0
ATOM 5532 N PRO B 154	-66.186	-6.229	24.218	1.00	62.32		N0

ANISOU 5532 N PRO B 154	6130 9730 7820 -650 0 -270	N0
ATOM 5533 CA PRO B 154	-65.511 -7.396 24.783 1.00 63.76	C0
ANISOU 5533 CA PRO B 154	6450 9760 8020 -810 70 -290	C0
ATOM 5534 C PRO B 154	-66.002 -8.701 24.133 1.00 68.81	C0
ANISOU 5534 C PRO B 154	7030 10430 8690 -1050 10 -340	C0
ATOM 5535 O PRO B 154	-67.190 -8.822 23.884 1.00 69.69	O0
ANISOU 5535 O PRO B 154	6920 10720 8840 -1130 -30 -340	O0
ATOM 5536 CB PRO B 154	-65.859 -7.335 26.275 1.00 62.97	C0
ANISOU 5536 CB PRO B 154	6310 9670 7950 -770 220 -230	C0
ATOM 5537 CG PRO B 154	-67.160 -6.559 26.333 1.00 64.74	C0
ANISOU 5537 CG PRO B 154	6290 10110 8190 -670 230 -200	C0
ATOM 5538 CD PRO B 154	-67.136 -5.608 25.153 1.00 63.82	C0
ANISOU 5538 CD PRO B 154	6160 10060 8030 -540 90 -210	C0
ATOM 5539 HA PRO B 154	-64.534 -7.301 24.667 1.00 62.46	H0
ANISOU 5539 HA PRO B 154	6450 9470 7820 -770 60 -300	H0
ATOM 5540 HB2 PRO B 154	-65.974 -8.236 26.646 1.00 63.75	H0
ANISOU 5540 HB2 PRO B 154	6420 9730 8070 -910 270 -230	H0
ATOM 5541 HB3 PRO B 154	-65.156 -6.873 26.780 1.00 62.13	H0
ANISOU 5541 HB3 PRO B 154	6330 9460 7810 -670 260 -220	H0
ATOM 5542 HG2 PRO B 154	-67.926 -7.165 26.269 1.00 65.88	H0
ANISOU 5542 HG2 PRO B 154	6290 10360 8380 -800 230 -200	H0
ATOM 5543 HG3 PRO B 154	-67.227 -6.060 27.173 1.00 64.47	H0
ANISOU 5543 HG3 PRO B 154	6260 10080 8150 -560 320 -160	H0
ATOM 5544 HD2 PRO B 154	-68.021 -5.529 24.751 1.00 65.27	H0
ANISOU 5544 HD2 PRO B 154	6160 10400 8240 -540 40 -210	H0
ATOM 5545 HD3 PRO B 154	-66.831 -4.722 25.423 1.00 63.23	H0
ANISOU 5545 HD3 PRO B 154	6150 9940 7930 -380 110 -190	H0
ATOM 5546 N THR B 155	-65.070 -9.617 23.849 1.00 73.18	N0
ANISOU 5546 N THR B 155	7780 10800 9220 -1160 0 -380	N0
ATOM 5547 CA THR B 155	-65.329 -11.013 23.399 1.00 79.02	C0
ANISOU 5547 CA THR B 155	8550 11500 9980 -1400 -30 -440	C0
ATOM 5548 C THR B 155	-65.357 -11.928 24.628 1.00 83.42	C0
ANISOU 5548 C THR B 155	9160 11950 10580 -1520 110 -400	C0
ATOM 5549 O THR B 155	-64.288 -12.475 24.988 1.00 83.78	O0
ANISOU 5549 O THR B 155	9430 11800 10600 -1510 170 -400	O0
ATOM 5550 CB THR B 155	-64.267 -11.490 22.397 1.00 79.04	C0
ANISOU 5550 CB THR B 155	8770 11350 9910 -1410 -110 -500	C0
ATOM 5551 OG1 THR B 155	-63.963 -10.401 21.526 1.00 79.44	O0
ANISOU 5551 OG1 THR B 155	8810 11470 9910 -1250 -200 -500	O0
ATOM 5552 CG2 THR B 155	-64.712 -12.694 21.595 1.00 80.52	C0
ANISOU 5552 CG2 THR B 155	8980 11520 10100 -1640 -190 -580	C0
ATOM 5553 H THR B 155	-64.179 -9.441 23.915 1.00 71.55	H0
ANISOU 5553 H THR B 155	7720 10490 8980 -1080 10 -380	H0
ATOM 5554 HA THR B 155	-66.211 -11.039 22.963 1.00 80.36	H0
ANISOU 5554 HA THR B 155	8560 11800 10170 -1470 -100 -450	H0
ATOM 5555 HB THR B 155	-63.452 -11.728 22.898 1.00 78.03	H0
ANISOU 5555 HB THR B 155	8780 11090 9780 -1380 -40 -490	H0
ATOM 5556 HG21 THR B 155	-64.878 -13.443 22.196 1.00 81.14	H0
ANISOU 5556 HG21 THR B 155	9080 11530 10220 -1760 -120 -570	H0
ATOM 5557 HG22 THR B 155	-64.015 -12.937 20.960 1.00 80.02	H0
ANISOU 5557 HG22 THR B 155	9060 11360 9980 -1630 -230 -620	H0
ATOM 5558 HG23 THR B 155	-65.530 -12.479 21.112 1.00 81.70	H0
ANISOU 5558 HG23 THR B 155	8970 11810 10260 -1680 -270 -590	H0
ATOM 5559 N THR B 156	-66.527 -12.065 25.258 1.00 88.10	N0

ANISOU 5559	N	THR B 156	9550	12680	11240	-1610	180	-360	N0
ATOM 5560	CA	THR B 156	-66.740	-12.905	26.467	1.00	90.98		C0
ANISOU 5560	CA	THR B 156	9950	12970	11640	-1730	330	-320	C0
ATOM 5561	C	THR B 156	-67.403	-14.218	26.039	1.00	93.27		C0
ANISOU 5561	C	THR B 156	10210	13250	11980	-2030	310	-360	C0
ATOM 5562	O	THR B 156	-68.644	-14.238	25.906	1.00	95.99		O0
ANISOU 5562	O	THR B 156	10300	13790	12380	-2160	290	-350	O0
ATOM 5563	CB	THR B 156	-67.537	-12.148	27.538	1.00	92.55		C0
ANISOU 5563	CB	THR B 156	9960	13330	11870	-1630	450	-240	C0
ATOM 5564	OG1	THR B 156	-68.727	-11.632	26.941	1.00	94.87		O0
ANISOU 5564	OG1	THR B 156	9970	13870	12210	-1640	380	-240	O0
ATOM 5565	CG2	THR B 156	-66.748	-11.016	28.160	1.00	90.86		C0
ANISOU 5565	CG2	THR B 156	9850	13070	11600	-1360	500	-200	C0
ATOM 5566	H	THR B 156	-67.289	-11.647	24.987	1.00	88.77		H0
ANISOU 5566	H	THR B 156	9460	12920	11340	-1600	130	-360	H0
ATOM 5567	HA	THR B 156	-65.855	-13.118	26.843	1.00	89.57		H0
ANISOU 5567	HA	THR B 156	9960	12640	11430	-1680	380	-310	H0
ATOM 5568	HB	THR B 156	-67.788	-12.788	28.247	1.00	93.36		H0
ANISOU 5568	HB	THR B 156	10070	13400	12000	-1740	560	-200	H0
ATOM 5569	HG21	THR B 156	-66.011	-11.381	28.682	1.00	89.83		H0
ANISOU 5569	HG21	THR B 156	9890	12790	11450	-1360	550	-190	H0
ATOM 5570	HG22	THR B 156	-67.330	-10.495	28.742	1.00	91.29		H0
ANISOU 5570	HG22	THR B 156	9780	13230	11670	-1290	560	-160	H0
ATOM 5571	HG23	THR B 156	-66.394	-10.441	27.458	1.00	89.82		H0
ANISOU 5571	HG23	THR B 156	9740	12950	11440	-1270	400	-230	H0
ATOM 5572	N	GLU B 157	-66.594	-15.261	25.826	1.00	93.20		N0
ANISOU 5572	N	GLU B 157	10460	13010	11940	-2140	300	-400	N0
ATOM 5573	CA	GLU B 157	-67.055	-16.640	25.511	1.00	95.96		C0
ANISOU 5573	CA	GLU B 157	10870	13270	12320	-2440	290	-450	C0
ATOM 5574	C	GLU B 157	-67.263	-17.423	26.818	1.00	96.58		C0
ANISOU 5574	C	GLU B 157	11010	13240	12440	-2550	480	-370	C0
ATOM 5575	O	GLU B 157	-67.484	-18.652	26.735	1.00	99.20		O0
ANISOU 5575	O	GLU B 157	11450	13440	12800	-2800	500	-400	O0
ATOM 5576	CB	GLU B 157	-66.051	-17.337	24.587	1.00	95.76		C0
ANISOU 5576	CB	GLU B 157	11120	13030	12230	-2450	210	-530	C0
ATOM 5577	CG	GLU B 157	-65.775	-16.578	23.299	1.00	95.54		C0
ANISOU 5577	CG	GLU B 157	11060	13100	12150	-2330	40	-600	C0
ATOM 5578	CD	GLU B 157	-66.970	-16.422	22.372	1.00	97.95		C0
ANISOU 5578	CD	GLU B 157	11130	13620	12470	-2470	-100	-660	C0
ATOM 5579	OE1	GLU B 157	-67.432	-17.445	21.825	1.00	99.44		O0
ANISOU 5579	OE1	GLU B 157	11360	13750	12670	-2720	-170	-730	O0
ATOM 5580	OE2	GLU B 157	-67.438	-15.277	22.203	1.00	98.45		O0
ANISOU 5580	OE2	GLU B 157	10970	13890	12540	-2330	-160	-620	O0
ATOM 5581	H	GLU B 157	-65.687	-15.185	25.862	1.00	91.86		H0
ANISOU 5581	H	GLU B 157	10450	12720	11730	-2030	310	-410	H0
ATOM 5582	HA	GLU B 157	-67.920	-16.578	25.044	1.00	97.24		H0
ANISOU 5582	HA	GLU B 157	10840	13580	12520	-2540	220	-470	H0
ATOM 5583	HB2	GLU B 157	-65.209	-17.456	25.074	1.00	94.58		H0
ANISOU 5583	HB2	GLU B 157	11140	12740	12050	-2350	280	-510	H0
ATOM 5584	HB3	GLU B 157	-66.397	-18.226	24.363	1.00	97.31		H0
ANISOU 5584	HB3	GLU B 157	11370	13160	12450	-2650	200	-570	H0
ATOM 5585	HG2	GLU B 157	-65.439	-15.684	23.524	1.00	94.07		H0
ANISOU 5585	HG2	GLU B 157	10830	12970	11950	-2140	60	-560	H0
ATOM 5586	HG3	GLU B 157	-65.064	-17.041	22.807	1.00	95.06		H0

ANISOU 5586	HG3 GLU B 157	11190 12890 12040 -2320	10 -650	H0
ATOM 5587	N ASN B 158	-67.204 -16.739 27.970	1.00 93.02	N0
ANISOU 5587	N ASN B 158	10510 12850 11990 -2390	610 -280	N0
ATOM 5588	CA ASN B 158	-67.463 -17.305 29.323	1.00 92.65	C0
ANISOU 5588	CA ASN B 158	10500 12740 11970 -2460	800 -190	C0
ATOM 5589	C ASN B 158	-66.397 -18.368 29.621	1.00 89.95	C0
ANISOU 5589	C ASN B 158	10510 12090 11570 -2490	850 -190	C0
ATOM 5590	O ASN B 158	-66.744 -19.427 30.182	1.00 92.74	O0
ANISOU 5590	O ASN B 158	10950 12330 11950 -2690	960 -150	O0
ATOM 5591	CB ASN B 158	-68.895 -17.847 29.434	1.00 96.47	C0
ANISOU 5591	CB ASN B 158	10750 13360 12540 -2740	850 -160	C0
ATOM 5592	CG ASN B 158	-69.334 -18.156 30.853	1.00 98.14	C0
ANISOU 5592	CG ASN B 158	10950 13570 12770 -2790	1070 -50	C0
ATOM 5593	OD1 ASN B 158	-68.727 -17.695 31.818	1.00 98.43	O0
ANISOU 5593	OD1 ASN B 158	11100 13560 12750 -2570	1170 10	O0
ATOM 5594	ND2 ASN B 158	-70.393 -18.939 30.991	1.00100.67	N0
ANISOU 5594	ND2 ASN B 158	11130 13950 13170 -3080	1130 -20	N0
ATOM 5595	H ASN B 158	-66.982 -15.859 28.000	1.00 92.13	H0
ANISOU 5595	H ASN B 158	10340 12810 11860 -2210	590 -270	H0
ATOM 5596	HA ASN B 158	-67.368 -16.577 29.980	1.00 91.80	H0
ANISOU 5596	HA ASN B 158	10350 12690 11840 -2290	860 -140	H0
ATOM 5597	HB2 ASN B 158	-69.509 -17.186 29.052	1.00 96.73	H0
ANISOU 5597	HB2 ASN B 158	10560 13590 12600 -2700	790 -170	H0
ATOM 5598	HB3 ASN B 158	-68.964 -18.663 28.898	1.00 97.38	H0
ANISOU 5598	HB3 ASN B 158	10940 13390 12670 -2920	800 -210	H0
ATOM 5599	HD21 ASN B 158	-70.654 -19.192 31.797	1.00101.63	H0
ANISOU 5599	HD21 ASN B 158	11250 14070 13300 -3120	1270 50	H0
ATOM 5600	HD22 ASN B 158	-70.840 -19.210 30.278	1.00101.84	H0
ANISOU 5600	HD22 ASN B 158	11180 14150 13350 -3230	1040 -70	H0
ATOM 5601	N SER B 159	-65.143 -18.092 29.252	1.00 84.73	N0
ANISOU 5601	N SER B 159	10030 11310 10840 -2290	780 -230	N0
ATOM 5602	CA SER B 159	-63.989 -19.010 29.441	1.00 80.83	C0
ANISOU 5602	CA SER B 159	9870 10550 10290 -2260	810 -230	C0
ATOM 5603	C SER B 159	-63.523 -18.966 30.901	1.00 76.52	C0
ANISOU 5603	C SER B 159	9430 9940 9710 -2130	960 -120	C0
ATOM 5604	O SER B 159	-63.999 -18.087 31.659	1.00 74.39	O0
ANISOU 5604	O SER B 159	8990 9830 9440 -2040	1020 -70	O0
ATOM 5605	CB SER B 159	-62.863 -18.687 28.490	1.00 78.49	C0
ANISOU 5605	CB SER B 159	9690 10200 9940 -2100	690 -300	C0
ATOM 5606	OG SER B 159	-63.068 -19.324 27.238	1.00 79.94	O0
ANISOU 5606	OG SER B 159	9910 10330 10130 -2250	580 -390	O0
ATOM 5607	H SER B 159	-64.900 -17.304 28.866	1.00 83.44	H0
ANISOU 5607	H SER B 159	9810 11230 10660 -2160	710 -250	H0
ATOM 5608	HA SER B 159	-64.303 -19.934 29.248	1.00 82.10	H0
ANISOU 5608	HA SER B 159	10100 10620 10470 -2450	830 -240	H0
ATOM 5609	HB2 SER B 159	-62.809 -17.714 28.359	1.00 77.51	H0
ANISOU 5609	HB2 SER B 159	9440 10200 9810 -1970	640 -300	H0
ATOM 5610	HB3 SER B 159	-62.011 -18.992 28.875	1.00 77.86	H0
ANISOU 5610	HB3 SER B 159	9790 9980 9820 -2000	730 -270	H0
ATOM 5611	N ASP B 160	-62.658 -19.912 31.280	1.00 72.49	N0
ANISOU 5611	N ASP B 160	9200 9200 9140 -2110	1020 -100	N0
ATOM 5612	CA ASP B 160	-61.875 -19.874 32.541	1.00 68.84	C0
ANISOU 5612	CA ASP B 160	8890 8650 8610 -1930	1120 -10	C0
ATOM 5613	C ASP B 160	-60.902 -18.695 32.431	1.00 63.29	C0

ANISOU 5613	C	ASP B 160	8150	8030	7860	-1670	1030	-30	C0
ATOM 5614	O	ASP B 160	-60.135	-18.657	31.446	1.00	60.97		O0
ANISOU 5614	O	ASP B 160	7920	7690	7550	-1600	920	-100	O0
ATOM 5615	CB	ASP B 160	-61.164	-21.207	32.794	1.00	70.43		C0
ANISOU 5615	CB	ASP B 160	9410	8590	8760	-1960	1180	10	C0
ATOM 5616	CG	ASP B 160	-60.421	-21.292	34.120	1.00	71.43		C0
ANISOU 5616	CG	ASP B 160	9700	8630	8810	-1780	1280	110	C0
ATOM 5617	OD1	ASP B 160	-60.605	-20.388	34.972	1.00	70.83		O0
ANISOU 5617	OD1	ASP B 160	9500	8700	8710	-1680	1320	160	O0
ATOM 5618	OD2	ASP B 160	-59.662	-22.269	34.296	1.00	72.64		O0
ANISOU 5618	OD2	ASP B 160	10120	8570	8910	-1750	1310	140	O0
ATOM 5619	H	ASP B 160	-62.495	-20.652	30.772	1.00	73.35		H0
ANISOU 5619	H	ASP B 160	9430	9180	9250	-2200	990	-140	H0
ATOM 5620	HA	ASP B 160	-62.498	-19.705	33.287	1.00	69.57		H0
ANISOU 5620	HA	ASP B 160	8900	8820	8720	-1970	1210	50	H0
ATOM 5621	HB2	ASP B 160	-61.826	-21.928	32.769	1.00	72.21		H0
ANISOU 5621	HB2	ASP B 160	9660	8750	9020	-2150	1230	20	H0
ATOM 5622	HB3	ASP B 160	-60.519	-21.362	32.073	1.00	69.94		H0
ANISOU 5622	HB3	ASP B 160	9430	8460	8690	-1910	1100	-40	H0
ATOM 5623	N	ASP B 161	-60.963	-17.758	33.384	1.00	59.53		N0
ANISOU 5623	N	ASP B 161	7590	7670	7360	-1530	1080	20	N0
ATOM 5624	CA	ASP B 161	-60.127	-16.528	33.416	1.00	55.82		C0
ANISOU 5624	CA	ASP B 161	7080	7280	6850	-1310	1000	0	C0
ATOM 5625	C	ASP B 161	-58.652	-16.925	33.572	1.00	52.60		C0
ANISOU 5625	C	ASP B 161	6890	6730	6370	-1170	960	10	C0
ATOM 5626	O	ASP B 161	-57.804	-16.195	33.042	1.00	51.75		O0
ANISOU 5626	O	ASP B 161	6760	6660	6250	-1040	860	-30	O0
ATOM 5627	CB	ASP B 161	-60.592	-15.570	34.520	1.00	56.13		C0
ANISOU 5627	CB	ASP B 161	7020	7450	6860	-1210	1070	50	C0
ATOM 5628	CG	ASP B 161	-62.007	-15.036	34.327	1.00	57.94		C0
ANISOU 5628	CG	ASP B 161	7000	7860	7150	-1300	1100	50	C0
ATOM 5629	OD1	ASP B 161	-62.372	-14.745	33.163	1.00	56.51		O0
ANISOU 5629	OD1	ASP B 161	6680	7760	7030	-1350	1000	-10	O0
ATOM 5630	OD2	ASP B 161	-62.744	-14.924	35.344	1.00	58.85		O0
ANISOU 5630	OD2	ASP B 161	7060	8040	7260	-1300	1230	120	O0
ATOM 5631	H	ASP B 161	-61.531	-17.827	34.092	1.00	60.71		H0
ANISOU 5631	H	ASP B 161	7700	7850	7510	-1580	1170	70	H0
ATOM 5632	HA	ASP B 161	-60.232	-16.068	32.551	1.00	55.22		H0
ANISOU 5632	HA	ASP B 161	6900	7280	6800	-1310	910	-50	H0
ATOM 5633	HB2	ASP B 161	-60.554	-16.035	35.381	1.00	56.90		H0
ANISOU 5633	HB2	ASP B 161	7220	7490	6920	-1210	1160	110	H0
ATOM 5634	HB3	ASP B 161	-59.979	-14.808	34.557	1.00	55.03		H0
ANISOU 5634	HB3	ASP B 161	6880	7340	6690	-1070	1010	40	H0
ATOM 5635	N	SER B 162	-58.372	-18.043	34.252	1.00	51.73		N0
ANISOU 5635	N	SER B 162	6980	6460	6220	-1190	1050	70	N0
ATOM 5636	CA	SER B 162	-57.008	-18.569	34.541	1.00	50.20		C0
ANISOU 5636	CA	SER B 162	7000	6130	5950	-1040	1030	90	C0
ATOM 5637	C	SER B 162	-56.604	-19.661	33.538	1.00	49.06		C0
ANISOU 5637	C	SER B 162	7000	5830	5820	-1100	1000	50	C0
ATOM 5638	O	SER B 162	-55.578	-20.322	33.783	1.00	48.88		O0
ANISOU 5638	O	SER B 162	7170	5670	5730	-980	1010	80	O0
ATOM 5639	CB	SER B 162	-56.930	-19.098	35.958	1.00	51.22		C0
ANISOU 5639	CB	SER B 162	7280	6170	6000	-990	1150	190	C0
ATOM 5640	OG	SER B 162	-57.346	-18.119	36.897	1.00	50.88		O0

ANISOU 5640	OG SER B 162	7130	6270	5930	-930	1180	220	O0
ATOM 5641	H SER B 162	-59.019	-18.575	34.609	1.00	53.12		H0
ANISOU 5641	H SER B 162	7170	6600	6410	-1300	1130	100	H0
ATOM 5642	HA SER B 162	-56.365	-17.816	34.453	1.00	48.86		H0
ANISOU 5642	HA SER B 162	6780	6020	5760	-910	960	70	H0
ATOM 5643	HB2 SER B 162	-57.503	-19.894	36.040	1.00	52.51		H0
ANISOU 5643	HB2 SER B 162	7510	6250	6180	-1120	1220	220	H0
ATOM 5644	HB3 SER B 162	-56.005	-19.367	36.156	1.00	50.97		H0
ANISOU 5644	HB3 SER B 162	7380	6070	5920	-870	1120	210	H0
ATOM 5645	N GLU B 163	-57.369	-19.855	32.459	1.00	48.75		N0
ANISOU 5645	N GLU B 163	6880	5800	5850	-1270	970	-30	N0
ATOM 5646	CA GLU B 163	-57.162	-20.938	31.454	1.00	49.53		C0
ANISOU 5646	CA GLU B 163	7130	5740	5950	-1360	940	-80	C0
ATOM 5647	C GLU B 163	-55.674	-21.027	31.081	1.00	46.53		C0
ANISOU 5647	C GLU B 163	6880	5290	5510	-1140	880	-100	C0
ATOM 5648	O GLU B 163	-55.129	-22.140	31.080	1.00	46.85		O0
ANISOU 5648	O GLU B 163	7160	5140	5510	-1110	930	-90	O0
ATOM 5649	CB GLU B 163	-58.018	-20.674	30.209	1.00	51.37		C0
ANISOU 5649	CB GLU B 163	7210	6060	6250	-1520	860	-180	C0
ATOM 5650	CG GLU B 163	-58.051	-21.829	29.219	1.00	54.39		C0
ANISOU 5650	CG GLU B 163	7760	6280	6630	-1660	830	-250	C0
ATOM 5651	CD GLU B 163	-58.886	-21.595	27.967	1.00	55.72		C0
ANISOU 5651	CD GLU B 163	7780	6550	6840	-1820	730	-350	C0
ATOM 5652	OE1 GLU B 163	-59.256	-20.429	27.702	1.00	56.33		O0
ANISOU 5652	OE1 GLU B 163	7620	6840	6950	-1780	660	-360	O0
ATOM 5653	OE2 GLU B 163	-59.159	-22.580	27.254	1.00	58.04		O0
ANISOU 5653	OE2 GLU B 163	8220	6700	7130	-1980	710	-420	O0
ATOM 5654	H GLU B 163	-58.077	-19.319	32.265	1.00	48.86		H0
ANISOU 5654	H GLU B 163	6730	5930	5900	-1340	950	-40	H0
ATOM 5655	HA GLU B 163	-57.440	-21.793	31.856	1.00	50.79		H0
ANISOU 5655	HA GLU B 163	7420	5770	6100	-1450	1020	-50	H0
ATOM 5656	HB2 GLU B 163	-58.933	-20.482	30.496	1.00	51.94		H0
ANISOU 5656	HB2 GLU B 163	7160	6220	6360	-1640	890	-160	H0
ATOM 5657	HB3 GLU B 163	-57.672	-19.876	29.756	1.00	50.10		H0
ANISOU 5657	HB3 GLU B 163	6950	6010	6080	-1430	780	-210	H0
ATOM 5658	HG2 GLU B 163	-57.133	-22.033	28.940	1.00	53.74		H0
ANISOU 5658	HG2 GLU B 163	7800	6120	6500	-1530	810	-260	H0
ATOM 5659	HG3 GLU B 163	-58.401	-22.624	29.675	1.00	55.58		H0
ANISOU 5659	HG3 GLU B 163	8030	6310	6780	-1770	910	-220	H0
ATOM 5660	N TYR B 164	-55.046	-19.883	30.801	1.00	42.91		N0
ANISOU 5660	N TYR B 164	6280	4980	5050	-1000	800	-120	N0
ATOM 5661	CA TYR B 164	-53.652	-19.769	30.310	1.00	41.59		C0
ANISOU 5661	CA TYR B 164	6170	4800	4830	-800	740	-130	C0
ATOM 5662	C TYR B 164	-52.778	-19.006	31.313	1.00	39.43		C0
ANISOU 5662	C TYR B 164	5850	4610	4520	-620	730	-70	C0
ATOM 5663	O TYR B 164	-51.663	-18.602	30.939	1.00	37.81		O0
ANISOU 5663	O TYR B 164	5620	4460	4290	-470	670	-80	O0
ATOM 5664	CB TYR B 164	-53.656	-19.074	28.950	1.00	40.81		C0
ANISOU 5664	CB TYR B 164	5940	4810	4760	-820	650	-220	C0
ATOM 5665	CG TYR B 164	-54.426	-19.817	27.892	1.00	42.20		C0
ANISOU 5665	CG TYR B 164	6170	4910	4960	-990	630	-290	C0
ATOM 5666	CD1 TYR B 164	-54.055	-21.094	27.512	1.00	44.25		C0
ANISOU 5666	CD1 TYR B 164	6670	4970	5180	-1000	670	-320	C0
ATOM 5667	CD2 TYR B 164	-55.528	-19.251	27.278	1.00	42.47		C0

ANISOU 5667	CD2 TYR B 164	6040	5060	5040	-1140	580	-340	C0
ATOM 5668	CE1 TYR B 164	-54.755	-21.790	26.539	1.00	46.31		C0
ANISOU 5668	CE1 TYR B 164	7000	5150	5450	-1170	650	-400	C0
ATOM 5669	CE2 TYR B 164	-56.240	-19.930	26.303	1.00	44.58		C0
ANISOU 5669	CE2 TYR B 164	6350	5270	5320	-1320	550	-420	C0
ATOM 5670	CZ TYR B 164	-55.848	-21.201	25.926	1.00	45.95		C0
ANISOU 5670	CZ TYR B 164	6770	5240	5450	-1340	580	-460	C0
ATOM 5671	OH TYR B 164	-56.542	-21.872	24.967	1.00	47.87		O0
ANISOU 5671	OH TYR B 164	7080	5410	5690	-1530	530	-550	O0
ATOM 5672	H TYR B 164	-55.445	-19.069	30.890	1.00	42.59		H0
ANISOU 5672	H TYR B 164	6090	5060	5030	-1010	780	-120	H0
ATOM 5673	HA TYR B 164	-53.277	-20.680	30.200	1.00	42.34		H0
ANISOU 5673	HA TYR B 164	6430	4760	4900	-780	770	-130	H0
ATOM 5674	HB2 TYR B 164	-54.042	-18.180	29.058	1.00	40.11		H0
ANISOU 5674	HB2 TYR B 164	5700	4840	4700	-840	620	-220	H0
ATOM 5675	HB3 TYR B 164	-52.729	-18.967	28.650	1.00	40.36		H0
ANISOU 5675	HB3 TYR B 164	5910	4750	4670	-690	620	-220	H0
ATOM 5676	HD1 TYR B 164	-53.308	-21.498	27.920	1.00	44.41		H0
ANISOU 5676	HD1 TYR B 164	6800	4910	5160	-880	710	-280	H0
ATOM 5677	HD2 TYR B 164	-55.798	-18.384	27.525	1.00	41.89		H0
ANISOU 5677	HD2 TYR B 164	5820	5110	4990	-1130	560	-330	H0
ATOM 5678	HE1 TYR B 164	-54.481	-22.655	26.286	1.00	47.00		H0
ANISOU 5678	HE1 TYR B 164	7270	5090	5500	-1170	670	-430	H0
ATOM 5679	HE2 TYR B 164	-56.985	-19.525	25.890	1.00	44.48		H0
ANISOU 5679	HE2 TYR B 164	6210	5360	5340	-1410	500	-450	H0
ATOM 5680	N PHE B 165	-53.252	-18.820	32.548	1.00	39.11		N0
ANISOU 5680	N PHE B 165	5800	4600	4460	-630	790	0	N0
ATOM 5681	CA PHE B 165	-52.497	-18.095	33.602	1.00	37.53		C0
ANISOU 5681	CA PHE B 165	5570	4480	4210	-470	760	50	C0
ATOM 5682	C PHE B 165	-51.438	-19.029	34.195	1.00	37.63		C0
ANISOU 5682	C PHE B 165	5780	4370	4150	-330	790	110	C0
ATOM 5683	O PHE B 165	-51.761	-20.188	34.517	1.00	38.15		O0
ANISOU 5683	O PHE B 165	6020	4280	4190	-370	870	150	O0
ATOM 5684	CB PHE B 165	-53.426	-17.537	34.679	1.00	37.91		C0
ANISOU 5684	CB PHE B 165	5560	4590	4250	-530	820	90	C0
ATOM 5685	CG PHE B 165	-52.729	-16.571	35.601	1.00	36.98		C0
ANISOU 5685	CG PHE B 165	5400	4570	4070	-380	770	120	C0
ATOM 5686	CD1 PHE B 165	-52.302	-15.342	35.132	1.00	35.76		C0
ANISOU 5686	CD1 PHE B 165	5100	4540	3940	-330	670	70	C0
ATOM 5687	CD2 PHE B 165	-52.449	-16.913	36.914	1.00	38.01		C0
ANISOU 5687	CD2 PHE B 165	5660	4660	4120	-300	820	190	C0
ATOM 5688	CE1 PHE B 165	-51.634	-14.460	35.966	1.00	35.86		C0
ANISOU 5688	CE1 PHE B 165	5100	4630	3900	-220	610	80	C0
ATOM 5689	CE2 PHE B 165	-51.787	-16.027	37.750	1.00	37.58		C0
ANISOU 5689	CE2 PHE B 165	5580	4700	3990	-170	750	200	C0
ATOM 5690	CZ PHE B 165	-51.379	-14.802	37.275	1.00	36.39		C0
ANISOU 5690	CZ PHE B 165	5290	4670	3870	-140	650	150	C0
ATOM 5691	H PHE B 165	-54.055	-19.129	32.838	1.00	39.78		H0
ANISOU 5691	H PHE B 165	5900	4650	4570	-740	840	10	H0
ATOM 5692	HA PHE B 165	-52.030	-17.333	33.175	1.00	36.63		H0
ANISOU 5692	HA PHE B 165	5360	4450	4110	-420	690	20	H0
ATOM 5693	HB2 PHE B 165	-54.175	-17.081	34.242	1.00	37.57		H0
ANISOU 5693	HB2 PHE B 165	5400	4620	4260	-620	810	50	H0
ATOM 5694	HB3 PHE B 165	-53.787	-18.282	35.203	1.00	38.86		H0

ANISOU 5694 HB3 PHE B 165	5780	4630	4350	-580	900	130	H0
ATOM 5695 HD1 PHE B 165	-52.473	-15.100	34.235	1.00	35.40		H0
ANISOU 5695 HD1 PHE B 165	4980	4520	3950	-380	640	20	H0
ATOM 5696 HD2 PHE B 165	-52.727	-17.752	37.246	1.00	38.96		H0
ANISOU 5696 HD2 PHE B 165	5890	4690	4220	-330	890	230	H0
ATOM 5697 HE1 PHE B 165	-51.362	-13.619	35.638	1.00	34.92		H0
ANISOU 5697 HE1 PHE B 165	4890	4580	3800	-210	550	50	H0
ATOM 5698 HE2 PHE B 165	-51.615	-16.267	38.644	1.00	38.23		H0
ANISOU 5698 HE2 PHE B 165	5760	4760	4010	-110	780	250	H0
ATOM 5699 HZ PHE B 165	-50.929	-14.198	37.844	1.00	36.28		H0
ANISOU 5699 HZ PHE B 165	5260	4710	3810	-70	600	150	H0
ATOM 5700 N SER B 166	-50.206	-18.530	34.321	1.00	36.41		N0
ANISOU 5700 N SER B 166	5580	4300	3950	-150	710	120	N0
ATOM 5701 CA SER B 166	-49.029	-19.279	34.836	1.00	37.16		C0
ANISOU 5701 CA SER B 166	5820	4330	3970	30	710	180	C0
ATOM 5702 C SER B 166	-49.289	-19.741	36.274	1.00	37.87		C0
ANISOU 5702 C SER B 166	6050	4350	3990	70	770	270	C0
ATOM 5703 O SER B 166	-49.651	-18.898	37.097	1.00	37.21		O0
ANISOU 5703 O SER B 166	5890	4370	3880	40	760	280	O0
ATOM 5704 CB SER B 166	-47.769	-18.447	34.758	1.00	36.12		C0
ANISOU 5704 CB SER B 166	5560	4340	3830	180	600	180	C0
ATOM 5705 OG SER B 166	-46.692	-19.108	35.413	1.00	36.65		O0
ANISOU 5705 OG SER B 166	5730	4380	3810	370	590	250	O0
ATOM 5706 H SER B 166	-49.996	-17.672	34.095	1.00	35.62		H0
ANISOU 5706 H SER B 166	5360	4300	3870	-140	650	100	H0
ATOM 5707 HA SER B 166	-48.908	-20.085	34.267	1.00	37.72		H0
ANISOU 5707 HA SER B 166	5990	4290	4050	40	740	180	H0
ATOM 5708 HB2 SER B 166	-47.536	-18.293	33.815	1.00	35.60		H0
ANISOU 5708 HB2 SER B 166	5420	4300	3800	170	570	140	H0
ATOM 5709 HB3 SER B 166	-47.926	-17.573	35.183	1.00	35.42		H0
ANISOU 5709 HB3 SER B 166	5370	4350	3740	160	560	180	H0
ATOM 5710 N GLN B 167	-49.088	-21.031	36.552	1.00	39.63		N0
ANISOU 5710 N GLN B 167	6500	4400	4160	130	840	330	N0
ATOM 5711 CA GLN B 167	-49.138	-21.618	37.918	1.00	41.74		C0
ANISOU 5711 CA GLN B 167	6940	4590	4330	190	910	430	C0
ATOM 5712 C GLN B 167	-47.925	-21.150	38.737	1.00	41.20		C0
ANISOU 5712 C GLN B 167	6840	4640	4170	420	810	480	C0
ATOM 5713 O GLN B 167	-47.917	-21.399	39.953	1.00	41.66		O0
ANISOU 5713 O GLN B 167	7030	4680	4120	490	850	560	O0
ATOM 5714 CB GLN B 167	-49.175	-23.147	37.847	1.00	44.16		C0
ANISOU 5714 CB GLN B 167	7520	4660	4600	210	1010	480	C0
ATOM 5715 CG GLN B 167	-47.919	-23.768	37.242	1.00	45.43		C0
ANISOU 5715 CG GLN B 167	7760	4770	4730	410	970	480	C0
ATOM 5716 CD GLN B 167	-48.011	-25.270	37.139	1.00	47.82		C0
ANISOU 5716 CD GLN B 167	8370	4810	5000	430	1070	530	C0
ATOM 5717 OE1 GLN B 167	-47.895	-25.842	36.062	1.00	49.05		O0
ANISOU 5717 OE1 GLN B 167	8590	4850	5190	410	1080	470	O0
ATOM 5718 NE2 GLN B 167	-48.230	-25.922	38.268	1.00	49.87		N0
ANISOU 5718 NE2 GLN B 167	8830	4940	5180	460	1150	630	N0
ATOM 5719 H GLN B 167	-48.919	-21.641	35.899	1.00	40.17		H0
ANISOU 5719 H GLN B 167	6630	4390	4240	130	860	310	H0
ATOM 5720 HA GLN B 167	-49.958	-21.301	38.361	1.00	41.54		H0
ANISOU 5720 HA GLN B 167	6880	4590	4310	80	960	440	H0
ATOM 5721 HB2 GLN B 167	-49.298	-23.496	38.754	1.00	45.15		H0

ANISOU 5721 HB2 GLN B 167	7760	4730	4660	240	1070	560	H0
ATOM 5722 HB3 GLN B 167	-49.952	-23.415	37.315	1.00	44.34		H0
ANISOU 5722 HB3 GLN B 167	7550	4610	4680	50	1060	440	H0
ATOM 5723 HG2 GLN B 167	-47.771	-23.396	36.348	1.00	44.47		H0
ANISOU 5723 HG2 GLN B 167	7520	4710	4670	390	920	410	H0
ATOM 5724 HG3 GLN B 167	-47.145	-23.535	37.795	1.00	45.38		H0
ANISOU 5724 HG3 GLN B 167	7730	4840	4670	570	910	530	H0
ATOM 5725 HE21 GLN B 167	-48.641	-26.705	38.254	1.00	50.87		H0
ANISOU 5725 HE21 GLN B 167	9130	4900	5300	390	1230	650	H0
ATOM 5726 HE22 GLN B 167	-47.964	-25.577	39.038	1.00	49.64		H0
ANISOU 5726 HE22 GLN B 167	8770	5000	5090	550	1130	680	H0
ATOM 5727 N TYR B 168	-46.940	-20.506	38.100	1.00	39.77		N0
ANISOU 5727 N TYR B 168	6500	4600	4010	510	700	430	N0
ATOM 5728 CA TYR B 168	-45.627	-20.170	38.709	1.00	40.16		C0
ANISOU 5728 CA TYR B 168	6500	4770	3990	720	590	470	C0
ATOM 5729 C TYR B 168	-45.590	-18.707	39.169	1.00	38.59		C0
ANISOU 5729 C TYR B 168	6110	4760	3790	670	490	430	C0
ATOM 5730 O TYR B 168	-44.681	-18.377	39.946	1.00	39.31		O0
ANISOU 5730 O TYR B 168	6170	4960	3800	810	390	470	O0
ATOM 5731 CB TYR B 168	-44.497	-20.536	37.742	1.00	40.27		C0
ANISOU 5731 CB TYR B 168	6460	4810	4030	860	540	460	C0
ATOM 5732 CG TYR B 168	-44.482	-22.001	37.390	1.00	41.42		C0
ANISOU 5732 CG TYR B 168	6840	4750	4150	930	640	500	C0
ATOM 5733 CD1 TYR B 168	-44.395	-22.965	38.381	1.00	42.92		C0
ANISOU 5733 CD1 TYR B 168	7260	4810	4240	1050	700	600	C0
ATOM 5734 CD2 TYR B 168	-44.596	-22.427	36.075	1.00	41.06		C0
ANISOU 5734 CD2 TYR B 168	6810	4620	4170	880	690	430	C0
ATOM 5735 CE1 TYR B 168	-44.403	-24.316	38.074	1.00	44.55		C0
ANISOU 5735 CE1 TYR B 168	7710	4800	4420	1120	800	630	C0
ATOM 5736 CE2 TYR B 168	-44.600	-23.775	35.750	1.00	42.59		C0
ANISOU 5736 CE2 TYR B 168	7250	4600	4340	950	780	460	C0
ATOM 5737 CZ TYR B 168	-44.514	-24.723	36.757	1.00	44.27		C0
ANISOU 5737 CZ TYR B 168	7700	4670	4450	1070	840	560	C0
ATOM 5738 OH TYR B 168	-44.513	-26.054	36.456	1.00	46.03		O0
ANISOU 5738 OH TYR B 168	8200	4650	4640	1130	930	580	O0
ATOM 5739 H TYR B 168	-46.992	-20.242	37.233	1.00	39.15		H0
ANISOU 5739 H TYR B 168	6330	4550	4000	450	680	370	H0
ATOM 5740 HA TYR B 168	-45.520	-20.731	39.518	1.00	41.15		H0
ANISOU 5740 HA TYR B 168	6760	4840	4030	800	610	540	H0
ATOM 5741 HB2 TYR B 168	-44.599	-20.008	36.923	1.00	39.21		H0
ANISOU 5741 HB2 TYR B 168	6200	4730	3970	770	520	400	H0
ATOM 5742 HB3 TYR B 168	-43.640	-20.296	38.154	1.00	40.56		H0
ANISOU 5742 HB3 TYR B 168	6440	4950	4020	990	460	490	H0
ATOM 5743 HD1 TYR B 168	-44.327	-22.697	39.282	1.00	43.23		H0
ANISOU 5743 HD1 TYR B 168	7300	4910	4210	1090	670	640	H0
ATOM 5744 HD2 TYR B 168	-44.663	-21.787	35.385	1.00	40.04		H0
ANISOU 5744 HD2 TYR B 168	6530	4580	4110	810	650	370	H0
ATOM 5745 HE1 TYR B 168	-44.337	-24.957	38.762	1.00	45.78		H0
ANISOU 5745 HE1 TYR B 168	8040	4860	4500	1210	840	700	H0
ATOM 5746 HE2 TYR B 168	-44.674	-24.046	34.850	1.00	42.56		H0
ANISOU 5746 HE2 TYR B 168	7260	4540	4370	910	810	410	H0
ATOM 5747 N SER B 169	-46.534	-17.871	38.725	1.00	36.76		N0
ANISOU 5747 N SER B 169	5770	4560	3640	490	500	360	N0
ATOM 5748 CA SER B 169	-46.797	-16.527	39.302	1.00	35.73		C0

ANISOU 5748 CA SER B 169	5520	4560	3500	440	440	330	C0
ATOM 5749 C SER B 169	-46.897	-16.640	40.830	1.00	37.53		C0
ANISOU 5749 C SER B 169	5880	4780	3590	510	450	390	C0
ATOM 5750 O SER B 169	-47.329	-17.694	41.317	1.00	38.46		O0
ANISOU 5750 O SER B 169	6180	4770	3660	530	560	460	O0
ATOM 5751 CB SER B 169	-48.050	-15.933	38.728	1.00	34.12		C0
ANISOU 5751 CB SER B 169	5230	4350	3380	260	500	270	C0
ATOM 5752 OG SER B 169	-48.236	-14.600	39.181	1.00	32.78		O0
ANISOU 5752 OG SER B 169	4960	4300	3200	230	440	230	O0
ATOM 5753 H SER B 169	-47.080	-18.060	38.022	1.00	36.49		H0
ANISOU 5753 H SER B 169	5720	4480	3670	400	550	330	H0
ATOM 5754 HA SER B 169	-46.029	-15.935	39.078	1.00	35.40		H0
ANISOU 5754 HA SER B 169	5370	4620	3460	480	340	300	H0
ATOM 5755 HB2 SER B 169	-47.998	-15.942	37.747	1.00	33.55		H0
ANISOU 5755 HB2 SER B 169	5090	4280	3380	220	490	230	H0
ATOM 5756 HB3 SER B 169	-48.822	-16.480	38.998	1.00	34.63		H0
ANISOU 5756 HB3 SER B 169	5380	4340	3430	200	590	290	H0
ATOM 5757 N ARG B 170	-46.507	-15.594	41.559	1.00	38.43		N0
ANISOU 5757 N ARG B 170	5940	5020	3650	540	350	370	N0
ATOM 5758 CA ARG B 170	-46.738	-15.490	43.026	1.00	40.17		C0
ANISOU 5758 CA ARG B 170	6290	5250	3720	600	360	420	C0
ATOM 5759 C ARG B 170	-48.213	-15.165	43.266	1.00	39.21		C0
ANISOU 5759 C ARG B 170	6200	5080	3620	470	490	400	C0
ATOM 5760 O ARG B 170	-48.647	-15.259	44.422	1.00	39.97		O0
ANISOU 5760 O ARG B 170	6430	5160	3600	510	550	450	O0
ATOM 5761 CB ARG B 170	-45.855	-14.414	43.661	1.00	41.31		C0
ANISOU 5761 CB ARG B 170	6370	5540	3790	660	190	380	C0
ATOM 5762 CG ARG B 170	-44.377	-14.764	43.707	1.00	43.62		C0
ANISOU 5762 CG ARG B 170	6620	5900	4040	810	60	420	C0
ATOM 5763 CD ARG B 170	-43.558	-13.524	44.005	1.00	45.16		C0
ANISOU 5763 CD ARG B 170	6690	6260	4210	800	-120	350	C0
ATOM 5764 NE ARG B 170	-43.603	-13.179	45.420	1.00	47.98		N0
ANISOU 5764 NE ARG B 170	7180	6640	4400	860	-170	360	N0
ATOM 5765 CZ ARG B 170	-43.579	-11.942	45.917	1.00	49.08		C0
ANISOU 5765 CZ ARG B 170	7290	6860	4500	800	-270	290	C0
ATOM 5766 NH1 ARG B 170	-43.537	-10.889	45.113	1.00	48.55		N0
ANISOU 5766 NH1 ARG B 170	7070	6830	4540	670	-330	200	N0
ATOM 5767 NH2 ARG B 170	-43.610	-11.764	47.227	1.00	50.47		N0
ANISOU 5767 NH2 ARG B 170	7620	7050	4500	860	-320	300	N0
ATOM 5768 H ARG B 170	-46.075	-14.877	41.198	1.00	37.72		H0
ANISOU 5768 H ARG B 170	5730	5010	3590	530	270	330	H0
ATOM 5769 HA ARG B 170	-46.531	-16.360	43.439	1.00	41.11		H0
ANISOU 5769 HA ARG B 170	6540	5300	3780	680	400	480	H0
ATOM 5770 HB2 ARG B 170	-45.968	-13.582	43.156	1.00	40.48		H0
ANISOU 5770 HB2 ARG B 170	6140	5480	3760	580	160	320	H0
ATOM 5771 HB3 ARG B 170	-46.168	-14.254	44.576	1.00	42.04		H0
ANISOU 5771 HB3 ARG B 170	6560	5630	3790	690	210	400	H0
ATOM 5772 HG2 ARG B 170	-44.217	-15.437	44.402	1.00	44.75		H0
ANISOU 5772 HG2 ARG B 170	6890	6010	4090	910	70	480	H0
ATOM 5773 HG3 ARG B 170	-44.099	-15.139	42.844	1.00	43.23		H0
ANISOU 5773 HG3 ARG B 170	6510	5840	4080	810	70	410	H0
ATOM 5774 HD2 ARG B 170	-42.626	-13.680	43.741	1.00	45.53		H0
ANISOU 5774 HD2 ARG B 170	6660	6370	4270	870	-200	370	H0
ATOM 5775 HD3 ARG B 170	-43.901	-12.777	43.472	1.00	44.16		H0

ANISOU 5775 HD3 ARG B 170	6470	6140	4160	690	-120	290	H0
ATOM 5776 HE ARG B 170	-43.625	-13.838	45.992	1.00	48.79		H0
ANISOU 5776 HE ARG B 170	7400	6710	4430	940	-140	420	H0
ATOM 5777 HH11 ARG B 170	-43.512	-10.994	44.244	1.00	47.46		H0
ANISOU 5777 HH11 ARG B 170	6840	6680	4510	630	-300	200	H0
ATOM 5778 HH12 ARG B 170	-43.526	-10.080	45.456	1.00	48.38		H0
ANISOU 5778 HH12 ARG B 170	7050	6840	4490	630	-390	150	H0
ATOM 5779 HH21 ARG B 170	-43.643	-12.461	47.765	1.00	51.23		H0
ANISOU 5779 HH21 ARG B 170	7830	7120	4510	950	-280	360	H0
ATOM 5780 HH22 ARG B 170	-43.604	-10.949	47.561	1.00	50.48		H0
ANISOU 5780 HH22 ARG B 170	7620	7100	4460	820	-380	240	H0
ATOM 5781 N PHE B 171	-48.943	-14.800	42.208	1.00	37.25		N0
ANISOU 5781 N PHE B 171	5820	4830	3500	330	540	340	N0
ATOM 5782 CA PHE B 171	-50.347	-14.329	42.273	1.00	37.12		C0
ANISOU 5782 CA PHE B 171	5760	4820	3520	210	650	320	C0
ATOM 5783 C PHE B 171	-51.274	-15.348	41.604	1.00	37.62		C0
ANISOU 5783 C PHE B 171	5840	4780	3670	90	780	340	C0
ATOM 5784 O PHE B 171	-50.816	-16.210	40.814	1.00	37.36		O0
ANISOU 5784 O PHE B 171	5840	4670	3690	90	770	350	O0
ATOM 5785 CB PHE B 171	-50.443	-12.932	41.658	1.00	35.83		C0
ANISOU 5785 CB PHE B 171	5430	4750	3430	160	560	230	C0
ATOM 5786 CG PHE B 171	-49.477	-11.964	42.287	1.00	36.21		C0
ANISOU 5786 CG PHE B 171	5480	4880	3400	250	420	190	C0
ATOM 5787 CD1 PHE B 171	-49.824	-11.263	43.433	1.00	36.99		C0
ANISOU 5787 CD1 PHE B 171	5660	5010	3380	290	430	190	C0
ATOM 5788 CD2 PHE B 171	-48.191	-11.818	41.783	1.00	36.16		C0
ANISOU 5788 CD2 PHE B 171	5400	4920	3410	290	280	180	C0
ATOM 5789 CE1 PHE B 171	-48.917	-10.409	44.040	1.00	37.74		C0
ANISOU 5789 CE1 PHE B 171	5780	5170	3390	350	290	150	C0
ATOM 5790 CE2 PHE B 171	-47.286	-10.963	42.390	1.00	36.79		C0
ANISOU 5790 CE2 PHE B 171	5480	5080	3420	350	140	150	C0
ATOM 5791 CZ PHE B 171	-47.651	-10.256	43.516	1.00	37.55		C0
ANISOU 5791 CZ PHE B 171	5670	5200	3400	370	130	130	C0
ATOM 5792 H PHE B 171	-48.623	-14.795	41.358	1.00	36.82		H0
ANISOU 5792 H PHE B 171	5680	4790	3520	310	500	310	H0
ATOM 5793 HA PHE B 171	-50.606	-14.264	43.226	1.00	37.90		H0
ANISOU 5793 HA PHE B 171	5950	4920	3530	250	690	350	H0
ATOM 5794 HB2 PHE B 171	-50.259	-12.995	40.698	1.00	35.23		H0
ANISOU 5794 HB2 PHE B 171	5270	4670	3440	120	540	200	H0
ATOM 5795 HB3 PHE B 171	-51.357	-12.597	41.773	1.00	35.93		H0
ANISOU 5795 HB3 PHE B 171	5420	4770	3460	110	640	220	H0
ATOM 5796 HD1 PHE B 171	-50.688	-11.365	43.798	1.00	37.47		H0
ANISOU 5796 HD1 PHE B 171	5760	5050	3420	270	540	200	H0
ATOM 5797 HD2 PHE B 171	-47.935	-12.303	41.014	1.00	35.83		H0
ANISOU 5797 HD2 PHE B 171	5320	4860	3440	280	290	180	H0
ATOM 5798 HE1 PHE B 171	-49.171	-9.922	44.808	1.00	38.19		H0
ANISOU 5798 HE1 PHE B 171	5910	5240	3360	380	290	130	H0
ATOM 5799 HE2 PHE B 171	-46.421	-10.858	42.027	1.00	36.61		H0
ANISOU 5799 HE2 PHE B 171	5380	5110	3420	360	50	140	H0
ATOM 5800 HZ PHE B 171	-47.038	-9.667	43.925	1.00	37.82		H0
ANISOU 5800 HZ PHE B 171	5710	5280	3380	390	30	100	H0
ATOM 5801 N GLU B 172	-52.558	-15.256	41.946	1.00	37.87		N0
ANISOU 5801 N GLU B 172	5860	4810	3710	0	910	360	N0
ATOM 5802 CA GLU B 172	-53.647	-16.030	41.307	1.00	38.51		C0

ANISOU 5802 CA GLU B 172	5920	4820	3890	-160	1030	370	C0
ATOM 5803 C GLU B 172	-54.788	-15.065	40.978	1.00	38.12		C0
ANISOU 5803 C GLU B 172	5690	4880	3920	-260	1070	320	C0
ATOM 5804 O GLU B 172	-54.894	-14.010	41.649	1.00	36.71		O0
ANISOU 5804 O GLU B 172	5480	4790	3680	-180	1050	300	O0
ATOM 5805 CB GLU B 172	-54.070	-17.193	42.200	1.00	40.45		C0
ANISOU 5805 CB GLU B 172	6350	4950	4060	-190	1180	470	C0
ATOM 5806 CG GLU B 172	-54.682	-16.774	43.519	1.00	41.97		C0
ANISOU 5806 CG GLU B 172	6600	5200	4150	-150	1270	520	C0
ATOM 5807 CD GLU B 172	-54.827	-17.922	44.500	1.00	43.97		C0
ANISOU 5807 CD GLU B 172	7070	5330	4300	-140	1410	640	C0
ATOM 5808 OE1 GLU B 172	-54.912	-19.083	44.039	1.00	45.34		O0
ANISOU 5808 OE1 GLU B 172	7330	5370	4530	-220	1470	680	O0
ATOM 5809 OE2 GLU B 172	-54.819	-17.657	45.719	1.00	44.69		O0
ANISOU 5809 OE2 GLU B 172	7270	5460	4250	-40	1450	690	O0
ATOM 5810 H GLU B 172	-52.847	-14.698	42.606	1.00	38.18		H0
ANISOU 5810 H GLU B 172	5910	4900	3700	20	930	360	H0
ATOM 5811 HA GLU B 172	-53.304	-16.398	40.460	1.00	38.10		H0
ANISOU 5811 HA GLU B 172	5850	4730	3900	-190	990	340	H0
ATOM 5812 HB2 GLU B 172	-54.719	-17.740	41.710	1.00	40.94		H0
ANISOU 5812 HB2 GLU B 172	6390	4960	4200	-310	1240	470	H0
ATOM 5813 HB3 GLU B 172	-53.283	-17.749	42.378	1.00	40.87		H0
ANISOU 5813 HB3 GLU B 172	6520	4940	4070	-100	1140	500	H0
ATOM 5814 HG2 GLU B 172	-54.124	-16.080	43.930	1.00	41.42		H0
ANISOU 5814 HG2 GLU B 172	6530	5190	4020	-40	1190	500	H0
ATOM 5815 HG3 GLU B 172	-55.568	-16.387	43.356	1.00	41.84		H0
ANISOU 5815 HG3 GLU B 172	6470	5240	4190	-230	1330	500	H0
ATOM 5816 N ILE B 173	-55.566	-15.400	39.946	1.00	38.42		N0
ANISOU 5816 N ILE B 173	5620	4910	4070	-410	1100	290	N0
ATOM 5817 CA ILE B 173	-56.716	-14.587	39.460	1.00	38.77		C0
ANISOU 5817 CA ILE B 173	5460	5070	4200	-500	1130	240	C0
ATOM 5818 C ILE B 173	-57.982	-15.115	40.134	1.00	40.66		C0
ANISOU 5818 C ILE B 173	5700	5320	4430	-600	1300	310	C0
ATOM 5819 O ILE B 173	-58.248	-16.325	40.010	1.00	41.52		O0
ANISOU 5819 O ILE B 173	5890	5320	4570	-730	1370	350	O0
ATOM 5820 CB ILE B 173	-56.836	-14.642	37.926	1.00	37.97		C0
ANISOU 5820 CB ILE B 173	5240	4980	4210	-600	1050	180	C0
ATOM 5821 CG1 ILE B 173	-55.584	-14.091	37.241	1.00	37.26		C0
ANISOU 5821 CG1 ILE B 173	5140	4890	4120	-490	900	120	C0
ATOM 5822 CG2 ILE B 173	-58.099	-13.932	37.464	1.00	37.81		C0
ANISOU 5822 CG2 ILE B 173	5010	5090	4270	-680	1070	140	C0
ATOM 5823 CD1 ILE B 173	-55.632	-14.172	35.729	1.00	36.97		C0
ANISOU 5823 CD1 ILE B 173	5010	4860	4180	-580	830	60	C0
ATOM 5824 H ILE B 173	-55.438	-16.164	39.467	1.00	38.70		H0
ANISOU 5824 H ILE B 173	5700	4870	4140	-460	1100	290	H0
ATOM 5825 HA ILE B 173	-56.580	-13.661	39.727	1.00	38.16		H0
ANISOU 5825 HA ILE B 173	5350	5070	4090	-420	1080	220	H0
ATOM 5826 HB ILE B 173	-56.918	-15.594	37.671	1.00	38.71		H0
ANISOU 5826 HB ILE B 173	5390	4990	4330	-680	1080	190	H0
ATOM 5827 HG12 ILE B 173	-55.468	-13.153	37.504	1.00	36.64		H0
ANISOU 5827 HG12 ILE B 173	5020	4880	4020	-430	860	100	H0
ATOM 5828 HG13 ILE B 173	-54.803	-14.593	37.559	1.00	37.28		H0
ANISOU 5828 HG13 ILE B 173	5260	4830	4080	-430	880	150	H0
ATOM 5829 HG21 ILE B 173	-58.879	-14.351	37.866	1.00	39.02		H0

ANISOU 5829 HG21 ILE B 173	5150	5250	4430	-760	1180	180	H0
ATOM 5830 HG22 ILE B 173	-58.170	-13.988	36.496	1.00	37.54		H0
ANISOU 5830 HG22 ILE B 173	4910	5060	4290	-740	1020	100	H0
ATOM 5831 HG23 ILE B 173	-58.063	-12.997	37.731	1.00	37.42		H0
ANISOU 5831 HG23 ILE B 173	4920	5110	4190	-590	1050	130	H0
ATOM 5832 HD11 ILE B 173	-55.968	-15.044	35.459	1.00	37.56		H0
ANISOU 5832 HD11 ILE B 173	5120	4870	4280	-670	870	70	H0
ATOM 5833 HD12 ILE B 173	-54.738	-14.044	35.368	1.00	36.18		H0
ANISOU 5833 HD12 ILE B 173	4930	4750	4070	-510	750	40	H0
ATOM 5834 HD13 ILE B 173	-56.220	-13.478	35.383	1.00	36.59		H0
ANISOU 5834 HD13 ILE B 173	4840	4900	4160	-600	810	30	H0
ATOM 5835 N LEU B 174	-58.741	-14.231	40.781	1.00	41.62		N0
ANISOU 5835 N LEU B 174	5730	5560	4520	-560	1370	320	N0
ATOM 5836 CA LEU B 174	-60.044	-14.568	41.414	1.00	44.32		C0
ANISOU 5836 CA LEU B 174	6020	5950	4870	-660	1550	380	C0
ATOM 5837 C LEU B 174	-61.175	-14.396	40.390	1.00	45.37		C0
ANISOU 5837 C LEU B 174	5910	6190	5140	-810	1560	350	C0
ATOM 5838 O LEU B 174	-62.099	-15.228	40.403	1.00	46.57		O0
ANISOU 5838 O LEU B 174	6010	6340	5340	-980	1680	400	O0
ATOM 5839 CB LEU B 174	-60.248	-13.669	42.637	1.00	44.67		C0
ANISOU 5839 CB LEU B 174	6100	6080	4800	-510	1620	410	C0
ATOM 5840 CG LEU B 174	-59.213	-13.833	43.750	1.00	44.92		C0
ANISOU 5840 CG LEU B 174	6370	6020	4670	-370	1610	450	C0
ATOM 5841 CD1 LEU B 174	-59.519	-12.895	44.906	1.00	45.61		C0
ANISOU 5841 CD1 LEU B 174	6500	6190	4630	-220	1680	460	C0
ATOM 5842 CD2 LEU B 174	-59.155	-15.275	44.237	1.00	46.32		C0
ANISOU 5842 CD2 LEU B 174	6720	6070	4810	-440	1710	550	C0
ATOM 5843 H LEU B 174	-58.505	-13.356	40.872	1.00	41.01		H0
ANISOU 5843 H LEU B 174	5620	5540	4420	-470	1310	280	H0
ATOM 5844 HA LEU B 174	-60.020	-15.510	41.699	1.00	45.15		H0
ANISOU 5844 HA LEU B 174	6240	5960	4960	-720	1620	440	H0
ATOM 5845 HB2 LEU B 174	-60.238	-12.737	42.339	1.00	43.92		H0
ANISOU 5845 HB2 LEU B 174	5920	6060	4720	-440	1550	350	H0
ATOM 5846 HB3 LEU B 174	-61.134	-13.850	43.008	1.00	45.98		H0
ANISOU 5846 HB3 LEU B 174	6210	6290	4970	-570	1750	450	H0
ATOM 5847 HG LEU B 174	-58.326	-13.595	43.385	1.00	43.76		H0
ANISOU 5847 HG LEU B 174	6260	5840	4520	-310	1470	400	H0
ATOM 5848 HD11 LEU B 174	-59.515	-11.976	44.587	1.00	44.81		H0
ANISOU 5848 HD11 LEU B 174	6320	6160	4550	-170	1600	390	H0
ATOM 5849 HD12 LEU B 174	-58.844	-13.000	45.598	1.00	45.76		H0
ANISOU 5849 HD12 LEU B 174	6680	6160	4540	-140	1650	480	H0
ATOM 5850 HD13 LEU B 174	-60.395	-13.106	45.274	1.00	46.82		H0
ANISOU 5850 HD13 LEU B 174	6620	6390	4780	-270	1820	510	H0
ATOM 5851 HD21 LEU B 174	-60.059	-15.622	44.334	1.00	47.43		H0
ANISOU 5851 HD21 LEU B 174	6810	6230	4990	-550	1840	590	H0
ATOM 5852 HD22 LEU B 174	-58.701	-15.310	45.097	1.00	46.73		H0
ANISOU 5852 HD22 LEU B 174	6920	6090	4750	-340	1720	580	H0
ATOM 5853 HD23 LEU B 174	-58.667	-15.817	43.593	1.00	45.79		H0
ANISOU 5853 HD23 LEU B 174	6680	5920	4790	-490	1640	530	H0
ATOM 5854 N ASP B 175	-61.106	-13.358	39.545	1.00	45.34		N0
ANISOU 5854 N ASP B 175	5760	6280	5190	-750	1430	270	N0
ATOM 5855 CA ASP B 175	-62.118	-13.078	38.491	1.00	47.02		C0
ANISOU 5855 CA ASP B 175	5740	6610	5520	-850	1410	230	C0
ATOM 5856 C ASP B 175	-61.602	-12.011	37.516	1.00	45.38		C0

ANISOU 5856 C ASP B 175	5450	6450	5340	-760	1250	140	C0
ATOM 5857 O ASP B 175	-60.785	-11.146	37.929	1.00	44.13		O0
ANISOU 5857 O ASP B 175	5390	6270	5110	-590	1190	120	O0
ATOM 5858 CB ASP B 175	-63.445	-12.636	39.115	1.00	50.96		C0
ANISOU 5858 CB ASP B 175	6070	7270	6020	-860	1560	270	C0
ATOM 5859 CG ASP B 175	-64.638	-12.676	38.172	1.00	53.80		C0
ANISOU 5859 CG ASP B 175	6170	7770	6510	-1000	1550	250	C0
ATOM 5860 OD1 ASP B 175	-64.660	-13.537	37.266	1.00	55.45		O0
ANISOU 5860 OD1 ASP B 175	6350	7920	6790	-1180	1490	230	O0
ATOM 5861 OD2 ASP B 175	-65.549	-11.849	38.361	1.00	57.43		O0
ANISOU 5861 OD2 ASP B 175	6440	8400	6980	-930	1610	260	O0
ATOM 5862 H ASP B 175	-60.429	-12.748	39.574	1.00	44.35		H0
ANISOU 5862 H ASP B 175	5680	6150	5020	-630	1350	230	H0
ATOM 5863 HA ASP B 175	-62.273	-13.912	37.989	1.00	47.65		H0
ANISOU 5863 HA ASP B 175	5810	6640	5650	-990	1410	230	H0
ATOM 5864 HB2 ASP B 175	-63.647	-13.211	39.880	1.00	51.86		H0
ANISOU 5864 HB2 ASP B 175	6260	7350	6100	-890	1670	330	H0
ATOM 5865 HB3 ASP B 175	-63.348	-11.719	39.443	1.00	50.37		H0
ANISOU 5865 HB3 ASP B 175	5990	7250	5900	-710	1540	250	H0
ATOM 5866 N VAL B 176	-62.082	-12.071	36.269	1.00	44.36		N0
ANISOU 5866 N VAL B 176	5170	6380	5300	-860	1170	100	N0
ATOM 5867 CA VAL B 176	-61.874	-11.035	35.213	1.00	42.70		C0
ANISOU 5867 CA VAL B 176	4860	6230	5130	-780	1030	30	C0
ATOM 5868 C VAL B 176	-63.242	-10.683	34.617	1.00	44.06		C0
ANISOU 5868 C VAL B 176	4790	6580	5370	-840	1040	20	C0
ATOM 5869 O VAL B 176	-63.936	-11.609	34.163	1.00	44.54		O0
ANISOU 5869 O VAL B 176	4760	6660	5500	-1030	1070	30	O0
ATOM 5870 CB VAL B 176	-60.892	-11.527	34.132	1.00	40.73		C0
ANISOU 5870 CB VAL B 176	4700	5880	4900	-830	910	-20	C0
ATOM 5871 CG1 VAL B 176	-60.733	-10.512	33.014	1.00	39.94		C0
ANISOU 5871 CG1 VAL B 176	4500	5850	4820	-760	780	-80	C0
ATOM 5872 CG2 VAL B 176	-59.538	-11.885	34.725	1.00	39.57		C0
ANISOU 5872 CG2 VAL B 176	4770	5590	4680	-750	890	-10	C0
ATOM 5873 H VAL B 176	-62.586	-12.772	35.981	1.00	45.36		H0
ANISOU 5873 H VAL B 176	5250	6500	5480	-990	1200	110	H0
ATOM 5874 HA VAL B 176	-61.503	-10.241	35.630	1.00	42.08		H0
ANISOU 5874 HA VAL B 176	4830	6160	5000	-650	1020	20	H0
ATOM 5875 HB VAL B 176	-61.274	-12.349	33.738	1.00	41.62		H0
ANISOU 5875 HB VAL B 176	4790	5970	5050	-960	920	-20	H0
ATOM 5876 HG11 VAL B 176	-61.512	-10.543	32.432	1.00	40.50		H0
ANISOU 5876 HG11 VAL B 176	4450	6000	4940	-830	760	-90	H0
ATOM 5877 HG12 VAL B 176	-59.935	-10.720	32.497	1.00	39.08		H0
ANISOU 5877 HG12 VAL B 176	4470	5670	4710	-760	710	-100	H0
ATOM 5878 HG13 VAL B 176	-60.648	-9.621	33.395	1.00	39.51		H0
ANISOU 5878 HG13 VAL B 176	4450	5830	4740	-650	780	-80	H0
ATOM 5879 HG21 VAL B 176	-59.155	-11.101	35.156	1.00	39.12		H0
ANISOU 5879 HG21 VAL B 176	4730	5550	4580	-640	870	-10	H0
ATOM 5880 HG22 VAL B 176	-58.943	-12.188	34.018	1.00	39.10		H0
ANISOU 5880 HG22 VAL B 176	4750	5480	4630	-770	820	-30	H0
ATOM 5881 HG23 VAL B 176	-59.648	-12.594	35.382	1.00	40.45		H0
ANISOU 5881 HG23 VAL B 176	4950	5650	4770	-800	970	40	H0
ATOM 5882 N THR B 177	-63.631	-9.404	34.662	1.00	45.18		N0
ANISOU 5882 N THR B 177	4830	6830	5500	-690	1030	10	N0
ATOM 5883 CA THR B 177	-64.853	-8.870	33.998	1.00	47.73		C0

ANISOU 5883 CA THR B 177	4900	7340	5890	-700	1020	10	C0
ATOM 5884 C THR B 177	-64.420	-7.799	32.985	1.00	47.35		C0
ANISOU 5884 C THR B 177	4850	7310	5840	-580	870	-50	C0
ATOM 5885 O THR B 177	-63.563	-6.962	33.331	1.00	45.46		O0
ANISOU 5885 O THR B 177	4750	6990	5530	-430	840	-60	O0
ATOM 5886 CB THR B 177	-65.904	-8.386	35.015	1.00	49.70		C0
ANISOU 5886 CB THR B 177	5030	7730	6120	-610	1170	60	C0
ATOM 5887 OG1 THR B 177	-65.427	-7.252	35.740	1.00	50.32		O0
ANISOU 5887 OG1 THR B 177	5240	7770	6110	-390	1190	60	O0
ATOM 5888 CG2 THR B 177	-66.297	-9.455	36.011	1.00	51.10		C0
ANISOU 5888 CG2 THR B 177	5240	7890	6290	-740	1330	130	C0
ATOM 5889 H THR B 177	-63.169	-8.760	35.110	1.00	44.61		H0
ANISOU 5889 H THR B 177	4840	6730	5380	-570	1030	10	H0
ATOM 5890 HA THR B 177	-65.255	-9.612	33.491	1.00	48.36		H0
ANISOU 5890 HA THR B 177	4910	7450	6020	-840	1010	0	H0
ATOM 5891 HB THR B 177	-66.709	-8.119	34.511	1.00	50.74		H0
ANISOU 5891 HB THR B 177	4980	8000	6300	-610	1160	60	H0
ATOM 5892 HG21 THR B 177	-66.595	-10.251	35.535	1.00	51.68		H0
ANISOU 5892 HG21 THR B 177	5240	7970	6420	-900	1320	130	H0
ATOM 5893 HG22 THR B 177	-67.021	-9.125	36.573	1.00	52.25		H0
ANISOU 5893 HG22 THR B 177	5280	8140	6430	-680	1430	160	H0
ATOM 5894 HG23 THR B 177	-65.531	-9.679	36.569	1.00	50.37		H0
ANISOU 5894 HG23 THR B 177	5330	7670	6140	-710	1350	130	H0
ATOM 5895 N GLN B 178	-64.976	-7.853	31.771	1.00	49.35		N0
ANISOU 5895 N GLN B 178	4940	7660	6150	-650	780	-70	N0
ATOM 5896 CA GLN B 178	-64.662	-6.933	30.645	1.00	49.91		C0
ANISOU 5896 CA GLN B 178	5000	7750	6210	-550	640	-110	C0
ATOM 5897 C GLN B 178	-65.971	-6.275	30.192	1.00	51.80		C0
ANISOU 5897 C GLN B 178	5000	8200	6490	-490	620	-100	C0
ATOM 5898 O GLN B 178	-66.869	-7.016	29.754	1.00	54.87		O0
ANISOU 5898 O GLN B 178	5210	8700	6940	-640	610	-100	O0
ATOM 5899 CB GLN B 178	-63.967	-7.697	29.513	1.00	49.85		C0
ANISOU 5899 CB GLN B 178	5070	7650	6220	-680	520	-160	C0
ATOM 5900 CG GLN B 178	-62.876	-8.646	30.001	1.00	49.81		C0
ANISOU 5900 CG GLN B 178	5260	7470	6190	-760	560	-160	C0
ATOM 5901 CD GLN B 178	-61.788	-8.933	28.988	1.00	50.25		C0
ANISOU 5901 CD GLN B 178	5440	7420	6230	-780	450	-210	C0
ATOM 5902 OE1 GLN B 178	-61.302	-8.052	28.281	1.00	48.76		O0
ANISOU 5902 OE1 GLN B 178	5270	7230	6020	-680	360	-230	O0
ATOM 5903 NE2 GLN B 178	-61.352	-10.182	28.942	1.00	51.63		N0
ANISOU 5903 NE2 GLN B 178	5720	7480	6410	-910	460	-220	N0
ATOM 5904 H GLN B 178	-65.601	-8.479	31.554	1.00	50.29		H0
ANISOU 5904 H GLN B 178	4960	7840	6310	-770	790	-70	H0
ATOM 5905 HA GLN B 178	-64.055	-6.234	30.973	1.00	48.94		H0
ANISOU 5905 HA GLN B 178	4990	7560	6050	-430	630	-120	H0
ATOM 5906 HB2 GLN B 178	-64.641	-8.211	29.022	1.00	50.85		H0
ANISOU 5906 HB2 GLN B 178	5080	7850	6390	-790	500	-170	H0
ATOM 5907 HB3 GLN B 178	-63.576	-7.046	28.894	1.00	49.16		H0
ANISOU 5907 HB3 GLN B 178	5010	7560	6120	-600	440	-180	H0
ATOM 5908 HG2 GLN B 178	-62.463	-8.264	30.803	1.00	49.45		H0
ANISOU 5908 HG2 GLN B 178	5300	7380	6110	-670	600	-140	H0
ATOM 5909 HG3 GLN B 178	-63.292	-9.495	30.262	1.00	50.83		H0
ANISOU 5909 HG3 GLN B 178	5370	7600	6350	-870	610	-150	H0
ATOM 5910 HE21 GLN B 178	-61.046	-10.516	28.184	1.00	51.01		H0

ANISOU 5910 HE21 GLN B 178	5680	7370	6330	-950	410	-250	H0
ATOM 5911 HE22 GLN B 178	-61.364	-10.683	29.671	1.00	51.53		H0
ANISOU 5911 HE22 GLN B 178	5760	7420	6400	-940	540	-200	H0
ATOM 5912 N LYS B 179	-66.078	-4.947	30.330	1.00	51.53		N0
ANISOU 5912 N LYS B 179	4960	8200	6410	-270	620	-90	N0
ATOM 5913 CA LYS B 179	-67.294	-4.151	30.007	1.00	52.25		C0
ANISOU 5913 CA LYS B 179	4840	8490	6520	-140	610	-70	C0
ATOM 5914 C LYS B 179	-66.939	-2.988	29.071	1.00	49.51		C0
ANISOU 5914 C LYS B 179	4550	8120	6140	20	490	-80	C0
ATOM 5915 O LYS B 179	-65.836	-2.433	29.173	1.00	46.64		O0
ANISOU 5915 O LYS B 179	4410	7590	5720	90	470	-100	O0
ATOM 5916 CB LYS B 179	-67.954	-3.637	31.290	1.00	55.10		C0
ANISOU 5916 CB LYS B 179	5150	8930	6860	0	780	-20	C0
ATOM 5917 CG LYS B 179	-67.410	-2.317	31.825	1.00	56.17		C0
ANISOU 5917 CG LYS B 179	5480	8960	6910	240	800	-20	C0
ATOM 5918 CD LYS B 179	-67.977	-1.927	33.180	1.00	58.80		C0
ANISOU 5918 CD LYS B 179	5810	9340	7200	380	970	10	C0
ATOM 5919 CE LYS B 179	-68.350	-0.461	33.268	1.00	60.27		C0
ANISOU 5919 CE LYS B 179	6020	9550	7330	660	980	20	C0
ATOM 5920 NZ LYS B 179	-69.039	-0.147	34.542	1.00	62.90		N0
ANISOU 5920 NZ LYS B 179	6340	9960	7610	810	1160	50	N0
ATOM 5921 H LYS B 179	-65.389	-4.436	30.639	1.00	50.43		H0
ANISOU 5921 H LYS B 179	4970	7960	6230	-180	620	-100	H0
ATOM 5922 HA LYS B 179	-67.932	-4.740	29.542	1.00	53.29		H0
ANISOU 5922 HA LYS B 179	4810	8730	6700	-260	590	-70	H0
ATOM 5923 HB2 LYS B 179	-68.913	-3.530	31.121	1.00	56.57		H0
ANISOU 5923 HB2 LYS B 179	5140	9280	7080	30	790	0	H0
ATOM 5924 HB3 LYS B 179	-67.849	-4.319	31.985	1.00	55.13		H0
ANISOU 5924 HB3 LYS B 179	5190	8890	6860	-90	860	-10	H0
ATOM 5925 HG2 LYS B 179	-66.434	-2.385	31.897	1.00	54.64		H0
ANISOU 5925 HG2 LYS B 179	5460	8610	6690	200	760	-50	H0
ATOM 5926 HG3 LYS B 179	-67.613	-1.606	31.181	1.00	56.27		H0
ANISOU 5926 HG3 LYS B 179	5450	9010	6920	350	730	-30	H0
ATOM 5927 HD2 LYS B 179	-68.775	-2.468	33.361	1.00	59.87		H0
ANISOU 5927 HD2 LYS B 179	5770	9600	7370	320	1040	40	H0
ATOM 5928 HD3 LYS B 179	-67.313	-2.127	33.873	1.00	57.85		H0
ANISOU 5928 HD3 LYS B 179	5850	9090	7030	360	1010	0	H0
ATOM 5929 HE2 LYS B 179	-67.546	0.087	33.198	1.00	59.23		H0
ANISOU 5929 HE2 LYS B 179	6080	9280	7150	720	920	-10	H0
ATOM 5930 HE3 LYS B 179	-68.938	-0.229	32.525	1.00	61.06		H0
ANISOU 5930 HE3 LYS B 179	5970	9770	7460	700	930	30	H0
ATOM 5931 HZ1 LYS B 179	-69.800	-0.635	34.608	1.00	63.74		H0
ANISOU 5931 HZ1 LYS B 179	6260	10210	7750	760	1230	80	H0
ATOM 5932 HZ2 LYS B 179	-69.248	0.735	34.569	1.00	63.15		H0
ANISOU 5932 HZ2 LYS B 179	6400	10000	7600	990	1170	50	H0
ATOM 5933 HZ3 LYS B 179	-68.497	-0.345	35.242	1.00	61.98		H0
ANISOU 5933 HZ3 LYS B 179	6370	9730	7450	780	1210	40	H0
ATOM 5934 N LYS B 180	-67.883	-2.621	28.209	1.00	50.41		N0
ANISOU 5934 N LYS B 180	4460	8420	6270	80	420	-70	N0
ATOM 5935 CA LYS B 180	-67.762	-1.527	27.213	1.00	49.66		C0
ANISOU 5935 CA LYS B 180	4410	8320	6140	240	300	-80	C0
ATOM 5936 C LYS B 180	-68.289	-0.228	27.833	1.00	49.03		C0
ANISOU 5936 C LYS B 180	4320	8290	6020	510	380	-40	C0
ATOM 5937 O LYS B 180	-69.387	-0.254	28.428	1.00	50.12		O0

ANISOU 5937 O LYS B 180	4260	8600	6180	580	470	0	O0
ATOM 5938 CB LYS B 180	-68.545	-1.912	25.953	1.00	51.84		C0
ANISOU 5938 CB LYS B 180	4470	8780	6450	160	170	-80	C0
ATOM 5939 CG LYS B 180	-68.620	-0.853	24.863	1.00	52.96		C0
ANISOU 5939 CG LYS B 180	4630	8960	6530	340	50	-70	C0
ATOM 5940 CD LYS B 180	-69.797	-1.074	23.945	1.00	55.99		C0
ANISOU 5940 CD LYS B 180	4730	9600	6940	320	-60	-60	C0
ATOM 5941 CE LYS B 180	-69.777	-0.203	22.708	1.00	56.65		C0
ANISOU 5941 CE LYS B 180	4860	9710	6960	470	-200	-50	C0
ATOM 5942 NZ LYS B 180	-68.932	-0.787	21.641	1.00	55.70		N0
ANISOU 5942 NZ LYS B 180	4870	9490	6800	310	-320	-100	N0
ATOM 5943 H LYS B 180	-68.695	-3.034	28.185	1.00	51.65		H0
ANISOU 5943 H LYS B 180	4440	8710	6470	10	440	-60	H0
ATOM 5944 HA LYS B 180	-66.813	-1.413	26.981	1.00	48.23		H0
ANISOU 5944 HA LYS B 180	4400	8000	5930	220	260	-100	H0
ATOM 5945 HB2 LYS B 180	-68.135	-2.717	25.572	1.00	51.19		H0
ANISOU 5945 HB2 LYS B 180	4430	8640	6380	-10	130	-120	H0
ATOM 5946 HB3 LYS B 180	-69.459	-2.144	26.219	1.00	53.27		H0
ANISOU 5946 HB3 LYS B 180	4460	9120	6660	150	210	-60	H0
ATOM 5947 HG2 LYS B 180	-68.697	0.033	25.276	1.00	53.22		H0
ANISOU 5947 HG2 LYS B 180	4710	8970	6540	520	100	-40	H0
ATOM 5948 HG3 LYS B 180	-67.792	-0.873	24.339	1.00	51.78		H0
ANISOU 5948 HG3 LYS B 180	4630	8690	6360	300	-10	-90	H0
ATOM 5949 HD2 LYS B 180	-69.813	-2.016	23.669	1.00	55.85		H0
ANISOU 5949 HD2 LYS B 180	4660	9600	6950	130	-100	-100	H0
ATOM 5950 HD3 LYS B 180	-70.621	-0.895	24.442	1.00	57.20		H0
ANISOU 5950 HD3 LYS B 180	4730	9890	7120	390	0	-30	H0
ATOM 5951 HE2 LYS B 180	-70.686	-0.095	22.369	1.00	58.30		H0
ANISOU 5951 HE2 LYS B 180	4870	10110	7170	530	-250	-30	H0
ATOM 5952 HE3 LYS B 180	-69.433	0.681	22.937	1.00	56.15		H0
ANISOU 5952 HE3 LYS B 180	4930	9550	6850	640	-170	-30	H0
ATOM 5953 HZ1 LYS B 180	-68.057	-0.685	21.854	1.00	54.17		H0
ANISOU 5953 HZ1 LYS B 180	4860	9130	6590	300	-280	-110	H0
ATOM 5954 HZ2 LYS B 180	-69.096	-0.367	20.855	1.00	56.16		H0
ANISOU 5954 HZ2 LYS B 180	4920	9600	6820	390	-410	-90	H0
ATOM 5955 HZ3 LYS B 180	-69.116	-1.670	21.548	1.00	55.86		H0
ANISOU 5955 HZ3 LYS B 180	4810	9550	6860	150	-340	-130	H0
ATOM 5956 N ASN B 181	-67.530	0.862	27.699	1.00	47.08		N0
ANISOU 5956 N ASN B 181	4300	7890	5710	670	340	-40	N0
ATOM 5957 CA ASN B 181	-67.980	2.237	28.039	1.00	47.96		C0
ANISOU 5957 CA ASN B 181	4450	8000	5770	950	390	-10	C0
ATOM 5958 C ASN B 181	-67.998	3.082	26.764	1.00	48.06		C0
ANISOU 5958 C ASN B 181	4490	8020	5750	1070	260	10	C0
ATOM 5959 O ASN B 181	-67.108	2.895	25.910	1.00	46.11		O0
ANISOU 5959 O ASN B 181	4360	7670	5490	950	160	-10	O0
ATOM 5960 CB ASN B 181	-67.093	2.896	29.096	1.00	47.07		C0
ANISOU 5960 CB ASN B 181	4620	7670	5590	1030	470	-30	C0
ATOM 5961 CG ASN B 181	-67.026	2.094	30.376	1.00	46.59		C0
ANISOU 5961 CG ASN B 181	4560	7600	5540	920	600	-40	C0
ATOM 5962 OD1 ASN B 181	-68.056	1.783	30.969	1.00	48.86		O0
ANISOU 5962 OD1 ASN B 181	4660	8050	5850	960	700	-10	O0
ATOM 5963 ND2 ASN B 181	-65.824	1.748	30.801	1.00	44.76		N0
ANISOU 5963 ND2 ASN B 181	4530	7190	5290	800	590	-70	N0
ATOM 5964 H ASN B 181	-66.676	0.826	27.384	1.00	46.02		H0

ANISOU 5964 H ASN B 181	4300	7630	5560	610	290	-60	H0
ATOM 5965 HA ASN B 181	-68.896	2.189	28.401	1.00	49.40		H0
ANISOU 5965 HA ASN B 181	4470	8340	5970	1010	450	20	H0
ATOM 5966 HB2 ASN B 181	-66.190	3.000	28.732	1.00	45.75		H0
ANISOU 5966 HB2 ASN B 181	4600	7370	5410	960	410	-50	H0
ATOM 5967 HB3 ASN B 181	-67.444	3.788	29.295	1.00	47.95		H0
ANISOU 5967 HB3 ASN B 181	4770	7780	5660	1220	500	-10	H0
ATOM 5968 HD21 ASN B 181	-65.739	1.148	31.445	1.00	44.64		H0
ANISOU 5968 HD21 ASN B 181	4520	7170	5280	720	650	-80	H0
ATOM 5969 HD22 ASN B 181	-65.103	2.116	30.444	1.00	43.95		H0
ANISOU 5969 HD22 ASN B 181	4560	6970	5170	790	520	-90	H0
ATOM 5970 N SER B 182	-68.998	3.951	26.648	1.00	50.57		N0
ANISOU 5970 N SER B 182	4700	8470	6040	1310	270	50	N0
ATOM 5971 CA SER B 182	-69.094	5.031	25.636	1.00	51.89		C0
ANISOU 5971 CA SER B 182	4940	8630	6150	1510	170	90	C0
ATOM 5972 C SER B 182	-69.157	6.368	26.380	1.00	52.64		C0
ANISOU 5972 C SER B 182	5220	8600	6180	1790	260	110	C0
ATOM 5973 O SER B 182	-70.152	6.594	27.089	1.00	54.23		O0
ANISOU 5973 O SER B 182	5280	8940	6380	1960	370	130	O0
ATOM 5974 CB SER B 182	-70.282	4.823	24.737	1.00	53.76		C0
ANISOU 5974 CB SER B 182	4880	9140	6410	1570	80	120	C0
ATOM 5975 OG SER B 182	-70.361	5.855	23.768	1.00	55.18		O0
ANISOU 5975 OG SER B 182	5140	9300	6520	1770	-20	160	O0
ATOM 5976 H SER B 182	-69.722	3.942	27.201	1.00	51.74		H0
ANISOU 5976 H SER B 182	4730	8730	6200	1390	350	70	H0
ATOM 5977 HA SER B 182	-68.268	5.016	25.082	1.00	50.49		H0
ANISOU 5977 HA SER B 182	4900	8320	5960	1420	100	70	H0
ATOM 5978 HB2 SER B 182	-70.201	3.952	24.285	1.00	53.39		H0
ANISOU 5978 HB2 SER B 182	4730	9150	6400	1370	20	100	H0
ATOM 5979 HB3 SER B 182	-71.104	4.814	25.278	1.00	55.27		H0
ANISOU 5979 HB3 SER B 182	4900	9480	6620	1650	150	140	H0
ATOM 5980 N VAL B 183	-68.108	7.186	26.257	1.00	52.11		N0
ANISOU 5980 N VAL B 183	5470	8270	6050	1820	240	100	N0
ATOM 5981 CA VAL B 183	-67.919	8.448	27.035	1.00	53.27		C0
ANISOU 5981 CA VAL B 183	5880	8230	6130	2040	320	100	C0
ATOM 5982 C VAL B 183	-67.669	9.600	26.056	1.00	53.86		C0
ANISOU 5982 C VAL B 183	6150	8180	6140	2200	240	140	C0
ATOM 5983 O VAL B 183	-66.923	9.394	25.081	1.00	52.44		O0
ANISOU 5983 O VAL B 183	6020	7930	5970	2040	130	140	O0
ATOM 5984 CB VAL B 183	-66.759	8.319	28.046	1.00	51.61		C0
ANISOU 5984 CB VAL B 183	5900	7800	5910	1890	380	40	C0
ATOM 5985 CG1 VAL B 183	-66.577	9.595	28.858	1.00	52.68		C0
ANISOU 5985 CG1 VAL B 183	6330	7730	5960	2090	460	20	C0
ATOM 5986 CG2 VAL B 183	-66.934	7.121	28.968	1.00	51.01		C0
ANISOU 5986 CG2 VAL B 183	5660	7830	5880	1730	460	10	C0
ATOM 5987 H VAL B 183	-67.427	7.021	25.675	1.00	50.99		H0
ANISOU 5987 H VAL B 183	5410	8050	5910	1700	170	90	H0
ATOM 5988 HA VAL B 183	-68.738	8.633	27.527	1.00	54.59		H0
ANISOU 5988 HA VAL B 183	5940	8510	6290	2190	400	110	H0
ATOM 5989 HB VAL B 183	-65.931	8.176	27.524	1.00	50.37		H0
ANISOU 5989 HB VAL B 183	5840	7540	5760	1740	310	30	H0
ATOM 5990 HG11 VAL B 183	-66.166	10.280	28.302	1.00	52.69		H0
ANISOU 5990 HG11 VAL B 183	6480	7610	5930	2130	400	40	H0
ATOM 5991 HG12 VAL B 183	-66.003	9.415	29.623	1.00	51.88		H0

ANISOU 5991 HG12 VAL B 183	6330	7530	5850	2000	500	-20	H0
ATOM 5992 HG13 VAL B 183	-67.444	9.908	29.170	1.00	54.18		H0
ANISOU 5992 HG13 VAL B 183	6440	8020	6130	2280	520	40	H0
ATOM 5993 HG21 VAL B 183	-67.797	7.178	29.415	1.00	52.34		H0
ANISOU 5993 HG21 VAL B 183	5710	8130	6050	1850	540	30	H0
ATOM 5994 HG22 VAL B 183	-66.225	7.116	29.634	1.00	50.17		H0
ANISOU 5994 HG22 VAL B 183	5710	7590	5760	1660	500	-30	H0
ATOM 5995 HG23 VAL B 183	-66.893	6.300	28.447	1.00	50.31		H0
ANISOU 5995 HG23 VAL B 183	5440	7830	5840	1570	410	10	H0
ATOM 5996 N THR B 184	-68.268	10.763	26.329	1.00	56.50		N0
ANISOU 5996 N THR B 184	6590	8470	6410	2500	290	170	N0
ATOM 5997 CA THR B 184	-67.996	12.060	25.651	1.00	57.94		C0
ANISOU 5997 CA THR B 184	7040	8460	6510	2690	250	210	C0
ATOM 5998 C THR B 184	-67.142	12.922	26.588	1.00	58.06		C0
ANISOU 5998 C THR B 184	7420	8160	6470	2710	320	170	C0
ATOM 5999 O THR B 184	-67.552	13.115	27.757	1.00	58.81		O0
ANISOU 5999 O THR B 184	7550	8250	6540	2830	440	140	O0
ATOM 6000 CB THR B 184	-69.302	12.748	25.239	1.00	60.77		C0
ANISOU 6000 CB THR B 184	7270	8990	6830	3030	250	290	C0
ATOM 6001 OG1 THR B 184	-70.002	11.854	24.373	1.00	60.89		O0
ANISOU 6001 OG1 THR B 184	6930	9310	6900	2960	150	320	O0
ATOM 6002 CG2 THR B 184	-69.081	14.070	24.537	1.00	62.28		C0
ANISOU 6002 CG2 THR B 184	7760	8980	6930	3240	200	340	C0
ATOM 6003 H THR B 184	-68.908	10.843	26.972	1.00	57.52		H0
ANISOU 6003 H THR B 184	6640	8680	6530	2630	370	170	H0
ATOM 6004 HA THR B 184	-67.474	11.873	24.837	1.00	57.01		H0
ANISOU 6004 HA THR B 184	6940	8310	6400	2560	160	230	H0
ATOM 6005 HB THR B 184	-69.844	12.902	26.050	1.00	61.80		H0
ANISOU 6005 HB THR B 184	7360	9170	6950	3170	340	280	H0
ATOM 6006 HG21 THR B 184	-68.754	14.729	25.175	1.00	62.49		H0
ANISOU 6006 HG21 THR B 184	8020	8810	6920	3310	270	320	H0
ATOM 6007 HG22 THR B 184	-69.923	14.380	24.156	1.00	63.91		H0
ANISOU 6007 HG22 THR B 184	7850	9320	7110	3460	190	400	H0
ATOM 6008 HG23 THR B 184	-68.427	13.956	23.825	1.00	61.13		H0
ANISOU 6008 HG23 THR B 184	7680	8760	6790	3100	130	350	H0
ATOM 6009 N TYR B 185	-65.991	13.393	26.096	1.00	56.96		N0
ANISOU 6009 N TYR B 185	7550	7780	6310	2570	260	170	N0
ATOM 6010 CA TYR B 185	-64.977	14.158	26.868	1.00	56.80		C0
ANISOU 6010 CA TYR B 185	7880	7450	6250	2510	300	110	C0
ATOM 6011 C TYR B 185	-64.978	15.624	26.420	1.00	59.76		C0
ANISOU 6011 C TYR B 185	8570	7600	6540	2730	300	160	C0
ATOM 6012 O TYR B 185	-65.605	15.946	25.393	1.00	60.86		O0
ANISOU 6012 O TYR B 185	8640	7830	6650	2900	250	240	O0
ATOM 6013 CB TYR B 185	-63.595	13.534	26.689	1.00	53.39		C0
ANISOU 6013 CB TYR B 185	7500	6920	5870	2170	240	80	C0
ATOM 6014 CG TYR B 185	-63.484	12.095	27.126	1.00	51.05		C0
ANISOU 6014 CG TYR B 185	6950	6800	5640	1960	250	30	C0
ATOM 6015 CD1 TYR B 185	-63.196	11.763	28.441	1.00	49.86		C0
ANISOU 6015 CD1 TYR B 185	6840	6610	5490	1880	310	-30	C0
ATOM 6016 CD2 TYR B 185	-63.637	11.060	26.215	1.00	49.68		C0
ANISOU 6016 CD2 TYR B 185	6520	6820	5530	1830	180	60	C0
ATOM 6017 CE1 TYR B 185	-63.076	10.441	28.842	1.00	48.43		C0
ANISOU 6017 CE1 TYR B 185	6460	6570	5370	1690	330	-60	C0
ATOM 6018 CE2 TYR B 185	-63.520	9.734	26.598	1.00	47.93		C0

ANISOU 6018	CE2 TYR B 185	6100	6740	5370	1630	190	20	C0
ATOM 6019	CZ TYR B 185	-63.234	9.423	27.916	1.00	47.16		C0
ANISOU 6019	CZ TYR B 185	6050	6590	5280	1570	270	-40	C0
ATOM 6020	OH TYR B 185	-63.115	8.118	28.292	1.00	45.17		O0
ANISOU 6020	OH TYR B 185	5620	6460	5090	1390	280	-60	O0
ATOM 6021	H TYR B 185	-65.743	13.276	25.228	1.00	56.56		H0
ANISOU 6021	H TYR B 185	7470	7740	6270	2500	190	200	H0
ATOM 6022	HA TYR B 185	-65.217	14.125	27.829	1.00	57.11		H0
ANISOU 6022	HA TYR B 185	7930	7490	6270	2570	380	70	H0
ATOM 6023	HB2 TYR B 185	-63.351	13.594	25.742	1.00	53.28		H0
ANISOU 6023	HB2 TYR B 185	7490	6900	5860	2120	180	120	H0
ATOM 6024	HB3 TYR B 185	-62.948	14.067	27.197	1.00	53.56		H0
ANISOU 6024	HB3 TYR B 185	7750	6740	5860	2120	260	40	H0
ATOM 6025	HD1 TYR B 185	-63.081	12.450	29.077	1.00	50.79		H0
ANISOU 6025	HD1 TYR B 185	7150	6590	5560	1960	350	-60	H0
ATOM 6026	HD2 TYR B 185	-63.826	11.263	25.314	1.00	50.07		H0
ANISOU 6026	HD2 TYR B 185	6540	6910	5570	1880	130	100	H0
ATOM 6027	HE1 TYR B 185	-62.881	10.235	29.741	1.00	48.14		H0
ANISOU 6027	HE1 TYR B 185	6460	6500	5330	1660	370	-100	H0
ATOM 6028	HE2 TYR B 185	-63.629	9.045	25.964	1.00	47.42		H0
ANISOU 6028	HE2 TYR B 185	5880	6790	5350	1550	140	30	H0
ATOM 6029	N SER B 186	-64.278	16.478	27.175	1.00	61.84		N0
ANISOU 6029	N SER B 186	9180	7570	6750	2720	340	110	N0
ATOM 6030	CA SER B 186	-64.258	17.957	27.010	1.00	64.84		C0
ANISOU 6030	CA SER B 186	9920	7680	7040	2930	360	140	C0
ATOM 6031	C SER B 186	-63.607	18.355	25.678	1.00	64.98		C0
ANISOU 6031	C SER B 186	10060	7580	7050	2830	270	220	C0
ATOM 6032	O SER B 186	-63.974	19.420	25.157	1.00	67.49		O0
ANISOU 6032	O SER B 186	10590	7760	7300	3060	270	290	O0
ATOM 6033	CB SER B 186	-63.572	18.624	28.179	1.00	65.78		C0
ANISOU 6033	CB SER B 186	10380	7510	7100	2870	410	50	C0
ATOM 6034	OG SER B 186	-62.279	18.078	28.395	1.00	64.28		O0
ANISOU 6034	OG SER B 186	10210	7250	6970	2500	350	0	O0
ATOM 6035	H SER B 186	-63.747	16.204	27.863	1.00	60.77		H0
ANISOU 6035	H SER B 186	9080	7380	6630	2580	360	50	H0
ATOM 6036	HA SER B 186	-65.203	18.269	26.990	1.00	66.35		H0
ANISOU 6036	HA SER B 186	10060	7960	7190	3190	390	180	H0
ATOM 6037	HB2 SER B 186	-63.495	19.589	28.004	1.00	67.27		H0
ANISOU 6037	HB2 SER B 186	10830	7500	7230	2980	420	70	H0
ATOM 6038	HB3 SER B 186	-64.118	18.503	28.989	1.00	66.33		H0
ANISOU 6038	HB3 SER B 186	10400	7650	7150	3000	480	20	H0
ATOM 6039	N CYS B 187	-62.684	17.539	25.150	1.00	63.95		N0
ANISOU 6039	N CYS B 187	9810	7500	6990	2510	200	220	N0
ATOM 6040	CA CYS B 187	-61.899	17.828	23.915	1.00	63.93		C0
ANISOU 6040	CA CYS B 187	9920	7390	6980	2370	130	290	C0
ATOM 6041	C CYS B 187	-62.821	17.929	22.695	1.00	64.65		C0
ANISOU 6041	C CYS B 187	9890	7640	7040	2590	80	390	C0
ATOM 6042	O CYS B 187	-62.569	18.791	21.838	1.00	65.52		O0
ANISOU 6042	O CYS B 187	10220	7580	7090	2650	60	470	O0
ATOM 6043	CB CYS B 187	-60.845	16.760	23.629	1.00	61.90		C0
ANISOU 6043	CB CYS B 187	9500	7210	6810	2020	80	260	C0
ATOM 6044	SG CYS B 187	-61.515	15.123	23.221	1.00	60.96		S0
ANISOU 6044	SG CYS B 187	8920	7480	6760	1960	40	260	S0
ATOM 6045	H CYS B 187	-62.460	16.737	25.518	1.00	62.33		H0

ANISOU 6045 H CYS B 187	9450	7400	6840	2360	200	170	H0
ATOM 6046 HA CYS B 187	-61.444	18.692	24.038	1.00	64.85		H0
ANISOU 6046 HA CYS B 187	10310	7270	7060	2370	150	290	H0
ATOM 6047 HB2 CYS B 187	-60.289	17.058	22.881	1.00	62.06		H0
ANISOU 6047 HB2 CYS B 187	9620	7140	6820	1930	50	310	H0
ATOM 6048 HB3 CYS B 187	-60.264	16.670	24.411	1.00	61.39		H0
ANISOU 6048 HB3 CYS B 187	9500	7060	6760	1880	100	200	H0
ATOM 6049 N CYS B 188	-63.839	17.067	22.633	1.00	64.68		N0
ANISOU 6049 N CYS B 188	9540	7960	7070	2700	70	390	N0
ATOM 6050 CA CYS B 188	-64.427	16.549	21.369	1.00	64.54		C0
ANISOU 6050 CA CYS B 188	9290	8180	7050	2750	-20	460	C0
ATOM 6051 C CYS B 188	-65.952	16.446	21.477	1.00	65.07		C0
ANISOU 6051 C CYS B 188	9100	8510	7100	3050	-20	490	C0
ATOM 6052 O CYS B 188	-66.484	16.096	22.529	1.00	64.11		O0
ANISOU 6052 O CYS B 188	8840	8500	7020	3100	50	430	O0
ATOM 6053 CB CYS B 188	-63.798	15.193	21.055	1.00	62.87		C0
ANISOU 6053 CB CYS B 188	8850	8120	6920	2430	-70	420	C0
ATOM 6054 SG CYS B 188	-61.987	15.154	21.214	1.00	62.51		S0
ANISOU 6054 SG CYS B 188	9020	7820	6910	2070	-60	380	S0
ATOM 6055 H CYS B 188	-64.253	16.728	23.369	1.00	64.43		H0
ANISOU 6055 H CYS B 188	9400	8020	7070	2730	110	340	H0
ATOM 6056 HA CYS B 188	-64.198	17.176	20.646	1.00	65.30		H0
ANISOU 6056 HA CYS B 188	9550	8170	7100	2800	-50	520	H0
ATOM 6057 HB2 CYS B 188	-64.175	14.520	21.657	1.00	62.45		H0
ANISOU 6057 HB2 CYS B 188	8610	8210	6910	2400	-50	370	H0
ATOM 6058 HB3 CYS B 188	-64.031	14.939	20.140	1.00	63.17		H0
ANISOU 6058 HB3 CYS B 188	8780	8280	6940	2440	-140	460	H0
ATOM 6059 N PRO B 189	-66.712	16.759	20.399	1.00	66.14		N0
ANISOU 6059 N PRO B 189	9170	8780	7180	3270	-90	580	N0
ATOM 6060 CA PRO B 189	-68.160	16.530	20.383	1.00	67.35		C0
ANISOU 6060 CA PRO B 189	9010	9250	7330	3520	-110	600	C0
ATOM 6061 C PRO B 189	-68.589	15.057	20.243	1.00	65.29		C0
ANISOU 6061 C PRO B 189	8330	9320	7160	3330	-170	560	C0
ATOM 6062 O PRO B 189	-69.694	14.741	20.647	1.00	66.18		O0
ANISOU 6062 O PRO B 189	8160	9680	7300	3480	-150	560	O0
ATOM 6063 CB PRO B 189	-68.639	17.333	19.161	1.00	69.40		C0
ANISOU 6063 CB PRO B 189	9360	9520	7490	3790	-200	720	C0
ATOM 6064 CG PRO B 189	-67.438	17.378	18.244	1.00	68.28		C0
ANISOU 6064 CG PRO B 189	9440	9190	7320	3550	-250	750	C0
ATOM 6065 CD PRO B 189	-66.231	17.394	19.162	1.00	66.30		C0
ANISOU 6065 CD PRO B 189	9400	8670	7120	3280	-160	670	C0
ATOM 6066 HA PRO B 189	-68.559	16.918	21.202	1.00	68.19		H0
ANISOU 6066 HA PRO B 189	9160	9320	7430	3680	-30	590	H0
ATOM 6067 HB2 PRO B 189	-69.396	16.889	18.722	1.00	70.15		H0
ANISOU 6067 HB2 PRO B 189	9200	9870	7590	3860	-260	740	H0
ATOM 6068 HB3 PRO B 189	-68.912	18.238	19.422	1.00	71.12		H0
ANISOU 6068 HB3 PRO B 189	9760	9610	7650	4020	-140	750	H0
ATOM 6069 HG2 PRO B 189	-67.418	16.592	17.661	1.00	67.30		H0
ANISOU 6069 HG2 PRO B 189	9130	9230	7220	3410	-320	740	H0
ATOM 6070 HG3 PRO B 189	-67.458	18.182	17.686	1.00	69.61		H0
ANISOU 6070 HG3 PRO B 189	9800	9240	7410	3710	-270	820	H0
ATOM 6071 HD2 PRO B 189	-65.493	16.888	18.775	1.00	64.93		H0
ANISOU 6071 HD2 PRO B 189	9220	8470	6980	3050	-190	650	H0
ATOM 6072 HD3 PRO B 189	-65.934	18.306	19.333	1.00	67.35		H0

ANISOU 6072	HD3 PRO B 189	9810	8570	7210	3370	-110	690	H0
ATOM 6073	N GLU B 190	-67.729	14.196	19.687	1.00	62.41		N0
ANISOU 6073	N GLU B 190	7930	8950	6830	3010	-240	530	N0
ATOM 6074	CA GLU B 190	-68.055	12.773	19.378	1.00	60.73		C0
ANISOU 6074	CA GLU B 190	7360	9020	6690	2810	-310	480	C0
ATOM 6075	C GLU B 190	-67.686	11.889	20.578	1.00	57.66		C0
ANISOU 6075	C GLU B 190	6880	8630	6400	2580	-220	390	C0
ATOM 6076	O GLU B 190	-66.738	12.238	21.315	1.00	56.41		O0
ANISOU 6076	O GLU B 190	6970	8220	6250	2490	-140	350	O0
ATOM 6077	CB GLU B 190	-67.334	12.268	18.123	1.00	59.94		C0
ANISOU 6077	CB GLU B 190	7290	8920	6560	2600	-420	490	C0
ATOM 6078	CG GLU B 190	-67.183	13.303	17.018	1.00	61.67		C0
ANISOU 6078	CG GLU B 190	7740	9020	6670	2780	-480	590	C0
ATOM 6079	CD GLU B 190	-65.895	14.107	17.087	1.00	61.57		C0
ANISOU 6079	CD GLU B 190	8110	8660	6620	2690	-410	610	C0
ATOM 6080	OE1 GLU B 190	-65.198	14.014	18.120	1.00	60.83		O0
ANISOU 6080	OE1 GLU B 190	8100	8410	6600	2540	-320	540	O0
ATOM 6081	OE2 GLU B 190	-65.588	14.827	16.112	1.00	63.02		O0
ANISOU 6081	OE2 GLU B 190	8500	8730	6710	2770	-450	690	O0
ATOM 6082	H GLU B 190	-66.871	14.424	19.491	1.00	61.59		H0
ANISOU 6082	H GLU B 190	8020	8670	6710	2900	-230	530	H0
ATOM 6083	HA GLU B 190	-69.026	12.706	19.229	1.00	62.11		H0
ANISOU 6083	HA GLU B 190	7340	9400	6860	2960	-340	510	H0
ATOM 6084	HB2 GLU B 190	-66.445	11.948	18.382	1.00	58.27		H0
ANISOU 6084	HB2 GLU B 190	7180	8580	6390	2400	-380	450	H0
ATOM 6085	HB3 GLU B 190	-67.833	11.503	17.768	1.00	60.02		H0
ANISOU 6085	HB3 GLU B 190	7070	9140	6590	2540	-490	480	H0
ATOM 6086	HG2 GLU B 190	-67.219	12.848	16.150	1.00	61.72		H0
ANISOU 6086	HG2 GLU B 190	7660	9150	6640	2710	-570	600	H0
ATOM 6087	HG3 GLU B 190	-67.941	13.925	17.057	1.00	63.53		H0
ANISOU 6087	HG3 GLU B 190	7970	9310	6860	3020	-480	640	H0
ATOM 6088	N ALA B 191	-68.415	10.784	20.756	1.00	56.20		N0
ANISOU 6088	N ALA B 191	6360	8710	6280	2480	-240	360	N0
ATOM 6089	CA ALA B 191	-68.180	9.767	21.806	1.00	53.48		C0
ANISOU 6089	CA ALA B 191	5900	8390	6030	2260	-160	280	C0
ATOM 6090	C ALA B 191	-66.969	8.904	21.429	1.00	50.37		C0
ANISOU 6090	C ALA B 191	5590	7890	5660	1940	-200	230	C0
ATOM 6091	O ALA B 191	-66.813	8.578	20.235	1.00	49.50		O0
ANISOU 6091	O ALA B 191	5440	7840	5530	1860	-310	250	O0
ATOM 6092	CB ALA B 191	-69.417	8.925	21.996	1.00	54.47		C0
ANISOU 6092	CB ALA B 191	5650	8830	6210	2270	-160	270	C0
ATOM 6093	H ALA B 191	-69.126	10.572	20.226	1.00	57.29		H0
ANISOU 6093	H ALA B 191	6320	9030	6410	2550	-300	380	H0
ATOM 6094	HA ALA B 191	-67.981	10.233	22.651	1.00	53.49		H0
ANISOU 6094	HA ALA B 191	6040	8260	6020	2320	-70	270	H0
ATOM 6095	HB1 ALA B 191	-69.278	8.303	22.729	1.00	53.66		H0
ANISOU 6095	HB1 ALA B 191	5500	8730	6160	2130	-90	230	H0
ATOM 6096	HB2 ALA B 191	-70.174	9.500	22.199	1.00	56.19		H0
ANISOU 6096	HB2 ALA B 191	5810	9130	6410	2490	-130	310	H0
ATOM 6097	HB3 ALA B 191	-69.601	8.427	21.181	1.00	54.62		H0
ANISOU 6097	HB3 ALA B 191	5540	8980	6230	2190	-260	280	H0
ATOM 6098	N TYR B 192	-66.143	8.556	22.420	1.00	47.78		N0
ANISOU 6098	N TYR B 192	5360	7420	5380	1780	-110	170	N0
ATOM 6099	CA TYR B 192	-65.030	7.577	22.310	1.00	44.99		C0

ANISOU 6099 CA TYR B 192	5040	6990	5070	1480	-130	130	C0
ATOM 6100 C TYR B 192	-65.397	6.341	23.136	1.00	44.20		C0
ANISOU 6100 C TYR B 192	4730	7020	5040	1330	-80	70	C0
ATOM 6101 O TYR B 192	-66.085	6.485	24.178	1.00	45.22		O0
ANISOU 6101 O TYR B 192	4790	7210	5190	1440	10	70	O0
ATOM 6102 CB TYR B 192	-63.704	8.217	22.730	1.00	43.77		C0
ANISOU 6102 CB TYR B 192	5180	6560	4890	1420	-90	110	C0
ATOM 6103 CG TYR B 192	-63.114	9.135	21.688	1.00	44.12		C0
ANISOU 6103 CG TYR B 192	5430	6460	4870	1470	-150	170	C0
ATOM 6104 CD1 TYR B 192	-63.579	10.431	21.526	1.00	45.70		C0
ANISOU 6104 CD1 TYR B 192	5780	6580	5000	1710	-140	220	C0
ATOM 6105 CD2 TYR B 192	-62.103	8.705	20.844	1.00	42.97		C0
ANISOU 6105 CD2 TYR B 192	5340	6260	4720	1280	-190	170	C0
ATOM 6106 CE1 TYR B 192	-63.051	11.278	20.566	1.00	46.13		C0
ANISOU 6106 CE1 TYR B 192	6040	6500	4990	1750	-180	280	C0
ATOM 6107 CE2 TYR B 192	-61.562	9.539	19.877	1.00	43.44		C0
ANISOU 6107 CE2 TYR B 192	5590	6200	4720	1320	-230	230	C0
ATOM 6108 CZ TYR B 192	-62.038	10.830	19.736	1.00	45.14		C0
ANISOU 6108 CZ TYR B 192	5960	6320	4870	1550	-220	290	C0
ATOM 6109 OH TYR B 192	-61.511	11.654	18.782	1.00	46.30		O0
ANISOU 6109 OH TYR B 192	6310	6340	4950	1580	-250	360	O0
ATOM 6110 H TYR B 192	-66.208	8.906	23.259	1.00	48.10		H0
ANISOU 6110 H TYR B 192	5460	7390	5420	1850	-40	160	H0
ATOM 6111 HA TYR B 192	-64.953	7.300	21.362	1.00	44.96		H0
ANISOU 6111 HA TYR B 192	5000	7040	5050	1430	-210	140	H0
ATOM 6112 HB2 TYR B 192	-63.850	8.725	23.555	1.00	44.27		H0
ANISOU 6112 HB2 TYR B 192	5320	6550	4950	1510	-30	110	H0
ATOM 6113 HB3 TYR B 192	-63.061	7.503	22.926	1.00	42.51		H0
ANISOU 6113 HB3 TYR B 192	5010	6370	4770	1240	-80	80	H0
ATOM 6114 HD1 TYR B 192	-64.270	10.745	22.086	1.00	46.70		H0
ANISOU 6114 HD1 TYR B 192	5870	6750	5130	1860	-100	220	H0
ATOM 6115 HD2 TYR B 192	-61.772	7.826	20.931	1.00	41.89		H0
ANISOU 6115 HD2 TYR B 192	5120	6170	4630	1130	-200	130	H0
ATOM 6116 HE1 TYR B 192	-63.381	12.156	20.475	1.00	47.52		H0
ANISOU 6116 HE1 TYR B 192	6330	6610	5120	1930	-170	330	H0
ATOM 6117 HE2 TYR B 192	-60.872	9.227	19.315	1.00	42.71		H0
ANISOU 6117 HE2 TYR B 192	5530	6080	4620	1190	-250	230	H0
ATOM 6118 N GLU B 193	-64.993	5.161	22.662	1.00	41.91		N0
ANISOU 6118 N GLU B 193	4350	6780	4790	1110	-130	40	N0
ATOM 6119 CA GLU B 193	-65.336	3.860	23.289	1.00	41.51		C0
ANISOU 6119 CA GLU B 193	4120	6850	4810	940	-90	0	C0
ATOM 6120 C GLU B 193	-64.073	3.209	23.866	1.00	39.68		C0
ANISOU 6120 C GLU B 193	4030	6450	4600	750	-50	-50	C0
ATOM 6121 O GLU B 193	-62.986	3.412	23.309	1.00	38.19		O0
ANISOU 6121 O GLU B 193	4000	6120	4390	690	-90	-50	O0
ATOM 6122 CB GLU B 193	-66.032	2.945	22.282	1.00	41.53		C0
ANISOU 6122 CB GLU B 193	3900	7050	4830	840	-190	-10	C0
ATOM 6123 CG GLU B 193	-67.435	3.400	21.932	1.00	43.50		C0
ANISOU 6123 CG GLU B 193	3940	7520	5070	1020	-230	30	C0
ATOM 6124 CD GLU B 193	-68.227	2.420	21.087	1.00	44.17		C0
ANISOU 6124 CD GLU B 193	3780	7830	5180	890	-340	10	C0
ATOM 6125 OE1 GLU B 193	-67.693	1.339	20.805	1.00	42.71		O0
ANISOU 6125 OE1 GLU B 193	3610	7600	5020	650	-370	-40	O0
ATOM 6126 OE2 GLU B 193	-69.385	2.734	20.729	1.00	46.64		O0

ANISOU 6126 OE2 GLU B 193	3880	8350	5480	1020	-400	40	O0
ATOM 6127 H GLU B 193	-64.475	5.084	21.917	1.00	41.65		H0
ANISOU 6127 H GLU B 193	4380	6710	4740	1040	-190	40	H0
ATOM 6128 HA GLU B 193	-65.958	4.034	24.030	1.00	42.21		H0
ANISOU 6128 HA GLU B 193	4130	6990	4910	1030	-20	0	H0
ATOM 6129 HB2 GLU B 193	-65.493	2.908	21.465	1.00	41.09		H0
ANISOU 6129 HB2 GLU B 193	3930	6940	4750	790	-260	-20	H0
ATOM 6130 HB3 GLU B 193	-66.075	2.042	22.659	1.00	41.28		H0
ANISOU 6130 HB3 GLU B 193	3790	7050	4850	690	-160	-40	H0
ATOM 6131 HG2 GLU B 193	-67.932	3.565	22.762	1.00	44.11		H0
ANISOU 6131 HG2 GLU B 193	3950	7640	5170	1090	-150	40	H0
ATOM 6132 HG3 GLU B 193	-67.380	4.251	21.448	1.00	43.91		H0
ANISOU 6132 HG3 GLU B 193	4080	7530	5070	1160	-270	60	H0
ATOM 6133 N ASP B 194	-64.230	2.467	24.965	1.00	40.08		N0
ANISOU 6133 N ASP B 194	4010	6520	4700	660	40	-70	N0
ATOM 6134 CA ASP B 194	-63.145	1.684	25.610	1.00	39.07		C0
ANISOU 6134 CA ASP B 194	3990	6260	4590	490	80	-110	C0
ATOM 6135 C ASP B 194	-63.729	0.365	26.124	1.00	39.18		C0
ANISOU 6135 C ASP B 194	3840	6390	4660	350	130	-120	C0
ATOM 6136 O ASP B 194	-64.954	0.302	26.353	1.00	40.96		O0
ANISOU 6136 O ASP B 194	3880	6780	4910	410	170	-110	O0
ATOM 6137 CB ASP B 194	-62.467	2.497	26.716	1.00	39.36		C0
ANISOU 6137 CB ASP B 194	4220	6140	4590	570	150	-110	C0
ATOM 6138 CG ASP B 194	-63.372	2.809	27.901	1.00	41.65		C0
ANISOU 6138 CG ASP B 194	4460	6490	4870	700	260	-100	C0
ATOM 6139 OD1 ASP B 194	-63.664	1.872	28.679	1.00	42.32		O0
ANISOU 6139 OD1 ASP B 194	4460	6640	4990	610	330	-110	O0
ATOM 6140 OD2 ASP B 194	-63.795	3.980	28.025	1.00	43.36		O0
ANISOU 6140 OD2 ASP B 194	4750	6690	5050	900	280	-80	O0
ATOM 6141 H ASP B 194	-65.031	2.399	25.394	1.00	40.98		H0
ANISOU 6141 H ASP B 194	4010	6740	4830	710	80	-60	H0
ATOM 6142 HA ASP B 194	-62.468	1.476	24.924	1.00	38.31		H0
ANISOU 6142 HA ASP B 194	3950	6120	4490	410	30	-120	H0
ATOM 6143 HB2 ASP B 194	-61.691	2.001	27.046	1.00	38.48		H0
ANISOU 6143 HB2 ASP B 194	4180	5950	4490	460	160	-130	H0
ATOM 6144 HB3 ASP B 194	-62.151	3.344	26.340	1.00	39.52		H0
ANISOU 6144 HB3 ASP B 194	4350	6090	4580	640	120	-100	H0
ATOM 6145 N VAL B 195	-62.884	-0.657	26.265	1.00	38.25		N0
ANISOU 6145 N VAL B 195	3780	6190	4560	180	140	-150	N0
ATOM 6146 CA VAL B 195	-63.180	-1.864	27.087	1.00	38.16		C0
ANISOU 6146 CA VAL B 195	3700	6210	4590	50	210	-160	C0
ATOM 6147 C VAL B 195	-62.418	-1.695	28.404	1.00	37.02		C0
ANISOU 6147 C VAL B 195	3710	5940	4420	80	300	-160	C0
ATOM 6148 O VAL B 195	-61.192	-1.458	28.355	1.00	35.29		O0
ANISOU 6148 O VAL B 195	3660	5580	4170	60	260	-180	O0
ATOM 6149 CB VAL B 195	-62.835	-3.185	26.371	1.00	38.27		C0
ANISOU 6149 CB VAL B 195	3690	6220	4630	-150	160	-190	C0
ATOM 6150 CG1 VAL B 195	-63.063	-4.393	27.275	1.00	38.89		C0
ANISOU 6150 CG1 VAL B 195	3740	6290	4750	-290	250	-200	C0
ATOM 6151 CG2 VAL B 195	-63.632	-3.344	25.083	1.00	39.51		C0
ANISOU 6151 CG2 VAL B 195	3700	6510	4800	-180	60	-210	C0
ATOM 6152 H VAL B 195	-62.066	-0.679	25.864	1.00	37.27		H0
ANISOU 6152 H VAL B 195	3760	5980	4420	140	100	-160	H0
ATOM 6153 HA VAL B 195	-64.132	-1.868	27.285	1.00	39.35		H0

ANISOU 6153 HA VAL B 195	3710	6480	4760	80	250	-150	H0
ATOM 6154 HB VAL B 195	-61.875	-3.156	26.134	1.00	37.25		H0
ANISOU 6154 HB VAL B 195	3690	5980	4480	-160	140	-210	H0
ATOM 6155 HG11 VAL B 195	-62.339	-4.458	27.921	1.00	38.01		H0
ANISOU 6155 HG11 VAL B 195	3740	6080	4620	-280	290	-190	H0
ATOM 6156 HG12 VAL B 195	-63.088	-5.203	26.736	1.00	38.90		H0
ANISOU 6156 HG12 VAL B 195	3710	6300	4770	-410	220	-220	H0
ATOM 6157 HG13 VAL B 195	-63.909	-4.292	27.745	1.00	39.78		H0
ANISOU 6157 HG13 VAL B 195	3740	6500	4880	-260	310	-180	H0
ATOM 6158 HG21 VAL B 195	-64.582	-3.378	25.290	1.00	40.58		H0
ANISOU 6158 HG21 VAL B 195	3690	6760	4960	-170	80	-190	H0
ATOM 6159 HG22 VAL B 195	-63.368	-4.168	24.637	1.00	39.21		H0
ANISOU 6159 HG22 VAL B 195	3680	6450	4770	-310	30	-230	H0
ATOM 6160 HG23 VAL B 195	-63.456	-2.589	24.496	1.00	39.31		H0
ANISOU 6160 HG23 VAL B 195	3720	6480	4740	-90	10	-200	H0
ATOM 6161 N GLU B 196	-63.143	-1.761	29.522	1.00	37.67		N0
ANISOU 6161 N GLU B 196	3740	6080	4500	120	410	-150	N0
ATOM 6162 CA GLU B 196	-62.589	-1.724	30.901	1.00	37.55		C0
ANISOU 6162 CA GLU B 196	3870	5960	4440	150	500	-140	C0
ATOM 6163 C GLU B 196	-62.475	-3.170	31.383	1.00	35.98		C0
ANISOU 6163 C GLU B 196	3650	5750	4270	-20	550	-140	C0
ATOM 6164 O GLU B 196	-63.525	-3.829	31.517	1.00	36.21		O0
ANISOU 6164 O GLU B 196	3520	5900	4340	-80	620	-120	O0
ATOM 6165 CB GLU B 196	-63.486	-0.894	31.825	1.00	40.16		C0
ANISOU 6165 CB GLU B 196	4170	6350	4730	320	600	-120	C0
ATOM 6166 CG GLU B 196	-62.921	-0.707	33.226	1.00	41.70		C0
ANISOU 6166 CG GLU B 196	4550	6440	4860	370	680	-130	C0
ATOM 6167 CD GLU B 196	-63.860	-0.022	34.207	1.00	45.11		C0
ANISOU 6167 CD GLU B 196	4960	6940	5240	540	800	-120	C0
ATOM 6168 OE1 GLU B 196	-65.092	-0.078	33.999	1.00	48.44		O0
ANISOU 6168 OE1 GLU B 196	5180	7530	5700	590	860	-80	O0
ATOM 6169 OE2 GLU B 196	-63.361	0.572	35.179	1.00	48.46		O0
ANISOU 6169 OE2 GLU B 196	5580	7260	5580	630	840	-140	O0
ATOM 6170 H GLU B 196	-64.051	-1.835	29.505	1.00	38.83		H0
ANISOU 6170 H GLU B 196	3750	6340	4670	140	440	-130	H0
ATOM 6171 HA GLU B 196	-61.693	-1.319	30.872	1.00	36.60		H0
ANISOU 6171 HA GLU B 196	3880	5730	4290	160	450	-160	H0
ATOM 6172 HB2 GLU B 196	-63.623	-0.013	31.418	1.00	40.50		H0
ANISOU 6172 HB2 GLU B 196	4230	6400	4760	430	560	-130	H0
ATOM 6173 HB3 GLU B 196	-64.358	-1.333	31.889	1.00	41.22		H0
ANISOU 6173 HB3 GLU B 196	4160	6610	4900	300	650	-100	H0
ATOM 6174 HG2 GLU B 196	-62.681	-1.584	33.592	1.00	41.40		H0
ANISOU 6174 HG2 GLU B 196	4510	6390	4830	260	710	-130	H0
ATOM 6175 HG3 GLU B 196	-62.097	-0.178	33.167	1.00	40.96		H0
ANISOU 6175 HG3 GLU B 196	4590	6240	4730	390	620	-160	H0
ATOM 6176 N VAL B 197	-61.245	-3.644	31.582	1.00	33.87		N0
ANISOU 6176 N VAL B 197	3540	5350	3980	-90	520	-160	N0
ATOM 6177 CA VAL B 197	-60.938	-5.017	32.074	1.00	33.69		C0
ANISOU 6177 CA VAL B 197	3550	5280	3970	-220	570	-150	C0
ATOM 6178 C VAL B 197	-60.589	-4.935	33.563	1.00	33.71		C0
ANISOU 6178 C VAL B 197	3680	5220	3900	-160	660	-130	C0
ATOM 6179 O VAL B 197	-59.583	-4.270	33.901	1.00	33.34		O0
ANISOU 6179 O VAL B 197	3780	5090	3800	-90	610	-150	O0
ATOM 6180 CB VAL B 197	-59.793	-5.650	31.272	1.00	32.61		C0

ANISOU 6180 CB VAL B 197	3490	5050	3840	-310	480	-170	C0
ATOM 6181 CG1 VAL B 197	-59.630	-7.115	31.627	1.00	32.74		C0
ANISOU 6181 CG1 VAL B 197	3550	5010	3870	-440	540	-160	C0
ATOM 6182 CG2 VAL B 197	-59.997	-5.465	29.772	1.00	33.12		C0
ANISOU 6182 CG2 VAL B 197	3470	5170	3940	-340	390	-190	C0
ATOM 6183 H VAL B 197	-60.498	-3.146	31.426	1.00	33.37		H0
ANISOU 6183 H VAL B 197	3570	5220	3900	-50	470	-170	H0
ATOM 6184 HA VAL B 197	-61.733	-5.569	31.969	1.00	34.51		H0
ANISOU 6184 HA VAL B 197	3540	5460	4110	-290	610	-130	H0
ATOM 6185 HB VAL B 197	-58.959	-5.183	31.524	1.00	32.04		H0
ANISOU 6185 HB VAL B 197	3520	4910	3740	-260	460	-180	H0
ATOM 6186 HG11 VAL B 197	-59.261	-7.193	32.524	1.00	32.71		H0
ANISOU 6186 HG11 VAL B 197	3630	4960	3830	-410	580	-140	H0
ATOM 6187 HG12 VAL B 197	-59.026	-7.538	30.993	1.00	32.23		H0
ANISOU 6187 HG12 VAL B 197	3530	4900	3820	-490	480	-170	H0
ATOM 6188 HG13 VAL B 197	-60.495	-7.556	31.594	1.00	33.65		H0
ANISOU 6188 HG13 VAL B 197	3570	5190	4020	-500	580	-150	H0
ATOM 6189 HG21 VAL B 197	-60.922	-5.661	29.543	1.00	33.76		H0
ANISOU 6189 HG21 VAL B 197	3440	5340	4060	-370	400	-190	H0
ATOM 6190 HG22 VAL B 197	-59.410	-6.069	29.287	1.00	32.46		H0
ANISOU 6190 HG22 VAL B 197	3430	5030	3870	-410	350	-210	H0
ATOM 6191 HG23 VAL B 197	-59.791	-4.547	29.526	1.00	32.64		H0
ANISOU 6191 HG23 VAL B 197	3430	5100	3870	-260	350	-200	H0
ATOM 6192 N SER B 198	-61.396	-5.574	34.411	1.00	34.06		N0
ANISOU 6192 N SER B 198	3680	5320	3940	-190	780	-90	N0
ATOM 6193 CA SER B 198	-61.235	-5.597	35.889	1.00	34.57		C0
ANISOU 6193 CA SER B 198	3870	5340	3930	-130	880	-70	C0
ATOM 6194 C SER B 198	-60.587	-6.922	36.297	1.00	34.36		C0
ANISOU 6194 C SER B 198	3940	5220	3890	-240	900	-40	C0
ATOM 6195 O SER B 198	-61.278	-7.960	36.245	1.00	35.22		O0
ANISOU 6195 O SER B 198	3970	5370	4040	-370	980	-10	O0
ATOM 6196 CB SER B 198	-62.550	-5.375	36.594	1.00	36.36		C0
ANISOU 6196 CB SER B 198	3990	5690	4140	-70	1020	-30	C0
ATOM 6197 OG SER B 198	-63.052	-4.071	36.323	1.00	36.74		O0
ANISOU 6197 OG SER B 198	3970	5810	4180	80	1000	-50	O0
ATOM 6198 H SER B 198	-62.121	-6.054	34.138	1.00	34.95		H0
ANISOU 6198 H SER B 198	3670	5500	4100	-260	810	-80	H0
ATOM 6199 HA SER B 198	-60.619	-4.859	36.143	1.00	34.09		H0
ANISOU 6199 HA SER B 198	3910	5230	3820	-40	840	-90	H0
ATOM 6200 HB2 SER B 198	-63.200	-6.047	36.292	1.00	37.00		H0
ANISOU 6200 HB2 SER B 198	3940	5840	4280	-170	1060	-10	H0
ATOM 6201 HB3 SER B 198	-62.424	-5.484	37.564	1.00	36.72		H0
ANISOU 6201 HB3 SER B 198	4130	5700	4120	-30	1090	-10	H0
ATOM 6202 N LEU B 199	-59.301	-6.868	36.653	1.00	33.25		N0
ANISOU 6202 N LEU B 199	3970	4980	3690	-210	840	-60	N0
ATOM 6203 CA LEU B 199	-58.486	-8.021	37.098	1.00	33.70		C0
ANISOU 6203 CA LEU B 199	4150	4940	3720	-270	840	-30	C0
ATOM 6204 C LEU B 199	-58.517	-8.065	38.629	1.00	34.09		C0
ANISOU 6204 C LEU B 199	4320	4970	3660	-190	940	10	C0
ATOM 6205 O LEU B 199	-57.834	-7.241	39.255	1.00	33.60		O0
ANISOU 6205 O LEU B 199	4370	4880	3510	-80	890	-10	O0
ATOM 6206 CB LEU B 199	-57.062	-7.850	36.559	1.00	33.67		C0
ANISOU 6206 CB LEU B 199	4220	4860	3710	-250	710	-60	C0
ATOM 6207 CG LEU B 199	-56.020	-8.839	37.080	1.00	34.81		C0

ANISOU 6207 CG LEU B 199	4500	4920	3800	-250	700	-30	C0
ATOM 6208 CD1 LEU B 199	-56.370	-10.267	36.677	1.00	35.81		C0
ANISOU 6208 CD1 LEU B 199	4620	5000	3980	-370	760	0	C0
ATOM 6209 CD2 LEU B 199	-54.635	-8.459	36.576	1.00	34.64		C0
ANISOU 6209 CD2 LEU B 199	4510	4870	3780	-220	560	-60	C0
ATOM 6210 H LEU B 199	-58.835	-6.085	36.646	1.00	32.96		H0
ANISOU 6210 H LEU B 199	3980	4920	3630	-140	780	-80	H0
ATOM 6211 HA LEU B 199	-58.882	-8.849	36.740	1.00	34.07		H0
ANISOU 6211 HA LEU B 199	4150	4990	3810	-360	880	-10	H0
ATOM 6212 HB2 LEU B 199	-57.094	-7.923	35.584	1.00	33.22		H0
ANISOU 6212 HB2 LEU B 199	4090	4820	3710	-300	660	-80	H0
ATOM 6213 HB3 LEU B 199	-56.760	-6.946	36.775	1.00	33.40		H0
ANISOU 6213 HB3 LEU B 199	4220	4830	3640	-170	660	-80	H0
ATOM 6214 HG LEU B 199	-56.012	-8.791	38.065	1.00	35.33		H0
ANISOU 6214 HG LEU B 199	4650	4980	3800	-200	740	-10	H0
ATOM 6215 HD11 LEU B 199	-57.170	-10.553	37.153	1.00	36.49		H0
ANISOU 6215 HD11 LEU B 199	4700	5110	4060	-400	850	30	H0
ATOM 6216 HD12 LEU B 199	-55.631	-10.858	36.902	1.00	35.61		H0
ANISOU 6216 HD12 LEU B 199	4690	4910	3920	-350	740	20	H0
ATOM 6217 HD13 LEU B 199	-56.534	-10.303	35.718	1.00	35.30		H0
ANISOU 6217 HD13 LEU B 199	4480	4950	3980	-420	720	-30	H0
ATOM 6218 HD21 LEU B 199	-54.628	-8.474	35.604	1.00	33.91		H0
ANISOU 6218 HD21 LEU B 199	4350	4780	3750	-260	530	-80	H0
ATOM 6219 HD22 LEU B 199	-53.981	-9.095	36.915	1.00	34.48		H0
ANISOU 6219 HD22 LEU B 199	4570	4800	3730	-200	550	-40	H0
ATOM 6220 HD23 LEU B 199	-54.410	-7.565	36.888	1.00	34.25		H0
ANISOU 6220 HD23 LEU B 199	4480	4830	3700	-160	520	-80	H0
ATOM 6221 N ASN B 200	-59.329	-8.963	39.191	1.00	34.88		N0
ANISOU 6221 N ASN B 200	4410	5090	3750	-260	1080	70	N0
ATOM 6222 CA ASN B 200	-59.379	-9.265	40.645	1.00	35.59		C0
ANISOU 6222 CA ASN B 200	4640	5150	3730	-200	1190	120	C0
ATOM 6223 C ASN B 200	-58.388	-10.405	40.893	1.00	34.78		C0
ANISOU 6223 C ASN B 200	4690	4930	3590	-240	1160	160	C0
ATOM 6224 O ASN B 200	-58.622	-11.513	40.383	1.00	34.90		O0
ANISOU 6224 O ASN B 200	4680	4900	3670	-370	1200	190	O0
ATOM 6225 CB ASN B 200	-60.806	-9.588	41.096	1.00	37.43		C0
ANISOU 6225 CB ASN B 200	4770	5480	3980	-250	1370	180	C0
ATOM 6226 CG ASN B 200	-60.943	-9.836	42.587	1.00	39.04		C0
ANISOU 6226 CG ASN B 200	5120	5660	4050	-180	1510	250	C0
ATOM 6227 OD1 ASN B 200	-61.865	-10.524	43.014	1.00	40.25		O0
ANISOU 6227 OD1 ASN B 200	5230	5860	4210	-260	1680	320	O0
ATOM 6228 ND2 ASN B 200	-60.053	-9.266	43.386	1.00	38.90		N0
ANISOU 6228 ND2 ASN B 200	5280	5600	3900	-40	1450	220	N0
ATOM 6229 H ASN B 200	-59.917	-9.457	38.701	1.00	35.25		H0
ANISOU 6229 H ASN B 200	4360	5160	3870	-350	1110	80	H0
ATOM 6230 HA ASN B 200	-59.081	-8.468	41.136	1.00	35.46		H0
ANISOU 6230 HA ASN B 200	4690	5140	3640	-90	1160	100	H0
ATOM 6231 HB2 ASN B 200	-61.389	-8.843	40.846	1.00	37.58		H0
ANISOU 6231 HB2 ASN B 200	4680	5580	4020	-210	1380	160	H0
ATOM 6232 HB3 ASN B 200	-61.113	-10.383	40.615	1.00	37.72		H0
ANISOU 6232 HB3 ASN B 200	4740	5500	4080	-370	1400	200	H0
ATOM 6233 HD21 ASN B 200	-59.586	-9.759	43.951	1.00	39.11		H0
ANISOU 6233 HD21 ASN B 200	5430	5560	3860	-30	1460	250	H0
ATOM 6234 HD22 ASN B 200	-59.927	-8.392	43.356	1.00	38.46		H0

ANISOU 6234	HD22 ASN B 200	5220	5560	3830	40	1400	180	H0
ATOM 6235	N PHE B 201	-57.294	-10.119	41.595	1.00	34.24		N0
ANISOU 6235	N PHE B 201	4780	4810	3420	-130	1090	150	N0
ATOM 6236	CA PHE B 201	-56.172	-11.059	41.833	1.00	34.50		C0
ANISOU 6236	CA PHE B 201	4960	4750	3400	-120	1030	190	C0
ATOM 6237	C PHE B 201	-55.633	-10.855	43.252	1.00	35.70		C0
ANISOU 6237	C PHE B 201	5280	4890	3390	10	1040	210	C0
ATOM 6238	O PHE B 201	-55.924	-9.799	43.866	1.00	36.21		O0
ANISOU 6238	O PHE B 201	5360	5010	3380	90	1040	180	O0
ATOM 6239	CB PHE B 201	-55.080	-10.855	40.778	1.00	33.25		C0
ANISOU 6239	CB PHE B 201	4750	4570	3310	-120	870	130	C0
ATOM 6240	CG PHE B 201	-54.274	-9.594	40.947	1.00	32.55		C0
ANISOU 6240	CG PHE B 201	4670	4520	3170	-30	740	70	C0
ATOM 6241	CD1 PHE B 201	-54.778	-8.370	40.539	1.00	32.38		C0
ANISOU 6241	CD1 PHE B 201	4560	4560	3190	-20	720	20	C0
ATOM 6242	CD2 PHE B 201	-53.013	-9.630	41.516	1.00	32.80		C0
ANISOU 6242	CD2 PHE B 201	4810	4530	3120	50	640	80	C0
ATOM 6243	CE1 PHE B 201	-54.039	-7.208	40.696	1.00	32.12		C0
ANISOU 6243	CE1 PHE B 201	4560	4530	3110	40	600	-40	C0
ATOM 6244	CE2 PHE B 201	-52.273	-8.469	41.672	1.00	32.58		C0
ANISOU 6244	CE2 PHE B 201	4790	4530	3050	100	510	20	C0
ATOM 6245	CZ PHE B 201	-52.784	-7.261	41.257	1.00	32.37		C0
ANISOU 6245	CZ PHE B 201	4690	4540	3070	90	500	-40	C0
ATOM 6246	H PHE B 201	-57.153	-9.307	41.984	1.00	34.31		H0
ANISOU 6246	H PHE B 201	4820	4850	3370	-50	1060	120	H0
ATOM 6247	HA PHE B 201	-56.514	-11.986	41.760	1.00	35.11		H0
ANISOU 6247	HA PHE B 201	5050	4790	3510	-190	1110	230	H0
ATOM 6248	HB2 PHE B 201	-54.473	-11.623	40.807	1.00	33.31		H0
ANISOU 6248	HB2 PHE B 201	4830	4520	3300	-120	850	160	H0
ATOM 6249	HB3 PHE B 201	-55.503	-10.843	39.894	1.00	32.79		H0
ANISOU 6249	HB3 PHE B 201	4590	4530	3340	-190	870	110	H0
ATOM 6250	HD1 PHE B 201	-55.636	-8.327	40.153	1.00	32.46		H0
ANISOU 6250	HD1 PHE B 201	4480	4600	3250	-60	780	20	H0
ATOM 6251	HD2 PHE B 201	-52.653	-10.456	41.800	1.00	33.20		H0
ANISOU 6251	HD2 PHE B 201	4930	4540	3140	60	650	120	H0
ATOM 6252	HE1 PHE B 201	-54.394	-6.381	40.412	1.00	31.95		H0
ANISOU 6252	HE1 PHE B 201	4490	4530	3110	50	590	-80	H0
ATOM 6253	HE2 PHE B 201	-51.414	-8.508	42.060	1.00	32.81		H0
ANISOU 6253	HE2 PHE B 201	4880	4560	3020	140	430	20	H0
ATOM 6254	HZ PHE B 201	-52.280	-6.470	41.367	1.00	32.17		H0
ANISOU 6254	HZ PHE B 201	4690	4520	3010	110	410	-80	H0
ATOM 6255	N ARG B 202	-54.888	-11.838	43.760	1.00	36.52		N0
ANISOU 6255	N ARG B 202	5530	4920	3430	40	1030	270	N0
ATOM 6256	CA ARG B 202	-54.266	-11.777	45.108	1.00	38.50		C0
ANISOU 6256	CA ARG B 202	5970	5160	3500	160	1010	300	C0
ATOM 6257	C ARG B 202	-52.948	-12.551	45.122	1.00	38.89		C0
ANISOU 6257	C ARG B 202	6110	5150	3510	220	900	330	C0
ATOM 6258	O ARG B 202	-52.774	-13.450	44.284	1.00	37.56		O0
ANISOU 6258	O ARG B 202	5910	4920	3440	160	900	350	O0
ATOM 6259	CB ARG B 202	-55.216	-12.340	46.170	1.00	40.23		C0
ANISOU 6259	CB ARG B 202	6290	5360	3630	170	1200	390	C0
ATOM 6260	CG ARG B 202	-55.374	-13.853	46.136	1.00	40.93		C0
ANISOU 6260	CG ARG B 202	6460	5350	3740	90	1310	480	C0
ATOM 6261	CD ARG B 202	-56.393	-14.326	47.148	1.00	42.89		C0

ANISOU 6261 CD ARG B 202	6800	5590	3900	70	1520	580	C0
ATOM 6262 NE ARG B 202	-56.655	-15.757	47.046	1.00	43.77		N0
ANISOU 6262 NE ARG B 202	7000	5580	4050	-30	1630	670	N0
ATOM 6263 CZ ARG B 202	-57.695	-16.384	47.589	1.00	45.10		C0
ANISOU 6263 CZ ARG B 202	7210	5730	4200	-120	1840	760	C0
ATOM 6264 NH1 ARG B 202	-58.602	-15.715	48.281	1.00	45.70		N0
ANISOU 6264 NH1 ARG B 202	7230	5910	4220	-100	1960	770	N0
ATOM 6265 NH2 ARG B 202	-57.829	-17.687	47.427	1.00	46.39		N0
ANISOU 6265 NH2 ARG B 202	7470	5760	4400	-230	1930	840	N0
ATOM 6266 H ARG B 202	-54.718	-12.611	43.307	1.00	36.61		H0
ANISOU 6266 H ARG B 202	5550	4880	3490	-10	1030	290	H0
ATOM 6267 HA ARG B 202	-54.079	-10.835	45.318	1.00	38.13		H0
ANISOU 6267 HA ARG B 202	5910	5160	3420	220	940	250	H0
ATOM 6268 HB2 ARG B 202	-54.884	-12.078	47.054	1.00	40.81		H0
ANISOU 6268 HB2 ARG B 202	6480	5450	3570	260	1180	400	H0
ATOM 6269 HB3 ARG B 202	-56.098	-11.929	46.048	1.00	40.29		H0
ANISOU 6269 HB3 ARG B 202	6210	5420	3680	130	1280	370	H0
ATOM 6270 HG2 ARG B 202	-55.659	-14.131	45.240	1.00	40.46		H0
ANISOU 6270 HG2 ARG B 202	6300	5280	3800	-10	1310	470	H0
ATOM 6271 HG3 ARG B 202	-54.513	-14.279	46.327	1.00	41.08		H0
ANISOU 6271 HG3 ARG B 202	6580	5320	3700	160	1230	510	H0
ATOM 6272 HD2 ARG B 202	-56.069	-14.122	48.052	1.00	43.47		H0
ANISOU 6272 HD2 ARG B 202	7000	5670	3840	180	1510	600	H0
ATOM 6273 HD3 ARG B 202	-57.230	-13.834	47.011	1.00	42.88		H0
ANISOU 6273 HD3 ARG B 202	6690	5660	3950	30	1590	550	H0
ATOM 6274 HE ARG B 202	-56.084	-16.240	46.597	1.00	43.29		H0
ANISOU 6274 HE ARG B 202	6970	5460	4020	-40	1560	670	H0
ATOM 6275 HH11 ARG B 202	-58.522	-14.850	48.395	1.00	45.27		H0
ANISOU 6275 HH11 ARG B 202	7130	5930	4130	-20	1910	720	H0
ATOM 6276 HH12 ARG B 202	-59.284	-16.143	48.634	1.00	47.07		H0
ANISOU 6276 HH12 ARG B 202	7420	6080	4380	-170	2110	840	H0
ATOM 6277 HH21 ARG B 202	-57.228	-18.137	46.965	1.00	45.84		H0
ANISOU 6277 HH21 ARG B 202	7440	5610	4360	-230	1850	830	H0
ATOM 6278 HH22 ARG B 202	-58.517	-18.106	47.784	1.00	47.56		H0
ANISOU 6278 HH22 ARG B 202	7640	5890	4540	-310	2070	900	H0
ATOM 6279 N LYS B 203	-52.061	-12.199	46.054	1.00	41.16		N0
ANISOU 6279 N LYS B 203	6520	5460	3660	340	790	330	N0
ATOM 6280 CA LYS B 203	-50.932	-13.061	46.493	1.00	43.66		C0
ANISOU 6280 CA LYS B 203	6960	5740	3890	440	720	390	C0
ATOM 6281 C LYS B 203	-51.518	-14.409	46.927	1.00	45.36		C0
ANISOU 6281 C LYS B 203	7320	5850	4070	430	890	500	C0
ATOM 6282 O LYS B 203	-52.526	-14.397	47.662	1.00	45.42		O0
ANISOU 6282 O LYS B 203	7390	5860	4010	410	1040	540	O0
ATOM 6283 CB LYS B 203	-50.178	-12.414	47.661	1.00	45.76		C0
ANISOU 6283 CB LYS B 203	7340	6070	3980	570	600	370	C0
ATOM 6284 CG LYS B 203	-48.904	-13.128	48.094	1.00	47.84		C0
ANISOU 6284 CG LYS B 203	7700	6330	4150	690	480	430	C0
ATOM 6285 CD LYS B 203	-47.652	-12.569	47.453	1.00	48.28		C0
ANISOU 6285 CD LYS B 203	7610	6470	4260	700	270	360	C0
ATOM 6286 CE LYS B 203	-46.957	-11.542	48.326	1.00	49.83		C0
ANISOU 6286 CE LYS B 203	7850	6760	4330	760	100	300	C0
ATOM 6287 NZ LYS B 203	-46.115	-12.192	49.361	1.00	52.26		N0
ANISOU 6287 NZ LYS B 203	8300	7100	4460	910	20	370	N0
ATOM 6288 H LYS B 203	-52.098	-11.395	46.482	1.00	41.24		H0

ANISOU 6288 H LYS B 203	6540	5520	3610	380	760	290	H0
ATOM 6289 HA LYS B 203	-50.317	-13.197	45.736	1.00	42.90		H0
ANISOU 6289 HA LYS B 203	6780	5640	3870	430	630	370	H0
ATOM 6290 HB2 LYS B 203	-49.948	-11.495	47.409	1.00	45.09		H0
ANISOU 6290 HB2 LYS B 203	7170	6040	3920	550	500	300	H0
ATOM 6291 HB3 LYS B 203	-50.783	-12.368	48.430	1.00	46.60		H0
ANISOU 6291 HB3 LYS B 203	7540	6170	3990	590	690	400	H0
ATOM 6292 HG2 LYS B 203	-48.822	-13.061	49.069	1.00	48.92		H0
ANISOU 6292 HG2 LYS B 203	7960	6490	4140	770	470	450	H0
ATOM 6293 HG3 LYS B 203	-48.980	-14.079	47.865	1.00	48.07		H0
ANISOU 6293 HG3 LYS B 203	7760	6290	4210	690	550	490	H0
ATOM 6294 HD2 LYS B 203	-47.030	-13.305	47.270	1.00	48.47		H0
ANISOU 6294 HD2 LYS B 203	7640	6480	4290	760	240	410	H0
ATOM 6295 HD3 LYS B 203	-47.887	-12.152	46.597	1.00	47.04		H0
ANISOU 6295 HD3 LYS B 203	7330	6320	4230	610	270	310	H0
ATOM 6296 HE2 LYS B 203	-46.395	-10.968	47.772	1.00	49.15		H0
ANISOU 6296 HE2 LYS B 203	7640	6730	4310	720	-10	250	H0
ATOM 6297 HE3 LYS B 203	-47.624	-10.981	48.765	1.00	49.95		H0
ANISOU 6297 HE3 LYS B 203	7910	6770	4290	740	160	270	H0
ATOM 6298 HZ1 LYS B 203	-46.642	-12.609	49.969	1.00	52.78		H0
ANISOU 6298 HZ1 LYS B 203	8490	7120	4440	950	120	430	H0
ATOM 6299 HZ2 LYS B 203	-45.611	-11.568	49.784	1.00	52.50		H0
ANISOU 6299 HZ2 LYS B 203	8330	7200	4420	930	-110	330	H0
ATOM 6300 HZ3 LYS B 203	-45.568	-12.803	48.975	1.00	52.03		H0
ANISOU 6300 HZ3 LYS B 203	8230	7070	4470	950	-10	410	H0
ATOM 6301 N LYS B 204	-50.921	-15.518	46.483	1.00	46.27		N0
ANISOU 6301 N LYS B 204	7480	5890	4220	450	870	550	N0
ATOM 6302 CA LYS B 204	-51.276	-16.881	46.955	1.00	49.07		C0
ANISOU 6302 CA LYS B 204	8020	6110	4520	450	1020	670	C0
ATOM 6303 C LYS B 204	-50.961	-16.989	48.456	1.00	52.01		C0
ANISOU 6303 C LYS B 204	8600	6490	4670	600	1030	750	C0
ATOM 6304 O LYS B 204	-49.997	-16.345	48.921	1.00	50.57		O0
ANISOU 6304 O LYS B 204	8420	6400	4400	730	860	710	O0
ATOM 6305 CB LYS B 204	-50.545	-17.932	46.118	1.00	49.35		C0
ANISOU 6305 CB LYS B 204	8080	6040	4620	470	980	700	C0
ATOM 6306 CG LYS B 204	-50.985	-17.975	44.660	1.00	48.86		C0
ANISOU 6306 CG LYS B 204	7860	5960	4750	320	1000	630	C0
ATOM 6307 CD LYS B 204	-50.568	-19.219	43.910	1.00	49.34		C0
ANISOU 6307 CD LYS B 204	8010	5880	4860	320	1020	660	C0
ATOM 6308 CE LYS B 204	-49.165	-19.128	43.357	1.00	49.18		C0
ANISOU 6308 CE LYS B 204	7930	5900	4850	460	850	630	C0
ATOM 6309 NZ LYS B 204	-48.999	-19.993	42.166	1.00	49.01		N0
ANISOU 6309 NZ LYS B 204	7920	5770	4930	430	880	610	N0
ATOM 6310 H LYS B 204	-50.255	-15.502	45.862	1.00	45.73		H0
ANISOU 6310 H LYS B 204	7340	5830	4200	460	780	520	H0
ATOM 6311 HA LYS B 204	-52.245	-17.003	46.832	1.00	49.29		H0
ANISOU 6311 HA LYS B 204	8020	6110	4600	340	1150	680	H0
ATOM 6312 HB2 LYS B 204	-49.583	-17.747	46.152	1.00	49.27		H0
ANISOU 6312 HB2 LYS B 204	8060	6080	4570	580	850	680	H0
ATOM 6313 HB3 LYS B 204	-50.697	-18.813	46.520	1.00	50.65		H0
ANISOU 6313 HB3 LYS B 204	8400	6110	4730	490	1070	780	H0
ATOM 6314 HG2 LYS B 204	-51.962	-17.904	44.629	1.00	48.75		H0
ANISOU 6314 HG2 LYS B 204	7810	5940	4780	200	1100	620	H0
ATOM 6315 HG3 LYS B 204	-50.618	-17.190	44.200	1.00	47.56		H0

ANISOU 6315 HG3 LYS B 204	7560	5880	4630	330	890	560	H0
ATOM 6316 HD2 LYS B 204	-50.623	-19.991	44.512	1.00	50.74		H0
ANISOU 6316 HD2 LYS B 204	8350	5960	4970	360	1090	740	H0
ATOM 6317 HD3 LYS B 204	-51.193	-19.369	43.168	1.00	49.06		H0
ANISOU 6317 HD3 LYS B 204	7910	5800	4930	190	1070	630	H0
ATOM 6318 HE2 LYS B 204	-48.968	-18.206	43.110	1.00	47.99		H0
ANISOU 6318 HE2 LYS B 204	7640	5870	4730	450	770	560	H0
ATOM 6319 HE3 LYS B 204	-48.525	-19.403	44.041	1.00	49.94		H0
ANISOU 6319 HE3 LYS B 204	8130	6000	4850	600	820	680	H0
ATOM 6320 HZ1 LYS B 204	-49.269	-20.837	42.359	1.00	50.07		H0
ANISOU 6320 HZ1 LYS B 204	8200	5780	5040	420	960	660	H0
ATOM 6321 HZ2 LYS B 204	-48.127	-20.010	41.918	1.00	48.91		H0
ANISOU 6321 HZ2 LYS B 204	7890	5790	4910	530	790	600	H0
ATOM 6322 HZ3 LYS B 204	-49.497	-19.671	41.480	1.00	48.21		H0
ANISOU 6322 HZ3 LYS B 204	7710	5690	4910	310	890	550	H0
ATOM 6323 N GLY B 205	-51.767	-17.762	49.189	1.00	56.08		N0
ANISOU 6323 N GLY B 205	9280	6920	5110	580	1210	850	N0
ATOM 6324 CA GLY B 205	-51.611	-17.980	50.640	1.00	60.92		C0
ANISOU 6324 CA GLY B 205	10120	7520	5500	710	1250	940	C0
ATOM 6325 C GLY B 205	-50.449	-18.909	50.958	1.00	64.59		C0
ANISOU 6325 C GLY B 205	10760	7920	5870	880	1160	1020	C0
ATOM 6326 O GLY B 205	-49.763	-19.344	50.009	1.00	64.05		O0
ANISOU 6326 O GLY B 205	10620	7810	5910	890	1070	1000	O0
ATOM 6327 H GLY B 205	-52.472	-18.208	48.822	1.00	56.25		H0
ANISOU 6327 H GLY B 205	9280	6880	5210	460	1330	870	H0
ATOM 6328 HA2 GLY B 205	-51.465	-17.108	51.080	1.00	60.58		H0
ANISOU 6328 HA2 GLY B 205	10050	7580	5390	770	1180	890	H0
ATOM 6329 HA3 GLY B 205	-52.448	-18.368	50.999	1.00	61.73		H0
ANISOU 6329 HA3 GLY B 205	10290	7570	5580	650	1420	1000	H0
ATOM 6330 N ARG B 206	-50.262	-19.220	52.248	1.00	70.75		N0
ANISOU 6330 N ARG B 206	11760	8690	6430	1020	1190	1110	N0
ATOM 6331 CA ARG B 206	-49.205	-20.121	52.791	1.00	75.03		C0
ANISOU 6331 CA ARG B 206	12510	9170	6830	1220	1110	1220	C0
ATOM 6332 C ARG B 206	-47.836	-19.465	52.567	1.00	74.39		C0
ANISOU 6332 C ARG B 206	12290	9240	6740	1350	830	1130	C0
ATOM 6333 O ARG B 206	-47.192	-19.052	53.538	1.00	74.35		O0
ANISOU 6333 O ARG B 206	12370	9330	6550	1500	700	1140	O0
ATOM 6334 CB ARG B 206	-49.341	-21.527	52.185	1.00	78.33		C0
ANISOU 6334 CB ARG B 206	13040	9390	7340	1180	1230	1310	C0
ATOM 6335 CG ARG B 206	-48.034	-22.278	51.956	1.00	81.52		C0
ANISOU 6335 CG ARG B 206	13510	9750	7710	1370	1090	1350	C0
ATOM 6336 CD ARG B 206	-47.711	-22.431	50.481	1.00	81.90		C0
ANISOU 6336 CD ARG B 206	13380	9770	7970	1300	1040	1270	C0
ATOM 6337 NE ARG B 206	-46.331	-22.840	50.233	1.00	84.47		N0
ANISOU 6337 NE ARG B 206	13710	10120	8260	1510	880	1290	N0
ATOM 6338 CZ ARG B 206	-45.338	-22.032	49.850	1.00	84.70		C0
ANISOU 6338 CZ ARG B 206	13520	10340	8330	1590	670	1200	C0
ATOM 6339 NH1 ARG B 206	-45.541	-20.736	49.669	1.00	83.07		N0
ANISOU 6339 NH1 ARG B 206	13090	10280	8190	1470	590	1090	N0
ATOM 6340 NH2 ARG B 206	-44.129	-22.529	49.650	1.00	85.84		N0
ANISOU 6340 NH2 ARG B 206	13660	10510	8450	1800	550	1240	N0
ATOM 6341 H ARG B 206	-50.808	-18.893	52.898	1.00	70.90		H0
ANISOU 6341 H ARG B 206	11840	8730	6370	1010	1270	1130	H0
ATOM 6342 HA ARG B 206	-49.349	-20.194	53.763	1.00	76.38		H0

ANISOU 6342	HA ARG B 206	12840	9340	6840	1290	1160	1280	H0
ATOM 6343	HB2 ARG B 206	-49.902	-22.062	52.784	1.00	79.65		H0
ANISOU 6343	HB2 ARG B 206	13370	9470	7420	1160	1380	1400	H0
ATOM 6344	HB3 ARG B 206	-49.812	-21.454	51.330	1.00	77.10		H0
ANISOU 6344	HB3 ARG B 206	12750	9210	7340	1030	1280	1250	H0
ATOM 6345	HG2 ARG B 206	-47.299	-21.804	52.397	1.00	81.48		H0
ANISOU 6345	HG2 ARG B 206	13480	9870	7610	1510	950	1330	H0
ATOM 6346	HG3 ARG B 206	-48.101	-23.169	52.360	1.00	82.89		H0
ANISOU 6346	HG3 ARG B 206	13890	9800	7800	1430	1190	1460	H0
ATOM 6347	HD2 ARG B 206	-48.313	-23.102	50.095	1.00	82.19		H0
ANISOU 6347	HD2 ARG B 206	13490	9670	8080	1200	1170	1300	H0
ATOM 6348	HD3 ARG B 206	-47.887	-21.582	50.025	1.00	80.42		H0
ANISOU 6348	HD3 ARG B 206	13000	9680	7870	1200	990	1170	H0
ATOM 6349	HE ARG B 206	-46.141	-23.685	50.333	1.00	85.54		H0
ANISOU 6349	HE ARG B 206	14000	10150	8360	1600	920	1370	H0
ATOM 6350	HH11 ARG B 206	-46.335	-20.388	49.797	1.00	82.54		H0
ANISOU 6350	HH11 ARG B 206	13020	10210	8140	1350	670	1060	H0
ATOM 6351	HH12 ARG B 206	-44.874	-20.221	49.420	1.00	82.42		H0
ANISOU 6351	HH12 ARG B 206	12870	10320	8130	1510	450	1030	H0
ATOM 6352	HH21 ARG B 206	-43.982	-23.390	49.769	1.00	86.83		H0
ANISOU 6352	HH21 ARG B 206	13940	10530	8520	1890	600	1320	H0
ATOM 6353	HH22 ARG B 206	-43.470	-21.999	49.402	1.00	85.06		H0
ANISOU 6353	HH22 ARG B 206	13400	10540	8370	1840	410	1190	H0
TER 6354	ARG B 206							
ATOM 6355	N ALA C 1	-65.320	11.864	-2.855	1.00	70.88		N0
ANISOU 6355	N ALA C 1	7630	12400	6910	-440	-1540	2220	N0
ATOM 6356	CA ALA C 1	-64.018	11.366	-2.329	1.00	68.72		C0
ANISOU 6356	CA ALA C 1	7500	11950	6660	-510	-1390	2080	C0
ATOM 6357	C ALA C 1	-64.269	10.364	-1.193	1.00	67.51		C0
ANISOU 6357	C ALA C 1	7270	11810	6570	-580	-1340	1930	C0
ATOM 6358	O ALA C 1	-65.452	10.076	-0.915	1.00	69.94		O0
ANISOU 6358	O ALA C 1	7420	12270	6890	-580	-1410	1940	O0
ATOM 6359	CB ALA C 1	-63.174	12.535	-1.876	1.00	68.18		C0
ANISOU 6359	CB ALA C 1	7510	11680	6720	-380	-1310	2130	C0
ATOM 6360	H ALA C 1	-65.370	12.769	-2.764	1.00	71.31		H0
ANISOU 6360	H ALA C 1	7670	12390	7030	-310	-1550	2300	H0
ATOM 6361	HA ALA C 1	-63.546	10.898	-3.057	1.00	68.79		H0
ANISOU 6361	HA ALA C 1	7600	11990	6550	-620	-1400	2060	H0
ATOM 6362	HB1 ALA C 1	-62.324	12.211	-1.534	1.00	66.88		H0
ANISOU 6362	HB1 ALA C 1	7430	11410	6570	-420	-1210	2040	H0
ATOM 6363	HB2 ALA C 1	-63.013	13.129	-2.628	1.00	69.05		H0
ANISOU 6363	HB2 ALA C 1	7680	11780	6770	-360	-1350	2230	H0
ATOM 6364	HB3 ALA C 1	-63.640	13.021	-1.176	1.00	68.23		H0
ANISOU 6364	HB3 ALA C 1	7430	11650	6840	-260	-1300	2150	H0
ATOM 6365	N ASP C 2	-63.196	9.837	-0.590	1.00	64.62		N0
ANISOU 6365	N ASP C 2	7020	11290	6240	-630	-1220	1800	N0
ATOM 6366	CA ASP C 2	-63.222	8.911	0.578	1.00	62.31		C0
ANISOU 6366	CA ASP C 2	6700	10960	6020	-690	-1160	1660	C0
ATOM 6367	C ASP C 2	-61.928	9.100	1.388	1.00	59.16		C0
ANISOU 6367	C ASP C 2	6420	10340	5720	-650	-1020	1570	C0
ATOM 6368	O ASP C 2	-61.157	10.025	1.058	1.00	58.92		O0
ANISOU 6368	O ASP C 2	6460	10210	5710	-570	-980	1630	O0
ATOM 6369	CB ASP C 2	-63.457	7.462	0.131	1.00	63.01		C0
ANISOU 6369	CB ASP C 2	6830	11150	5960	-890	-1220	1560	C0

ATOM 6370 CG ASP C 2	-62.302	6.798	-0.607	1.00	62.98		C0
ANISOU 6370 CG ASP C 2	7010	11080	5840	-980	-1180	1470	C0
ATOM 6371 OD1 ASP C 2	-61.282	7.471	-0.860	1.00	62.14		O0
ANISOU 6371 OD1 ASP C 2	6990	10870	5750	-910	-1110	1490	O0
ATOM 6372 OD2 ASP C 2	-62.437	5.601	-0.930	1.00	63.94		O0
ANISOU 6372 OD2 ASP C 2	7190	11260	5850	-1130	-1230	1380	O0
ATOM 6373 H ASP C 2	-62.352	10.013	-0.881	1.00	64.15		H0
ANISOU 6373 H ASP C 2	7070	11150	6160	-640	-1170	1790	H0
ATOM 6374 HA ASP C 2	-63.980	9.172	1.150	1.00	62.69		H0
ANISOU 6374 HA ASP C 2	6630	11060	6140	-630	-1180	1680	H0
ATOM 6375 HB2 ASP C 2	-63.662	6.920	0.920	1.00	62.45		H0
ANISOU 6375 HB2 ASP C 2	6730	11070	5930	-930	-1190	1490	H0
ATOM 6376 HB3 ASP C 2	-64.238	7.443	-0.458	1.00	64.26		H0
ANISOU 6376 HB3 ASP C 2	6910	11450	6050	-920	-1310	1630	H0
ATOM 6377 N ARG C 3	-61.699	8.272	2.412	1.00	56.63		N0
ANISOU 6377 N ARG C 3	6110	9960	5450	-700	-960	1440	N0
ATOM 6378 CA ARG C 3	-60.558	8.426	3.356	1.00	54.35		C0
ANISOU 6378 CA ARG C 3	5910	9470	5270	-650	-840	1350	C0
ATOM 6379 C ARG C 3	-59.237	8.155	2.630	1.00	51.74		C0
ANISOU 6379 C ARG C 3	5740	9070	4850	-700	-790	1290	C0
ATOM 6380 O ARG C 3	-58.280	8.918	2.867	1.00	50.29		O0
ANISOU 6380 O ARG C 3	5610	8760	4740	-620	-710	1300	O0
ATOM 6381 CB ARG C 3	-60.704	7.506	4.574	1.00	54.08		C0
ANISOU 6381 CB ARG C 3	5860	9400	5290	-710	-800	1230	C0
ATOM 6382 CG ARG C 3	-61.760	7.976	5.560	1.00	55.36		C0
ANISOU 6382 CG ARG C 3	5860	9620	5550	-640	-810	1270	C0
ATOM 6383 CD ARG C 3	-61.669	7.252	6.886	1.00	55.30		C0
ANISOU 6383 CD ARG C 3	5860	9550	5610	-700	-750	1160	C0
ATOM 6384 NE ARG C 3	-62.732	7.680	7.780	1.00	56.37		N0
ANISOU 6384 NE ARG C 3	5820	9770	5820	-640	-740	1190	N0
ATOM 6385 CZ ARG C 3	-63.999	7.292	7.698	1.00	58.79		C0
ANISOU 6385 CZ ARG C 3	5990	10270	6080	-710	-820	1230	C0
ATOM 6386 NH1 ARG C 3	-64.883	7.752	8.569	1.00	60.07		N0
ANISOU 6386 NH1 ARG C 3	5980	10530	6310	-640	-800	1240	N0
ATOM 6387 NH2 ARG C 3	-64.386	6.454	6.749	1.00	60.04		N0
ANISOU 6387 NH2 ARG C 3	6170	10550	6100	-850	-910	1230	N0
ATOM 6388 H ARG C 3	-62.236	7.561	2.598	1.00	56.97		H0
ANISOU 6388 H ARG C 3	6120	10070	5460	-780	-1000	1400	H0
ATOM 6389 HA ARG C 3	-60.550	9.360	3.670	1.00	54.18		H0
ANISOU 6389 HA ARG C 3	5850	9400	5330	-540	-810	1410	H0
ATOM 6390 HB2 ARG C 3	-60.936	6.606	4.264	1.00	54.43		H0
ANISOU 6390 HB2 ARG C 3	5930	9510	5240	-820	-850	1190	H0
ATOM 6391 HB3 ARG C 3	-59.841	7.455	5.035	1.00	53.11		H0
ANISOU 6391 HB3 ARG C 3	5820	9160	5210	-690	-730	1170	H0
ATOM 6392 HG2 ARG C 3	-61.653	8.939	5.716	1.00	55.38		H0
ANISOU 6392 HG2 ARG C 3	5830	9570	5640	-520	-770	1330	H0
ATOM 6393 HG3 ARG C 3	-62.650	7.830	5.175	1.00	56.43		H0
ANISOU 6393 HG3 ARG C 3	5910	9890	5640	-680	-880	1320	H0
ATOM 6394 HD2 ARG C 3	-61.733	6.284	6.738	1.00	55.22		H0
ANISOU 6394 HD2 ARG C 3	5900	9570	5520	-820	-780	1110	H0
ATOM 6395 HD3 ARG C 3	-60.800	7.439	7.300	1.00	54.19		H0
ANISOU 6395 HD3 ARG C 3	5800	9270	5520	-650	-680	1120	H0
ATOM 6396 HE ARG C 3	-62.522	8.235	8.420	1.00	56.13		H0
ANISOU 6396 HE ARG C 3	5780	9670	5880	-550	-690	1190	H0

ATOM	6397	HH11	ARG	C	3	-64.628	8.310	9.199	1.00	59.28	H0	
ANISOU	6397	HH11	ARG	C	3	5870	10350	6300	-550	-740	1230	H0
ATOM	6398	HH12	ARG	C	3	-65.723	7.498	8.518	1.00	60.70	H0	
ANISOU	6398	HH12	ARG	C	3	5950	10750	6360	-700	-850	1260	H0
ATOM	6399	HH21	ARG	C	3	-63.807	6.142	6.166	1.00	59.56	H0	
ANISOU	6399	HH21	ARG	C	3	6220	10430	5980	-900	-930	1220	H0
ATOM	6400	HH22	ARG	C	3	-65.230	6.204	6.705	1.00	60.77	H0	
ANISOU	6400	HH22	ARG	C	3	6160	10780	6150	-910	-970	1260	H0
ATOM	6401	N	ALA	C	4	-59.186	7.098	1.812	1.00	50.61	N0	
ANISOU	6401	N	ALA	C	4	5660	9000	4560	-820	-840	1230	N0
ATOM	6402	CA	ALA	C	4	-58.020	6.727	0.972	1.00	49.79	C0	
ANISOU	6402	CA	ALA	C	4	5700	8870	4350	-870	-810	1160	C0
ATOM	6403	C	ALA	C	4	-57.549	7.951	0.174	1.00	49.44	C0	
ANISOU	6403	C	ALA	C	4	5670	8830	4280	-810	-790	1280	C0
ATOM	6404	O	ALA	C	4	-56.335	8.227	0.181	1.00	48.86	O0	
ANISOU	6404	O	ALA	C	4	5670	8670	4220	-790	-690	1230	O0
ATOM	6405	CB	ALA	C	4	-58.374	5.577	0.058	1.00	50.53	C0	
ANISOU	6405	CB	ALA	C	4	5840	9080	4280	-1010	-900	1100	C0
ATOM	6406	H	ALA	C	4	-59.878	6.513	1.717	1.00	51.31	H0	
ANISOU	6406	H	ALA	C	4	5720	9170	4600	-890	-910	1220	H0
ATOM	6407	HA	ALA	C	4	-57.287	6.443	1.567	1.00	48.73	H0	
ANISOU	6407	HA	ALA	C	4	5620	8640	4260	-860	-740	1070	H0
ATOM	6408	HB1	ALA	C	4	-57.605	5.349	-0.491	1.00	50.61	H0	
ANISOU	6408	HB1	ALA	C	4	5940	9080	4210	-1030	-870	1040	H0
ATOM	6409	HB2	ALA	C	4	-58.630	4.805	0.591	1.00	50.27	H0	
ANISOU	6409	HB2	ALA	C	4	5820	9030	4260	-1060	-910	1030	H0
ATOM	6410	HB3	ALA	C	4	-59.115	5.833	-0.516	1.00	51.59	H0	
ANISOU	6410	HB3	ALA	C	4	5920	9320	4360	-1020	-970	1190	H0
ATOM	6411	N	ASP	C	5	-58.480	8.672	-0.458	1.00	50.15	N0	
ANISOU	6411	N	ASP	C	5	5680	9030	4350	-780	-870	1430	N0
ATOM	6412	CA	ASP	C	5	-58.192	9.851	-1.323	1.00	51.14	C0	
ANISOU	6412	CA	ASP	C	5	5840	9160	4430	-730	-880	1570	C0
ATOM	6413	C	ASP	C	5	-57.590	10.984	-0.482	1.00	49.93	C0	
ANISOU	6413	C	ASP	C	5	5700	8840	4440	-620	-790	1610	C0
ATOM	6414	O	ASP	C	5	-56.608	11.596	-0.934	1.00	49.23	O0	
ANISOU	6414	O	ASP	C	5	5700	8700	4310	-630	-730	1650	O0
ATOM	6415	CB	ASP	C	5	-59.446	10.321	-2.068	1.00	52.84	C0	
ANISOU	6415	CB	ASP	C	5	5970	9510	4590	-710	-1010	1730	C0
ATOM	6416	CG	ASP	C	5	-59.927	9.355	-3.139	1.00	54.15	C0	
ANISOU	6416	CG	ASP	C	5	6150	9860	4580	-850	-1100	1710	C0
ATOM	6417	OD1	ASP	C	5	-59.078	8.660	-3.725	1.00	53.61	O0	
ANISOU	6417	OD1	ASP	C	5	6180	9800	4390	-950	-1060	1610	O0
ATOM	6418	OD2	ASP	C	5	-61.154	9.300	-3.374	1.00	55.92	O0	
ANISOU	6418	OD2	ASP	C	5	6260	10210	4770	-850	-1210	1790	O0
ATOM	6419	H	ASP	C	5	-59.367	8.475	-0.398	1.00	50.81	H0	
ANISOU	6419	H	ASP	C	5	5690	9180	4430	-790	-930	1460	H0
ATOM	6420	HA	ASP	C	5	-57.523	9.579	-1.993	1.00	51.23	H0	
ANISOU	6420	HA	ASP	C	5	5930	9200	4340	-800	-850	1540	H0
ATOM	6421	HB2	ASP	C	5	-60.170	10.452	-1.422	1.00	52.90	H0	
ANISOU	6421	HB2	ASP	C	5	5880	9520	4690	-660	-1030	1750	H0
ATOM	6422	HB3	ASP	C	5	-59.259	11.183	-2.494	1.00	53.54	H0	
ANISOU	6422	HB3	ASP	C	5	6090	9580	4680	-670	-1010	1830	H0
ATOM	6423	N	ILE	C	6	-58.159	11.256	0.694	1.00	49.74	N0	
ANISOU	6423	N	ILE	C	6	5580	8750	4570	-520	-770	1610	N0

ATOM 6424 CA ILE C 6	-57.675	12.331	1.611	1.00	49.41	C0	
ANISOU 6424 CA ILE C 6	5550	8540	4680	-410	-690	1640	C0
ATOM 6425 C ILE C 6	-56.236	12.002	2.034	1.00	48.06	C0	
ANISOU 6425 C ILE C 6	5480	8260	4520	-460	-570	1510	C0
ATOM 6426 O ILE C 6	-55.394	12.911	1.958	1.00	47.40	O0	
ANISOU 6426 O ILE C 6	5460	8080	4470	-430	-510	1550	O0
ATOM 6427 CB ILE C 6	-58.637	12.521	2.801	1.00	49.42	C0	
ANISOU 6427 CB ILE C 6	5430	8520	4830	-310	-700	1630	C0
ATOM 6428 CG1 ILE C 6	-59.978	13.095	2.336	1.00	51.45	C0	
ANISOU 6428 CG1 ILE C 6	5580	8890	5080	-230	-820	1770	C0
ATOM 6429 CG2 ILE C 6	-58.006	13.380	3.889	1.00	48.51	C0	
ANISOU 6429 CG2 ILE C 6	5340	8220	4870	-210	-610	1610	C0
ATOM 6430 CD1 ILE C 6	-61.105	12.901	3.322	1.00	52.03	C0	
ANISOU 6430 CD1 ILE C 6	5490	9030	5250	-160	-840	1740	C0
ATOM 6431 H ILE C 6	-58.882	10.801	1.010	1.00	49.76	H0	
ANISOU 6431 H ILE C 6	5520	8810	4580	-530	-810	1590	H0
ATOM 6432 HA ILE C 6	-57.656	13.165	1.108	1.00	50.25	H0	
ANISOU 6432 HA ILE C 6	5690	8630	4780	-370	-720	1740	H0
ATOM 6433 HB ILE C 6	-58.813	11.628	3.188	1.00	48.84	H0	
ANISOU 6433 HB ILE C 6	5330	8480	4740	-360	-700	1540	H0
ATOM 6434 HG12 ILE C 6	-59.867	14.056	2.170	1.00	52.08	H0	
ANISOU 6434 HG12 ILE C 6	5690	8900	5200	-150	-830	1860	H0
ATOM 6435 HG13 ILE C 6	-60.227	12.671	1.488	1.00	52.17	H0	
ANISOU 6435 HG13 ILE C 6	5670	9090	5060	-300	-880	1790	H0
ATOM 6436 HG21 ILE C 6	-57.344	12.858	4.375	1.00	47.42	H0	
ANISOU 6436 HG21 ILE C 6	5240	8030	4740	-250	-540	1510	H0
ATOM 6437 HG22 ILE C 6	-58.693	13.682	4.508	1.00	48.71	H0	
ANISOU 6437 HG22 ILE C 6	5290	8240	4980	-130	-620	1620	H0
ATOM 6438 HG23 ILE C 6	-57.574	14.153	3.486	1.00	48.97	H0	
ANISOU 6438 HG23 ILE C 6	5460	8220	4920	-180	-600	1680	H0
ATOM 6439 HD11 ILE C 6	-61.206	11.953	3.518	1.00	51.34	H0	
ANISOU 6439 HD11 ILE C 6	5390	9000	5120	-260	-840	1650	H0
ATOM 6440 HD12 ILE C 6	-61.932	13.242	2.942	1.00	53.11	H0	
ANISOU 6440 HD12 ILE C 6	5550	9260	5370	-110	-920	1820	H0
ATOM 6441 HD13 ILE C 6	-60.906	13.381	4.145	1.00	51.34	H0	
ANISOU 6441 HD13 ILE C 6	5400	8840	5270	-80	-780	1710	H0
ATOM 6442 N LEU C 7	-55.964	10.747	2.418	1.00	47.77	N0	
ANISOU 6442 N LEU C 7	5450	8240	4460	-530	-550	1360	N0
ATOM 6443 CA LEU C 7	-54.612	10.255	2.820	1.00	47.24	C0	
ANISOU 6443 CA LEU C 7	5470	8090	4400	-560	-450	1210	C0
ATOM 6444 C LEU C 7	-53.651	10.353	1.625	1.00	47.43	C0	
ANISOU 6444 C LEU C 7	5570	8170	4280	-630	-420	1220	C0
ATOM 6445 O LEU C 7	-52.513	10.825	1.814	1.00	46.05	O0	
ANISOU 6445 O LEU C 7	5440	7920	4130	-620	-330	1190	O0
ATOM 6446 CB LEU C 7	-54.733	8.814	3.336	1.00	47.62	C0	
ANISOU 6446 CB LEU C 7	5520	8150	4420	-620	-460	1070	C0
ATOM 6447 CG LEU C 7	-53.529	8.229	4.088	1.00	47.79	C0	
ANISOU 6447 CG LEU C 7	5610	8070	4490	-620	-380	910	C0
ATOM 6448 CD1 LEU C 7	-52.620	7.436	3.157	1.00	48.90	C0	
ANISOU 6448 CD1 LEU C 7	5830	8260	4480	-680	-370	810	C0
ATOM 6449 CD2 LEU C 7	-52.728	9.294	4.824	1.00	47.31	C0	
ANISOU 6449 CD2 LEU C 7	5550	7890	4540	-540	-280	930	C0
ATOM 6450 H LEU C 7	-56.609	10.104	2.456	1.00	47.89	H0	
ANISOU 6450 H LEU C 7	5430	8320	4450	-560	-600	1330	H0

ATOM	6451	HA	LEU	C	7	-54.279	10.836	3.540	1.00	46.68	H0	
ANISOU	6451	HA	LEU	C	7	5390	7920	4430	-500	-390	1220	H0
ATOM	6452	HB2	LEU	C	7	-55.508	8.772	3.931	1.00	47.57	H0	
ANISOU	6452	HB2	LEU	C	7	5450	8140	4480	-600	-490	1080	H0
ATOM	6453	HB3	LEU	C	7	-54.926	8.236	2.571	1.00	48.29	H0	
ANISOU	6453	HB3	LEU	C	7	5630	8320	4400	-680	-510	1050	H0
ATOM	6454	HG	LEU	C	7	-53.880	7.600	4.767	1.00	47.23	H0	
ANISOU	6454	HG	LEU	C	7	5530	7970	4450	-620	-400	850	H0
ATOM	6455	HD11	LEU	C	7	-53.145	6.771	2.678	1.00	49.17	H0	
ANISOU	6455	HD11	LEU	C	7	5880	8370	4440	-730	-430	790	H0
ATOM	6456	HD12	LEU	C	7	-51.932	6.990	3.679	1.00	47.98	H0	
ANISOU	6456	HD12	LEU	C	7	5750	8080	4390	-670	-330	700	H0
ATOM	6457	HD13	LEU	C	7	-52.202	8.039	2.519	1.00	49.14	H0	
ANISOU	6457	HD13	LEU	C	7	5880	8330	4470	-680	-340	860	H0
ATOM	6458	HD21	LEU	C	7	-52.236	9.835	4.183	1.00	47.70	H0	
ANISOU	6458	HD21	LEU	C	7	5620	7950	4550	-550	-260	970	H0
ATOM	6459	HD22	LEU	C	7	-52.101	8.865	5.432	1.00	46.46	H0	
ANISOU	6459	HD22	LEU	C	7	5460	7720	4470	-530	-240	830	H0
ATOM	6460	HD23	LEU	C	7	-53.331	9.862	5.334	1.00	47.21	H0	
ANISOU	6460	HD23	LEU	C	7	5480	7840	4620	-490	-290	1000	H0
ATOM	6461	N	TYR	C	8	-54.091	9.949	0.429	1.00	48.53	N0	
ANISOU	6461	N	TYR	C	8	5730	8450	4270	-700	-500	1260	N0
ATOM	6462	CA	TYR	C	8	-53.272	10.009	-0.813	1.00	49.68	C0	
ANISOU	6462	CA	TYR	C	8	5940	8680	4250	-770	-480	1260	C0
ATOM	6463	C	TYR	C	8	-52.870	11.468	-1.077	1.00	50.61	C0	
ANISOU	6463	C	TYR	C	8	6090	8750	4400	-750	-440	1410	C0
ATOM	6464	O	TYR	C	8	-51.678	11.735	-1.313	1.00	49.93	O0	
ANISOU	6464	O	TYR	C	8	6050	8650	4260	-790	-350	1370	O0
ATOM	6465	CB	TYR	C	8	-54.023	9.390	-1.993	1.00	51.10	C0	
ANISOU	6465	CB	TYR	C	8	6130	9020	4270	-850	-580	1290	C0
ATOM	6466	CG	TYR	C	8	-53.299	9.465	-3.315	1.00	52.37	C0	
ANISOU	6466	CG	TYR	C	8	6360	9290	4240	-940	-560	1300	C0
ATOM	6467	CD1	TYR	C	8	-52.298	8.560	-3.643	1.00	52.26	C0	
ANISOU	6467	CD1	TYR	C	8	6400	9330	4130	-990	-500	1130	C0
ATOM	6468	CD2	TYR	C	8	-53.612	10.446	-4.242	1.00	53.67	C0	
ANISOU	6468	CD2	TYR	C	8	6540	9520	4330	-960	-610	1490	C0
ATOM	6469	CE1	TYR	C	8	-51.637	8.623	-4.861	1.00	53.42	C0	
ANISOU	6469	CE1	TYR	C	8	6600	9600	4090	-1070	-470	1130	C0
ATOM	6470	CE2	TYR	C	8	-52.959	10.524	-5.463	1.00	54.93	C0	
ANISOU	6470	CE2	TYR	C	8	6760	9810	4300	-1050	-590	1500	C0
ATOM	6471	CZ	TYR	C	8	-51.966	9.612	-5.772	1.00	54.64	C0	
ANISOU	6471	CZ	TYR	C	8	6770	9830	4160	-1110	-510	1320	C0
ATOM	6472	OH	TYR	C	8	-51.318	9.693	-6.969	1.00	56.38	O0	
ANISOU	6472	OH	TYR	C	8	7040	10200	4180	-1210	-490	1330	O0
ATOM	6473	H	TYR	C	8	-54.921	9.602	0.288	1.00	48.99	H0	
ANISOU	6473	H	TYR	C	8	5750	8560	4300	-710	-570	1280	H0
ATOM	6474	HA	TYR	C	8	-52.444	9.486	-0.663	1.00	49.15	H0	
ANISOU	6474	HA	TYR	C	8	5910	8600	4170	-790	-420	1140	H0
ATOM	6475	HB2	TYR	C	8	-54.202	8.449	-1.785	1.00	50.73	H0	
ANISOU	6475	HB2	TYR	C	8	6080	8990	4200	-880	-600	1190	H0
ATOM	6476	HB3	TYR	C	8	-54.887	9.844	-2.081	1.00	51.66	H0	
ANISOU	6476	HB3	TYR	C	8	6150	9110	4360	-830	-650	1410	H0
ATOM	6477	HD1	TYR	C	8	-52.069	7.882	-3.028	1.00	51.38	H0	
ANISOU	6477	HD1	TYR	C	8	6300	9160	4060	-970	-470	1010	H0

ATOM	6478	HD2 TYR C	8	-54.289	11.072	-4.042	1.00	53.97	H0	
ANISOU	6478	HD2 TYR C	8	6540	9530	4440	-910	-660	1600	H0
ATOM	6479	HE1 TYR C	8	-50.959	8.000	-5.064	1.00	53.38	H0	
ANISOU	6479	HE1 TYR C	8	6630	9640	4010	-1090	-430	1000	H0
ATOM	6480	HE2 TYR C	8	-53.187	11.200	-6.079	1.00	55.95	H0	
ANISOU	6480	HE2 TYR C	8	6910	9970	4370	-1070	-630	1640	H0
ATOM	6481	N ASN C	9	-53.834	12.391	-1.007	1.00	52.35	N0	
ANISOU	6481	N ASN C	9	6270	8940	4690	-680	-510	1570	N0
ATOM	6482	CA ASN C	9	-53.610	13.840	-1.261	1.00	54.26	C0	
ANISOU	6482	CA ASN C	9	6560	9100	4960	-650	-510	1730	C0
ATOM	6483	C ASN C	9	-52.586	14.373	-0.252	1.00	53.29	C0	
ANISOU	6483	C ASN C	9	6460	8820	4960	-620	-390	1670	C0
ATOM	6484	O ASN C	9	-51.629	15.029	-0.690	1.00	53.84	O0	
ANISOU	6484	O ASN C	9	6610	8870	4980	-680	-330	1720	O0
ATOM	6485	CB ASN C	9	-54.914	14.642	-1.227	1.00	55.94	C0	
ANISOU	6485	CB ASN C	9	6720	9290	5240	-540	-620	1890	C0
ATOM	6486	CG ASN C	9	-54.743	16.063	-1.722	1.00	58.02	C0	
ANISOU	6486	CG ASN C	9	7060	9480	5500	-520	-640	2070	C0
ATOM	6487	OD1 ASN C	9	-54.922	17.014	-0.963	1.00	59.35	O0	
ANISOU	6487	OD1 ASN C	9	7240	9490	5820	-410	-640	2140	O0
ATOM	6488	ND2 ASN C	9	-54.386	16.222	-2.986	1.00	59.25	N0	
ANISOU	6488	ND2 ASN C	9	7300	9730	5490	-620	-670	2160	N0
ATOM	6489	H ASN C	9	-54.697	12.183	-0.802	1.00	52.40	H0	
ANISOU	6489	H ASN C	9	6220	8970	4730	-650	-570	1590	H0
ATOM	6490	HA ASN C	9	-53.230	13.933	-2.166	1.00	55.06	H0	
ANISOU	6490	HA ASN C	9	6710	9280	4930	-720	-510	1770	H0
ATOM	6491	HB2 ASN C	9	-55.580	14.188	-1.783	1.00	56.57	H0	
ANISOU	6491	HB2 ASN C	9	6760	9490	5240	-570	-690	1920	H0
ATOM	6492	HB3 ASN C	9	-55.249	14.662	-0.308	1.00	55.26	H0	
ANISOU	6492	HB3 ASN C	9	6580	9140	5280	-470	-600	1860	H0
ATOM	6493	HD21 ASN C	9	-54.113	17.012	-3.273	1.00	60.06	H0	
ANISOU	6493	HD21 ASN C	9	7470	9780	5580	-630	-670	2260	H0
ATOM	6494	HD22 ASN C	9	-54.420	15.538	-3.545	1.00	59.41	H0	
ANISOU	6494	HD22 ASN C	9	7310	9870	5400	-690	-680	2120	H0
ATOM	6495	N ILE C	10	-52.763	14.086	1.043	1.00	52.54	N0	
ANISOU	6495	N ILE C	10	6310	8630	5020	-540	-360	1580	N0
ATOM	6496	CA ILE C	10	-51.821	14.534	2.113	1.00	52.14	C0	
ANISOU	6496	CA ILE C	10	6280	8440	5090	-510	-250	1510	C0
ATOM	6497	C ILE C	10	-50.407	14.061	1.745	1.00	52.22	C0	
ANISOU	6497	C ILE C	10	6340	8500	5000	-610	-160	1400	C0
ATOM	6498	O ILE C	10	-49.482	14.879	1.838	1.00	52.06	O0	
ANISOU	6498	O ILE C	10	6370	8410	5000	-640	-90	1420	O0
ATOM	6499	CB ILE C	10	-52.269	14.062	3.511	1.00	50.76	C0	
ANISOU	6499	CB ILE C	10	6040	8190	5060	-430	-240	1410	C0
ATOM	6500	CG1 ILE C	10	-53.516	14.821	3.972	1.00	51.61	C0	
ANISOU	6500	CG1 ILE C	10	6090	8240	5280	-310	-300	1520	C0
ATOM	6501	CG2 ILE C	10	-51.135	14.192	4.521	1.00	49.56	C0	
ANISOU	6501	CG2 ILE C	10	5910	7920	5000	-420	-130	1300	C0
ATOM	6502	CD1 ILE C	10	-54.205	14.212	5.164	1.00	50.69	C0	
ANISOU	6502	CD1 ILE C	10	5880	8110	5270	-250	-300	1420	C0
ATOM	6503	H ILE C	10	-53.469	13.600	1.351	1.00	52.28	H0	
ANISOU	6503	H ILE C	10	6220	8630	5010	-510	-400	1550	H0
ATOM	6504	HA ILE C	10	-51.820	15.506	2.118	1.00	52.67	H0	
ANISOU	6504	HA ILE C	10	6380	8430	5200	-480	-250	1610	H0

ATOM 6505 HB ILE C 10	-52.508	13.105	3.444	1.00	50.48	H0	
ANISOU 6505 HB ILE C 10	5980	8220	4980	-450	-260	1330	H0
ATOM 6506 HG12 ILE C 10	-53.258	15.741	4.195	1.00	51.84	H0	
ANISOU 6506 HG12 ILE C 10	6150	8170	5370	-270	-280	1570	H0
ATOM 6507 HG13 ILE C 10	-54.153	14.861	3.228	1.00	52.49	H0	
ANISOU 6507 HG13 ILE C 10	6180	8430	5330	-310	-380	1600	H0
ATOM 6508 HG21 ILE C 10	-50.473	13.496	4.362	1.00	49.17	H0	
ANISOU 6508 HG21 ILE C 10	5880	7920	4890	-470	-90	1210	H0
ATOM 6509 HG22 ILE C 10	-51.486	14.098	5.423	1.00	48.90	H0	
ANISOU 6509 HG22 ILE C 10	5790	7780	5010	-360	-120	1260	H0
ATOM 6510 HG23 ILE C 10	-50.715	15.064	4.429	1.00	50.03	H0	
ANISOU 6510 HG23 ILE C 10	6010	7920	5080	-420	-100	1370	H0
ATOM 6511 HD11 ILE C 10	-54.281	13.250	5.040	1.00	50.30	H0	
ANISOU 6511 HD11 ILE C 10	5820	8140	5160	-310	-320	1350	H0
ATOM 6512 HD12 ILE C 10	-55.093	14.597	5.259	1.00	51.28	H0	
ANISOU 6512 HD12 ILE C 10	5900	8200	5380	-180	-350	1490	H0
ATOM 6513 HD13 ILE C 10	-53.688	14.394	5.968	1.00	49.90	H0	
ANISOU 6513 HD13 ILE C 10	5790	7920	5250	-230	-240	1370	H0
ATOM 6514 N ARG C 11	-50.257	12.807	1.308	1.00	53.10	N0	
ANISOU 6514 N ARG C 11	6440	8730	5000	-660	-170	1280	N0
ATOM 6515 CA ARG C 11	-48.966	12.223	0.846	1.00	54.41	C0	
ANISOU 6515 CA ARG C 11	6640	8980	5060	-740	-90	1150	C0
ATOM 6516 C ARG C 11	-48.389	13.044	-0.319	1.00	55.59	C0	
ANISOU 6516 C ARG C 11	6840	9210	5070	-830	-60	1260	C0
ATOM 6517 O ARG C 11	-47.151	13.156	-0.396	1.00	55.44	O0	
ANISOU 6517 O ARG C 11	6830	9230	5000	-890	30	1190	O0
ATOM 6518 CB ARG C 11	-49.164	10.758	0.449	1.00	55.92	C0	
ANISOU 6518 CB ARG C 11	6830	9280	5150	-760	-130	1010	C0
ATOM 6519 CG ARG C 11	-49.420	9.833	1.630	1.00	56.29	C0	
ANISOU 6519 CG ARG C 11	6850	9230	5310	-700	-140	880	C0
ATOM 6520 CD ARG C 11	-48.120	9.280	2.185	1.00	57.02	C0	
ANISOU 6520 CD ARG C 11	6950	9300	5410	-680	-50	710	C0
ATOM 6521 NE ARG C 11	-48.279	8.598	3.462	1.00	56.63	N0	
ANISOU 6521 NE ARG C 11	6890	9140	5490	-620	-60	610	N0
ATOM 6522 CZ ARG C 11	-48.910	7.439	3.636	1.00	57.33	C0	
ANISOU 6522 CZ ARG C 11	7000	9220	5560	-620	-130	530	C0
ATOM 6523 NH1 ARG C 11	-49.484	6.817	2.616	1.00	58.37	N0	
ANISOU 6523 NH1 ARG C 11	7160	9460	5560	-680	-200	540	N0
ATOM 6524 NH2 ARG C 11	-48.980	6.912	4.846	1.00	56.84	N0	
ANISOU 6524 NH2 ARG C 11	6940	9050	5600	-580	-130	460	N0
ATOM 6525 H ARG C 11	-50.953	12.221	1.273	1.00	53.10	H0	
ANISOU 6525 H ARG C 11	6410	8770	4990	-650	-220	1260	H0
ATOM 6526 HA ARG C 11	-48.329	12.260	1.597	1.00	53.61	H0	
ANISOU 6526 HA ARG C 11	6530	8810	5030	-710	-20	1080	H0
ATOM 6527 HB2 ARG C 11	-49.919	10.697	-0.169	1.00	56.60	H0	
ANISOU 6527 HB2 ARG C 11	6910	9420	5170	-780	-200	1080	H0
ATOM 6528 HB3 ARG C 11	-48.362	10.451	-0.025	1.00	56.22	H0	
ANISOU 6528 HB3 ARG C 11	6880	9390	5090	-800	-80	940	H0
ATOM 6529 HG2 ARG C 11	-49.888	10.326	2.337	1.00	55.76	H0	
ANISOU 6529 HG2 ARG C 11	6750	9080	5350	-650	-140	940	H0
ATOM 6530 HG3 ARG C 11	-49.993	9.092	1.344	1.00	56.42	H0	
ANISOU 6530 HG3 ARG C 11	6870	9300	5270	-710	-200	850	H0
ATOM 6531 HD2 ARG C 11	-47.736	8.654	1.535	1.00	57.34	H0	
ANISOU 6531 HD2 ARG C 11	7020	9420	5340	-710	-50	630	H0

ATOM 6532 HD3 ARG C 11	-47.484	10.018	2.297	1.00	56.88	H0	
ANISOU 6532 HD3 ARG C 11	6930	9260	5420	-680	10	740	H0
ATOM 6533 HE ARG C 11	-47.917	8.968	4.164	1.00	56.12	H0	
ANISOU 6533 HE ARG C 11	6820	9000	5510	-590	-20	600	H0
ATOM 6534 HH11 ARG C 11	-49.439	7.150	1.808	1.00	59.01	H0	
ANISOU 6534 HH11 ARG C 11	7240	9620	5560	-710	-200	590	H0
ATOM 6535 HH12 ARG C 11	-49.898	6.052	2.750	1.00	58.21	H0	
ANISOU 6535 HH12 ARG C 11	7160	9430	5530	-690	-250	490	H0
ATOM 6536 HH21 ARG C 11	-48.607	7.325	5.530	1.00	56.02	H0	
ANISOU 6536 HH21 ARG C 11	6820	8880	5580	-540	-90	450	H0
ATOM 6537 HH22 ARG C 11	-49.403	6.151	4.968	1.00	56.52	H0	
ANISOU 6537 HH22 ARG C 11	6920	9010	5550	-590	-180	410	H0
ATOM 6538 N GLN C 12	-49.245	13.604	-1.182	1.00	56.71	N0	
ANISOU 6538 N GLN C 12	7000	9400	5140	-850	-150	1420	N0
ATOM 6539 CA GLN C 12	-48.835	14.445	-2.340	1.00	58.89	C0	
ANISOU 6539 CA GLN C 12	7350	9750	5280	-950	-140	1560	C0
ATOM 6540 C GLN C 12	-48.525	15.880	-1.889	1.00	59.40	C0	
ANISOU 6540 C GLN C 12	7460	9660	5450	-950	-120	1690	C0
ATOM 6541 O GLN C 12	-47.628	16.492	-2.493	1.00	60.87	O0	
ANISOU 6541 O GLN C 12	7710	9890	5530	-1060	-60	1750	O0
ATOM 6542 CB GLN C 12	-49.918	14.467	-3.425	1.00	60.38	C0	
ANISOU 6542 CB GLN C 12	7550	10040	5350	-970	-270	1700	C0
ATOM 6543 CG GLN C 12	-50.361	13.088	-3.899	1.00	60.40	C0	
ANISOU 6543 CG GLN C 12	7520	10180	5250	-990	-310	1580	C0
ATOM 6544 CD GLN C 12	-49.211	12.170	-4.232	1.00	60.59	C0	
ANISOU 6544 CD GLN C 12	7550	10320	5160	-1060	-220	1390	C0
ATOM 6545 OE1 GLN C 12	-49.171	11.017	-3.812	1.00	61.18	O0	
ANISOU 6545 OE1 GLN C 12	7600	10400	5250	-1030	-210	1220	O0
ATOM 6546 NE2 GLN C 12	-48.252	12.685	-4.981	1.00	61.75	N0	
ANISOU 6546 NE2 GLN C 12	7740	10550	5180	-1160	-150	1420	N0
ATOM 6547 H GLN C 12	-50.145	13.494	-1.115	1.00	56.87	H0	
ANISOU 6547 H GLN C 12	7000	9410	5200	-810	-220	1470	H0
ATOM 6548 HA GLN C 12	-48.014	14.059	-2.723	1.00	58.99	H0	
ANISOU 6548 HA GLN C 12	7370	9850	5200	-1020	-80	1470	H0
ATOM 6549 HB2 GLN C 12	-50.696	14.949	-3.077	1.00	60.42	H0	
ANISOU 6549 HB2 GLN C 12	7550	9960	5450	-900	-330	1790	H0
ATOM 6550 HB3 GLN C 12	-49.575	14.971	-4.192	1.00	61.52	H0	
ANISOU 6550 HB3 GLN C 12	7750	10240	5390	-1050	-260	1780	H0
ATOM 6551 HG2 GLN C 12	-50.907	12.672	-3.204	1.00	59.56	H0	
ANISOU 6551 HG2 GLN C 12	7370	10020	5240	-920	-340	1530	H0
ATOM 6552 HG3 GLN C 12	-50.924	13.192	-4.695	1.00	61.53	H0	
ANISOU 6552 HG3 GLN C 12	7670	10400	5300	-1020	-390	1670	H0
ATOM 6553 HE21 GLN C 12	-47.432	12.754	-4.662	1.00	61.36	H0	
ANISOU 6553 HE21 GLN C 12	7680	10490	5150	-1170	-70	1350	H0
ATOM 6554 HE22 GLN C 12	-48.436	12.974	-5.796	1.00	62.85	H0	
ANISOU 6554 HE22 GLN C 12	7910	10770	5210	-1220	-180	1510	H0
ATOM 6555 N THR C 13	-49.239	16.409	-0.890	1.00	58.99	N0	
ANISOU 6555 N THR C 13	7390	9440	5580	-830	-150	1740	N0
ATOM 6556 CA THR C 13	-49.169	17.840	-0.475	1.00	59.91	C0	
ANISOU 6556 CA THR C 13	7580	9390	5800	-800	-150	1880	C0
ATOM 6557 C THR C 13	-48.177	18.022	0.685	1.00	58.28	C0	
ANISOU 6557 C THR C 13	7370	9060	5710	-800	-40	1770	C0
ATOM 6558 O THR C 13	-47.380	18.972	0.622	1.00	58.29	O0	
ANISOU 6558 O THR C 13	7450	9000	5700	-870	10	1830	O0

ATOM 6559 CB THR C 13	-50.564	18.391	-0.144	1.00	60.54	C0	
ANISOU 6559 CB THR C 13	7650	9360	5990	-650	-270	2000	C0
ATOM 6560 OG1 THR C 13	-51.179	17.551	0.837	1.00	59.75	O0	
ANISOU 6560 OG1 THR C 13	7440	9250	6010	-550	-270	1870	O0
ATOM 6561 CG2 THR C 13	-51.457	18.483	-1.362	1.00	61.91	C0	
ANISOU 6561 CG2 THR C 13	7840	9640	6040	-670	-390	2150	C0
ATOM 6562 H THR C 13	-49.830	15.930	-0.390	1.00	58.26	H0	
ANISOU 6562 H THR C 13	7250	9330	5550	-750	-180	1690	H0
ATOM 6563 HA THR C 13	-48.824	18.350	-1.244	1.00	60.99	H0	
ANISOU 6563 HA THR C 13	7780	9560	5830	-880	-150	1970	H0
ATOM 6564 HB THR C 13	-50.455	19.295	0.237	1.00	60.93	H0	
ANISOU 6564 HB THR C 13	7750	9280	6120	-620	-260	2070	H0
ATOM 6565 HG21 THR C 13	-51.050	19.073	-2.021	1.00	63.08	H0	
ANISOU 6565 HG21 THR C 13	8070	9790	6110	-740	-390	2240	H0
ATOM 6566 HG22 THR C 13	-52.326	18.839	-1.102	1.00	62.29	H0	
ANISOU 6566 HG22 THR C 13	7860	9630	6170	-560	-460	2220	H0
ATOM 6567 HG23 THR C 13	-51.573	17.597	-1.749	1.00	61.70	H0	
ANISOU 6567 HG23 THR C 13	7760	9750	5930	-700	-390	2080	H0
ATOM 6568 N SER C 14	-48.218	17.150	1.696	1.00	57.36	N0	
ANISOU 6568 N SER C 14	7170	8930	5690	-720	-10	1600	N0
ATOM 6569 CA SER C 14	-47.449	17.275	2.965	1.00	56.75	C0	
ANISOU 6569 CA SER C 14	7080	8740	5750	-690	80	1490	C0
ATOM 6570 C SER C 14	-45.950	17.103	2.710	1.00	56.74	C0	
ANISOU 6570 C SER C 14	7080	8820	5650	-810	190	1400	C0
ATOM 6571 O SER C 14	-45.569	16.098	2.086	1.00	56.99	O0	
ANISOU 6571 O SER C 14	7080	9020	5560	-860	200	1300	O0
ATOM 6572 CB SER C 14	-47.908	16.279	3.990	1.00	55.56	C0	
ANISOU 6572 CB SER C 14	6840	8570	5700	-600	80	1350	C0
ATOM 6573 OG SER C 14	-47.171	16.426	5.193	1.00	55.47	O0	
ANISOU 6573 OG SER C 14	6820	8450	5800	-570	160	1250	O0
ATOM 6574 H SER C 14	-48.734	16.400	1.681	1.00	56.89	H0	
ANISOU 6574 H SER C 14	7060	8930	5620	-680	-40	1550	H0
ATOM 6575 HA SER C 14	-47.601	18.190	3.326	1.00	57.05	H0	
ANISOU 6575 HA SER C 14	7160	8650	5870	-660	70	1580	H0
ATOM 6576 HB2 SER C 14	-48.864	16.411	4.171	1.00	55.76	H0	
ANISOU 6576 HB2 SER C 14	6850	8560	5780	-520	20	1410	H0
ATOM 6577 HB3 SER C 14	-47.784	15.369	3.640	1.00	55.41	H0	
ANISOU 6577 HB3 SER C 14	6800	8650	5600	-620	80	1270	H0
ATOM 6578 N ARG C 15	-45.144	18.050	3.195	1.00	57.39	N0	
ANISOU 6578 N ARG C 15	7210	8810	5790	-860	250	1420	N0
ATOM 6579 CA ARG C 15	-43.659	17.979	3.218	1.00	58.07	C0	
ANISOU 6579 CA ARG C 15	7280	8970	5820	-980	360	1320	C0
ATOM 6580 C ARG C 15	-43.216	17.897	4.677	1.00	55.19	C0	
ANISOU 6580 C ARG C 15	6870	8500	5610	-910	410	1200	C0
ATOM 6581 O ARG C 15	-43.061	18.922	5.334	1.00	55.15	O0	
ANISOU 6581 O ARG C 15	6920	8340	5700	-920	430	1260	O0
ATOM 6582 CB ARG C 15	-43.065	19.195	2.500	1.00	61.34	C0	
ANISOU 6582 CB ARG C 15	7780	9380	6140	-1130	380	1470	C0
ATOM 6583 CG ARG C 15	-43.510	19.353	1.052	1.00	64.94	C0	
ANISOU 6583 CG ARG C 15	8290	9950	6440	-1200	320	1610	C0
ATOM 6584 CD ARG C 15	-43.183	18.150	0.179	1.00	67.08	C0	
ANISOU 6584 CD ARG C 15	8490	10460	6540	-1240	350	1490	C0
ATOM 6585 NE ARG C 15	-44.308	17.232	0.014	1.00	68.26	N0	
ANISOU 6585 NE ARG C 15	8600	10640	6700	-1130	260	1470	N0

ATOM 6586 CZ ARG C 15	-44.289	16.109	-0.704	1.00	69.48		C0
ANISOU 6586 CZ ARG C 15	8710	10970	6720	-1140	260	1360	C0
ATOM 6587 NH1 ARG C 15	-43.189	15.732	-1.337	1.00	71.12		N0
ANISOU 6587 NH1 ARG C 15	8890	11360	6780	-1240	340	1270	N0
ATOM 6588 NH2 ARG C 15	-45.376	15.358	-0.779	1.00	69.29		N0
ANISOU 6588 NH2 ARG C 15	8660	10950	6710	-1050	170	1350	N0
ATOM 6589 H ARG C 15	-45.468	18.822	3.553	1.00	57.68		H0
ANISOU 6589 H ARG C 15	7290	8720	5910	-830	230	1510	H0
ATOM 6590 HA ARG C 15	-43.374	17.163	2.750	1.00	57.86		H0
ANISOU 6590 HA ARG C 15	7200	9090	5700	-1000	370	1240	H0
ATOM 6591 HB2 ARG C 15	-43.321	20.001	2.994	1.00	61.55		H0
ANISOU 6591 HB2 ARG C 15	7860	9260	6270	-1100	360	1550	H0
ATOM 6592 HB3 ARG C 15	-42.088	19.125	2.524	1.00	61.54		H0
ANISOU 6592 HB3 ARG C 15	7780	9480	6120	-1210	460	1400	H0
ATOM 6593 HG2 ARG C 15	-44.478	19.507	1.030	1.00	64.99		H0
ANISOU 6593 HG2 ARG C 15	8320	9880	6490	-1120	240	1690	H0
ATOM 6594 HG3 ARG C 15	-43.074	20.145	0.670	1.00	66.08		H0
ANISOU 6594 HG3 ARG C 15	8500	10080	6530	-1310	340	1710	H0
ATOM 6595 HD2 ARG C 15	-42.900	18.468	-0.705	1.00	68.28		H0
ANISOU 6595 HD2 ARG C 15	8680	10700	6560	-1350	360	1570	H0
ATOM 6596 HD3 ARG C 15	-42.430	17.663	0.576	1.00	66.35		H0
ANISOU 6596 HD3 ARG C 15	8330	10420	6450	-1250	420	1360	H0
ATOM 6597 HE ARG C 15	-45.055	17.440	0.407	1.00	67.81		H0
ANISOU 6597 HE ARG C 15	8560	10480	6730	-1050	210	1520	H0
ATOM 6598 HH11 ARG C 15	-42.463	16.223	-1.292	1.00	71.09		H0
ANISOU 6598 HH11 ARG C 15	8890	11360	6760	-1310	400	1270	H0
ATOM 6599 HH12 ARG C 15	-43.188	14.987	-1.804	1.00	70.79		H0
ANISOU 6599 HH12 ARG C 15	8820	11430	6650	-1240	340	1190	H0
ATOM 6600 HH21 ARG C 15	-46.110	15.604	-0.359	1.00	68.76		H0
ANISOU 6600 HH21 ARG C 15	8600	10780	6740	-980	120	1410	H0
ATOM 6601 HH22 ARG C 15	-45.365	14.614	-1.250	1.00	69.22		H0
ANISOU 6601 HH22 ARG C 15	8640	11050	6610	-1060	170	1280	H0
ATOM 6602 N PRO C 16	-43.023	16.682	5.243	1.00	52.67		N0
ANISOU 6602 N PRO C 16	6470	8240	5310	-840	430	1020	N0
ATOM 6603 CA PRO C 16	-42.724	16.536	6.669	1.00	51.08		C0
ANISOU 6603 CA PRO C 16	6230	7920	5250	-770	460	910	C0
ATOM 6604 C PRO C 16	-41.542	17.390	7.154	1.00	51.25		C0
ANISOU 6604 C PRO C 16	6260	7910	5300	-860	540	900	C0
ATOM 6605 O PRO C 16	-41.562	17.803	8.292	1.00	50.02		O0
ANISOU 6605 O PRO C 16	6120	7610	5280	-810	550	870	O0
ATOM 6606 CB PRO C 16	-42.394	15.043	6.820	1.00	50.06		C0
ANISOU 6606 CB PRO C 16	6030	7910	5080	-720	470	730	C0
ATOM 6607 CG PRO C 16	-43.146	14.378	5.685	1.00	50.49		C0
ANISOU 6607 CG PRO C 16	6090	8070	5020	-720	410	770	C0
ATOM 6608 CD PRO C 16	-43.108	15.384	4.553	1.00	52.40		C0
ANISOU 6608 CD PRO C 16	6390	8360	5160	-830	410	920	C0
ATOM 6609 HA PRO C 16	-43.534	16.749	7.195	1.00	50.65		H0
ANISOU 6609 HA PRO C 16	6190	7760	5290	-700	420	950	H0
ATOM 6610 HB2 PRO C 16	-41.429	14.886	6.738	1.00	50.25		H0
ANISOU 6610 HB2 PRO C 16	6030	8010	5060	-770	520	650	H0
ATOM 6611 HB3 PRO C 16	-42.699	14.703	7.688	1.00	49.12		H0
ANISOU 6611 HB3 PRO C 16	5900	7710	5050	-650	450	680	H0
ATOM 6612 HG2 PRO C 16	-42.709	13.543	5.422	1.00	50.53		H0
ANISOU 6612 HG2 PRO C 16	6070	8170	4950	-720	420	660	H0

ATOM 6613 HG3 PRO C 16	-44.069	14.184	5.946	1.00	50.16	H0	
ANISOU 6613 HG3 PRO C 16	6060	7970	5030	-660	350	800	H0
ATOM 6614 HD2 PRO C 16	-42.332	15.241	3.982	1.00	52.94	H0	
ANISOU 6614 HD2 PRO C 16	6440	8550	5130	-900	450	880	H0
ATOM 6615 HD3 PRO C 16	-43.916	15.328	4.011	1.00	52.72	H0	
ANISOU 6615 HD3 PRO C 16	6450	8420	5170	-810	350	1000	H0
ATOM 6616 N ASP C 17	-40.563	17.643	6.281	1.00	52.13	N0	
ANISOU 6616 N ASP C 17	6370	8160	5280	-990	600	910	N0
ATOM 6617 CA ASP C 17	-39.289	18.332	6.621	1.00	52.96	C0	
ANISOU 6617 CA ASP C 17	6470	8280	5380	-1110	680	880	C0
ATOM 6618 C ASP C 17	-39.363	19.830	6.289	1.00	54.01	C0	
ANISOU 6618 C ASP C 17	6720	8290	5510	-1230	680	1060	C0
ATOM 6619 O ASP C 17	-38.312	20.483	6.368	1.00	54.58	O0	
ANISOU 6619 O ASP C 17	6800	8390	5550	-1370	750	1060	O0
ATOM 6620 CB ASP C 17	-38.120	17.675	5.882	1.00	54.26	C0	
ANISOU 6620 CB ASP C 17	6540	8690	5380	-1200	760	760	C0
ATOM 6621 CG ASP C 17	-37.915	16.210	6.237	1.00	53.69	C0	
ANISOU 6621 CG ASP C 17	6370	8710	5320	-1070	760	560	C0
ATOM 6622 OD1 ASP C 17	-38.031	15.868	7.434	1.00	52.56	O0	
ANISOU 6622 OD1 ASP C 17	6210	8450	5310	-970	740	480	O0
ATOM 6623 OD2 ASP C 17	-37.634	15.426	5.314	1.00	54.86	O0	
ANISOU 6623 OD2 ASP C 17	6470	9040	5320	-1080	770	490	O0
ATOM 6624 H ASP C 17	-40.610	17.391	5.408	1.00	52.89	H0	
ANISOU 6624 H ASP C 17	6470	8360	5270	-1030	590	930	H0
ATOM 6625 HA ASP C 17	-39.135	18.235	7.589	1.00	52.11	H0	
ANISOU 6625 HA ASP C 17	6340	8090	5370	-1050	700	800	H0
ATOM 6626 HB2 ASP C 17	-38.276	17.739	4.919	1.00	55.18	H0	
ANISOU 6626 HB2 ASP C 17	6680	8890	5400	-1260	750	830	H0
ATOM 6627 HB3 ASP C 17	-37.294	18.158	6.091	1.00	54.74	H0	
ANISOU 6627 HB3 ASP C 17	6590	8770	5440	-1290	810	750	H0
ATOM 6628 N VAL C 18	-40.540	20.359	5.931	1.00	54.44	N0	
ANISOU 6628 N VAL C 18	6870	8220	5600	-1170	600	1220	N0
ATOM 6629 CA VAL C 18	-40.720	21.784	5.515	1.00	56.10	C0	
ANISOU 6629 CA VAL C 18	7220	8300	5800	-1270	560	1410	C0
ATOM 6630 C VAL C 18	-41.831	22.417	6.356	1.00	55.84	C0	
ANISOU 6630 C VAL C 18	7260	8020	5940	-1120	490	1480	C0
ATOM 6631 O VAL C 18	-42.985	21.955	6.254	1.00	54.85	O0	
ANISOU 6631 O VAL C 18	7110	7880	5850	-980	420	1510	O0
ATOM 6632 CB VAL C 18	-41.038	21.910	4.012	1.00	57.79	C0	
ANISOU 6632 CB VAL C 18	7480	8620	5850	-1350	520	1550	C0
ATOM 6633 CG1 VAL C 18	-41.193	23.365	3.587	1.00	59.42	C0	
ANISOU 6633 CG1 VAL C 18	7860	8680	6040	-1450	480	1760	C0
ATOM 6634 CG2 VAL C 18	-39.994	21.210	3.154	1.00	58.42	C0	
ANISOU 6634 CG2 VAL C 18	7480	8970	5740	-1490	600	1470	C0
ATOM 6635 H VAL C 18	-41.313	19.880	5.917	1.00	53.88	H0	
ANISOU 6635 H VAL C 18	6780	8140	5550	-1080	550	1220	H0
ATOM 6636 HA VAL C 18	-39.891	22.262	5.693	1.00	56.66	H0	
ANISOU 6636 HA VAL C 18	7300	8370	5860	-1370	620	1400	H0
ATOM 6637 HB VAL C 18	-41.903	21.460	3.857	1.00	57.29	H0	
ANISOU 6637 HB VAL C 18	7400	8560	5800	-1250	460	1570	H0
ATOM 6638 HG11 VAL C 18	-42.064	23.696	3.869	1.00	59.40	H0	
ANISOU 6638 HG11 VAL C 18	7910	8530	6130	-1340	410	1830	H0
ATOM 6639 HG12 VAL C 18	-41.120	23.431	2.619	1.00	60.59	H0	
ANISOU 6639 HG12 VAL C 18	8040	8920	6060	-1540	470	1840	H0

ATOM 6640 HG13 VAL C 18	-40.494	23.900	4.001	1.00	59.81		H0
ANISOU 6640 HG13 VAL C 18	7940	8670	6120	-1540	520	1750	H0
ATOM 6641 HG21 VAL C 18	-39.132	21.644	3.272	1.00	58.95		H0
ANISOU 6641 HG21 VAL C 18	7550	9060	5780	-1600	660	1450	H0
ATOM 6642 HG22 VAL C 18	-40.256	21.261	2.218	1.00	59.34		H0
ANISOU 6642 HG22 VAL C 18	7630	9160	5750	-1540	570	1550	H0
ATOM 6643 HG23 VAL C 18	-39.926	20.277	3.419	1.00	57.31		H0
ANISOU 6643 HG23 VAL C 18	7240	8910	5610	-1410	620	1330	H0
ATOM 6644 N ILE C 19	-41.487	23.451	7.131	1.00	56.67		N0
ANISOU 6644 N ILE C 19	7450	7950	6140	-1150	510	1510	N0
ATOM 6645 CA ILE C 19	-42.446	24.254	7.946	1.00	57.11		C0
ANISOU 6645 CA ILE C 19	7590	7750	6360	-1010	450	1570	C0
ATOM 6646 C ILE C 19	-43.457	24.905	7.003	1.00	59.27		C0
ANISOU 6646 C ILE C 19	7970	7950	6600	-970	340	1770	C0
ATOM 6647 O ILE C 19	-43.072	25.603	6.069	1.00	60.55		O0
ANISOU 6647 O ILE C 19	8240	8120	6650	-1110	330	1900	O0
ATOM 6648 CB ILE C 19	-41.709	25.288	8.825	1.00	57.42		C0
ANISOU 6648 CB ILE C 19	7720	7620	6480	-1090	490	1560	C0
ATOM 6649 CG1 ILE C 19	-42.663	25.935	9.832	1.00	57.43		C0
ANISOU 6649 CG1 ILE C 19	7790	7380	6650	-910	430	1580	C0
ATOM 6650 CG2 ILE C 19	-40.987	26.335	7.986	1.00	59.30		C0
ANISOU 6650 CG2 ILE C 19	8090	7820	6610	-1300	490	1710	C0
ATOM 6651 CD1 ILE C 19	-41.983	26.846	10.826	1.00	58.20		C0
ANISOU 6651 CD1 ILE C 19	7970	7300	6840	-980	470	1540	C0
ATOM 6652 H ILE C 19	-40.622	23.720	7.223	1.00	57.03		H0
ANISOU 6652 H ILE C 19	7500	8010	6160	-1260	560	1490	H0
ATOM 6653 HA ILE C 19	-42.919	23.644	8.536	1.00	55.93		H0
ANISOU 6653 HA ILE C 19	7360	7610	6280	-890	440	1490	H0
ATOM 6654 HB ILE C 19	-41.023	24.799	9.343	1.00	56.56		H0
ANISOU 6654 HB ILE C 19	7530	7590	6380	-1120	550	1440	H0
ATOM 6655 HG12 ILE C 19	-43.336	26.451	9.342	1.00	58.50		H0
ANISOU 6655 HG12 ILE C 19	8000	7440	6790	-870	370	1690	H0
ATOM 6656 HG13 ILE C 19	-43.128	25.226	10.323	1.00	56.23		H0
ANISOU 6656 HG13 ILE C 19	7540	7270	6550	-800	430	1490	H0
ATOM 6657 HG21 ILE C 19	-40.648	25.929	7.171	1.00	59.66		H0
ANISOU 6657 HG21 ILE C 19	8100	8030	6540	-1390	510	1720	H0
ATOM 6658 HG22 ILE C 19	-40.243	26.703	8.495	1.00	59.51		H0
ANISOU 6658 HG22 ILE C 19	8140	7810	6660	-1390	540	1660	H0
ATOM 6659 HG23 ILE C 19	-41.604	27.052	7.757	1.00	60.37		H0
ANISOU 6659 HG23 ILE C 19	8340	7820	6780	-1260	430	1830	H0
ATOM 6660 HD11 ILE C 19	-41.212	26.393	11.208	1.00	57.29		H0
ANISOU 6660 HD11 ILE C 19	7780	7280	6710	-1040	540	1430	H0
ATOM 6661 HD12 ILE C 19	-42.607	27.076	11.535	1.00	57.76		H0
ANISOU 6661 HD12 ILE C 19	7940	7120	6890	-850	450	1510	H0
ATOM 6662 HD13 ILE C 19	-41.691	27.658	10.377	1.00	59.48		H0
ANISOU 6662 HD13 ILE C 19	8250	7390	6960	-1080	460	1640	H0
ATOM 6663 N PRO C 20	-44.780	24.694	7.214	1.00	59.91		N0
ANISOU 6663 N PRO C 20	8020	7980	6760	-780	260	1790	N0
ATOM 6664 CA PRO C 20	-45.807	25.247	6.329	1.00	61.88		C0
ANISOU 6664 CA PRO C 20	8350	8180	6990	-710	150	1960	C0
ATOM 6665 C PRO C 20	-46.196	26.698	6.661	1.00	64.89		C0
ANISOU 6665 C PRO C 20	8900	8290	7470	-650	90	2090	C0
ATOM 6666 O PRO C 20	-47.331	26.926	7.042	1.00	65.18		O0
ANISOU 6666 O PRO C 20	8930	8220	7610	-450	10	2110	O0

ATOM 6667 CB PRO C 20	-46.979	24.284	6.573	1.00	60.21	C0	
ANISOU 6667 CB PRO C 20	8000	8050	6830	-530	100	1900	C0
ATOM 6668 CG PRO C 20	-46.849	23.918	8.036	1.00	58.39	C0	
ANISOU 6668 CG PRO C 20	7690	7760	6730	-450	170	1730	C0
ATOM 6669 CD PRO C 20	-45.358	23.888	8.304	1.00	57.64	C0	
ANISOU 6669 CD PRO C 20	7610	7700	6600	-620	270	1640	C0
ATOM 6670 HA PRO C 20	-45.510	25.177	5.387	1.00	62.70	H0	
ANISOU 6670 HA PRO C 20	8480	8380	6960	-820	140	2030	H0
ATOM 6671 HB2 PRO C 20	-47.840	24.718	6.395	1.00	61.11	H0	
ANISOU 6671 HB2 PRO C 20	8150	8090	6970	-430	20	1990	H0
ATOM 6672 HB3 PRO C 20	-46.902	23.488	6.006	1.00	59.87	H0	
ANISOU 6672 HB3 PRO C 20	7890	8170	6690	-580	110	1870	H0
ATOM 6673 HG2 PRO C 20	-47.289	24.585	8.601	1.00	58.74	H0	
ANISOU 6673 HG2 PRO C 20	7780	7660	6870	-360	140	1750	H0
ATOM 6674 HG3 PRO C 20	-47.249	23.042	8.211	1.00	57.33	H0	
ANISOU 6674 HG3 PRO C 20	7460	7730	6600	-390	170	1650	H0
ATOM 6675 HD2 PRO C 20	-45.150	24.278	9.173	1.00	57.55	H0	
ANISOU 6675 HD2 PRO C 20	7620	7570	6670	-590	300	1590	H0
ATOM 6676 HD3 PRO C 20	-45.019	22.975	8.278	1.00	56.81	H0	
ANISOU 6676 HD3 PRO C 20	7410	7730	6440	-640	310	1550	H0
ATOM 6677 N THR C 21	-45.253	27.634	6.516	1.00	67.80	N0	
ANISOU 6677 N THR C 21	9410	8550	7800	-810	110	2150	N0
ATOM 6678 CA THR C 21	-45.486	29.097	6.642	1.00	71.93	C0	
ANISOU 6678 CA THR C 21	10140	8790	8400	-790	40	2290	C0
ATOM 6679 C THR C 21	-45.858	29.652	5.266	1.00	76.60	C0	
ANISOU 6679 C THR C 21	10860	9370	8870	-850	-60	2510	C0
ATOM 6680 O THR C 21	-44.962	29.713	4.401	1.00	76.77	O0	
ANISOU 6680 O THR C 21	10940	9500	8730	-1080	-30	2580	O0
ATOM 6681 CB THR C 21	-44.261	29.858	7.168	1.00	73.01	C0	
ANISOU 6681 CB THR C 21	10390	8800	8540	-970	110	2270	C0
ATOM 6682 OG1 THR C 21	-43.189	29.702	6.236	1.00	74.35	O0	
ANISOU 6682 OG1 THR C 21	10570	9150	8530	-1230	170	2310	O0
ATOM 6683 CG2 THR C 21	-43.819	29.411	8.544	1.00	70.81	C0	
ANISOU 6683 CG2 THR C 21	10000	8530	8380	-930	210	2060	C0
ATOM 6684 H THR C 21	-44.386	27.438	6.320	1.00	67.76	H0	
ANISOU 6684 H THR C 21	9390	8630	7720	-960	180	2120	H0
ATOM 6685 HA THR C 21	-46.239	29.240	7.260	1.00	71.84	H0	
ANISOU 6685 HA THR C 21	10120	8680	8500	-620	0	2260	H0
ATOM 6686 HB THR C 21	-44.497	30.815	7.214	1.00	74.40	H0	
ANISOU 6686 HB THR C 21	10720	8780	8770	-950	50	2360	H0
ATOM 6687 HG21 THR C 21	-44.480	29.687	9.204	1.00	70.75	H0	
ANISOU 6687 HG21 THR C 21	10010	8380	8490	-770	170	2040	H0
ATOM 6688 HG22 THR C 21	-42.960	29.816	8.757	1.00	71.30	H0	
ANISOU 6688 HG22 THR C 21	10120	8550	8420	-1070	260	2050	H0
ATOM 6689 HG23 THR C 21	-43.732	28.442	8.559	1.00	69.48	H0	
ANISOU 6689 HG23 THR C 21	9690	8530	8180	-920	250	1970	H0
ATOM 6690 N GLN C 22	-47.127	30.029	5.087	1.00	80.61	N0	
ANISOU 6690 N GLN C 22	11410	9770	9440	-640	-190	2610	N0
ATOM 6691 CA GLN C 22	-47.644	30.735	3.884	1.00	84.52	C0	
ANISOU 6691 CA GLN C 22	12060	10210	9840	-650	-320	2830	C0
ATOM 6692 C GLN C 22	-47.354	32.232	4.047	1.00	86.96	C0	
ANISOU 6692 C GLN C 22	12630	10210	10200	-700	-380	2960	C0
ATOM 6693 O GLN C 22	-47.801	32.800	5.061	1.00	88.51	O0	
ANISOU 6693 O GLN C 22	12880	10190	10570	-520	-400	2900	O0

ATOM 6694 CB GLN C 22	-49.147	30.484	3.713	1.00	85.80		C0
ANISOU 6694 CB GLN C 22	12140	10400	10060	-390	-440	2870	C0
ATOM 6695 CG GLN C 22	-49.546	29.011	3.740	1.00	84.45		C0
ANISOU 6695 CG GLN C 22	11720	10510	9860	-340	-390	2730	C0
ATOM 6696 CD GLN C 22	-48.939	28.212	2.611	1.00	84.93		C0
ANISOU 6696 CD GLN C 22	11730	10820	9720	-540	-350	2760	C0
ATOM 6697 OE1 GLN C 22	-48.809	28.688	1.483	1.00	87.47		O0
ANISOU 6697 OE1 GLN C 22	12170	11150	9910	-660	-410	2930	O0
ATOM 6698 NE2 GLN C 22	-48.566	26.978	2.909	1.00	83.15		N0
ANISOU 6698 NE2 GLN C 22	11330	10790	9470	-580	-250	2580	N0
ATOM 6699 H GLN C 22	-47.766	29.884	5.720	1.00	79.54		H0
ANISOU 6699 H GLN C 22	11210	9600	9410	-480	-200	2540	H0
ATOM 6700 HA GLN C 22	-47.167	30.399	3.091	1.00	84.62		H0
ANISOU 6700 HA GLN C 22	12060	10370	9710	-810	-290	2870	H0
ATOM 6701 HB2 GLN C 22	-49.622	30.954	4.429	1.00	85.92		H0
ANISOU 6701 HB2 GLN C 22	12180	10260	10210	-240	-470	2850	H0
ATOM 6702 HB3 GLN C 22	-49.431	30.875	2.861	1.00	87.26		H0
ANISOU 6702 HB3 GLN C 22	12420	10570	10170	-410	-530	3020	H0
ATOM 6703 HG2 GLN C 22	-49.270	28.618	4.595	1.00	82.93		H0
ANISOU 6703 HG2 GLN C 22	11440	10320	9750	-320	-310	2590	H0
ATOM 6704 HG3 GLN C 22	-50.523	28.945	3.685	1.00	84.70		H0
ANISOU 6704 HG3 GLN C 22	11700	10550	9940	-180	-470	2760	H0
ATOM 6705 HE21 GLN C 22	-47.942	26.576	2.429	1.00	82.83		H0
ANISOU 6705 HE21 GLN C 22	11270	10880	9330	-720	-200	2560	H0
ATOM 6706 HE22 GLN C 22	-48.941	26.553	3.588	1.00	81.84		H0
ANISOU 6706 HE22 GLN C 22	11070	10630	9400	-470	-230	2480	H0
ATOM 6707 N ARG C 23	-46.621	32.830	3.100	1.00	88.36		N0
ANISOU 6707 N ARG C 23	12980	10370	10230	-940	-390	3120	N0
ATOM 6708 CA ARG C 23	-46.301	34.287	3.043	1.00	90.76		C0
ANISOU 6708 CA ARG C 23	13580	10360	10540	-1030	-460	3270	C0
ATOM 6709 C ARG C 23	-45.506	34.711	4.290	1.00	89.10		C0
ANISOU 6709 C ARG C 23	13410	9990	10450	-1090	-370	3140	C0
ATOM 6710 O ARG C 23	-45.776	35.811	4.825	1.00	90.24		O0
ANISOU 6710 O ARG C 23	13750	9820	10710	-1000	-450	3190	O0
ATOM 6711 CB ARG C 23	-47.585	35.110	2.860	1.00	93.37		C0
ANISOU 6711 CB ARG C 23	14050	10460	10960	-780	-650	3420	C0
ATOM 6712 CG ARG C 23	-47.651	35.888	1.553	1.00	96.58		C0
ANISOU 6712 CG ARG C 23	14690	10790	11220	-900	-780	3680	C0
ATOM 6713 CD ARG C 23	-46.481	36.843	1.388	1.00	98.87		C0
ANISOU 6713 CD ARG C 23	15220	10910	11430	-1200	-750	3790	C0
ATOM 6714 NE ARG C 23	-46.687	37.832	0.336	1.00	102.74		N0
ANISOU 6714 NE ARG C 23	15990	11230	11810	-1280	-910	4060	N0
ATOM 6715 CZ ARG C 23	-46.591	37.597	-0.974	1.00	104.43		C0
ANISOU 6715 CZ ARG C 23	16220	11640	11820	-1450	-940	4210	C0
ATOM 6716 NH1 ARG C 23	-46.793	38.583	-1.834	1.00	107.38		N0
ANISOU 6716 NH1 ARG C 23	16880	11820	12100	-1520	-1100	4460	N0
ATOM 6717 NH2 ARG C 23	-46.304	36.386	-1.425	1.00	102.77		N0
ANISOU 6717 NH2 ARG C 23	15770	11800	11480	-1540	-830	4110	N0
ATOM 6718 H ARG C 23	-46.260	32.363	2.407	1.00	88.29		H0
ANISOU 6718 H ARG C 23	12920	10540	10090	-1070	-360	3140	H0
ATOM 6719 HA ARG C 23	-45.727	34.430	2.257	1.00	91.73		H0
ANISOU 6719 HA ARG C 23	13770	10560	10530	-1230	-460	3370	H0
ATOM 6720 HB2 ARG C 23	-48.353	34.503	2.900	1.00	92.31		H0
ANISOU 6720 HB2 ARG C 23	13770	10440	10870	-600	-670	3370	H0

ATOM 6721 HB3 ARG C 23	-47.667	35.741	3.604	1.00	93.72		H0
ANISOU 6721 HB3 ARG C 23	14190	10290	11130	-690	-660	3390	H0
ATOM 6722 HG2 ARG C 23	-47.657	35.258	0.802	1.00	96.23		H0
ANISOU 6722 HG2 ARG C 23	14550	10960	11060	-970	-770	3710	H0
ATOM 6723 HG3 ARG C 23	-48.487	36.401	1.523	1.00	97.85		H0
ANISOU 6723 HG3 ARG C 23	14930	10790	11450	-710	-900	3760	H0
ATOM 6724 HD2 ARG C 23	-46.331	37.311	2.237	1.00	98.88		H0
ANISOU 6724 HD2 ARG C 23	15290	10730	11550	-1150	-730	3720	H0
ATOM 6725 HD3 ARG C 23	-45.671	36.329	1.186	1.00	98.00		H0
ANISOU 6725 HD3 ARG C 23	15020	11000	11210	-1400	-640	3730	H0
ATOM 6726 HE ARG C 23	-46.874	38.646	0.582	1.00	104.22		H0
ANISOU 6726 HE ARG C 23	16350	11170	12070	-1220	-990	4120	H0
ATOM 6727 HH11 ARG C 23	-46.987	39.388	-1.541	1.00	108.81		H0
ANISOU 6727 HH11 ARG C 23	17240	11750	12360	-1450	-1180	4530	H0
ATOM 6728 HH12 ARG C 23	-46.737	38.430	-2.698	1.00	108.15		H0
ANISOU 6728 HH12 ARG C 23	16990	12050	12050	-1630	-1120	4570	H0
ATOM 6729 HH21 ARG C 23	-46.166	35.723	-0.866	1.00	100.63		H0
ANISOU 6729 HH21 ARG C 23	15320	11640	11270	-1500	-740	3950	H0
ATOM 6730 HH22 ARG C 23	-46.247	36.246	-2.293	1.00	103.40		H0
ANISOU 6730 HH22 ARG C 23	15860	12010	11420	-1650	-860	4210	H0
ATOM 6731 N ASP C 24	-44.555	33.874	4.722	1.00	85.87		N0
ANISOU 6731 N ASP C 24	12830	9790	10010	-1230	-220	2970	N0
ATOM 6732 CA ASP C 24	-43.600	34.142	5.834	1.00	84.52		C0
ANISOU 6732 CA ASP C 24	12670	9530	9920	-1340	-110	2830	C0
ATOM 6733 C ASP C 24	-44.341	34.523	7.127	1.00	82.81		C0
ANISOU 6733 C ASP C 24	12470	9080	9910	-1070	-140	2720	C0
ATOM 6734 O ASP C 24	-43.780	35.310	7.924	1.00	83.66		O0
ANISOU 6734 O ASP C 24	12710	8980	10100	-1140	-120	2680	O0
ATOM 6735 CB ASP C 24	-42.596	35.232	5.448	1.00	87.16		C0
ANISOU 6735 CB ASP C 24	13240	9720	10150	-1630	-110	2960	C0
ATOM 6736 CG ASP C 24	-41.409	35.301	6.392	1.00	87.19		C0
ANISOU 6736 CG ASP C 24	13210	9730	10190	-1810	10	2810	C0
ATOM 6737 OD1 ASP C 24	-40.690	34.288	6.496	1.00	85.65		O0
ANISOU 6737 OD1 ASP C 24	12790	9820	9930	-1900	130	2670	O0
ATOM 6738 OD2 ASP C 24	-41.233	36.354	7.041	1.00	89.55		O0
ANISOU 6738 OD2 ASP C 24	13710	9740	10570	-1840	-20	2830	O0
ATOM 6739 H ASP C 24	-44.428	33.057	4.341	1.00	84.95		H0
ANISOU 6739 H ASP C 24	12570	9900	9810	-1270	-170	2920	H0
ATOM 6740 HA ASP C 24	-43.095	33.313	6.003	1.00	82.87		H0
ANISOU 6740 HA ASP C 24	12290	9520	9670	-1400	-10	2700	H0
ATOM 6741 HB2 ASP C 24	-42.265	35.058	4.543	1.00	87.88		H0
ANISOU 6741 HB2 ASP C 24	13330	9960	10100	-1780	-110	3040	H0
ATOM 6742 HB3 ASP C 24	-43.048	36.101	5.448	1.00	88.87		H0
ANISOU 6742 HB3 ASP C 24	13640	9700	10420	-1560	-210	3060	H0
ATOM 6743 N ARG C 25	-45.540	33.971	7.348	1.00	79.88		N0
ANISOU 6743 N ARG C 25	11970	8750	9630	-790	-190	2670	N0
ATOM 6744 CA ARG C 25	-46.328	34.159	8.597	1.00	77.52		C0
ANISOU 6744 CA ARG C 25	11640	8290	9530	-520	-210	2550	C0
ATOM 6745 C ARG C 25	-45.984	33.022	9.555	1.00	72.02		C0
ANISOU 6745 C ARG C 25	10700	7790	8870	-510	-80	2320	C0
ATOM 6746 O ARG C 25	-45.957	31.863	9.142	1.00	69.89		O0
ANISOU 6746 O ARG C 25	10240	7790	8520	-540	-30	2270	O0
ATOM 6747 CB ARG C 25	-47.830	34.175	8.298	1.00	78.84		C0
ANISOU 6747 CB ARG C 25	11770	8430	9760	-230	-330	2620	C0

ATOM 6748 CG ARG C 25	-48.236	35.188	7.237	1.00	82.66		C0
ANISOU 6748 CG ARG C 25	12480	8740	10180	-230	-490	2850	C0
ATOM 6749 CD ARG C 25	-49.719	35.184	6.910	1.00	84.13		C0
ANISOU 6749 CD ARG C 25	12620	8920	10430	70	-620	2920	C0
ATOM 6750 NE ARG C 25	-50.255	33.866	6.576	1.00	82.44		N0
ANISOU 6750 NE ARG C 25	12130	9030	10160	120	-590	2860	N0
ATOM 6751 CZ ARG C 25	-51.349	33.643	5.849	1.00	83.62		C0
ANISOU 6751 CZ ARG C 25	12210	9280	10280	280	-700	2950	C0
ATOM 6752 NH1 ARG C 25	-52.046	34.649	5.341	1.00	86.64		N0
ANISOU 6752 NH1 ARG C 25	12770	9470	10680	420	-860	3120	N0
ATOM 6753 NH2 ARG C 25	-51.740	32.400	5.620	1.00	82.03		N0
ANISOU 6753 NH2 ARG C 25	11770	9370	10020	300	-660	2880	N0
ATOM 6754 H ARG C 25	-45.946	33.425	6.743	1.00	79.56		H0
ANISOU 6754 H ARG C 25	11840	8860	9530	-750	-220	2710	H0
ATOM 6755 HA ARG C 25	-46.072	35.016	9.004	1.00	78.56		H0
ANISOU 6755 HA ARG C 25	11930	8210	9710	-550	-230	2560	H0
ATOM 6756 HB2 ARG C 25	-48.095	33.280	8.002	1.00	77.66		H0
ANISOU 6756 HB2 ARG C 25	11450	8490	9560	-210	-310	2580	H0
ATOM 6757 HB3 ARG C 25	-48.312	34.374	9.127	1.00	78.73		H0
ANISOU 6757 HB3 ARG C 25	11740	8310	9860	-60	-340	2530	H0
ATOM 6758 HG2 ARG C 25	-47.987	36.086	7.545	1.00	83.94		H0
ANISOU 6758 HG2 ARG C 25	12830	8670	10390	-250	-510	2890	H0
ATOM 6759 HG3 ARG C 25	-47.735	35.008	6.415	1.00	82.86		H0
ANISOU 6759 HG3 ARG C 25	12530	8880	10080	-410	-480	2940	H0
ATOM 6760 HD2 ARG C 25	-50.210	35.538	7.680	1.00	84.24		H0
ANISOU 6760 HD2 ARG C 25	12640	8800	10560	250	-640	2850	H0
ATOM 6761 HD3 ARG C 25	-49.872	35.792	6.156	1.00	85.91		H0
ANISOU 6761 HD3 ARG C 25	12990	9050	10600	50	-720	3080	H0
ATOM 6762 HE ARG C 25	-49.836	33.170	6.887	1.00	80.84		H0
ANISOU 6762 HE ARG C 25	11810	8970	9940	50	-490	2750	H0
ATOM 6763 HH11 ARG C 25	-51.800	35.478	5.487	1.00	87.79		H0
ANISOU 6763 HH11 ARG C 25	13090	9400	10860	410	-890	3170	H0
ATOM 6764 HH12 ARG C 25	-52.764	34.484	4.861	1.00	87.00		H0
ANISOU 6764 HH12 ARG C 25	12760	9590	10710	530	-940	3180	H0
ATOM 6765 HH21 ARG C 25	-51.280	31.726	5.951	1.00	80.32		H0
ANISOU 6765 HH21 ARG C 25	11450	9270	9790	220	-570	2770	H0
ATOM 6766 HH22 ARG C 25	-52.460	32.248	5.135	1.00	82.49		H0
ANISOU 6766 HH22 ARG C 25	11780	9500	10060	400	-740	2940	H0
ATOM 6767 N PRO C 26	-45.721	33.308	10.851	1.00	68.81		N0
ANISOU 6767 N PRO C 26	10300	7250	8590	-470	-20	2180	N0
ATOM 6768 CA PRO C 26	-45.381	32.258	11.809	1.00	65.25		C0
ANISOU 6768 CA PRO C 26	9640	6970	8180	-460	90	1980	C0
ATOM 6769 C PRO C 26	-46.506	31.218	11.910	1.00	62.58		C0
ANISOU 6769 C PRO C 26	9100	6810	7870	-240	80	1910	C0
ATOM 6770 O PRO C 26	-47.664	31.599	11.867	1.00	63.47		O0
ANISOU 6770 O PRO C 26	9230	6830	8050	-30	-10	1970	O0
ATOM 6771 CB PRO C 26	-45.178	32.994	13.145	1.00	65.42		C0
ANISOU 6771 CB PRO C 26	9760	6770	8330	-410	120	1870	C0
ATOM 6772 CG PRO C 26	-45.857	34.336	12.957	1.00	68.26		C0
ANISOU 6772 CG PRO C 26	10350	6830	8760	-290	0	2000	C0
ATOM 6773 CD PRO C 26	-45.765	34.639	11.475	1.00	70.35		C0
ANISOU 6773 CD PRO C 26	10730	7110	8890	-420	-70	2210	C0
ATOM 6774 HA PRO C 26	-44.535	31.824	11.536	1.00	64.56		H0
ANISOU 6774 HA PRO C 26	9510	7030	8000	-630	160	1960	H0

ATOM 6775 HB2 PRO C 26	-45.589	32.497	13.884	1.00	64.25	H0	
ANISOU 6775 HB2 PRO C 26	9490	6680	8250	-280	150	1750	H0
ATOM 6776 HB3 PRO C 26	-44.224	33.112	13.337	1.00	65.38	H0	
ANISOU 6776 HB3 PRO C 26	9780	6770	8290	-580	180	1830	H0
ATOM 6777 HG2 PRO C 26	-46.793	34.293	13.241	1.00	68.28	H0	
ANISOU 6777 HG2 PRO C 26	10300	6800	8840	-80	-40	1970	H0
ATOM 6778 HG3 PRO C 26	-45.403	35.029	13.478	1.00	69.09	H0	
ANISOU 6778 HG3 PRO C 26	10580	6760	8900	-350	20	1970	H0
ATOM 6779 HD2 PRO C 26	-46.543	35.142	11.174	1.00	71.64	H0	
ANISOU 6779 HD2 PRO C 26	10980	7150	9090	-270	-170	2300	H0
ATOM 6780 HD3 PRO C 26	-44.959	35.147	11.270	1.00	71.23	H0	
ANISOU 6780 HD3 PRO C 26	10960	7150	8950	-610	-60	2260	H0
ATOM 6781 N VAL C 27	-46.135	29.939	11.997	1.00	59.21	N0	
ANISOU 6781 N VAL C 27	8480	6630	7390	-300	160	1800	N0
ATOM 6782 CA VAL C 27	-47.061	28.817	12.325	1.00	57.10	C0	
ANISOU 6782 CA VAL C 27	8010	6530	7150	-130	160	1700	C0
ATOM 6783 C VAL C 27	-47.412	28.937	13.811	1.00	55.70	C0	
ANISOU 6783 C VAL C 27	7790	6250	7120	10	200	1560	C0
ATOM 6784 O VAL C 27	-46.505	28.771	14.651	1.00	54.28	O0	
ANISOU 6784 O VAL C 27	7600	6070	6960	-90	280	1440	O0
ATOM 6785 CB VAL C 27	-46.449	27.442	11.990	1.00	55.46	C0	
ANISOU 6785 CB VAL C 27	7640	6590	6840	-260	230	1620	C0
ATOM 6786 CG1 VAL C 27	-47.313	26.299	12.499	1.00	54.18	C0	
ANISOU 6786 CG1 VAL C 27	7300	6570	6720	-110	230	1520	C0
ATOM 6787 CG2 VAL C 27	-46.191	27.290	10.500	1.00	56.85	C0	
ANISOU 6787 CG2 VAL C 27	7840	6890	6860	-390	200	1760	C0
ATOM 6788 H VAL C 27	-45.275	29.669	11.861	1.00	58.95	H0	
ANISOU 6788 H VAL C 27	8430	6680	7290	-450	220	1770	H0
ATOM 6789 HA VAL C 27	-47.876	28.929	11.803	1.00	57.82	H0	
ANISOU 6789 HA VAL C 27	8100	6620	7240	-30	90	1790	H0
ATOM 6790 HB VAL C 27	-45.577	27.388	12.453	1.00	55.06	H0	
ANISOU 6790 HB VAL C 27	7590	6540	6790	-360	300	1550	H0
ATOM 6791 HG11 VAL C 27	-47.164	26.177	13.453	1.00	53.28	H0	
ANISOU 6791 HG11 VAL C 27	7150	6430	6670	-80	280	1410	H0
ATOM 6792 HG12 VAL C 27	-47.079	25.479	12.029	1.00	53.33	H0	
ANISOU 6792 HG12 VAL C 27	7110	6620	6530	-180	250	1500	H0
ATOM 6793 HG13 VAL C 27	-48.251	26.505	12.341	1.00	54.70	H0	
ANISOU 6793 HG13 VAL C 27	7360	6610	6820	10	170	1570	H0
ATOM 6794 HG21 VAL C 27	-47.026	27.399	10.012	1.00	57.36	H0	
ANISOU 6794 HG21 VAL C 27	7910	6950	6930	-290	120	1840	H0
ATOM 6795 HG22 VAL C 27	-45.825	26.406	10.321	1.00	55.62	H0	
ANISOU 6795 HG22 VAL C 27	7590	6900	6640	-450	240	1690	H0
ATOM 6796 HG23 VAL C 27	-45.556	27.967	10.210	1.00	57.74	H0	
ANISOU 6796 HG23 VAL C 27	8070	6930	6940	-510	200	1820	H0
ATOM 6797 N ALA C 28	-48.673	29.253	14.109	1.00	55.97	N0	
ANISOU 6797 N ALA C 28	7810	6210	7240	240	130	1570	N0
ATOM 6798 CA ALA C 28	-49.211	29.385	15.481	1.00	55.76	C0	
ANISOU 6798 CA ALA C 28	7730	6110	7340	400	160	1430	C0
ATOM 6799 C ALA C 28	-49.446	27.986	16.063	1.00	53.33	C0	
ANISOU 6799 C ALA C 28	7210	6030	7020	420	220	1300	C0
ATOM 6800 O ALA C 28	-50.395	27.308	15.626	1.00	52.77	O0	
ANISOU 6800 O ALA C 28	7010	6110	6930	510	180	1330	O0
ATOM 6801 CB ALA C 28	-50.476	30.207	15.458	1.00	57.63	C0	
ANISOU 6801 CB ALA C 28	8020	6220	7670	640	70	1490	C0

ATOM 6802 H ALA C 28	-49.307	29.410	13.474	1.00	56.97	H0	
ANISOU 6802 H ALA C 28	7950	6340	7360	310	60	1660	H0
ATOM 6803 HA ALA C 28	-48.542	29.846	16.035	1.00	55.80	H0	
ANISOU 6803 HA ALA C 28	7820	6000	7380	330	200	1380	H0
ATOM 6804 HB1 ALA C 28	-50.798	30.334	16.367	1.00	57.50	H0	
ANISOU 6804 HB1 ALA C 28	7970	6150	7730	750	90	1400	H0
ATOM 6805 HB2 ALA C 28	-50.294	31.073	15.058	1.00	59.07	H0	
ANISOU 6805 HB2 ALA C 28	8350	6240	7850	630	20	1590	H0
ATOM 6806 HB3 ALA C 28	-51.155	29.747	14.937	1.00	57.55	H0	
ANISOU 6806 HB3 ALA C 28	7910	6330	7630	710	20	1540	H0
ATOM 6807 N VAL C 29	-48.595	27.566	16.999	1.00	51.62	N0	
ANISOU 6807 N VAL C 29	6960	5840	6820	320	310	1160	N0
ATOM 6808 CA VAL C 29	-48.690	26.239	17.671	1.00	49.91	C0	
ANISOU 6808 CA VAL C 29	6570	5810	6590	320	370	1030	C0
ATOM 6809 C VAL C 29	-49.339	26.444	19.044	1.00	50.09	C0	
ANISOU 6809 C VAL C 29	6550	5770	6710	470	400	910	C0
ATOM 6810 O VAL C 29	-48.810	27.240	19.836	1.00	49.86	O0	
ANISOU 6810 O VAL C 29	6620	5580	6740	450	430	860	O0
ATOM 6811 CB VAL C 29	-47.311	25.565	17.788	1.00	48.52	C0	
ANISOU 6811 CB VAL C 29	6380	5720	6340	130	440	960	C0
ATOM 6812 CG1 VAL C 29	-47.400	24.204	18.466	1.00	46.70	C0	
ANISOU 6812 CG1 VAL C 29	5990	5660	6100	130	480	830	C0
ATOM 6813 CG2 VAL C 29	-46.633	25.447	16.431	1.00	48.67	C0	
ANISOU 6813 CG2 VAL C 29	6430	5810	6250	-20	420	1070	C0
ATOM 6814 H VAL C 29	-47.894	28.071	17.289	1.00	52.04	H0	
ANISOU 6814 H VAL C 29	7100	5790	6880	250	340	1140	H0
ATOM 6815 HA VAL C 29	-49.267	25.666	17.138	1.00	49.68	H0	
ANISOU 6815 HA VAL C 29	6460	5900	6520	360	340	1070	H0
ATOM 6816 HB VAL C 29	-46.747	26.146	18.355	1.00	48.77	H0	
ANISOU 6816 HB VAL C 29	6480	5640	6410	90	470	920	H0
ATOM 6817 HG11 VAL C 29	-47.709	24.315	19.381	1.00	46.57	H0	
ANISOU 6817 HG11 VAL C 29	5960	5600	6140	200	500	760	H0
ATOM 6818 HG12 VAL C 29	-46.522	23.785	18.470	1.00	46.02	H0	
ANISOU 6818 HG12 VAL C 29	5900	5620	5960	30	520	790	H0
ATOM 6819 HG13 VAL C 29	-48.025	23.640	17.979	1.00	46.52	H0	
ANISOU 6819 HG13 VAL C 29	5900	5730	6040	170	450	870	H0
ATOM 6820 HG21 VAL C 29	-47.240	25.022	15.801	1.00	48.72	H0	
ANISOU 6820 HG21 VAL C 29	6390	5910	6220	30	380	1120	H0
ATOM 6821 HG22 VAL C 29	-45.827	24.909	16.516	1.00	47.89	H0	
ANISOU 6821 HG22 VAL C 29	6300	5790	6110	-120	470	1010	H0
ATOM 6822 HG23 VAL C 29	-46.398	26.333	16.107	1.00	49.91	H0	
ANISOU 6822 HG23 VAL C 29	6700	5850	6410	-50	410	1140	H0
ATOM 6823 N SER C 30	-50.464	25.772	19.288	1.00	50.34	N0	
ANISOU 6823 N SER C 30	6440	5930	6750	590	380	880	N0
ATOM 6824 CA SER C 30	-51.099	25.653	20.624	1.00	50.86	C0	
ANISOU 6824 CA SER C 30	6420	6020	6890	710	420	750	C0
ATOM 6825 C SER C 30	-50.431	24.500	21.376	1.00	49.04	C0	
ANISOU 6825 C SER C 30	6110	5910	6620	580	490	630	C0
ATOM 6826 O SER C 30	-50.491	23.368	20.871	1.00	47.12	O0	
ANISOU 6826 O SER C 30	5770	5830	6300	510	480	650	O0
ATOM 6827 CB SER C 30	-52.584	25.455	20.508	1.00	51.86	C0	
ANISOU 6827 CB SER C 30	6420	6260	7030	880	380	770	C0
ATOM 6828 OG SER C 30	-53.224	26.672	20.158	1.00	54.67	O0	
ANISOU 6828 OG SER C 30	6850	6470	7450	1040	310	840	O0

ATOM 6829 H SER C 30	-50.930	25.330	18.642	1.00	50.33	H0	
ANISOU 6829 H SER C 30	6370	6040	6710	610	340	930	H0
ATOM 6830 HA SER C 30	-50.932	26.495	21.123	1.00	51.58	H0	
ANISOU 6830 HA SER C 30	6600	5960	7040	750	440	720	H0
ATOM 6831 HB2 SER C 30	-52.770	24.781	19.823	1.00	51.51	H0	
ANISOU 6831 HB2 SER C 30	6310	6330	6930	830	350	820	H0
ATOM 6832 HB3 SER C 30	-52.941	25.130	21.365	1.00	51.60	H0	
ANISOU 6832 HB3 SER C 30	6300	6280	7020	920	410	680	H0
ATOM 6833 N VAL C 31	-49.774	24.799	22.499	1.00	49.72	N0	
ANISOU 6833 N VAL C 31	6250	5900	6740	550	550	520	N0
ATOM 6834 CA VAL C 31	-49.088	23.804	23.376	1.00	49.61	C0	
ANISOU 6834 CA VAL C 31	6170	5990	6690	440	610	410	C0
ATOM 6835 C VAL C 31	-49.722	23.888	24.763	1.00	50.18	C0	
ANISOU 6835 C VAL C 31	6200	6050	6820	540	650	290	C0
ATOM 6836 O VAL C 31	-49.851	25.009	25.277	1.00	52.41	O0	
ANISOU 6836 O VAL C 31	6560	6190	7170	620	670	260	O0
ATOM 6837 CB VAL C 31	-47.570	24.056	23.457	1.00	49.74	C0	
ANISOU 6837 CB VAL C 31	6290	5920	6690	290	650	380	C0
ATOM 6838 CG1 VAL C 31	-46.891	23.083	24.406	1.00	48.92	C0	
ANISOU 6838 CG1 VAL C 31	6120	5910	6550	200	690	260	C0
ATOM 6839 CG2 VAL C 31	-46.915	24.007	22.088	1.00	50.21	C0	
ANISOU 6839 CG2 VAL C 31	6390	6010	6690	180	620	490	C0
ATOM 6840 H VAL C 31	-49.702	25.654	22.807	1.00	50.69	H0	
ANISOU 6840 H VAL C 31	6450	5900	6920	590	560	510	H0
ATOM 6841 HA VAL C 31	-49.238	22.913	23.016	1.00	48.73	H0	
ANISOU 6841 HA VAL C 31	5990	6000	6530	410	600	420	H0
ATOM 6842 HB VAL C 31	-47.442	24.967	23.819	1.00	50.68	H0	
ANISOU 6842 HB VAL C 31	6490	5910	6860	310	660	370	H0
ATOM 6843 HG11 VAL C 31	-47.059	23.353	25.326	1.00	48.87	H0	
ANISOU 6843 HG11 VAL C 31	6120	5860	6590	240	720	190	H0
ATOM 6844 HG12 VAL C 31	-45.932	23.081	24.241	1.00	48.48	H0	
ANISOU 6844 HG12 VAL C 31	6100	5840	6470	100	700	260	H0
ATOM 6845 HG13 VAL C 31	-47.246	22.188	24.262	1.00	48.03	H0	
ANISOU 6845 HG13 VAL C 31	5930	5910	6400	210	680	260	H0
ATOM 6846 HG21 VAL C 31	-47.152	23.175	21.643	1.00	49.42	H0	
ANISOU 6846 HG21 VAL C 31	6210	6030	6540	170	600	510	H0
ATOM 6847 HG22 VAL C 31	-45.949	24.059	22.186	1.00	49.80	H0	
ANISOU 6847 HG22 VAL C 31	6370	5940	6610	80	640	470	H0
ATOM 6848 HG23 VAL C 31	-47.225	24.759	21.554	1.00	51.14	H0	
ANISOU 6848 HG23 VAL C 31	6570	6040	6820	220	590	570	H0
ATOM 6849 N SER C 32	-50.111	22.750	25.336	1.00	49.31	N0	
ANISOU 6849 N SER C 32	5970	6100	6660	520	670	230	N0
ATOM 6850 CA SER C 32	-50.528	22.642	26.757	1.00	49.69	C0	
ANISOU 6850 CA SER C 32	5970	6180	6730	560	720	110	C0
ATOM 6851 C SER C 32	-50.369	21.195	27.221	1.00	48.25	C0	
ANISOU 6851 C SER C 32	5700	6160	6470	460	730	60	C0
ATOM 6852 O SER C 32	-50.640	20.280	26.418	1.00	47.92	O0	
ANISOU 6852 O SER C 32	5600	6230	6380	410	690	120	O0
ATOM 6853 CB SER C 32	-51.929	23.158	26.978	1.00	51.41	C0	
ANISOU 6853 CB SER C 32	6110	6430	7000	740	720	100	C0
ATOM 6854 OG SER C 32	-52.898	22.269	26.444	1.00	51.77	O0	
ANISOU 6854 OG SER C 32	6020	6660	6990	750	680	150	O0
ATOM 6855 H SER C 32	-50.157	21.954	24.895	1.00	48.71	H0	
ANISOU 6855 H SER C 32	5840	6130	6540	470	650	260	H0

ATOM 6856 HA SER C 32	-49.906	23.202	27.292	1.00	49.85		H0
ANISOU 6856 HA SER C 32	6060	6100	6780	540	750	60	H0
ATOM 6857 HB2 SER C 32	-52.086	23.270	27.943	1.00	51.61		H0
ANISOU 6857 HB2 SER C 32	6120	6460	7040	760	760	10	H0
ATOM 6858 HB3 SER C 32	-52.024	24.038	26.549	1.00	52.49		H0
ANISOU 6858 HB3 SER C 32	6310	6460	7180	810	700	140	H0
ATOM 6859 N LEU C 33	-49.909	21.010	28.460	1.00	47.27		N0
ANISOU 6859 N LEU C 33	5590	6020	6340	410	780	-50	N0
ATOM 6860 CA LEU C 33	-49.723	19.675	29.080	1.00	45.76		C0
ANISOU 6860 CA LEU C 33	5350	5960	6080	310	780	-100	C0
ATOM 6861 C LEU C 33	-50.953	19.348	29.934	1.00	45.78		C0
ANISOU 6861 C LEU C 33	5250	6080	6060	360	810	-150	C0
ATOM 6862 O LEU C 33	-51.413	20.231	30.687	1.00	46.47		O0
ANISOU 6862 O LEU C 33	5340	6120	6200	450	850	-210	O0
ATOM 6863 CB LEU C 33	-48.433	19.679	29.907	1.00	45.56		C0
ANISOU 6863 CB LEU C 33	5400	5860	6050	220	810	-180	C0
ATOM 6864 CG LEU C 33	-47.185	20.183	29.183	1.00	45.86		C0
ANISOU 6864 CG LEU C 33	5530	5790	6100	160	800	-150	C0
ATOM 6865 CD1 LEU C 33	-45.937	19.896	30.006	1.00	45.74		C0
ANISOU 6865 CD1 LEU C 33	5550	5760	6060	60	810	-230	C0
ATOM 6866 CD2 LEU C 33	-47.056	19.573	27.795	1.00	45.24		C0
ANISOU 6866 CD2 LEU C 33	5430	5780	5980	120	750	-50	C0
ATOM 6867 H LEU C 33	-49.683	21.702	29.008	1.00	47.78		H0
ANISOU 6867 H LEU C 33	5710	6000	6450	430	810	-100	H0
ATOM 6868 HA LEU C 33	-49.649	19.008	28.364	1.00	45.29		H0
ANISOU 6868 HA LEU C 33	5270	5950	5980	260	740	-50	H0
ATOM 6869 HB2 LEU C 33	-48.578	20.236	30.697	1.00	46.07		H0
ANISOU 6869 HB2 LEU C 33	5480	5880	6140	250	840	-240	H0
ATOM 6870 HB3 LEU C 33	-48.265	18.767	30.216	1.00	44.85		H0
ANISOU 6870 HB3 LEU C 33	5290	5840	5910	150	800	-210	H0
ATOM 6871 HG LEU C 33	-47.265	21.162	29.079	1.00	46.64		H0
ANISOU 6871 HG LEU C 33	5670	5800	6250	200	810	-140	H0
ATOM 6872 HD11 LEU C 33	-46.085	20.175	30.927	1.00	45.83		H0
ANISOU 6872 HD11 LEU C 33	5570	5750	6090	70	840	-300	H0
ATOM 6873 HD12 LEU C 33	-45.184	20.388	29.637	1.00	45.70		H0
ANISOU 6873 HD12 LEU C 33	5600	5690	6070	20	810	-220	H0
ATOM 6874 HD13 LEU C 33	-45.745	18.943	29.984	1.00	44.84		H0
ANISOU 6874 HD13 LEU C 33	5410	5730	5900	10	790	-240	H0
ATOM 6875 HD21 LEU C 33	-47.281	18.628	27.833	1.00	44.67		H0
ANISOU 6875 HD21 LEU C 33	5310	5800	5870	100	730	-60	H0
ATOM 6876 HD22 LEU C 33	-46.143	19.675	27.477	1.00	45.08		H0
ANISOU 6876 HD22 LEU C 33	5450	5730	5960	60	750	-50	H0
ATOM 6877 HD23 LEU C 33	-47.663	20.025	27.183	1.00	45.89		H0
ANISOU 6877 HD23 LEU C 33	5500	5850	6090	180	740	10	H0
ATOM 6878 N LYS C 34	-51.495	18.140	29.773	1.00	44.57		N0
ANISOU 6878 N LYS C 34	5020	6070	5840	300	770	-120	N0
ATOM 6879 CA LYS C 34	-52.494	17.552	30.699	1.00	45.25		C0
ANISOU 6879 CA LYS C 34	5010	6300	5870	290	800	-170	C0
ATOM 6880 C LYS C 34	-51.782	16.431	31.459	1.00	42.48		C0
ANISOU 6880 C LYS C 34	4710	5980	5450	140	790	-220	C0
ATOM 6881 O LYS C 34	-51.352	15.465	30.805	1.00	41.04		O0
ANISOU 6881 O LYS C 34	4560	5810	5220	60	730	-170	O0
ATOM 6882 CB LYS C 34	-53.741	17.068	29.946	1.00	47.54		C0
ANISOU 6882 CB LYS C 34	5190	6740	6130	310	760	-100	C0

ATOM 6883 CG LYS C 34	-54.921	18.033	29.962	1.00	51.01	C0	
ANISOU 6883 CG LYS C 34	5530	7230	6620	470	790	-110	C0
ATOM 6884 CD LYS C 34	-55.597	18.142	31.318	1.00	53.11	C0	
ANISOU 6884 CD LYS C 34	5710	7600	6870	490	860	-210	C0
ATOM 6885 CE LYS C 34	-56.322	19.454	31.537	1.00	56.32	C0	
ANISOU 6885 CE LYS C 34	6070	7980	7350	690	900	-260	C0
ATOM 6886 NZ LYS C 34	-57.777	19.330	31.281	1.00	58.80	N0	
ANISOU 6886 NZ LYS C 34	6200	8500	7640	770	890	-240	N0
ATOM 6887 H LYS C 34	-51.278	17.595	29.076	1.00	44.31	H0	
ANISOU 6887 H LYS C 34	5000	6060	5780	250	730	-80	H0
ATOM 6888 HA LYS C 34	-52.764	18.244	31.343	1.00	45.88	H0	
ANISOU 6888 HA LYS C 34	5080	6360	5990	350	840	-230	H0
ATOM 6889 HB2 LYS C 34	-53.493	16.896	29.014	1.00	47.20	H0	
ANISOU 6889 HB2 LYS C 34	5170	6680	6090	300	720	-40	H0
ATOM 6890 HB3 LYS C 34	-54.030	16.218	30.338	1.00	47.30	H0	
ANISOU 6890 HB3 LYS C 34	5120	6810	6040	230	750	-120	H0
ATOM 6891 HG2 LYS C 34	-54.604	18.921	29.690	1.00	51.21	H0	
ANISOU 6891 HG2 LYS C 34	5610	7140	6710	550	790	-100	H0
ATOM 6892 HG3 LYS C 34	-55.580	17.735	29.300	1.00	51.18	H0	
ANISOU 6892 HG3 LYS C 34	5480	7340	6620	480	750	-50	H0
ATOM 6893 HD2 LYS C 34	-56.242	17.408	31.409	1.00	53.26	H0	
ANISOU 6893 HD2 LYS C 34	5650	7760	6830	430	850	-200	H0
ATOM 6894 HD3 LYS C 34	-54.922	18.035	32.021	1.00	52.59	H0	
ANISOU 6894 HD3 LYS C 34	5720	7470	6790	430	880	-260	H0
ATOM 6895 HE2 LYS C 34	-56.187	19.749	32.458	1.00	56.48	H0	
ANISOU 6895 HE2 LYS C 34	6110	7980	7380	700	950	-340	H0
ATOM 6896 HE3 LYS C 34	-55.953	20.136	30.945	1.00	56.34	H0	
ANISOU 6896 HE3 LYS C 34	6140	7850	7420	760	880	-220	H0
ATOM 6897 HZ1 LYS C 34	-57.915	18.954	30.467	1.00	58.17	H0	
ANISOU 6897 HZ1 LYS C 34	6100	8450	7550	740	840	-160	H0
ATOM 6898 HZ2 LYS C 34	-58.163	20.151	31.298	1.00	59.53	H0	
ANISOU 6898 HZ2 LYS C 34	6270	8560	7790	900	910	-260	H0
ATOM 6899 HZ3 LYS C 34	-58.158	18.809	31.918	1.00	58.54	H0	
ANISOU 6899 HZ3 LYS C 34	6100	8590	7550	700	920	-280	H0
ATOM 6900 N PHE C 35	-51.620	16.590	32.775	1.00	40.43	N0	
ANISOU 6900 N PHE C 35	4470	5710	5180	120	840	-310	N0
ATOM 6901 CA PHE C 35	-50.881	15.639	33.644	1.00	38.44	C0	
ANISOU 6901 CA PHE C 35	4280	5470	4860	0	820	-350	C0
ATOM 6902 C PHE C 35	-51.794	14.457	33.974	1.00	37.15	C0	
ANISOU 6902 C PHE C 35	4050	5470	4600	-90	800	-340	C0
ATOM 6903 O PHE C 35	-52.952	14.674	34.378	1.00	38.29	O0	
ANISOU 6903 O PHE C 35	4100	5730	4720	-60	840	-350	O0
ATOM 6904 CB PHE C 35	-50.338	16.346	34.888	1.00	38.71	C0	
ANISOU 6904 CB PHE C 35	4360	5440	4910	0	880	-450	C0
ATOM 6905 CG PHE C 35	-49.251	17.345	34.586	1.00	38.46	C0	
ANISOU 6905 CG PHE C 35	4410	5250	4950	40	890	-470	C0
ATOM 6906 CD1 PHE C 35	-47.931	16.941	34.477	1.00	37.58	C0	
ANISOU 6906 CD1 PHE C 35	4370	5070	4830	-30	850	-470	C0
ATOM 6907 CD2 PHE C 35	-49.550	18.687	34.403	1.00	39.62	C0	
ANISOU 6907 CD2 PHE C 35	4560	5310	5180	160	930	-480	C0
ATOM 6908 CE1 PHE C 35	-46.932	17.859	34.186	1.00	37.50	C0	
ANISOU 6908 CE1 PHE C 35	4430	4940	4880	-20	860	-480	C0
ATOM 6909 CE2 PHE C 35	-48.549	19.602	34.114	1.00	39.73	C0	
ANISOU 6909 CE2 PHE C 35	4670	5170	5260	170	940	-490	C0

ATOM 6910 CZ PHE C 35	-47.241	19.186	34.003	1.00	38.42	C0	
ANISOU 6910 CZ PHE C 35	4560	4960	5070	70	900	-490	C0
ATOM 6911 H PHE C 35	-51.957	17.298	33.238	1.00	41.35	H0	
ANISOU 6911 H PHE C 35	4570	5820	5330	190	880	-350	H0
ATOM 6912 HA PHE C 35	-50.108	15.293	33.129	1.00	37.69	H0	
ANISOU 6912 HA PHE C 35	4240	5330	4760	-40	780	-330	H0
ATOM 6913 HB2 PHE C 35	-51.078	16.805	35.336	1.00	39.49	H0	
ANISOU 6913 HB2 PHE C 35	4410	5580	5010	50	930	-490	H0
ATOM 6914 HB3 PHE C 35	-49.987	15.669	35.503	1.00	38.31	H0	
ANISOU 6914 HB3 PHE C 35	4340	5410	4800	-80	860	-480	H0
ATOM 6915 HD1 PHE C 35	-47.711	16.031	34.594	1.00	37.03	H0	
ANISOU 6915 HD1 PHE C 35	4310	5050	4710	-100	810	-470	H0
ATOM 6916 HD2 PHE C 35	-50.445	18.978	34.471	1.00	40.30	H0	
ANISOU 6916 HD2 PHE C 35	4590	5440	5280	230	960	-490	H0
ATOM 6917 HE1 PHE C 35	-46.036	17.570	34.115	1.00	37.05	H0	
ANISOU 6917 HE1 PHE C 35	4410	4860	4810	-70	840	-490	H0
ATOM 6918 HE2 PHE C 35	-48.765	20.512	33.991	1.00	40.38	H0	
ANISOU 6918 HE2 PHE C 35	4770	5180	5390	240	960	-500	H0
ATOM 6919 HZ PHE C 35	-46.559	19.811	33.813	1.00	38.67	H0	
ANISOU 6919 HZ PHE C 35	4650	4910	5140	60	910	-490	H0
ATOM 6920 N ILE C 36	-51.276	13.246	33.759	1.00	35.52	N0	
ANISOU 6920 N ILE C 36	3910	5260	4330	-200	730	-300	N0
ATOM 6921 CA ILE C 36	-51.990	11.945	33.916	1.00	35.07	C0	
ANISOU 6921 CA ILE C 36	3830	5320	4170	-320	680	-270	C0
ATOM 6922 C ILE C 36	-51.465	11.239	35.171	1.00	34.74	C0	
ANISOU 6922 C ILE C 36	3880	5270	4050	-420	670	-320	C0
ATOM 6923 O ILE C 36	-52.270	10.613	35.867	1.00	35.43	O0	
ANISOU 6923 O ILE C 36	3940	5470	4050	-520	670	-320	O0
ATOM 6924 CB ILE C 36	-51.809	11.057	32.666	1.00	34.06	C0	
ANISOU 6924 CB ILE C 36	3740	5180	4020	-350	590	-200	C0
ATOM 6925 CG1 ILE C 36	-52.169	11.789	31.367	1.00	34.12	C0	
ANISOU 6925 CG1 ILE C 36	3680	5190	4100	-250	600	-140	C0
ATOM 6926 CG2 ILE C 36	-52.594	9.763	32.819	1.00	34.54	C0	
ANISOU 6926 CG2 ILE C 36	3800	5350	3970	-480	540	-160	C0
ATOM 6927 CD1 ILE C 36	-53.616	12.210	31.267	1.00	35.06	C0	
ANISOU 6927 CD1 ILE C 36	3660	5440	4220	-200	630	-120	C0
ATOM 6928 H ILE C 36	-50.418	13.139	33.474	1.00	35.00	H0	
ANISOU 6928 H ILE C 36	3900	5120	4280	-210	700	-300	H0
ATOM 6929 HA ILE C 36	-52.939	12.123	34.036	1.00	35.77	H0	
ANISOU 6929 HA ILE C 36	3840	5510	4240	-300	710	-260	H0
ATOM 6930 HB ILE C 36	-50.852	10.818	32.612	1.00	33.55	H0	
ANISOU 6930 HB ILE C 36	3760	5030	3960	-360	560	-210	H0
ATOM 6931 HG12 ILE C 36	-51.604	12.586	31.288	1.00	33.99	H0	
ANISOU 6931 HG12 ILE C 36	3680	5090	4140	-180	630	-160	H0
ATOM 6932 HG13 ILE C 36	-51.962	11.200	30.610	1.00	33.76	H0	
ANISOU 6932 HG13 ILE C 36	3670	5130	4030	-280	540	-100	H0
ATOM 6933 HG21 ILE C 36	-52.109	9.154	33.403	1.00	34.26	H0	
ANISOU 6933 HG21 ILE C 36	3850	5280	3890	-550	510	-180	H0
ATOM 6934 HG22 ILE C 36	-52.710	9.347	31.947	1.00	34.36	H0	
ANISOU 6934 HG22 ILE C 36	3780	5330	3940	-490	490	-110	H0
ATOM 6935 HG23 ILE C 36	-53.467	9.954	33.204	1.00	35.19	H0	
ANISOU 6935 HG23 ILE C 36	3800	5530	4040	-500	580	-160	H0
ATOM 6936 HD11 ILE C 36	-54.169	11.434	31.070	1.00	35.27	H0	
ANISOU 6936 HD11 ILE C 36	3670	5550	4180	-280	600	-80	H0

ATOM 6937 HD12 ILE C 36	-53.714	12.865	30.555	1.00	35.27	H0	
ANISOU 6937 HD12 ILE C 36	3660	5440	4300	-120	640	-90	H0
ATOM 6938 HD13 ILE C 36	-53.903	12.605	32.108	1.00	35.57	H0	
ANISOU 6938 HD13 ILE C 36	3690	5540	4280	-190	690	-160	H0
ATOM 6939 N ASN C 37	-50.155	11.288	35.415	1.00	34.33	N0	
ANISOU 6939 N ASN C 37	3920	5100	4020	-420	640	-350	N0
ATOM 6940 CA ASN C 37	-49.543	10.596	36.573	1.00	34.87	C0	
ANISOU 6940 CA ASN C 37	4080	5150	4020	-510	610	-400	C0
ATOM 6941 C ASN C 37	-48.256	11.304	36.986	1.00	34.45	C0	
ANISOU 6941 C ASN C 37	4080	4990	4020	-460	630	-460	C0
ATOM 6942 O ASN C 37	-47.653	11.989	36.150	1.00	33.90	O0	
ANISOU 6942 O ASN C 37	4000	4850	4030	-380	640	-460	O0
ATOM 6943 CB ASN C 37	-49.292	9.115	36.277	1.00	34.80	C0	
ANISOU 6943 CB ASN C 37	4160	5130	3930	-600	500	-350	C0
ATOM 6944 CG ASN C 37	-49.657	8.217	37.440	1.00	35.58	C0	
ANISOU 6944 CG ASN C 37	4320	5280	3920	-740	470	-350	C0
ATOM 6945 OD1 ASN C 37	-49.448	8.570	38.605	1.00	35.32	O0	
ANISOU 6945 OD1 ASN C 37	4300	5260	3860	-760	510	-400	O0
ATOM 6946 ND2 ASN C 37	-50.217	7.060	37.127	1.00	35.77	N0	
ANISOU 6946 ND2 ASN C 37	4380	5340	3860	-840	390	-290	N0
ATOM 6947 H ASN C 37	-49.563	11.731	34.885	1.00	34.06	H0	
ANISOU 6947 H ASN C 37	3900	4990	4040	-360	640	-360	H0
ATOM 6948 HA ASN C 37	-50.178	10.646	37.326	1.00	35.38	H0	
ANISOU 6948 HA ASN C 37	4110	5290	4040	-550	650	-410	H0
ATOM 6949 HB2 ASN C 37	-49.818	8.855	35.494	1.00	34.81	H0	
ANISOU 6949 HB2 ASN C 37	4130	5160	3930	-600	480	-300	H0
ATOM 6950 HB3 ASN C 37	-48.345	8.990	36.061	1.00	34.30	H0	
ANISOU 6950 HB3 ASN C 37	4150	4980	3890	-580	460	-360	H0
ATOM 6951 HD21 ASN C 37	-50.842	6.717	37.649	1.00	36.37	H0	
ANISOU 6951 HD21 ASN C 37	4460	5490	3870	-930	400	-270	H0
ATOM 6952 HD22 ASN C 37	-49.966	6.630	36.397	1.00	35.47	H0	
ANISOU 6952 HD22 ASN C 37	4380	5260	3840	-820	340	-260	H0
ATOM 6953 N ILE C 38	-47.915	11.164	38.266	1.00	35.17	N0	
ANISOU 6953 N ILE C 38	4220	5080	4050	-520	630	-510	N0
ATOM 6954 CA ILE C 38	-46.580	11.474	38.847	1.00	35.09	C0	
ANISOU 6954 CA ILE C 38	4280	4990	4060	-510	610	-580	C0
ATOM 6955 C ILE C 38	-46.101	10.183	39.514	1.00	34.96	C0	
ANISOU 6955 C ILE C 38	4360	4970	3950	-610	510	-570	C0
ATOM 6956 O ILE C 38	-46.727	9.767	40.499	1.00	35.12	O0	
ANISOU 6956 O ILE C 38	4400	5060	3880	-700	520	-570	O0
ATOM 6957 CB ILE C 38	-46.654	12.667	39.823	1.00	36.07	C0	
ANISOU 6957 CB ILE C 38	4380	5110	4210	-490	710	-660	C0
ATOM 6958 CG1 ILE C 38	-47.239	13.913	39.150	1.00	36.58	C0	
ANISOU 6958 CG1 ILE C 38	4370	5160	4370	-380	790	-660	C0
ATOM 6959 CG2 ILE C 38	-45.285	12.947	40.427	1.00	36.11	C0	
ANISOU 6959 CG2 ILE C 38	4460	5040	4220	-500	690	-720	C0
ATOM 6960 CD1 ILE C 38	-47.739	14.962	40.114	1.00	37.61	C0	
ANISOU 6960 CD1 ILE C 38	4470	5310	4510	-350	890	-740	C0
ATOM 6961 H ILE C 38	-48.506	10.861	38.890	1.00	35.56	H0	
ANISOU 6961 H ILE C 38	4270	5200	4040	-580	640	-520	H0
ATOM 6962 HA ILE C 38	-45.968	11.701	38.125	1.00	34.68	H0	
ANISOU 6962 HA ILE C 38	4230	4880	4070	-460	600	-570	H0
ATOM 6963 HB ILE C 38	-47.262	12.413	40.560	1.00	36.57	H0	
ANISOU 6963 HB ILE C 38	4440	5250	4210	-540	730	-670	H0

ATOM 6964 HG12 ILE C 38	-46.549	14.314	38.580	1.00	36.21	H0	
ANISOU 6964 HG12 ILE C 38	4340	5040	4380	-350	780	-660	H0
ATOM 6965 HG13 ILE C 38	-47.981	13.641	38.573	1.00	36.59	H0	
ANISOU 6965 HG13 ILE C 38	4330	5210	4370	-370	790	-610	H0
ATOM 6966 HG21 ILE C 38	-45.048	12.234	41.045	1.00	36.08	H0	
ANISOU 6966 HG21 ILE C 38	4500	5060	4150	-560	640	-720	H0
ATOM 6967 HG22 ILE C 38	-45.305	13.793	40.906	1.00	36.46	H0	
ANISOU 6967 HG22 ILE C 38	4490	5070	4290	-480	750	-770	H0
ATOM 6968 HG23 ILE C 38	-44.619	12.994	39.719	1.00	35.59	H0	
ANISOU 6968 HG23 ILE C 38	4400	4920	4200	-470	660	-700	H0
ATOM 6969 HD11 ILE C 38	-48.343	14.552	40.757	1.00	38.00	H0	
ANISOU 6969 HD11 ILE C 38	4500	5440	4490	-400	900	-750	H0
ATOM 6970 HD12 ILE C 38	-48.212	15.656	39.623	1.00	37.90	H0	
ANISOU 6970 HD12 ILE C 38	4470	5330	4610	-270	930	-740	H0
ATOM 6971 HD13 ILE C 38	-46.985	15.358	40.586	1.00	37.58	H0	
ANISOU 6971 HD13 ILE C 38	4520	5240	4520	-360	890	-790	H0
ATOM 6972 N LEU C 39	-45.065	9.561	38.951	1.00	35.46	N0	
ANISOU 6972 N LEU C 39	4480	4970	4020	-580	430	-560	N0
ATOM 6973 CA LEU C 39	-44.633	8.170	39.264	1.00	36.59	C0	
ANISOU 6973 CA LEU C 39	4730	5090	4080	-640	300	-530	C0
ATOM 6974 C LEU C 39	-43.486	8.192	40.278	1.00	37.41	C0	
ANISOU 6974 C LEU C 39	4900	5150	4160	-650	260	-590	C0
ATOM 6975 O LEU C 39	-43.424	7.292	41.133	1.00	37.03	O0	
ANISOU 6975 O LEU C 39	4950	5100	4020	-720	180	-580	O0
ATOM 6976 CB LEU C 39	-44.203	7.488	37.961	1.00	35.73	C0	
ANISOU 6976 CB LEU C 39	4640	4930	4000	-590	230	-500	C0
ATOM 6977 CG LEU C 39	-45.281	7.422	36.879	1.00	35.90	C0	
ANISOU 6977 CG LEU C 39	4610	4990	4040	-580	250	-440	C0
ATOM 6978 CD1 LEU C 39	-44.715	6.903	35.571	1.00	35.90	C0	
ANISOU 6978 CD1 LEU C 39	4620	4950	4070	-520	190	-420	C0
ATOM 6979 CD2 LEU C 39	-46.451	6.563	37.326	1.00	36.47	C0	
ANISOU 6979 CD2 LEU C 39	4720	5120	4020	-700	220	-390	C0
ATOM 6980 H LEU C 39	-44.549	9.961	38.316	1.00	35.13	H0	
ANISOU 6980 H LEU C 39	4420	4890	4040	-530	430	-560	H0
ATOM 6981 HA LEU C 39	-45.394	7.684	39.657	1.00	36.82	H0	
ANISOU 6981 HA LEU C 39	4780	5160	4050	-720	290	-500	H0
ATOM 6982 HB2 LEU C 39	-43.431	7.968	37.601	1.00	35.59	H0	
ANISOU 6982 HB2 LEU C 39	4600	4890	4040	-520	240	-530	H0
ATOM 6983 HB3 LEU C 39	-43.915	6.577	38.170	1.00	36.05	H0	
ANISOU 6983 HB3 LEU C 39	4770	4940	3990	-610	140	-490	H0
ATOM 6984 HG LEU C 39	-45.617	8.338	36.724	1.00	35.89	H0	
ANISOU 6984 HG LEU C 39	4530	5020	4090	-550	340	-450	H0
ATOM 6985 HD11 LEU C 39	-43.948	7.443	35.311	1.00	35.52	H0	
ANISOU 6985 HD11 LEU C 39	4550	4880	4070	-460	210	-460	H0
ATOM 6986 HD12 LEU C 39	-45.396	6.952	34.880	1.00	35.75	H0	
ANISOU 6986 HD12 LEU C 39	4570	4960	4060	-520	210	-390	H0
ATOM 6987 HD13 LEU C 39	-44.436	5.978	35.685	1.00	35.94	H0	
ANISOU 6987 HD13 LEU C 39	4710	4920	4020	-540	100	-420	H0
ATOM 6988 HD21 LEU C 39	-46.122	5.703	37.640	1.00	36.66	H0	
ANISOU 6988 HD21 LEU C 39	4840	5110	3990	-740	140	-380	H0
ATOM 6989 HD22 LEU C 39	-47.055	6.423	36.577	1.00	36.46	H0	
ANISOU 6989 HD22 LEU C 39	4680	5150	4020	-700	230	-350	H0
ATOM 6990 HD23 LEU C 39	-46.928	7.010	38.046	1.00	36.81	H0	
ANISOU 6990 HD23 LEU C 39	4730	5220	4040	-740	280	-400	H0

ATOM 6991 N GLUC 40	-42.606	9.185	40.174	1.00	39.01		N0
ANISOU 6991 N GLUC 40	5050	5330	4440	-580	310	-650	N0
ATOM 6992 CA GLUC 40	-41.385	9.276	41.007	1.00	40.76		C0
ANISOU 6992 CA GLUC 40	5310	5530	4650	-580	260	-710	C0
ATOM 6993 C GLUC 40	-41.013	10.743	41.205	1.00	39.50		C0
ANISOU 6993 C GLUC 40	5090	5360	4560	-560	360	-780	C0
ATOM 6994 O GLUC 40	-41.165	11.554	40.264	1.00	38.31		O0
ANISOU 6994 O GLUC 40	4870	5200	4490	-510	430	-770	O0
ATOM 6995 CB GLUC 40	-40.235	8.498	40.367	1.00	43.91		C0
ANISOU 6995 CB GLUC 40	5740	5890	5050	-520	150	-720	C0
ATOM 6996 CG GLUC 40	-39.029	8.372	41.282	1.00	48.01		C0
ANISOU 6996 CG GLUC 40	6290	6410	5540	-520	80	-780	C0
ATOM 6997 CD GLUC 40	-37.841	7.658	40.665	1.00	50.83		C0
ANISOU 6997 CD GLUC 40	6650	6750	5910	-430	-30	-800	C0
ATOM 6998 OE1 GLUC 40	-38.069	6.749	39.831	1.00	52.96		O0
ANISOU 6998 OE1 GLUC 40	6960	6990	6170	-390	-90	-760	O0
ATOM 6999 OE2 GLUC 40	-36.692	8.029	41.008	1.00	54.16		O0
ANISOU 6999 OE2 GLUC 40	7040	7200	6340	-410	-50	-860	O0
ATOM 7000 H GLUC 40	-42.695	9.864	39.575	1.00	38.67		H0
ANISOU 7000 H GLUC 40	4950	5280	4460	-540	360	-650	H0
ATOM 7001 HA GLUC 40	-41.582	8.880	41.887	1.00	41.18		H0
ANISOU 7001 HA GLUC 40	5420	5600	4630	-640	230	-710	H0
ATOM 7002 HB2 GLUC 40	-40.554	7.603	40.129	1.00	43.94		H0
ANISOU 7002 HB2 GLUC 40	5790	5880	5020	-530	90	-680	H0
ATOM 7003 HB3 GLUC 40	-39.965	8.954	39.545	1.00	43.58		H0
ANISOU 7003 HB3 GLUC 40	5640	5850	5070	-470	180	-720	H0
ATOM 7004 HG2 GLUC 40	-38.741	9.268	41.556	1.00	47.76		H0
ANISOU 7004 HG2 GLUC 40	6220	6390	5540	-530	140	-820	H0
ATOM 7005 HG3 GLUC 40	-39.296	7.887	42.091	1.00	48.10		H0
ANISOU 7005 HG3 GLUC 40	6370	6420	5480	-570	40	-760	H0
ATOM 7006 N VALC 41	-40.525	11.031	42.405	1.00	38.68		N0
ANISOU 7006 N VALC 41	5020	5270	4410	-610	360	-830	N0
ATOM 7007 CA VALC 41	-40.065	12.360	42.879	1.00	38.65		C0
ANISOU 7007 CA VALC 41	4980	5250	4450	-610	440	-910	C0
ATOM 7008 C VALC 41	-38.849	12.102	43.771	1.00	38.02		C0
ANISOU 7008 C VALC 41	4940	5180	4320	-650	360	-960	C0
ATOM 7009 O VALC 41	-38.872	11.121	44.533	1.00	37.79		O0
ANISOU 7009 O VALC 41	4980	5180	4200	-690	280	-950	O0
ATOM 7010 CB VALC 41	-41.204	13.072	43.629	1.00	40.04		C0
ANISOU 7010 CB VALC 41	5150	5450	4610	-650	540	-940	C0
ATOM 7011 CG1 VALC 41	-40.694	14.111	44.608	1.00	41.19		C0
ANISOU 7011 CG1 VALC 41	5310	5580	4760	-680	600	-1030	C0
ATOM 7012 CG2 VALC 41	-42.212	13.684	42.672	1.00	40.15		C0
ANISOU 7012 CG2 VALC 41	5100	5450	4700	-580	630	-900	C0
ATOM 7013 H VALC 41	-40.442	10.391	43.048	1.00	39.17		H0
ANISOU 7013 H VALC 41	5130	5340	4410	-650	300	-830	H0
ATOM 7014 HA VALC 41	-39.796	12.897	42.114	1.00	38.44		H0
ANISOU 7014 HA VALC 41	4910	5200	4490	-570	470	-910	H0
ATOM 7015 HB VALC 41	-41.677	12.382	44.154	1.00	40.20		H0
ANISOU 7015 HB VALC 41	5210	5510	4560	-690	520	-920	H0
ATOM 7016 HG11 VALC 41	-40.352	13.670	45.406	1.00	41.30		H0
ANISOU 7016 HG11 VALC 41	5370	5620	4700	-730	550	-1050	H0
ATOM 7017 HG12 VALC 41	-41.420	14.709	44.855	1.00	41.39		H0
ANISOU 7017 HG12 VALC 41	5330	5610	4790	-670	670	-1060	H0

ATOM 7018 HG13 VAL C 41	-39.982	14.621	44.189	1.00	40.89	H0	
ANISOU 7018 HG13 VAL C 41	5260	5500	4770	-650	600	-1050	H0
ATOM 7019 HG21 VAL C 41	-41.800	14.423	42.193	1.00	39.99	H0	
ANISOU 7019 HG21 VAL C 41	5060	5380	4750	-550	660	-920	H0
ATOM 7020 HG22 VAL C 41	-42.977	14.011	43.175	1.00	40.49	H0	
ANISOU 7020 HG22 VAL C 41	5140	5530	4720	-590	690	-920	H0
ATOM 7021 HG23 VAL C 41	-42.509	13.011	42.036	1.00	39.69	H0	
ANISOU 7021 HG23 VAL C 41	5040	5410	4640	-570	590	-840	H0
ATOM 7022 N ASN C 42	-37.812	12.921	43.650	1.00	37.20	N0	
ANISOU 7022 N ASN C 42	4800	5060	4270	-640	380	-1020	N0
ATOM 7023 CA ASN C 42	-36.584	12.808	44.476	1.00	37.64	C0	
ANISOU 7023 CA ASN C 42	4870	5150	4280	-670	300	-1080	C0
ATOM 7024 C ASN C 42	-36.243	14.206	44.999	1.00	37.39	C0	
ANISOU 7024 C ASN C 42	4830	5100	4280	-720	380	-1160	C0
ATOM 7025 O ASN C 42	-35.796	15.045	44.201	1.00	37.18	O0	
ANISOU 7025 O ASN C 42	4750	5040	4330	-710	430	-1170	O0
ATOM 7026 CB ASN C 42	-35.457	12.127	43.697	1.00	37.52	C0	
ANISOU 7026 CB ASN C 42	4820	5150	4280	-610	200	-1070	C0
ATOM 7027 CG ASN C 42	-34.260	11.802	44.565	1.00	38.43	C0	
ANISOU 7027 CG ASN C 42	4940	5320	4340	-630	100	-1130	C0
ATOM 7028 OD1 ASN C 42	-33.876	12.592	45.426	1.00	38.40	O0	
ANISOU 7028 OD1 ASN C 42	4940	5330	4320	-690	130	-1190	O0
ATOM 7029 ND2 ASN C 42	-33.651	10.650	44.335	1.00	38.75	N0	
ANISOU 7029 ND2 ASN C 42	4990	5380	4350	-560	-30	-1110	N0
ATOM 7030 H ASN C 42	-37.792	13.605	43.047	1.00	37.28	H0	
ANISOU 7030 H ASN C 42	4770	5050	4340	-620	430	-1020	H0
ATOM 7031 HA ASN C 42	-36.790	12.233	45.249	1.00	37.78	H0	
ANISOU 7031 HA ASN C 42	4940	5180	4230	-700	250	-1070	H0
ATOM 7032 HB2 ASN C 42	-35.800	11.300	43.301	1.00	37.27	H0	
ANISOU 7032 HB2 ASN C 42	4810	5120	4240	-570	160	-1020	H0
ATOM 7033 HB3 ASN C 42	-35.174	12.717	42.969	1.00	37.40	H0	
ANISOU 7033 HB3 ASN C 42	4750	5130	4330	-590	250	-1080	H0
ATOM 7034 HD21 ASN C 42	-33.117	10.302	44.948	1.00	39.15	H0	
ANISOU 7034 HD21 ASN C 42	5060	5460	4360	-560	-100	-1130	H0
ATOM 7035 HD22 ASN C 42	-33.776	10.228	43.568	1.00	38.33	H0	
ANISOU 7035 HD22 ASN C 42	4920	5320	4320	-510	-40	-1080	H0
ATOM 7036 N GLU C 43	-36.470	14.425	46.297	1.00	37.88	N0	
ANISOU 7036 N GLU C 43	4940	5180	4270	-790	400	-1210	N0
ATOM 7037 CA GLU C 43	-36.283	15.717	47.008	1.00	38.82	C0	
ANISOU 7037 CA GLU C 43	5070	5270	4400	-840	480	-1300	C0
ATOM 7038 C GLU C 43	-34.820	16.172	46.907	1.00	39.07	C0	
ANISOU 7038 C GLU C 43	5070	5310	4460	-880	430	-1350	C0
ATOM 7039 O GLU C 43	-34.587	17.390	46.809	1.00	40.99	O0	
ANISOU 7039 O GLU C 43	5310	5510	4760	-910	510	-1400	O0
ATOM 7040 CB GLU C 43	-36.703	15.575	48.476	1.00	39.68	C0	
ANISOU 7040 CB GLU C 43	5250	5420	4400	-910	480	-1340	C0
ATOM 7041 CG GLU C 43	-38.188	15.301	48.670	1.00	39.88	C0	
ANISOU 7041 CG GLU C 43	5290	5470	4390	-900	540	-1310	C0
ATOM 7042 CD GLU C 43	-38.617	13.840	48.717	1.00	40.04	C0	
ANISOU 7042 CD GLU C 43	5340	5540	4330	-910	450	-1220	C0
ATOM 7043 OE1 GLU C 43	-39.638	13.552	49.385	1.00	41.30	O0	
ANISOU 7043 OE1 GLU C 43	5530	5750	4410	-960	490	-1210	O0
ATOM 7044 OE2 GLU C 43	-37.961	12.989	48.066	1.00	39.53	O0	
ANISOU 7044 OE2 GLU C 43	5270	5460	4280	-870	350	-1160	O0

ATOM 7045 H GLU C 43	-36.748	13.757	46.848	1.00	38.09	H0	
ANISOU 7045 H GLU C 43	5010	5230	4230	-800	360	-1190	H0
ATOM 7046 HA GLU C 43	-36.854	16.394	46.578	1.00	38.73	H0	
ANISOU 7046 HA GLU C 43	5050	5210	4450	-820	560	-1300	H0
ATOM 7047 HB2 GLU C 43	-36.189	14.844	48.878	1.00	39.80	H0	
ANISOU 7047 HB2 GLU C 43	5280	5480	4360	-930	390	-1330	H0
ATOM 7048 HB3 GLU C 43	-36.469	16.401	48.947	1.00	40.26	H0	
ANISOU 7048 HB3 GLU C 43	5340	5480	4480	-950	520	-1410	H0
ATOM 7049 HG2 GLU C 43	-38.473	15.726	49.507	1.00	40.59	H0	
ANISOU 7049 HG2 GLU C 43	5410	5580	4430	-940	590	-1360	H0
ATOM 7050 HG3 GLU C 43	-38.681	15.738	47.943	1.00	39.64	H0	
ANISOU 7050 HG3 GLU C 43	5230	5400	4430	-850	600	-1290	H0
ATOM 7051 N ILE C 44	-33.868	15.238	46.943	1.00	38.74	N0	
ANISOU 7051 N ILE C 44	5000	5340	4380	-860	310	-1340	N0
ATOM 7052 CA ILE C 44	-32.409	15.546	47.003	1.00	39.48	C0	
ANISOU 7052 CA ILE C 44	5040	5490	4470	-900	260	-1390	C0
ATOM 7053 C ILE C 44	-31.883	15.889	45.602	1.00	39.51	C0	
ANISOU 7053 C ILE C 44	4950	5490	4570	-870	280	-1370	C0
ATOM 7054 O ILE C 44	-31.119	16.883	45.483	1.00	40.43	O0	
ANISOU 7054 O ILE C 44	5030	5610	4720	-940	320	-1420	O0
ATOM 7055 CB ILE C 44	-31.642	14.390	47.678	1.00	39.99	C0	
ANISOU 7055 CB ILE C 44	5110	5640	4450	-880	110	-1390	C0
ATOM 7056 CG1 ILE C 44	-31.876	14.420	49.194	1.00	41.50	C0	
ANISOU 7056 CG1 ILE C 44	5390	5840	4540	-960	90	-1430	C0
ATOM 7057 CG2 ILE C 44	-30.162	14.432	47.328	1.00	40.04	C0	
ANISOU 7057 CG2 ILE C 44	5010	5730	4470	-880	40	-1440	C0
ATOM 7058 CD1 ILE C 44	-31.193	13.308	49.963	1.00	42.49	C0	
ANISOU 7058 CD1 ILE C 44	5540	6040	4570	-950	-70	-1420	C0
ATOM 7059 H ILE C 44	-34.052	14.347	46.936	1.00	38.59	H0	
ANISOU 7059 H ILE C 44	5000	5340	4320	-830	250	-1290	H0
ATOM 7060 HA ILE C 44	-32.297	16.336	47.561	1.00	40.10	H0	
ANISOU 7060 HA ILE C 44	5140	5550	4550	-970	300	-1450	H0
ATOM 7061 HB ILE C 44	-32.011	13.540	47.333	1.00	39.57	H0	
ANISOU 7061 HB ILE C 44	5070	5570	4390	-820	70	-1340	H0
ATOM 7062 HG12 ILE C 44	-31.558	15.280	49.542	1.00	41.91	H0	
ANISOU 7062 HG12 ILE C 44	5430	5890	4600	-1020	130	-1490	H0
ATOM 7063 HG13 ILE C 44	-32.841	14.368	49.362	1.00	41.17	H0	
ANISOU 7063 HG13 ILE C 44	5390	5760	4490	-960	140	-1410	H0
ATOM 7064 HG21 ILE C 44	-30.039	14.198	46.392	1.00	39.79	H0	
ANISOU 7064 HG21 ILE C 44	4930	5700	4490	-820	40	-1410	H0
ATOM 7065 HG22 ILE C 44	-29.676	13.797	47.881	1.00	40.61	H0	
ANISOU 7065 HG22 ILE C 44	5090	5850	4490	-860	-60	-1450	H0
ATOM 7066 HG23 ILE C 44	-29.814	15.327	47.485	1.00	40.62	H0	
ANISOU 7066 HG23 ILE C 44	5060	5800	4570	-950	90	-1480	H0
ATOM 7067 HD11 ILE C 44	-31.237	12.483	49.450	1.00	41.98	H0	
ANISOU 7067 HD11 ILE C 44	5470	5970	4510	-870	-130	-1370	H0
ATOM 7068 HD12 ILE C 44	-31.640	13.182	50.818	1.00	42.69	H0	
ANISOU 7068 HD12 ILE C 44	5630	6060	4520	-990	-70	-1420	H0
ATOM 7069 HD13 ILE C 44	-30.262	13.543	50.118	1.00	42.88	H0	
ANISOU 7069 HD13 ILE C 44	5540	6140	4620	-960	-110	-1470	H0
ATOM 7070 N THR C 45	-32.243	15.113	44.576	1.00	38.63	N0	
ANISOU 7070 N THR C 45	4820	5370	4490	-780	270	-1300	N0
ATOM 7071 CA THR C 45	-31.734	15.325	43.193	1.00	38.72	C0	
ANISOU 7071 CA THR C 45	4740	5400	4570	-740	290	-1280	C0

ATOM 7072 C THR C 45	-32.616	16.348	42.463	1.00	38.78	C0	
ANISOU 7072 C THR C 45	4770	5320	4650	-760	410	-1240	C0
ATOM 7073 O THR C 45	-32.172	16.836	41.404	1.00	38.92	O0	
ANISOU 7073 O THR C 45	4730	5340	4720	-770	450	-1220	O0
ATOM 7074 CB THR C 45	-31.609	14.008	42.421	1.00	38.05	C0	
ANISOU 7074 CB THR C 45	4620	5370	4470	-640	200	-1230	C0
ATOM 7075 OG1 THR C 45	-32.924	13.534	42.147	1.00	37.85	O0	
ANISOU 7075 OG1 THR C 45	4660	5270	4450	-590	230	-1160	O0
ATOM 7076 CG2 THR C 45	-30.828	12.955	43.175	1.00	38.69	C0	
ANISOU 7076 CG2 THR C 45	4700	5520	4480	-600	70	-1260	C0
ATOM 7077 H THR C 45	-32.818	14.409	44.644	1.00	38.38	H0	
ANISOU 7077 H THR C 45	4820	5330	4430	-740	240	-1260	H0
ATOM 7078 HA THR C 45	-30.831	15.711	43.270	1.00	39.24	H0	
ANISOU 7078 HA THR C 45	4760	5520	4630	-790	280	-1320	H0
ATOM 7079 HB THR C 45	-31.152	14.192	41.567	1.00	38.22	H0	
ANISOU 7079 HB THR C 45	4580	5420	4520	-620	220	-1230	H0
ATOM 7080 HG21 THR C 45	-30.011	13.349	43.532	1.00	39.26	H0	
ANISOU 7080 HG21 THR C 45	4730	5650	4540	-640	50	-1310	H0
ATOM 7081 HG22 THR C 45	-30.598	12.226	42.572	1.00	38.51	H0	
ANISOU 7081 HG22 THR C 45	4650	5520	4450	-520	10	-1250	H0
ATOM 7082 HG23 THR C 45	-31.368	12.611	43.909	1.00	38.62	H0	
ANISOU 7082 HG23 THR C 45	4770	5480	4430	-610	40	-1250	H0
ATOM 7083 N ASN C 46	-33.803	16.662	43.002	1.00	38.56	N0	
ANISOU 7083 N ASN C 46	4820	5210	4620	-760	470	-1230	N0
ATOM 7084 CA ASN C 46	-34.795	17.572	42.369	1.00	38.58	C0	
ANISOU 7084 CA ASN C 46	4850	5120	4690	-740	580	-1200	C0
ATOM 7085 C ASN C 46	-35.144	17.024	40.981	1.00	37.92	C0	
ANISOU 7085 C ASN C 46	4720	5040	4650	-670	570	-1110	C0
ATOM 7086 O ASN C 46	-34.938	17.739	39.978	1.00	36.99	O0	
ANISOU 7086 O ASN C 46	4570	4890	4590	-680	620	-1080	O0
ATOM 7087 CB ASN C 46	-34.270	19.008	42.298	1.00	39.75	C0	
ANISOU 7087 CB ASN C 46	5010	5200	4890	-820	640	-1240	C0
ATOM 7088 CG ASN C 46	-34.397	19.743	43.613	1.00	40.80	C0	
ANISOU 7088 CG ASN C 46	5220	5290	5000	-880	670	-1330	C0
ATOM 7089 OD1 ASN C 46	-35.478	19.790	44.194	1.00	40.38	O0	
ANISOU 7089 OD1 ASN C 46	5210	5200	4930	-840	710	-1340	O0
ATOM 7090 ND2 ASN C 46	-33.303	20.329	44.074	1.00	41.72	N0	
ANISOU 7090 ND2 ASN C 46	5330	5420	5100	-980	650	-1400	N0
ATOM 7091 H ASN C 46	-34.083	16.327	43.800	1.00	38.71	H0	
ANISOU 7091 H ASN C 46	4880	5240	4590	-770	450	-1250	H0
ATOM 7092 HA ASN C 46	-35.611	17.574	42.921	1.00	38.65	H0	
ANISOU 7092 HA ASN C 46	4900	5100	4690	-730	600	-1200	H0
ATOM 7093 HB2 ASN C 46	-33.330	18.990	42.030	1.00	39.91	H0	
ANISOU 7093 HB2 ASN C 46	4990	5270	4910	-860	610	-1250	H0
ATOM 7094 HB3 ASN C 46	-34.767	19.497	41.614	1.00	39.65	H0	
ANISOU 7094 HB3 ASN C 46	5010	5130	4930	-800	690	-1200	H0
ATOM 7095 HD21 ASN C 46	-33.251	20.558	44.927	1.00	42.16	H0	
ANISOU 7095 HD21 ASN C 46	5430	5470	5120	-1020	650	-1450	H0
ATOM 7096 HD22 ASN C 46	-32.624	20.494	43.530	1.00	41.81	H0	
ANISOU 7096 HD22 ASN C 46	5300	5460	5130	-1010	640	-1390	H0
ATOM 7097 N GLU C 47	-35.613	15.779	40.936	1.00	37.80	N0	
ANISOU 7097 N GLU C 47	4700	5070	4590	-610	510	-1070	N0
ATOM 7098 CA GLU C 47	-36.063	15.096	39.698	1.00	37.74	C0	
ANISOU 7098 CA GLU C 47	4670	5070	4600	-540	500	-990	C0

ATOM 7099 C GLUC 47	-37.478	14.557	39.925	1.00	38.17	C0	
ANISOU 7099 C GLUC 47	4760	5110	4640	-510	510	-940	C0
ATOM 7100 O GLUC 47	-37.803	14.158	41.067	1.00	38.19	O0	
ANISOU 7100 O GLUC 47	4810	5120	4580	-540	490	-970	O0
ATOM 7101 CB GLUC 47	-35.077	13.997	39.300	1.00	37.51	C0	
ANISOU 7101 CB GLUC 47	4600	5120	4540	-510	400	-1000	C0
ATOM 7102 CG GLUC 47	-33.674	14.519	39.043	1.00	38.35	C0	
ANISOU 7102 CG GLUC 47	4630	5280	4660	-540	390	-1050	C0
ATOM 7103 CD GLUC 47	-32.641	13.459	38.704	1.00	39.04	C0	
ANISOU 7103 CD GLUC 47	4660	5460	4710	-480	290	-1080	C0
ATOM 7104 OE1 GLUC 47	-33.044	12.295	38.473	1.00	39.74	O0	
ANISOU 7104 OE1 GLUC 47	4780	5550	4770	-400	220	-1050	O0
ATOM 7105 OE2 GLUC 47	-31.439	13.799	38.660	1.00	39.33	O0	
ANISOU 7105 OE2 GLUC 47	4620	5580	4740	-510	280	-1130	O0
ATOM 7106 H GLUC 47	-35.687	15.261	41.683	1.00	37.89	H0	
ANISOU 7106 H GLUC 47	4740	5100	4550	-620	470	-1090	H0
ATOM 7107 HA GLUC 47	-36.096	15.761	38.977	1.00	37.78	H0	
ANISOU 7107 HA GLUC 47	4650	5050	4660	-540	550	-970	H0
ATOM 7108 HB2 GLUC 47	-35.044	13.329	40.017	1.00	37.67	H0	
ANISOU 7108 HB2 GLUC 47	4650	5150	4510	-500	340	-1010	H0
ATOM 7109 HB3 GLUC 47	-35.408	13.556	38.490	1.00	37.23	H0	
ANISOU 7109 HB3 GLUC 47	4550	5080	4510	-460	390	-950	H0
ATOM 7110 HG2 GLUC 47	-33.708	15.163	38.303	1.00	38.42	H0	
ANISOU 7110 HG2 GLUC 47	4620	5270	4710	-550	450	-1030	H0
ATOM 7111 HG3 GLUC 47	-33.366	15.003	39.838	1.00	38.82	H0	
ANISOU 7111 HG3 GLUC 47	4710	5340	4710	-590	400	-1100	H0
ATOM 7112 N VALC 48	-38.288	14.572	38.867	1.00	38.53	N0	
ANISOU 7112 N VALC 48	4790	5130	4720	-470	540	-880	N0
ATOM 7113 CA VALC 48	-39.688	14.062	38.853	1.00	38.41	C0	
ANISOU 7113 CA VALC 48	4790	5120	4680	-440	550	-820	C0
ATOM 7114 C VALC 48	-39.863	13.208	37.589	1.00	38.24	C0	
ANISOU 7114 C VALC 48	4740	5120	4670	-400	510	-760	C0
ATOM 7115 O VALC 48	-39.281	13.560	36.546	1.00	38.01	O0	
ANISOU 7115 O VALC 48	4670	5090	4680	-380	520	-740	O0
ATOM 7116 CB VALC 48	-40.698	15.223	38.932	1.00	38.85	C0	
ANISOU 7116 CB VALC 48	4830	5140	4790	-430	660	-820	C0
ATOM 7117 CG1 VALC 48	-40.487	16.061	40.183	1.00	39.76	C0	
ANISOU 7117 CG1 VALC 48	4980	5230	4900	-470	700	-910	C0
ATOM 7118 CG2 VALC 48	-40.651	16.107	37.697	1.00	39.26	C0	
ANISOU 7118 CG2 VALC 48	4860	5140	4920	-390	700	-780	C0
ATOM 7119 H VALC 48	-38.023	14.904	38.061	1.00	38.31	H0	
ANISOU 7119 H VALC 48	4730	5100	4730	-450	560	-860	H0
ATOM 7120 HA VALC 48	-39.812	13.492	39.630	1.00	38.55	H0	
ANISOU 7120 HA VALC 48	4840	5170	4650	-470	520	-840	H0
ATOM 7121 HB VALC 48	-41.602	14.826	38.984	1.00	38.91	H0	
ANISOU 7121 HB VALC 48	4840	5170	4770	-420	660	-790	H0
ATOM 7122 HG11 VALC 48	-40.247	15.481	40.926	1.00	39.71	H0	
ANISOU 7122 HG11 VALC 48	5000	5260	4830	-510	660	-930	H0
ATOM 7123 HG12 VALC 48	-41.307	16.539	40.396	1.00	40.02	H0	
ANISOU 7123 HG12 VALC 48	5020	5250	4940	-450	760	-920	H0
ATOM 7124 HG13 VALC 48	-39.770	16.701	40.029	1.00	39.88	H0	
ANISOU 7124 HG13 VALC 48	5000	5200	4950	-480	710	-930	H0
ATOM 7125 HG21 VALC 48	-39.732	16.373	37.520	1.00	39.20	H0	
ANISOU 7125 HG21 VALC 48	4850	5120	4930	-410	690	-810	H0

ATOM 7126 HG22 VAL C 48	-41.193	16.901	37.847	1.00	39.56	H0	
ANISOU 7126 HG22 VAL C 48	4900	5140	4990	-370	760	-790	H0
ATOM 7127 HG23 VAL C 48	-41.001	15.619	36.932	1.00	38.79	H0	
ANISOU 7127 HG23 VAL C 48	4770	5100	4860	-360	680	-730	H0
ATOM 7128 N ASP C 49	-40.603	12.106	37.704	1.00	38.65	N0	
ANISOU 7128 N ASP C 49	4820	5200	4660	-400	460	-720	N0
ATOM 7129 CA ASP C 49	-40.956	11.185	36.590	1.00	38.54	C0	
ANISOU 7129 CA ASP C 49	4800	5200	4630	-370	400	-660	C0
ATOM 7130 C ASP C 49	-42.468	11.292	36.411	1.00	37.57	C0	
ANISOU 7130 C ASP C 49	4660	5100	4510	-380	450	-600	C0
ATOM 7131 O ASP C 49	-43.191	10.882	37.342	1.00	38.42	O0	
ANISOU 7131 O ASP C 49	4800	5240	4560	-430	450	-600	O0
ATOM 7132 CB ASP C 49	-40.484	9.761	36.900	1.00	39.88	C0	
ANISOU 7132 CB ASP C 49	5040	5380	4730	-380	290	-660	C0
ATOM 7133 CG ASP C 49	-40.557	8.775	35.744	1.00	40.42	C0	
ANISOU 7133 CG ASP C 49	5120	5450	4780	-340	220	-620	C0
ATOM 7134 OD1 ASP C 49	-41.148	9.118	34.703	1.00	40.26	O0	
ANISOU 7134 OD1 ASP C 49	5060	5440	4800	-320	270	-580	O0
ATOM 7135 OD2 ASP C 49	-40.044	7.645	35.913	1.00	41.79	O0	
ANISOU 7135 OD2 ASP C 49	5360	5610	4910	-320	110	-640	O0
ATOM 7136 H ASP C 49	-40.951	11.842	38.503	1.00	38.75	H0	
ANISOU 7136 H ASP C 49	4870	5230	4630	-440	450	-730	H0
ATOM 7137 HA ASP C 49	-40.511	11.496	35.767	1.00	38.40	H0	
ANISOU 7137 HA ASP C 49	4750	5180	4650	-340	420	-650	H0
ATOM 7138 HB2 ASP C 49	-39.555	9.799	37.207	1.00	39.86	H0	
ANISOU 7138 HB2 ASP C 49	5040	5370	4730	-370	260	-710	H0
ATOM 7139 HB3 ASP C 49	-41.030	9.405	37.631	1.00	39.92	H0	
ANISOU 7139 HB3 ASP C 49	5090	5390	4690	-420	270	-650	H0
ATOM 7140 N VAL C 50	-42.913	11.881	35.299	1.00	36.11	N0	
ANISOU 7140 N VAL C 50	4430	4910	4380	-340	500	-550	N0
ATOM 7141 CA VAL C 50	-44.332	12.274	35.069	1.00	35.99	C0	
ANISOU 7141 CA VAL C 50	4370	4930	4380	-320	560	-510	C0
ATOM 7142 C VAL C 50	-44.840	11.663	33.759	1.00	35.54	C0	
ANISOU 7142 C VAL C 50	4290	4900	4320	-300	520	-430	C0
ATOM 7143 O VAL C 50	-44.019	11.405	32.846	1.00	33.87	O0	
ANISOU 7143 O VAL C 50	4080	4670	4120	-280	480	-430	O0
ATOM 7144 CB VAL C 50	-44.497	13.805	35.068	1.00	37.16	C0	
ANISOU 7144 CB VAL C 50	4480	5030	4610	-280	650	-520	C0
ATOM 7145 CG1 VAL C 50	-44.200	14.402	36.434	1.00	38.39	C0	
ANISOU 7145 CG1 VAL C 50	4660	5160	4760	-300	690	-600	C0
ATOM 7146 CG2 VAL C 50	-43.641	14.478	34.012	1.00	37.85	C0	
ANISOU 7146 CG2 VAL C 50	4560	5060	4760	-250	660	-510	C0
ATOM 7147 H VAL C 50	-42.368	12.068	34.594	1.00	36.21	H0	
ANISOU 7147 H VAL C 50	4420	4910	4420	-310	500	-550	H0
ATOM 7148 HA VAL C 50	-44.867	11.913	35.798	1.00	36.37	H0	
ANISOU 7148 HA VAL C 50	4430	5010	4390	-360	550	-510	H0
ATOM 7149 HB VAL C 50	-45.444	13.999	34.856	1.00	37.58	H0	
ANISOU 7149 HB VAL C 50	4500	5110	4670	-250	680	-490	H0
ATOM 7150 HG11 VAL C 50	-44.747	13.962	37.108	1.00	38.28	H0	
ANISOU 7150 HG11 VAL C 50	4650	5190	4700	-330	690	-610	H0
ATOM 7151 HG12 VAL C 50	-44.403	15.354	36.425	1.00	38.52	H0	
ANISOU 7151 HG12 VAL C 50	4670	5140	4830	-270	750	-620	H0
ATOM 7152 HG13 VAL C 50	-43.259	14.274	36.647	1.00	37.95	H0	
ANISOU 7152 HG13 VAL C 50	4640	5090	4700	-330	660	-630	H0

ATOM 7153 HG21 VAL C 50	-42.701	14.327	34.210	1.00	37.44	H0	
ANISOU 7153 HG21 VAL C 50	4530	5000	4690	-270	630	-540	H0
ATOM 7154 HG22 VAL C 50	-43.820	15.435	34.011	1.00	37.99	H0	
ANISOU 7154 HG22 VAL C 50	4570	5040	4820	-220	710	-510	H0
ATOM 7155 HG23 VAL C 50	-43.851	14.110	33.137	1.00	37.39	H0	
ANISOU 7155 HG23 VAL C 50	4490	5030	4690	-230	630	-460	H0
ATOM 7156 N VAL C 51	-46.159	11.452	33.697	1.00	35.06	N0	
ANISOU 7156 N VAL C 51	4190	4900	4240	-320	530	-390	N0
ATOM 7157 CA VAL C 51	-46.922	11.083	32.473	1.00	35.03	C0	
ANISOU 7157 CA VAL C 51	4150	4940	4230	-300	510	-320	C0
ATOM 7158 C VAL C 51	-47.877	12.238	32.180	1.00	35.39	C0	
ANISOU 7158 C VAL C 51	4110	5010	4330	-240	580	-290	C0
ATOM 7159 O VAL C 51	-48.600	12.664	33.110	1.00	35.82	O0	
ANISOU 7159 O VAL C 51	4130	5100	4380	-240	630	-310	O0
ATOM 7160 CB VAL C 51	-47.683	9.754	32.642	1.00	35.43	C0	
ANISOU 7160 CB VAL C 51	4220	5050	4190	-380	440	-280	C0
ATOM 7161 CG1 VAL C 51	-48.436	9.370	31.374	1.00	35.44	C0	
ANISOU 7161 CG1 VAL C 51	4190	5100	4180	-380	410	-210	C0
ATOM 7162 CG2 VAL C 51	-46.761	8.628	33.082	1.00	35.00	C0	
ANISOU 7162 CG2 VAL C 51	4280	4950	4080	-430	350	-320	C0
ATOM 7163 H VAL C 51	-46.692	11.524	34.432	1.00	35.55	H0	
ANISOU 7163 H VAL C 51	4240	4990	4280	-340	560	-400	H0
ATOM 7164 HA VAL C 51	-46.299	10.994	31.734	1.00	34.77	H0	
ANISOU 7164 HA VAL C 51	4130	4880	4210	-280	480	-310	H0
ATOM 7165 HB VAL C 51	-48.352	9.888	33.358	1.00	35.72	H0	
ANISOU 7165 HB VAL C 51	4230	5130	4210	-410	470	-290	H0
ATOM 7166 HG11 VAL C 51	-49.179	9.982	31.237	1.00	35.79	H0	
ANISOU 7166 HG11 VAL C 51	4160	5190	4250	-350	460	-190	H0
ATOM 7167 HG12 VAL C 51	-48.777	8.463	31.460	1.00	35.58	H0	
ANISOU 7167 HG12 VAL C 51	4240	5140	4140	-450	360	-200	H0
ATOM 7168 HG13 VAL C 51	-47.833	9.418	30.611	1.00	35.17	H0	
ANISOU 7168 HG13 VAL C 51	4170	5030	4170	-340	390	-210	H0
ATOM 7169 HG21 VAL C 51	-46.027	8.543	32.450	1.00	34.76	H0	
ANISOU 7169 HG21 VAL C 51	4260	4880	4060	-390	330	-320	H0
ATOM 7170 HG22 VAL C 51	-47.259	7.792	33.113	1.00	35.24	H0	
ANISOU 7170 HG22 VAL C 51	4340	5000	4050	-490	310	-290	H0
ATOM 7171 HG23 VAL C 51	-46.406	8.825	33.966	1.00	35.11	H0	
ANISOU 7171 HG23 VAL C 51	4310	4940	4090	-440	370	-360	H0
ATOM 7172 N PHE C 52	-47.886	12.723	30.939	1.00	35.27	N0	
ANISOU 7172 N PHE C 52	4070	4970	4360	-190	580	-230	N0
ATOM 7173 CA PHE C 52	-48.732	13.863	30.512	1.00	36.01	C0	
ANISOU 7173 CA PHE C 52	4100	5070	4510	-100	640	-200	C0
ATOM 7174 C PHE C 52	-49.047	13.756	29.021	1.00	35.85	C0	
ANISOU 7174 C PHE C 52	4050	5080	4490	-80	600	-110	C0
ATOM 7175 O PHE C 52	-48.230	13.222	28.249	1.00	36.11	O0	
ANISOU 7175 O PHE C 52	4120	5090	4500	-110	550	-100	O0
ATOM 7176 CB PHE C 52	-48.031	15.184	30.839	1.00	36.84	C0	
ANISOU 7176 CB PHE C 52	4230	5070	4690	-50	690	-240	C0
ATOM 7177 CG PHE C 52	-46.677	15.340	30.199	1.00	36.47	C0	
ANISOU 7177 CG PHE C 52	4240	4950	4660	-80	680	-240	C0
ATOM 7178 CD1 PHE C 52	-45.555	14.750	30.757	1.00	36.13	C0	
ANISOU 7178 CD1 PHE C 52	4240	4900	4590	-130	650	-300	C0
ATOM 7179 CD2 PHE C 52	-46.531	16.051	29.018	1.00	37.33	C0	
ANISOU 7179 CD2 PHE C 52	4350	5020	4810	-40	680	-170	C0

ATOM 7180 CE1 PHE C 52	-44.312	14.885	30.157	1.00	36.46	C0	
ANISOU 7180 CE1 PHE C 52	4310	4910	4640	-150	640	-300	C0
ATOM 7181 CE2 PHE C 52	-45.287	16.192	28.424	1.00	37.24	C0	
ANISOU 7181 CE2 PHE C 52	4380	4970	4800	-80	670	-170	C0
ATOM 7182 CZ PHE C 52	-44.179	15.605	28.992	1.00	36.83	C0	
ANISOU 7182 CZ PHE C 52	4350	4930	4710	-130	660	-240	C0
ATOM 7183 H PHE C 52	-47.370	12.393	30.264	1.00	35.00	H0	
ANISOU 7183 H PHE C 52	4060	4930	4320	-190	550	-220	H0
ATOM 7184 HA PHE C 52	-49.583	13.825	31.015	1.00	36.48	H0	
ANISOU 7184 HA PHE C 52	4110	5190	4560	-100	650	-200	H0
ATOM 7185 HB2 PHE C 52	-48.607	15.922	30.547	1.00	37.29	H0	
ANISOU 7185 HB2 PHE C 52	4260	5110	4790	10	720	-210	H0
ATOM 7186 HB3 PHE C 52	-47.931	15.250	31.812	1.00	36.79	H0	
ANISOU 7186 HB3 PHE C 52	4240	5060	4680	-70	720	-290	H0
ATOM 7187 HD1 PHE C 52	-45.638	14.255	31.556	1.00	36.12	H0	
ANISOU 7187 HD1 PHE C 52	4250	4920	4550	-160	640	-330	H0
ATOM 7188 HD2 PHE C 52	-47.286	16.457	28.624	1.00	37.70	H0	
ANISOU 7188 HD2 PHE C 52	4370	5070	4880	10	690	-130	H0
ATOM 7189 HE1 PHE C 52	-43.554	14.484	30.551	1.00	36.07	H0	
ANISOU 7189 HE1 PHE C 52	4280	4860	4560	-180	620	-350	H0
ATOM 7190 HE2 PHE C 52	-45.202	16.684	27.625	1.00	37.50	H0	
ANISOU 7190 HE2 PHE C 52	4420	4980	4850	-70	670	-120	H0
ATOM 7191 HZ PHE C 52	-43.333	15.698	28.585	1.00	36.71	H0	
ANISOU 7191 HZ PHE C 52	4350	4910	4690	-160	650	-250	H0
ATOM 7192 N TRP C 53	-50.210	14.263	28.629	1.00	36.18	N0	
ANISOU 7192 N TRP C 53	4020	5170	4560	-20	610	-60	N0
ATOM 7193 CA TRP C 53	-50.526	14.559	27.214	1.00	36.92	C0	
ANISOU 7193 CA TRP C 53	4090	5280	4670	30	580	20	C0
ATOM 7194 C TRP C 53	-49.818	15.861	26.840	1.00	37.98	C0	
ANISOU 7194 C TRP C 53	4270	5290	4870	90	620	40	C0
ATOM 7195 O TRP C 53	-50.079	16.879	27.503	1.00	39.05	O0	
ANISOU 7195 O TRP C 53	4400	5370	5070	160	660	10	O0
ATOM 7196 CB TRP C 53	-52.035	14.670	26.986	1.00	37.48	C0	
ANISOU 7196 CB TRP C 53	4050	5460	4730	80	580	70	C0
ATOM 7197 CG TRP C 53	-52.838	13.497	27.447	1.00	36.97	C0	
ANISOU 7197 CG TRP C 53	3930	5520	4590	-10	550	60	C0
ATOM 7198 CD1 TRP C 53	-52.396	12.240	27.735	1.00	35.97	C0	
ANISOU 7198 CD1 TRP C 53	3870	5410	4390	-120	510	40	C0
ATOM 7199 CD2 TRP C 53	-54.262	13.480	27.643	1.00	37.91	C0	
ANISOU 7199 CD2 TRP C 53	3930	5780	4690	10	560	80	C0
ATOM 7200 NE1 TRP C 53	-53.446	11.443	28.103	1.00	36.51	N0	
ANISOU 7200 NE1 TRP C 53	3870	5610	4390	-200	490	50	N0
ATOM 7201 CE2 TRP C 53	-54.604	12.178	28.061	1.00	37.65	C0	
ANISOU 7201 CE2 TRP C 53	3890	5850	4560	-120	520	70	C0
ATOM 7202 CE3 TRP C 53	-55.270	14.441	27.520	1.00	39.13	C0	
ANISOU 7202 CE3 TRP C 53	3980	6000	4890	140	580	100	C0
ATOM 7203 CZ2 TRP C 53	-55.916	11.818	28.362	1.00	38.61	C0	
ANISOU 7203 CZ2 TRP C 53	3900	6140	4630	-160	530	80	C0
ATOM 7204 CZ3 TRP C 53	-56.566	14.083	27.812	1.00	40.51	C0	
ANISOU 7204 CZ3 TRP C 53	4020	6350	5020	120	590	100	C0
ATOM 7205 CH2 TRP C 53	-56.883	12.787	28.226	1.00	40.09	C0	
ANISOU 7205 CH2 TRP C 53	3950	6410	4870	-40	560	90	C0
ATOM 7206 H TRP C 53	-50.883	14.472	29.207	1.00	36.83	H0	
ANISOU 7206 H TRP C 53	4060	5290	4650	0	640	-80	H0

ATOM 7207 HA TRP C 53	-50.180	13.825	26.658	1.00	36.48	H0	
ANISOU 7207 HA TRP C 53	4050	5240	4570	-20	540	40	H0
ATOM 7208 HB2 TRP C 53	-52.354	15.472	27.448	1.00	38.01	H0	
ANISOU 7208 HB2 TRP C 53	4090	5500	4850	150	620	50	H0
ATOM 7209 HB3 TRP C 53	-52.189	14.801	26.028	1.00	37.63	H0	
ANISOU 7209 HB3 TRP C 53	4060	5480	4750	100	550	130	H0
ATOM 7210 HD1 TRP C 53	-51.498	11.951	27.681	1.00	35.51	H0	
ANISOU 7210 HD1 TRP C 53	3880	5280	4330	-150	490	20	H0
ATOM 7211 HE1 TRP C 53	-53.384	10.606	28.336	1.00	36.38	H0	
ANISOU 7211 HE1 TRP C 53	3890	5610	4320	-280	460	40	H0
ATOM 7212 HE3 TRP C 53	-55.064	15.319	27.243	1.00	39.48	H0	
ANISOU 7212 HE3 TRP C 53	4040	5960	5000	230	600	110	H0
ATOM 7213 HZ2 TRP C 53	-56.131	10.944	28.638	1.00	38.69	H0	
ANISOU 7213 HZ2 TRP C 53	3920	6210	4570	-270	500	80	H0
ATOM 7214 HZ3 TRP C 53	-57.255	14.723	27.729	1.00	41.23	H0	
ANISOU 7214 HZ3 TRP C 53	4030	6490	5150	220	600	110	H0
ATOM 7215 HH2 TRP C 53	-57.776	12.574	28.418	1.00	40.78	H0	
ANISOU 7215 HH2 TRP C 53	3940	6630	4920	-60	570	100	H0
ATOM 7216 N GLN C 54	-48.933	15.825	25.847	1.00	38.24	N0	
ANISOU 7216 N GLN C 54	4350	5290	4890	60	590	70	N0
ATOM 7217 CA GLN C 54	-48.335	17.045	25.253	1.00	39.96	C0	
ANISOU 7217 CA GLN C 54	4620	5400	5160	90	610	110	C0
ATOM 7218 C GLN C 54	-49.262	17.507	24.121	1.00	41.42	C0	
ANISOU 7218 C GLN C 54	4770	5610	5360	160	580	220	C0
ATOM 7219 O GLN C 54	-48.989	17.174	22.956	1.00	41.35	O0	
ANISOU 7219 O GLN C 54	4770	5640	5300	120	540	280	O0
ATOM 7220 CB GLN C 54	-46.908	16.751	24.798	1.00	40.04	C0	
ANISOU 7220 CB GLN C 54	4680	5390	5140	10	610	90	C0
ATOM 7221 CG GLN C 54	-46.132	17.993	24.395	1.00	41.39	C0	
ANISOU 7221 CG GLN C 54	4910	5460	5350	0	640	130	C0
ATOM 7222 CD GLN C 54	-44.648	17.730	24.428	1.00	41.99	C0	
ANISOU 7222 CD GLN C 54	5020	5540	5400	-90	650	70	C0
ATOM 7223 OE1 GLN C 54	-44.052	17.542	25.491	1.00	43.00	O0	
ANISOU 7223 OE1 GLN C 54	5150	5650	5530	-110	670	-20	O0
ATOM 7224 NE2 GLN C 54	-44.045	17.689	23.253	1.00	42.02	N0	
ANISOU 7224 NE2 GLN C 54	5030	5590	5350	-130	640	120	N0
ATOM 7225 H GLN C 54	-48.642	15.047	25.471	1.00	37.93	H0	
ANISOU 7225 H GLN C 54	4320	5290	4810	10	560	80	H0
ATOM 7226 HA GLN C 54	-48.308	17.747	25.942	1.00	40.31	H0	
ANISOU 7226 HA GLN C 54	4680	5380	5260	120	650	80	H0
ATOM 7227 HB2 GLN C 54	-46.437	16.301	25.530	1.00	39.58	H0	
ANISOU 7227 HB2 GLN C 54	4630	5340	5070	-20	620	30	H0
ATOM 7228 HB3 GLN C 54	-46.942	16.133	24.039	1.00	39.87	H0	
ANISOU 7228 HB3 GLN C 54	4640	5430	5070	-10	580	130	H0
ATOM 7229 HG2 GLN C 54	-46.396	18.266	23.490	1.00	41.90	H0	
ANISOU 7229 HG2 GLN C 54	4980	5530	5410	20	620	200	H0
ATOM 7230 HG3 GLN C 54	-46.346	18.728	25.009	1.00	41.88	H0	
ANISOU 7230 HG3 GLN C 54	5000	5450	5470	40	670	110	H0
ATOM 7231 HE21 GLN C 54	-43.257	18.077	23.146	1.00	42.27	H0	
ANISOU 7231 HE21 GLN C 54	5080	5600	5380	-180	660	110	H0
ATOM 7232 HE22 GLN C 54	-44.428	17.274	22.573	1.00	42.03	H0	
ANISOU 7232 HE22 GLN C 54	5010	5640	5320	-120	610	160	H0
ATOM 7233 N GLN C 55	-50.335	18.226	24.468	1.00	42.75	N0	
ANISOU 7233 N GLN C 55	4900	5770	5580	260	590	230	N0

ATOM 7234 CA GLN C 55	-51.430	18.587	23.530	1.00	44.47		C0
ANISOU 7234 CA GLN C 55	5060	6030	5800	340	550	330	C0
ATOM 7235 C GLN C 55	-50.934	19.674	22.571	1.00	44.90		C0
ANISOU 7235 C GLN C 55	5200	5970	5890	370	530	410	C0
ATOM 7236 O GLN C 55	-50.816	20.840	22.999	1.00	45.91		O0
ANISOU 7236 O GLN C 55	5400	5960	6090	440	560	400	O0
ATOM 7237 CB GLN C 55	-52.676	19.002	24.312	1.00	46.08		C0
ANISOU 7237 CB GLN C 55	5180	6280	6050	460	570	300	C0
ATOM 7238 CG GLN C 55	-53.218	17.880	25.184	1.00	46.14		C0
ANISOU 7238 CG GLN C 55	5100	6430	6000	400	580	230	C0
ATOM 7239 CD GLN C 55	-54.521	18.248	25.845	1.00	48.50		C0
ANISOU 7239 CD GLN C 55	5290	6810	6330	510	600	200	C0
ATOM 7240 OE1 GLN C 55	-55.563	17.648	25.585	1.00	50.39		O0
ANISOU 7240 OE1 GLN C 55	5410	7210	6520	510	570	230	O0
ATOM 7241 NE2 GLN C 55	-54.472	19.252	26.706	1.00	49.98		N0
ANISOU 7241 NE2 GLN C 55	5500	6910	6590	600	660	140	N0
ATOM 7242 H GLN C 55	-50.452	18.548	25.312	1.00	43.00		H0
ANISOU 7242 H GLN C 55	4930	5770	5640	290	630	180	H0
ATOM 7243 HA GLN C 55	-51.651	17.785	23.002	1.00	44.05		H0
ANISOU 7243 HA GLN C 55	4970	6070	5690	300	510	360	H0
ATOM 7244 HB2 GLN C 55	-52.455	19.772	24.874	1.00	46.45		H0
ANISOU 7244 HB2 GLN C 55	5270	6230	6150	510	600	260	H0
ATOM 7245 HB3 GLN C 55	-53.367	19.280	23.677	1.00	46.83		H0
ANISOU 7245 HB3 GLN C 55	5240	6410	6150	530	530	360	H0
ATOM 7246 HG2 GLN C 55	-53.353	17.079	24.633	1.00	45.90		H0
ANISOU 7246 HG2 GLN C 55	5040	6480	5920	340	540	270	H0
ATOM 7247 HG3 GLN C 55	-52.559	17.660	25.877	1.00	45.64		H0
ANISOU 7247 HG3 GLN C 55	5080	6330	5940	350	610	170	H0
ATOM 7248 HE21 GLN C 55	-55.221	19.592	27.031	1.00	50.58		H0
ANISOU 7248 HE21 GLN C 55	5510	7030	6680	680	670	110	H0
ATOM 7249 HE22 GLN C 55	-53.692	19.582	26.958	1.00	49.39		H0
ANISOU 7249 HE22 GLN C 55	5510	6720	6530	580	680	110	H0
ATOM 7250 N THR C 56	-50.654	19.289	21.323	1.00	43.74		N0
ANISOU 7250 N THR C 56	5070	5870	5680	310	490	490	N0
ATOM 7251 CA THR C 56	-50.071	20.163	20.272	1.00	44.39		C0
ANISOU 7251 CA THR C 56	5250	5860	5760	300	470	590	C0
ATOM 7252 C THR C 56	-51.101	20.348	19.152	1.00	45.18		C0
ANISOU 7252 C THR C 56	5310	6020	5840	370	400	710	C0
ATOM 7253 O THR C 56	-51.567	19.325	18.604	1.00	45.02		O0
ANISOU 7253 O THR C 56	5210	6150	5740	330	360	720	O0
ATOM 7254 CB THR C 56	-48.744	19.588	19.766	1.00	43.40		C0
ANISOU 7254 CB THR C 56	5160	5760	5560	160	490	570	C0
ATOM 7255 OG1 THR C 56	-48.029	19.060	20.883	1.00	43.48		O0
ANISOU 7255 OG1 THR C 56	5170	5770	5580	110	530	450	O0
ATOM 7256 CG2 THR C 56	-47.890	20.622	19.073	1.00	44.56		C0
ANISOU 7256 CG2 THR C 56	5410	5810	5710	110	500	640	C0
ATOM 7257 H THR C 56	-50.804	18.442	21.022	1.00	43.49		H0
ANISOU 7257 H THR C 56	5000	5930	5590	270	470	500	H0
ATOM 7258 HA THR C 56	-49.890	21.039	20.676	1.00	44.88		H0
ANISOU 7258 HA THR C 56	5360	5810	5880	330	500	580	H0
ATOM 7259 HB THR C 56	-48.940	18.857	19.133	1.00	43.44		H0
ANISOU 7259 HB THR C 56	5130	5870	5510	130	460	590	H0
ATOM 7260 HG21 THR C 56	-48.364	20.970	18.297	1.00	45.18		H0
ANISOU 7260 HG21 THR C 56	5510	5890	5770	140	460	730	H0

ATOM	7261	HG22	THR	C	56	-47.054	20.213	18.785	1.00	43.98	H0	
ANISOU	7261	HG22	THR	C	56	5350	5780	5580	20	510	620	H0
ATOM	7262	HG23	THR	C	56	-47.698	21.352	19.689	1.00	44.79	H0	
ANISOU	7262	HG23	THR	C	56	5490	5730	5800	130	520	620	H0
ATOM	7263	N	THR	C	57	-51.438	21.604	18.847	1.00	45.82	N0	
ANISOU	7263	N	THR	C	57	5450	5980	5970	460	380	780	N0
ATOM	7264	CA	THR	C	57	-52.430	22.019	17.822	1.00	47.30	C0	
ANISOU	7264	CA	THR	C	57	5620	6200	6150	550	300	910	C0
ATOM	7265	C	THR	C	57	-51.816	23.102	16.920	1.00	47.76	C0	
ANISOU	7265	C	THR	C	57	5830	6120	6210	530	270	1020	C0
ATOM	7266	O	THR	C	57	-51.187	24.033	17.455	1.00	47.51	O0	
ANISOU	7266	O	THR	C	57	5900	5910	6240	530	300	1000	O0
ATOM	7267	CB	THR	C	57	-53.715	22.490	18.511	1.00	49.12	C0	
ANISOU	7267	CB	THR	C	57	5770	6430	6460	730	280	890	C0
ATOM	7268	OG1	THR	C	57	-54.345	21.334	19.064	1.00	49.11	O0	
ANISOU	7268	OG1	THR	C	57	5620	6610	6430	710	300	810	O0
ATOM	7269	CG2	THR	C	57	-54.664	23.224	17.591	1.00	51.23	C0	
ANISOU	7269	CG2	THR	C	57	6030	6690	6740	870	190	1010	C0
ATOM	7270	H	THR	C	57	-51.066	22.322	19.267	1.00	46.38	H0	
ANISOU	7270	H	THR	C	57	5590	5940	6090	480	400	770	H0
ATOM	7271	HA	THR	C	57	-52.642	21.234	17.269	1.00	46.88	H0	
ANISOU	7271	HA	THR	C	57	5510	6270	6030	510	270	930	H0
ATOM	7272	HB	THR	C	57	-53.464	23.090	19.247	1.00	49.40	H0	
ANISOU	7272	HB	THR	C	57	5850	6360	6560	770	320	830	H0
ATOM	7273	HG21	THR	C	57	-54.362	24.142	17.473	1.00	51.97	H0	
ANISOU	7273	HG21	THR	C	57	6230	6640	6870	900	180	1050	H0
ATOM	7274	HG22	THR	C	57	-55.557	23.225	17.980	1.00	51.65	H0	
ANISOU	7274	HG22	THR	C	57	5990	6810	6820	970	180	980	H0
ATOM	7275	HG23	THR	C	57	-54.689	22.778	16.725	1.00	51.01	H0	
ANISOU	7275	HG23	THR	C	57	5990	6750	6640	810	150	1080	H0
ATOM	7276	N	TRP	C	58	-51.995	22.978	15.602	1.00	47.85	N0	
ANISOU	7276	N	TRP	C	58	5840	6200	6140	500	200	1140	N0
ATOM	7277	CA	TRP	C	58	-51.592	23.993	14.592	1.00	49.01	C0	
ANISOU	7277	CA	TRP	C	58	6130	6230	6260	470	160	1280	C0
ATOM	7278	C	TRP	C	58	-52.348	23.752	13.282	1.00	50.70	C0	
ANISOU	7278	C	TRP	C	58	6310	6560	6390	490	70	1410	C0
ATOM	7279	O	TRP	C	58	-53.070	22.739	13.185	1.00	49.81	O0	
ANISOU	7279	O	TRP	C	58	6060	6620	6240	510	40	1380	O0
ATOM	7280	CB	TRP	C	58	-50.078	23.963	14.365	1.00	47.59	C0	
ANISOU	7280	CB	TRP	C	58	6050	6010	6020	280	220	1260	C0
ATOM	7281	CG	TRP	C	58	-49.616	22.736	13.644	1.00	45.99	C0	
ANISOU	7281	CG	TRP	C	58	5770	6000	5700	150	230	1240	C0
ATOM	7282	CD1	TRP	C	58	-49.437	22.591	12.299	1.00	46.07	C0	
ANISOU	7282	CD1	TRP	C	58	5810	6100	5600	70	190	1350	C0
ATOM	7283	CD2	TRP	C	58	-49.285	21.465	14.231	1.00	43.66	C0	
ANISOU	7283	CD2	TRP	C	58	5380	5830	5380	100	280	1110	C0
ATOM	7284	NE1	TRP	C	58	-49.015	21.324	12.011	1.00	44.66	N0	
ANISOU	7284	NE1	TRP	C	58	5550	6090	5330	-20	220	1270	N0
ATOM	7285	CE2	TRP	C	58	-48.910	20.609	13.172	1.00	43.14	C0	
ANISOU	7285	CE2	TRP	C	58	5290	5910	5190	0	270	1130	C0
ATOM	7286	CE3	TRP	C	58	-49.262	20.972	15.540	1.00	42.19	C0	
ANISOU	7286	CE3	TRP	C	58	5130	5640	5260	130	330	970	C0
ATOM	7287	CZ2	TRP	C	58	-48.518	19.289	13.385	1.00	41.62	C0	
ANISOU	7287	CZ2	TRP	C	58	5020	5840	4950	-60	300	1010	C0

ATOM 7288 CZ3 TRP C 58	-48.876	19.667	15.750	1.00	41.01	C0
ANISOU 7288 CZ3 TRP C 58	4910	5610	5050	60	360	880
ATOM 7289 CH2 TRP C 58	-48.510	18.838	14.687	1.00	40.90	C0
ANISOU 7289 CH2 TRP C 58	4890	5730	4930	-20	340	890
ATOM 7290 H TRP C 58	-52.383	22.242	15.230	1.00	47.54	H0
ANISOU 7290 H TRP C 58	5730	6290	6050	480	180	1150
ATOM 7291 HA TRP C 58	-51.833	24.883	14.941	1.00	50.02	H0
ANISOU 7291 HA TRP C 58	6320	6220	6460	560	140	1300
ATOM 7292 HB2 TRP C 58	-49.826	24.756	13.848	1.00	48.74	H0
ANISOU 7292 HB2 TRP C 58	6300	6060	6160	250	190	1350
ATOM 7293 HB3 TRP C 58	-49.632	24.015	15.234	1.00	47.07	H0
ANISOU 7293 HB3 TRP C 58	5990	5890	6010	260	270	1170
ATOM 7294 HD1 TRP C 58	-49.584	23.267	11.655	1.00	47.29	H0
ANISOU 7294 HD1 TRP C 58	6040	6200	5730	70	150	1450
ATOM 7295 HE1 TRP C 58	-48.838	21.022	11.209	1.00	44.91	H0
ANISOU 7295 HE1 TRP C 58	5590	6200	5280	-80	200	1310
ATOM 7296 HE3 TRP C 58	-49.507	21.524	16.265	1.00	42.60	H0
ANISOU 7296 HE3 TRP C 58	5200	5600	5390	200	350	950
ATOM 7297 HZ2 TRP C 58	-48.274	18.731	12.670	1.00	41.70	H0
ANISOU 7297 HZ2 TRP C 58	5020	5950	4870	-120	290	1020
ATOM 7298 HZ3 TRP C 58	-48.858	19.324	16.630	1.00	40.34	H0
ANISOU 7298 HZ3 TRP C 58	4800	5520	5010	80	380	790
ATOM 7299 HH2 TRP C 58	-48.251	17.951	14.862	1.00	40.00	H0
ANISOU 7299 HH2 TRP C 58	4740	5680	4780	-60	350	820
ATOM 7300 N SER C 59	-52.172	24.652	12.313	1.00	53.33	N0
ANISOU 7300 N SER C 59	6770	6800	6690	470	10	1550
ATOM 7301 CA SER C 59	-52.765	24.558	10.955	1.00	55.63	C0
ANISOU 7301 CA SER C 59	7060	7190	6890	470	-90	1690
ATOM 7302 C SER C 59	-51.652	24.413	9.912	1.00	55.90	C0
ANISOU 7302 C SER C 59	7180	7260	6800	270	-70	1760
ATOM 7303 O SER C 59	-50.669	25.167	9.988	1.00	55.72	O0
ANISOU 7303 O SER C 59	7290	7100	6780	180	-30	1780
ATOM 7304 CB SER C 59	-53.647	25.739	10.672	1.00	58.67	C0
ANISOU 7304 CB SER C 59	7510	7440	7340	640	-190	1820
ATOM 7305 OG SER C 59	-54.847	25.649	11.428	1.00	59.87	O0
ANISOU 7305 OG SER C 59	7530	7640	7580	840	-220	1750
ATOM 7306 H SER C 59	-51.668	25.403	12.418	1.00	53.92	H0
ANISOU 7306 H SER C 59	6950	6730	6800	450	20	1570
ATOM 7307 HA SER C 59	-53.326	23.738	10.922	1.00	54.99	H0
ANISOU 7307 HA SER C 59	6860	7250	6780	490	-100	1660
ATOM 7308 HB2 SER C 59	-53.171	26.568	10.905	1.00	59.33	H0
ANISOU 7308 HB2 SER C 59	7720	7360	7470	640	-180	1840
ATOM 7309 HB3 SER C 59	-53.863	25.767	9.712	1.00	59.50	H0
ANISOU 7309 HB3 SER C 59	7640	7600	7370	620	-260	1920
ATOM 7310 N ASP C 60	-51.794	23.427	9.022	1.00	56.56	N0
ANISOU 7310 N ASP C 60	7190	7540	6760	200	-90	1770
ATOM 7311 CA ASP C 60	-51.037	23.280	7.750	1.00	58.18	C0
ANISOU 7311 CA ASP C 60	7460	7830	6810	30	-100	1850
ATOM 7312 C ASP C 60	-52.073	23.364	6.622	1.00	60.90	C0
ANISOU 7312 C ASP C 60	7790	8260	7090	90	-220	2000
ATOM 7313 O ASP C 60	-52.571	22.308	6.192	1.00	60.27	O0
ANISOU 7313 O ASP C 60	7600	8370	6930	70	-240	1970
ATOM 7314 CB ASP C 60	-50.216	21.985	7.754	1.00	56.32	C0
ANISOU 7314 CB ASP C 60	7140	7760	6490	-100	-20	1720

ATOM 7315 CG ASP C 60	-49.263	21.809	6.579	1.00	56.93	C0
ANISOU 7315 CG ASP C 60	7280	7940	6410	-280	10	1760
ATOM 7316 OD1 ASP C 60	-49.455	22.495	5.545	1.00	57.70	O0
ANISOU 7316 OD1 ASP C 60	7460	8030	6430	-310	-60	1920
ATOM 7317 OD2 ASP C 60	-48.328	20.978	6.707	1.00	55.02	O0
ANISOU 7317 OD2 ASP C 60	6990	7800	6120	-380	90	1640
ATOM 7318 H ASP C 60	-52.392	22.751	9.151	1.00	56.02	H0
ANISOU 7318 H ASP C 60	7020	7580	6690	240	-110	1730
ATOM 7319 HA ASP C 60	-50.416	24.042	7.666	1.00	58.85	H0
ANISOU 7319 HA ASP C 60	7650	7810	6900	-30	-80	1900
ATOM 7320 HB2 ASP C 60	-49.686	21.956	8.577	1.00	55.57	H0
ANISOU 7320 HB2 ASP C 60	7050	7610	6460	-110	50	1630
ATOM 7321 HB3 ASP C 60	-50.829	21.223	7.765	1.00	55.87	H0
ANISOU 7321 HB3 ASP C 60	7000	7810	6430	-60	-40	1680
ATOM 7322 N ARG C 61	-52.401	24.584	6.183	1.00	64.81	N0
ANISOU 7322 N ARG C 61	8410	8610	7600	150	-300	2160
ATOM 7323 CA ARG C 61	-53.568	24.871	5.302	1.00	68.06	C0
ANISOU 7323 CA ARG C 61	8820	9070	7980	260	-440	2300
ATOM 7324 C ARG C 61	-53.290	24.395	3.869	1.00	68.03	C0
ANISOU 7324 C ARG C 61	8840	9230	7780	100	-470	2400
ATOM 7325 O ARG C 61	-54.157	24.618	3.008	1.00	68.74	O0
ANISOU 7325 O ARG C 61	8930	9370	7820	170	-600	2530
ATOM 7326 CB ARG C 61	-53.927	26.360	5.372	1.00	71.68	C0
ANISOU 7326 CB ARG C 61	9420	9290	8520	390	-520	2430
ATOM 7327 CG ARG C 61	-54.203	26.845	6.789	1.00	72.74	C0
ANISOU 7327 CG ARG C 61	9530	9270	8840	550	-480	2330
ATOM 7328 CD ARG C 61	-54.949	28.164	6.873	1.00	76.30	C0
ANISOU 7328 CD ARG C 61	10090	9510	9390	760	-590	2430
ATOM 7329 NE ARG C 61	-55.127	28.569	8.266	1.00	77.07	N0
ANISOU 7329 NE ARG C 61	10170	9470	9650	900	-540	2300
ATOM 7330 CZ ARG C 61	-56.036	29.439	8.711	1.00	79.48	C0
ANISOU 7330 CZ ARG C 61	10490	9630	10070	1150	-620	2320
ATOM 7331 NH1 ARG C 61	-56.879	30.026	7.875	1.00	81.57	N0
ANISOU 7331 NH1 ARG C 61	10800	9870	10320	1280	-770	2470
ATOM 7332 NH2 ARG C 61	-56.095	29.720	10.004	1.00	79.43	N0
ANISOU 7332 NH2 ARG C 61	10460	9520	10190	1260	-550	2180
ATOM 7333 H ARG C 61	-51.911	25.322	6.392	1.00	65.22	H0
ANISOU 7333 H ARG C 61	8570	8520	7690	130	-280	2180
ATOM 7334 HA ARG C 61	-54.334	24.357	5.647	1.00	67.46	H0
ANISOU 7334 HA ARG C 61	8610	9080	7940	360	-460	2250
ATOM 7335 HB2 ARG C 61	-53.187	26.880	4.995	1.00	72.25	H0
ANISOU 7335 HB2 ARG C 61	9620	9280	8550	280	-510	2500
ATOM 7336 HB3 ARG C 61	-54.722	26.518	4.821	1.00	72.77	H0
ANISOU 7336 HB3 ARG C 61	9540	9470	8640	480	-620	2530
ATOM 7337 HG2 ARG C 61	-54.726	26.162	7.260	1.00	71.75	H0
ANISOU 7337 HG2 ARG C 61	9260	9250	8740	620	-470	2230
ATOM 7338 HG3 ARG C 61	-53.350	26.940	7.262	1.00	71.99	H0
ANISOU 7338 HG3 ARG C 61	9490	9100	8760	460	-400	2260
ATOM 7339 HD2 ARG C 61	-54.448	28.856	6.392	1.00	77.33	H0
ANISOU 7339 HD2 ARG C 61	10380	9520	9480	680	-620	2540
ATOM 7340 HD3 ARG C 61	-55.826	28.067	6.444	1.00	77.05	H0
ANISOU 7340 HD3 ARG C 61	10120	9690	9470	860	-680	2490
ATOM 7341 HE ARG C 61	-54.596	28.211	8.858	1.00	75.71	H0
ANISOU 7341 HE ARG C 61	9970	9310	9490	830	-450	2200

ATOM	7342	HH11	ARG	C	61	-56.849	29.848	7.016	1.00	81.90	H0	
ANISOU	7342	HH11	ARG	C	61	10860	9990	10270	1210	-810	2570	H0
ATOM	7343	HH12	ARG	C	61	-57.472	30.598	8.183	1.00	82.74	H0	
ANISOU	7343	HH12	ARG	C	61	10960	9930	10550	1460	-820	2480	H0
ATOM	7344	HH21	ARG	C	61	-55.536	29.333	10.564	1.00	77.86	H0	
ANISOU	7344	HH21	ARG	C	61	10240	9340	10000	1170	-460	2080	H0
ATOM	7345	HH22	ARG	C	61	-56.693	30.295	10.302	1.00	80.42	H0	
ANISOU	7345	HH22	ARG	C	61	10600	9560	10400	1430	-600	2180	H0
ATOM	7346	N	THR	C	62	-52.147	23.736	3.636	1.00	67.22	N0	
ANISOU	7346	N	THR	C	62	8740	9220	7580	-90	-370	2320	N0
ATOM	7347	CA	THR	C	62	-51.828	22.991	2.387	1.00	68.12	C0	
ANISOU	7347	CA	THR	C	62	8840	9540	7510	-240	-380	2350	C0
ATOM	7348	C	THR	C	62	-52.555	21.639	2.397	1.00	66.57	C0	
ANISOU	7348	C	THR	C	62	8480	9530	7280	-200	-400	2240	C0
ATOM	7349	O	THR	C	62	-52.912	21.158	1.303	1.00	67.98	O0	
ANISOU	7349	O	THR	C	62	8640	9870	7320	-260	-460	2300	O0
ATOM	7350	CB	THR	C	62	-50.318	22.783	2.210	1.00	68.02	C0	
ANISOU	7350	CB	THR	C	62	8880	9560	7400	-440	-260	2280	C0
ATOM	7351	OG1	THR	C	62	-49.884	21.780	3.129	1.00	66.81	O0	
ANISOU	7351	OG1	THR	C	62	8620	9470	7300	-440	-160	2080	O0
ATOM	7352	CG2	THR	C	62	-49.513	24.047	2.416	1.00	69.35	C0	
ANISOU	7352	CG2	THR	C	62	9200	9540	7610	-510	-230	2360	C0
ATOM	7353	H	THR	C	62	-51.466	23.704	4.235	1.00	66.46	H0	
ANISOU	7353	H	THR	C	62	8650	9070	7530	-130	-290	2230	H0
ATOM	7354	HA	THR	C	62	-52.162	23.519	1.625	1.00	69.47	H0	
ANISOU	7354	HA	THR	C	62	9080	9700	7620	-240	-460	2490	H0
ATOM	7355	HB	THR	C	62	-50.160	22.458	1.291	1.00	68.66	H0	
ANISOU	7355	HB	THR	C	62	8970	9770	7350	-530	-280	2320	H0
ATOM	7356	HG21	THR	C	62	-49.960	24.793	1.978	1.00	70.70	H0	
ANISOU	7356	HG21	THR	C	62	9460	9630	7770	-470	-310	2500	H0
ATOM	7357	HG22	THR	C	62	-48.624	23.933	2.034	1.00	69.29	H0	
ANISOU	7357	HG22	THR	C	62	9220	9600	7500	-650	-170	2340	H0
ATOM	7358	HG23	THR	C	62	-49.433	24.232	3.369	1.00	68.54	H0	
ANISOU	7358	HG23	THR	C	62	9090	9330	7620	-440	-190	2290	H0
ATOM	7359	N	LEU	C	63	-52.767	21.064	3.587	1.00	63.98	N0	
ANISOU	7359	N	LEU	C	63	8050	9190	7070	-120	-350	2090	N0
ATOM	7360	CA	LEU	C	63	-53.441	19.752	3.794	1.00	62.36	C0	
ANISOU	7360	CA	LEU	C	63	7700	9150	6850	-100	-360	1980	C0
ATOM	7361	C	LEU	C	63	-54.946	19.878	3.525	1.00	62.34	C0	
ANISOU	7361	C	LEU	C	63	7610	9200	6870	30	-480	2070	C0
ATOM	7362	O	LEU	C	63	-55.566	18.848	3.202	1.00	62.22	O0	
ANISOU	7362	O	LEU	C	63	7500	9360	6780	10	-520	2030	O0
ATOM	7363	CB	LEU	C	63	-53.201	19.274	5.231	1.00	60.91	C0	
ANISOU	7363	CB	LEU	C	63	7450	8900	6790	-60	-270	1810	C0
ATOM	7364	CG	LEU	C	63	-51.742	19.102	5.650	1.00	60.05	C0	
ANISOU	7364	CG	LEU	C	63	7390	8740	6680	-160	-150	1700	C0
ATOM	7365	CD1	LEU	C	63	-51.648	18.615	7.086	1.00	58.63	C0	
ANISOU	7365	CD1	LEU	C	63	7150	8510	6620	-110	-80	1550	C0
ATOM	7366	CD2	LEU	C	63	-51.014	18.144	4.723	1.00	60.29	C0	
ANISOU	7366	CD2	LEU	C	63	7430	8930	6550	-310	-120	1650	C0
ATOM	7367	H	LEU	C	63	-52.509	21.459	4.365	1.00	63.70	H0	
ANISOU	7367	H	LEU	C	63	8030	9040	7130	-80	-300	2050	H0
ATOM	7368	HA	LEU	C	63	-53.060	19.101	3.160	1.00	62.09	H0	
ANISOU	7368	HA	LEU	C	63	7660	9220	6710	-200	-340	1950	H0

ATOM 7369 HB2 LEU C 63	-53.623	19.913	5.839	1.00	61.18	H0	
ANISOU 7369 HB2 LEU C 63	7480	8840	6930	50	-280	1830	H0
ATOM 7370 HB3 LEU C 63	-53.656	18.416	5.346	1.00	60.30	H0	
ANISOU 7370 HB3 LEU C 63	7290	8930	6700	-50	-280	1750	H0
ATOM 7371 HG LEU C 63	-51.297	19.983	5.594	1.00	60.76	H0	
ANISOU 7371 HG LEU C 63	7570	8730	6790	-180	-130	1770	H0
ATOM 7372 HD11 LEU C 63	-52.130	19.227	7.669	1.00	58.84	H0	
ANISOU 7372 HD11 LEU C 63	7170	8450	6740	-20	-100	1580	H0
ATOM 7373 HD12 LEU C 63	-50.714	18.578	7.356	1.00	58.00	H0	
ANISOU 7373 HD12 LEU C 63	7100	8400	6540	-170	-10	1490	H0
ATOM 7374 HD13 LEU C 63	-52.041	17.727	7.154	1.00	57.99	H0	
ANISOU 7374 HD13 LEU C 63	7000	8520	6510	-110	-100	1490	H0
ATOM 7375 HD21 LEU C 63	-51.554	17.345	4.592	1.00	59.79	H0	
ANISOU 7375 HD21 LEU C 63	7300	8960	6450	-300	-160	1610	H0
ATOM 7376 HD22 LEU C 63	-50.161	17.897	5.120	1.00	59.32	H0	
ANISOU 7376 HD22 LEU C 63	7310	8790	6430	-360	-50	1560	H0
ATOM 7377 HD23 LEU C 63	-50.859	18.574	3.865	1.00	61.16	H0	
ANISOU 7377 HD23 LEU C 63	7600	9060	6580	-360	-150	1750	H0
ATOM 7378 N ALA C 64	-55.503	21.086	3.668	1.00	62.44	N0	
ANISOU 7378 N ALA C 64	7670	9080	6970	170	-550	2190	N0
ATOM 7379 CA ALA C 64	-56.957	21.366	3.666	1.00	62.84	C0	
ANISOU 7379 CA ALA C 64	7620	9180	7080	340	-660	2260	C0
ATOM 7380 C ALA C 64	-57.602	20.844	2.376	1.00	63.73	C0	
ANISOU 7380 C ALA C 64	7690	9490	7040	290	-770	2350	C0
ATOM 7381 O ALA C 64	-57.020	21.048	1.293	1.00	64.76	O0	
ANISOU 7381 O ALA C 64	7940	9630	7040	170	-790	2450	O0
ATOM 7382 CB ALA C 64	-57.199	22.847	3.840	1.00	64.15	C0	
ANISOU 7382 CB ALA C 64	7890	9150	7340	490	-720	2380	C0
ATOM 7383 H ALA C 64	-55.012	21.843	3.787	1.00	62.94	H0	
ANISOU 7383 H ALA C 64	7830	9020	7070	170	-520	2230	H0
ATOM 7384 HA ALA C 64	-57.360	20.891	4.428	1.00	62.05	H0	
ANISOU 7384 HA ALA C 64	7420	9120	7040	390	-630	2160	H0
ATOM 7385 HB1 ALA C 64	-58.155	23.023	3.836	1.00	65.18	H0	
ANISOU 7385 HB1 ALA C 64	7940	9310	7510	620	-800	2420	H0
ATOM 7386 HB2 ALA C 64	-56.820	23.141	4.686	1.00	63.61	H0	
ANISOU 7386 HB2 ALA C 64	7840	8960	7370	520	-650	2310	H0
ATOM 7387 HB3 ALA C 64	-56.778	23.333	3.112	1.00	65.14	H0	
ANISOU 7387 HB3 ALA C 64	8130	9220	7400	430	-750	2480	H0
ATOM 7388 N TRP C 65	-58.768	20.205	2.509	1.00	63.22	N0	
ANISOU 7388 N TRP C 65	7460	9580	6980	360	-830	2320	N0
ATOM 7389 CA TRP C 65	-59.598	19.670	1.398	1.00	64.02	C0	
ANISOU 7389 CA TRP C 65	7490	9890	6940	330	-950	2400	C0
ATOM 7390 C TRP C 65	-61.061	20.087	1.604	1.00	66.43	C0	
ANISOU 7390 C TRP C 65	7660	10260	7330	520	-1070	2460	C0
ATOM 7391 O TRP C 65	-61.399	20.548	2.716	1.00	65.91	O0	
ANISOU 7391 O TRP C 65	7530	10100	7410	670	-1030	2410	O0
ATOM 7392 CB TRP C 65	-59.444	18.144	1.303	1.00	61.86	C0	
ANISOU 7392 CB TRP C 65	7150	9780	6570	170	-910	2270	C0
ATOM 7393 CG TRP C 65	-60.109	17.371	2.403	1.00	60.08	C0	
ANISOU 7393 CG TRP C 65	6770	9620	6430	210	-870	2130	C0
ATOM 7394 CD1 TRP C 65	-61.362	16.836	2.372	1.00	60.34	C0	
ANISOU 7394 CD1 TRP C 65	6640	9840	6450	240	-960	2130	C0
ATOM 7395 CD2 TRP C 65	-59.560	17.020	3.688	1.00	57.75	C0	
ANISOU 7395 CD2 TRP C 65	6460	9230	6240	200	-750	1980	C0

ATOM 7396 NE1 TRP C 65	-61.637	16.188	3.544	1.00	59.09	N0	
ANISOU 7396 NE1 TRP C 65	6380	9700	6370	240	-890	2000	N0
ATOM 7397 CE2 TRP C 65	-60.550	16.280	4.373	1.00	57.42	C0	
ANISOU 7397 CE2 TRP C 65	6260	9320	6240	220	-770	1900	C0
ATOM 7398 CE3 TRP C 65	-58.339	17.254	4.332	1.00	56.28	C0	
ANISOU 7398 CE3 TRP C 65	6380	8880	6120	170	-630	1910	C0
ATOM 7399 CZ2 TRP C 65	-60.354	15.781	5.661	1.00	55.64	C0	
ANISOU 7399 CZ2 TRP C 65	5990	9050	6100	210	-670	1760	C0
ATOM 7400 CZ3 TRP C 65	-58.146	16.761	5.606	1.00	54.45	C0	
ANISOU 7400 CZ3 TRP C 65	6100	8600	5980	170	-540	1760	C0
ATOM 7401 CH2 TRP C 65	-59.142	16.037	6.261	1.00	54.17	C0	
ANISOU 7401 CH2 TRP C 65	5920	8690	5970	190	-570	1700	C0
ATOM 7402 H TRP C 65	-59.143	20.049	3.324	1.00	62.75	H0	
ANISOU 7402 H TRP C 65	7320	9520	7010	430	-810	2250	H0
ATOM 7403 HA TRP C 65	-59.272	20.062	0.554	1.00	65.01	H0	
ANISOU 7403 HA TRP C 65	7720	9990	6990	280	-990	2500	H0
ATOM 7404 HB2 TRP C 65	-59.811	17.853	0.444	1.00	62.67	H0	
ANISOU 7404 HB2 TRP C 65	7240	10010	6570	120	-980	2320	H0
ATOM 7405 HB3 TRP C 65	-58.487	17.935	1.303	1.00	60.94	H0	
ANISOU 7405 HB3 TRP C 65	7110	9610	6430	70	-830	2210	H0
ATOM 7406 HD1 TRP C 65	-61.963	16.903	1.648	1.00	61.61	H0	
ANISOU 7406 HD1 TRP C 65	6770	10100	6540	250	-1050	2220	H0
ATOM 7407 HE1 TRP C 65	-62.387	15.779	3.730	1.00	59.35	H0	
ANISOU 7407 HE1 TRP C 65	6300	9850	6400	250	-930	1980	H0
ATOM 7408 HE3 TRP C 65	-57.660	17.744	3.900	1.00	56.51	H0	
ANISOU 7408 HE3 TRP C 65	6520	8840	6120	140	-620	1960	H0
ATOM 7409 HZ2 TRP C 65	-61.028	15.292	6.102	1.00	55.67	H0	
ANISOU 7409 HZ2 TRP C 65	5890	9140	6120	210	-690	1720	H0
ATOM 7410 HZ3 TRP C 65	-57.324	16.918	6.045	1.00	53.76	H0	
ANISOU 7410 HZ3 TRP C 65	6080	8410	5930	150	-470	1710	H0
ATOM 7411 HH2 TRP C 65	-58.981	15.711	7.129	1.00	53.35	H0	
ANISOU 7411 HH2 TRP C 65	5800	8550	5920	190	-510	1600	H0
ATOM 7412 N ASN C 66	-61.886	19.942	0.563	1.00	68.78	N0	
ANISOU 7412 N ASN C 66	7900	10720	7510	520	-1200	2570	N0
ATOM 7413 CA ASN C 66	-63.352	20.193	0.597	1.00	71.25	C0	
ANISOU 7413 CA ASN C 66	8040	11160	7870	700	-1330	2630	C0
ATOM 7414 C ASN C 66	-64.041	18.924	1.114	1.00	70.34	C0	
ANISOU 7414 C ASN C 66	7730	11250	7740	630	-1300	2490	C0
ATOM 7415 O ASN C 66	-63.900	17.880	0.453	1.00	69.60	O0	
ANISOU 7415 O ASN C 66	7640	11300	7510	450	-1310	2460	O0
ATOM 7416 CB ASN C 66	-63.869	20.616	-0.781	1.00	74.16	C0	
ANISOU 7416 CB ASN C 66	8450	11610	8120	710	-1490	2820	C0
ATOM 7417 CG ASN C 66	-65.341	20.970	-0.795	1.00	77.21	C0	
ANISOU 7417 CG ASN C 66	8660	12130	8550	920	-1630	2880	C0
ATOM 7418 OD1 ASN C 66	-66.101	20.540	0.072	1.00	76.18	O0	
ANISOU 7418 OD1 ASN C 66	8330	12110	8500	990	-1610	2780	O0
ATOM 7419 ND2 ASN C 66	-65.746	21.750	-1.786	1.00	81.07	N0	
ANISOU 7419 ND2 ASN C 66	9200	12620	8970	1000	-1780	3070	N0
ATOM 7420 H ASN C 66	-61.587	19.671	-0.254	1.00	68.97	H0	
ANISOU 7420 H ASN C 66	7980	10800	7420	410	-1220	2610	H0
ATOM 7421 HA ASN C 66	-63.528	20.930	1.225	1.00	71.68	H0	
ANISOU 7421 HA ASN C 66	8090	11100	8040	840	-1320	2640	H0
ATOM 7422 HB2 ASN C 66	-63.354	21.391	-1.085	1.00	74.84	H0	
ANISOU 7422 HB2 ASN C 66	8680	11550	8200	730	-1500	2900	H0

ATOM	7423	HB3	ASN	C	66	-63.713	19.885	-1.413	1.00	73.91	H0	
ANISOU	7423	HB3	ASN	C	66	8420	11700	7960	570	-1490	2810	H0
ATOM	7424	N	SER	C	67	-64.744	19.016	2.251	1.00	70.36	N0	
ANISOU	7424	N	SER	C	67	7580	11270	7880	770	-1270	2410	N0
ATOM	7425	CA	SER	C	67	-65.406	17.876	2.942	1.00	70.18	C0	
ANISOU	7425	CA	SER	C	67	7370	11440	7850	700	-1240	2280	C0
ATOM	7426	C	SER	C	67	-66.931	18.047	2.924	1.00	72.67	C0	
ANISOU	7426	C	SER	C	67	7460	11960	8180	840	-1360	2320	C0
ATOM	7427	O	SER	C	67	-67.572	17.753	3.955	1.00	72.65	O0	
ANISOU	7427	O	SER	C	67	7290	12050	8250	890	-1310	2220	O0
ATOM	7428	CB	SER	C	67	-64.871	17.714	4.350	1.00	68.56	C0	
ANISOU	7428	CB	SER	C	67	7170	11110	7770	700	-1090	2130	C0
ATOM	7429	OG	SER	C	67	-65.103	18.877	5.130	1.00	69.35	O0	
ANISOU	7429	OG	SER	C	67	7250	11080	8020	920	-1080	2140	O0
ATOM	7430	H	SER	C	67	-64.871	19.803	2.691	1.00	71.05	H0	
ANISOU	7430	H	SER	C	67	7680	11260	8060	910	-1270	2430	H0
ATOM	7431	HA	SER	C	67	-65.190	17.050	2.436	1.00	69.62	H0	
ANISOU	7431	HA	SER	C	67	7330	11450	7670	540	-1240	2260	H0
ATOM	7432	HB2	SER	C	67	-65.305	16.941	4.777	1.00	68.07	H0	
ANISOU	7432	HB2	SER	C	67	7000	11170	7690	630	-1070	2050	H0
ATOM	7433	HB3	SER	C	67	-63.904	17.536	4.310	1.00	67.30	H0	
ANISOU	7433	HB3	SER	C	67	7140	10840	7590	600	-1020	2100	H0
ATOM	7434	N	SER	C	68	-67.485	18.483	1.786	1.00	75.66	N0	
ANISOU	7434	N	SER	C	68	7830	12430	8480	900	-1500	2470	N0
ATOM	7435	CA	SER	C	68	-68.947	18.604	1.530	1.00	78.79	C0	
ANISOU	7435	CA	SER	C	68	8010	13060	8870	1030	-1640	2530	C0
ATOM	7436	C	SER	C	68	-69.548	17.213	1.309	1.00	78.73	C0	
ANISOU	7436	C	SER	C	68	7850	13330	8730	820	-1670	2460	C0
ATOM	7437	O	SER	C	68	-70.642	16.951	1.850	1.00	79.34	O0	
ANISOU	7437	O	SER	C	68	7690	13620	8840	880	-1690	2410	O0
ATOM	7438	CB	SER	C	68	-69.238	19.501	0.351	1.00	81.41	C0	
ANISOU	7438	CB	SER	C	68	8400	13390	9140	1150	-1800	2720	C0
ATOM	7439	OG	SER	C	68	-69.017	20.863	0.684	1.00	82.98	O0	
ANISOU	7439	OG	SER	C	68	8710	13350	9470	1380	-1810	2790	O0
ATOM	7440	H	SER	C	68	-66.990	18.736	1.065	1.00	75.83	H0	
ANISOU	7440	H	SER	C	68	7990	12380	8440	860	-1530	2550	H0
ATOM	7441	HA	SER	C	68	-69.368	19.000	2.339	1.00	79.07	H0	
ANISOU	7441	HA	SER	C	68	7940	13090	9010	1170	-1620	2490	H0
ATOM	7442	HB2	SER	C	68	-68.659	19.250	-0.403	1.00	81.08	H0	
ANISOU	7442	HB2	SER	C	68	8490	13320	9000	1010	-1810	2770	H0
ATOM	7443	HB3	SER	C	68	-70.174	19.381	0.072	1.00	82.90	H0	
ANISOU	7443	HB3	SER	C	68	8430	13770	9300	1200	-1900	2750	H0
ATOM	7444	N	HIS	C	69	-68.860	16.374	0.525	1.00	77.87	N0	
ANISOU	7444	N	HIS	C	69	7870	13230	8480	590	-1660	2460	N0
ATOM	7445	CA	HIS	C	69	-69.275	14.993	0.155	1.00	77.63	C0	
ANISOU	7445	CA	HIS	C	69	7760	13430	8310	370	-1690	2400	C0
ATOM	7446	C	HIS	C	69	-68.137	14.028	0.512	1.00	74.43	C0	
ANISOU	7446	C	HIS	C	69	7510	12900	7880	160	-1550	2260	C0
ATOM	7447	O	HIS	C	69	-67.840	13.120	-0.293	1.00	74.17	O0	
ANISOU	7447	O	HIS	C	69	7550	12930	7690	-30	-1580	2240	O0
ATOM	7448	CB	HIS	C	69	-69.682	14.950	-1.327	1.00	79.91	C0	
ANISOU	7448	CB	HIS	C	69	8060	13870	8440	310	-1840	2530	C0
ATOM	7449	CG	HIS	C	69	-70.641	16.027	-1.712	1.00	82.56	C0	
ANISOU	7449	CG	HIS	C	69	8270	14290	8810	540	-1980	2670	C0

ATOM 7450 ND1 HIS C 69	-72.001	15.927	-1.481	1.00	84.69	N0	
ANISOU 7450 ND1 HIS C 69	8280	14810	9090	620	-2070	2670	N0
ATOM 7451 CD2 HIS C 69	-70.445	17.229	-2.295	1.00	84.20	C0	
ANISOU 7451 CD2 HIS C 69	8590	14360	9040	710	-2060	2820	C0
ATOM 7452 CE1 HIS C 69	-72.602	17.017	-1.916	1.00	86.65	C0	
ANISOU 7452 CE1 HIS C 69	8470	15080	9380	850	-2200	2810	C0
ATOM 7453 NE2 HIS C 69	-71.669	17.833	-2.420	1.00	86.54	N0	
ANISOU 7453 NE2 HIS C 69	8700	14810	9370	910	-2200	2910	N0
ATOM 7454 H HIS C 69	-68.065	16.604	0.143	1.00	77.29	H0	
ANISOU 7454 H HIS C 69	7960	13020	8390	560	-1630	2490	H0
ATOM 7455 HA HIS C 69	-70.060	14.754	0.701	1.00	78.04	H0	
ANISOU 7455 HA HIS C 69	7640	13620	8400	390	-1700	2350	H0
ATOM 7456 HB2 HIS C 69	-68.875	15.031	-1.882	1.00	79.30	H0	
ANISOU 7456 HB2 HIS C 69	8150	13680	8310	250	-1820	2560	H0
ATOM 7457 HB3 HIS C 69	-70.091	14.077	-1.519	1.00	79.91	H0	
ANISOU 7457 HB3 HIS C 69	7980	14030	8350	170	-1870	2480	H0
ATOM 7458 HD2 HIS C 69	-69.623	17.587	-2.572	1.00	83.54	H0	
ANISOU 7458 HD2 HIS C 69	8680	14110	8950	690	-2020	2860	H0
ATOM 7459 HE1 HIS C 69	-73.527	17.190	-1.876	1.00	88.29	H0	
ANISOU 7459 HE1 HIS C 69	8500	15450	9600	960	-2280	2830	H0
ATOM 7460 N SER C 70	-67.539	14.224	1.691	1.00	71.77	N0	
ANISOU 7460 N SER C 70	7210	12380	7670	220	-1420	2170	N0
ATOM 7461 CA SER C 70	-66.303	13.540	2.148	1.00	68.52	C0	
ANISOU 7461 CA SER C 70	6960	11810	7260	70	-1280	2050	C0
ATOM 7462 C SER C 70	-66.199	13.633	3.668	1.00	65.54	C0	
ANISOU 7462 C SER C 70	6530	11340	7040	140	-1170	1940	C0
ATOM 7463 O SER C 70	-66.817	14.506	4.276	1.00	65.56	O0	
ANISOU 7463 O SER C 70	6420	11340	7150	330	-1170	1970	O0
ATOM 7464 CB SER C 70	-65.096	14.139	1.468	1.00	68.90	C0	
ANISOU 7464 CB SER C 70	7220	11670	7290	80	-1250	2110	C0
ATOM 7465 OG SER C 70	-64.047	13.189	1.358	1.00	68.72	O0	
ANISOU 7465 OG SER C 70	7330	11590	7190	-100	-1170	2000	O0
ATOM 7466 H SER C 70	-67.860	14.804	2.315	1.00	72.12	H0	
ANISOU 7466 H SER C 70	7180	12400	7820	350	-1400	2170	H0
ATOM 7467 HA SER C 70	-66.371	12.582	1.892	1.00	68.22	H0	
ANISOU 7467 HA SER C 70	6920	11870	7130	-80	-1300	2000	H0
ATOM 7468 HB2 SER C 70	-65.347	14.453	0.570	1.00	70.25	H0	
ANISOU 7468 HB2 SER C 70	7400	11900	7390	90	-1340	2210	H0
ATOM 7469 HB3 SER C 70	-64.781	14.913	1.985	1.00	68.78	H0	
ANISOU 7469 HB3 SER C 70	7240	11520	7380	190	-1200	2120	H0
ATOM 7470 N PROC 71	-65.435	12.731	4.331	1.00	62.33	N0	
ANISOU 7470 N PROC 71	6210	10850	6630	0	-1060	1810	N0
ATOM 7471 CA PROC 71	-65.188	12.837	5.770	1.00	60.16	C0	
ANISOU 7471 CA PROC 71	5910	10460	6480	60	-950	1710	C0
ATOM 7472 C PROC 71	-64.523	14.164	6.167	1.00	58.85	C0	
ANISOU 7472 C PROC 71	5830	10080	6450	240	-890	1740	C0
ATOM 7473 O PROC 71	-63.669	14.646	5.435	1.00	58.31	O0	
ANISOU 7473 O PROC 71	5910	9890	6350	240	-890	1800	O0
ATOM 7474 CB PROC 71	-64.259	11.650	6.068	1.00	58.66	C0	
ANISOU 7474 CB PROC 71	5850	10200	6240	-130	-880	1580	C0
ATOM 7475 CG PROC 71	-64.561	10.663	4.963	1.00	59.24	C0	
ANISOU 7475 CG PROC 71	5940	10420	6150	-300	-970	1600	C0
ATOM 7476 CD PROC 71	-64.813	11.530	3.750	1.00	61.19	C0	
ANISOU 7476 CD PROC 71	6180	10720	6350	-210	-1060	1740	C0

ATOM 7477 HA PRO C 71	-66.040	12.722	6.260	1.00	60.81	H0
ANISOU 7477 HA PRO C 71	5850	10670	6590	80	-970 1690	H0
ATOM 7478 HB2 PRO C 71	-63.317	11.924	6.044	1.00	57.72	H0
ANISOU 7478 HB2 PRO C 71	5850	9930	6150	-120	-820 1570	H0
ATOM 7479 HB3 PRO C 71	-64.455	11.262	6.948	1.00	58.07	H0
ANISOU 7479 HB3 PRO C 71	5720	10140	6210	-160	-830 1510	H0
ATOM 7480 HG2 PRO C 71	-63.802	10.063	4.812	1.00	58.44	H0
ANISOU 7480 HG2 PRO C 71	5960	10250	6000	-390	-940 1540	H0
ATOM 7481 HG3 PRO C 71	-65.352	10.127	5.179	1.00	59.89	H0
ANISOU 7481 HG3 PRO C 71	5910	10640	6210	-360	-1010 1580	H0
ATOM 7482 HD2 PRO C 71	-63.979	11.749	3.296	1.00	60.70	H0
ANISOU 7482 HD2 PRO C 71	6250	10550	6270	-210	-1040 1760	H0
ATOM 7483 HD3 PRO C 71	-65.414	11.088	3.122	1.00	62.07	H0
ANISOU 7483 HD3 PRO C 71	6240	10970	6370	-280	-1140 1770	H0
ATOM 7484 N ASP C 72	-64.935	14.713	7.312	1.00	57.90	N0
ANISOU 7484 N ASP C 72	5610	9940	6450	370	-840 1700	N0
ATOM 7485 CA ASP C 72	-64.464	16.017	7.853	1.00	57.53	C0
ANISOU 7485 CA ASP C 72	5630	9690	6540	560	-780 1720	C0
ATOM 7486 C ASP C 72	-63.040	15.874	8.403	1.00	53.68	C0
ANISOU 7486 C ASP C 72	5320	8990	6090	480	-660 1630	C0
ATOM 7487 O ASP C 72	-62.291	16.862	8.349	1.00	53.17	O0
ANISOU 7487 O ASP C 72	5380	8740	6090	560	-630 1680	O0
ATOM 7488 CB ASP C 72	-65.423	16.534	8.931	1.00	59.19	C0
ANISOU 7488 CB ASP C 72	5670	9960	6860	730	-760 1670	C0
ATOM 7489 CG ASP C 72	-66.800	16.888	8.394	1.00	62.33	C0
ANISOU 7489 CG ASP C 72	5880	10560	7240	850	-890 1760	C0
ATOM 7490 OD1 ASP C 72	-66.881	17.304	7.220	1.00	64.72	O0
ANISOU 7490 OD1 ASP C 72	6230	10870	7490	890	-990 1890	O0
ATOM 7491 OD2 ASP C 72	-67.778	16.744	9.148	1.00	63.58	O0
ANISOU 7491 OD2 ASP C 72	5830	10890	7430	910	-880 1700	O0
ATOM 7492 H ASP C 72	-65.546	14.303	7.849	1.00	58.20	H0
ANISOU 7492 H ASP C 72	5530	10080	6500	350	-830 1650	H0
ATOM 7493 HA ASP C 72	-64.448	16.669	7.113	1.00	58.31	H0
ANISOU 7493 HA ASP C 72	5780	9750	6630	630	-840 1820	H0
ATOM 7494 HB2 ASP C 72	-65.525	15.851	9.626	1.00	58.46	H0
ANISOU 7494 HB2 ASP C 72	5520	9930	6770	640	-710 1590	H0
ATOM 7495 HB3 ASP C 72	-65.038	17.334	9.342	1.00	59.18	H0
ANISOU 7495 HB3 ASP C 72	5730	9810	6950	840	-720 1670	H0
ATOM 7496 N GLN C 73	-62.697	14.690	8.918	1.00	51.05	N0
ANISOU 7496 N GLN C 73	4990	8690	5710	310	-600 1520	N0
ATOM 7497 CA GLN C 73	-61.448	14.424	9.678	1.00	48.70	C0
ANISOU 7497 CA GLN C 73	4820	8220	5460	250	-490 1420	C0
ATOM 7498 C GLN C 73	-60.894	13.048	9.295	1.00	46.65	C0
ANISOU 7498 C GLN C 73	4640	8010	5080	50	-490 1350	C0
ATOM 7499 O GLN C 73	-61.698	12.156	8.968	1.00	46.57	O0
ANISOU 7499 O GLN C 73	4550	8160	4980	-50	-560 1350	O0
ATOM 7500 CB GLN C 73	-61.720	14.476	11.188	1.00	48.27	C0
ANISOU 7500 CB GLN C 73	4690	8150	5500	300	-410 1320	C0
ATOM 7501 CG GLN C 73	-62.258	15.817	11.674	1.00	49.47	C0
ANISOU 7501 CG GLN C 73	4770	8250	5780	520	-410 1360	C0
ATOM 7502 CD GLN C 73	-62.379	15.917	13.178	1.00	48.90	C0
ANISOU 7502 CD GLN C 73	4640	8150	5800	570	-320 1250	C0
ATOM 7503 OE1 GLN C 73	-61.645	15.282	13.932	1.00	47.57	O0
ANISOU 7503 OE1 GLN C 73	4540	7910	5630	460	-240 1150	O0

ATOM 7504 NE2 GLN C 73	-63.304	16.748	13.633	1.00	50.10	N0	
ANISOU 7504 NE2 GLN C 73	4660	8350	6020	750	-330	1260	N0
ATOM 7505 H GLN C 73	-63.228	13.954	8.837	1.00	51.37	H0	
ANISOU 7505 H GLN C 73	4960	8860	5700	240	-640	1500	H0
ATOM 7506 HA GLN C 73	-60.786	15.112	9.445	1.00	48.53	H0	
ANISOU 7506 HA GLN C 73	4900	8080	5470	290	-470	1450	H0
ATOM 7507 HB2 GLN C 73	-62.365	13.774	11.411	1.00	48.41	H0	
ANISOU 7507 HB2 GLN C 73	4610	8300	5480	240	-430	1290	H0
ATOM 7508 HB3 GLN C 73	-60.884	14.277	11.659	1.00	47.10	H0	
ANISOU 7508 HB3 GLN C 73	4630	7890	5380	250	-350	1260	H0
ATOM 7509 HG2 GLN C 73	-61.665	16.531	11.357	1.00	49.48	H0	
ANISOU 7509 HG2 GLN C 73	4880	8120	5810	570	-400	1400	H0
ATOM 7510 HG3 GLN C 73	-63.142	15.967	11.277	1.00	50.69	H0	
ANISOU 7510 HG3 GLN C 73	4820	8520	5910	570	-480	1410	H0
ATOM 7511 HE21 GLN C 73	-63.590	16.678	14.466	1.00	50.13	H0	
ANISOU 7511 HE21 GLN C 73	4590	8390	6060	770	-280	1190	H0
ATOM 7512 HE22 GLN C 73	-63.635	17.375	13.104	1.00	51.25	H0	
ANISOU 7512 HE22 GLN C 73	4790	8490	6180	850	-380	1330	H0
ATOM 7513 N VAL C 74	-59.571	12.888	9.354	1.00	45.12	N0	
ANISOU 7513 N VAL C 74	4590	7670	4890	-10	-420	1300	N0
ATOM 7514 CA VAL C 74	-58.873	11.571	9.251	1.00	44.46	C0	
ANISOU 7514 CA VAL C 74	4590	7590	4710	-170	-410	1200	C0
ATOM 7515 C VAL C 74	-57.755	11.506	10.295	1.00	43.07	C0	
ANISOU 7515 C VAL C 74	4500	7250	4610	-170	-300	1090	C0
ATOM 7516 O VAL C 74	-57.173	12.551	10.618	1.00	43.11	O0	
ANISOU 7516 O VAL C 74	4540	7140	4700	-70	-250	1110	O0
ATOM 7517 CB VAL C 74	-58.313	11.321	7.837	1.00	44.58	C0	
ANISOU 7517 CB VAL C 74	4700	7630	4610	-240	-450	1240	C0
ATOM 7518 CG1 VAL C 74	-59.422	11.186	6.811	1.00	45.98	C0	
ANISOU 7518 CG1 VAL C 74	4800	7980	4690	-260	-560	1330	C0
ATOM 7519 CG2 VAL C 74	-57.326	12.396	7.420	1.00	44.92	C0	
ANISOU 7519 CG2 VAL C 74	4840	7550	4680	-180	-400	1290	C0
ATOM 7520 H VAL C 74	-58.999	13.590	9.462	1.00	45.11	H0	
ANISOU 7520 H VAL C 74	4650	7550	4940	50	-380	1310	H0
ATOM 7521 HA VAL C 74	-59.517	10.872	9.452	1.00	44.56	H0	
ANISOU 7521 HA VAL C 74	4550	7690	4690	-220	-440	1170	H0
ATOM 7522 HB VAL C 74	-57.824	10.461	7.863	1.00	44.00	H0	
ANISOU 7522 HB VAL C 74	4690	7550	4480	-320	-440	1160	H0
ATOM 7523 HG11 VAL C 74	-60.034	10.481	7.084	1.00	46.07	H0	
ANISOU 7523 HG11 VAL C 74	4750	8070	4680	-320	-590	1290	H0
ATOM 7524 HG12 VAL C 74	-59.038	10.963	5.945	1.00	46.20	H0	
ANISOU 7524 HG12 VAL C 74	4890	8030	4630	-320	-580	1350	H0
ATOM 7525 HG13 VAL C 74	-59.906	12.027	6.743	1.00	46.79	H0	
ANISOU 7525 HG13 VAL C 74	4850	8090	4840	-170	-580	1410	H0
ATOM 7526 HG21 VAL C 74	-57.790	13.248	7.336	1.00	45.61	H0	
ANISOU 7526 HG21 VAL C 74	4890	7630	4810	-90	-430	1380	H0
ATOM 7527 HG22 VAL C 74	-56.931	12.158	6.563	1.00	45.03	H0	
ANISOU 7527 HG22 VAL C 74	4910	7600	4600	-240	-420	1310	H0
ATOM 7528 HG23 VAL C 74	-56.625	12.475	8.087	1.00	43.96	H0	
ANISOU 7528 HG23 VAL C 74	4760	7330	4610	-170	-330	1230	H0
ATOM 7529 N SER C 75	-57.464	10.307	10.791	1.00	42.86	N0	
ANISOU 7529 N SER C 75	4510	7230	4550	-270	-290	990	N0
ATOM 7530 CA SER C 75	-56.245	9.997	11.580	1.00	42.02	C0	
ANISOU 7530 CA SER C 75	4500	6980	4480	-290	-220	880	C0

ATOM 7531 C SER C 75	-55.109	9.663	10.608	1.00	41.89	C0	
ANISOU 7531 C SER C 75	4600	6940	4380	-340	-210	850	C0
ATOM 7532 O SER C 75	-55.320	8.805	9.734	1.00	41.70	O0	
ANISOU 7532 O SER C 75	4600	7000	4240	-420	-280	840	O0
ATOM 7533 CB SER C 75	-56.487	8.879	12.553	1.00	41.23	C0	
ANISOU 7533 CB SER C 75	4400	6890	4370	-370	-220	790	C0
ATOM 7534 OG SER C 75	-57.661	9.127	13.306	1.00	42.65	O0	
ANISOU 7534 OG SER C 75	4460	7150	4600	-350	-220	820	O0
ATOM 7535 H SER C 75	-57.998	9.577	10.677	1.00	43.07	H0	
ANISOU 7535 H SER C 75	4510	7340	4520	-340	-340	970	H0
ATOM 7536 HA SER C 75	-55.993	10.811	12.092	1.00	41.72	H0	
ANISOU 7536 HA SER C 75	4460	6870	4520	-210	-170	890	H0
ATOM 7537 HB2 SER C 75	-56.582	8.031	12.062	1.00	41.65	H0	
ANISOU 7537 HB2 SER C 75	4490	6990	4340	-450	-270	770	H0
ATOM 7538 HB3 SER C 75	-55.716	8.799	13.160	1.00	40.70	H0	
ANISOU 7538 HB3 SER C 75	4390	6730	4340	-370	-170	720	H0
ATOM 7539 N VAL C 76	-53.958	10.317	10.779	1.00	42.03	N0	
ANISOU 7539 N VAL C 76	4680	6840	4440	-290	-140	830	N0
ATOM 7540 CA VAL C 76	-52.783	10.254	9.863	1.00	42.26	C0	
ANISOU 7540 CA VAL C 76	4800	6860	4400	-330	-120	810	C0
ATOM 7541 C VAL C 76	-51.541	9.972	10.700	1.00	41.16	C0	
ANISOU 7541 C VAL C 76	4710	6620	4300	-330	-50	690	C0
ATOM 7542 O VAL C 76	-51.352	10.606	11.731	1.00	40.24	O0	
ANISOU 7542 O VAL C 76	4580	6420	4290	-280	10	680	O0
ATOM 7543 CB VAL C 76	-52.646	11.577	9.089	1.00	43.11	C0	
ANISOU 7543 CB VAL C 76	4910	6960	4510	-290	-100	930	C0
ATOM 7544 CG1 VAL C 76	-51.381	11.629	8.247	1.00	43.34	C0	
ANISOU 7544 CG1 VAL C 76	5010	7000	4460	-340	-60	900	C0
ATOM 7545 CG2 VAL C 76	-53.873	11.850	8.237	1.00	44.61	C0	
ANISOU 7545 CG2 VAL C 76	5040	7250	4650	-270	-190	1050	C0
ATOM 7546 H VAL C 76	-53.816	10.863	11.495	1.00	41.61	H0	
ANISOU 7546 H VAL C 76	4610	6720	4470	-240	-100	820	H0
ATOM 7547 HA VAL C 76	-52.917	9.528	9.231	1.00	42.48	H0	
ANISOU 7547 HA VAL C 76	4840	6960	4340	-380	-160	790	H0
ATOM 7548 HB VAL C 76	-52.584	12.301	9.760	1.00	43.00	H0	
ANISOU 7548 HB VAL C 76	4880	6870	4590	-230	-70	940	H0
ATOM 7549 HG11 VAL C 76	-50.621	11.844	8.814	1.00	42.74	H0	
ANISOU 7549 HG11 VAL C 76	4960	6850	4430	-320	-10	850	H0
ATOM 7550 HG12 VAL C 76	-51.473	12.312	7.561	1.00	44.07	H0	
ANISOU 7550 HG12 VAL C 76	5110	7110	4520	-330	-80	1000	H0
ATOM 7551 HG13 VAL C 76	-51.236	10.765	7.824	1.00	43.27	H0	
ANISOU 7551 HG13 VAL C 76	5020	7050	4370	-380	-90	850	H0
ATOM 7552 HG21 VAL C 76	-54.016	11.107	7.625	1.00	44.74	H0	
ANISOU 7552 HG21 VAL C 76	5060	7350	4580	-330	-230	1030	H0
ATOM 7553 HG22 VAL C 76	-53.742	12.668	7.728	1.00	45.13	H0	
ANISOU 7553 HG22 VAL C 76	5120	7310	4720	-250	-190	1130	H0
ATOM 7554 HG23 VAL C 76	-54.651	11.948	8.813	1.00	44.58	H0	
ANISOU 7554 HG23 VAL C 76	4970	7260	4710	-230	-210	1070	H0
ATOM 7555 N PRO C 77	-50.644	9.047	10.284	1.00	41.58	N0	
ANISOU 7555 N PRO C 77	4830	6700	4270	-370	-40	590	N0
ATOM 7556 CA PRO C 77	-49.355	8.880	10.958	1.00	40.60	C0	
ANISOU 7556 CA PRO C 77	4750	6490	4180	-360	20	480	C0
ATOM 7557 C PRO C 77	-48.527	10.168	10.847	1.00	40.84	C0	
ANISOU 7557 C PRO C 77	4770	6490	4260	-330	100	520	C0

ATOM 7558 O PROC 77	-48.560	10.795	9.806	1.00	41.65	O0	
ANISOU 7558 O PROC 77	4880	6650	4300	-350	90	610	O0
ATOM 7559 CB PROC 77	-48.694	7.703	10.223	1.00	41.13	C0	
ANISOU 7559 CB PROC 77	4880	6620	4130	-390	-10	370	C0
ATOM 7560 CG PROC 77	-49.386	7.665	8.871	1.00	41.89	C0	
ANISOU 7560 CG PROC 77	4970	6820	4120	-440	-60	450	C0
ATOM 7561 CD PROC 77	-50.804	8.128	9.144	1.00	42.32	C0	
ANISOU 7561 CD PROC 77	4960	6890	4230	-440	-110	570	C0
ATOM 7562 HA PROC 77	-49.503	8.644	11.908	1.00	40.19	H0	
ANISOU 7562 HA PROC 77	4690	6390	4190	-340	20	440	H0
ATOM 7563 HB2 PROC 77	-47.730	7.852	10.117	1.00	40.94	H0	
ANISOU 7563 HB2 PROC 77	4870	6590	4100	-380	40	320	H0
ATOM 7564 HB3 PROC 77	-48.834	6.863	10.709	1.00	40.73	H0	
ANISOU 7564 HB3 PROC 77	4860	6540	4080	-400	-40	300	H0
ATOM 7565 HG2 PROC 77	-48.942	8.263	8.236	1.00	42.41	H0	
ANISOU 7565 HG2 PROC 77	5030	6930	4160	-440	-30	490	H0
ATOM 7566 HG3 PROC 77	-49.383	6.757	8.505	1.00	42.21	H0	
ANISOU 7566 HG3 PROC 77	5050	6900	4090	-470	-100	380	H0
ATOM 7567 HD2 PROC 77	-51.176	8.587	8.369	1.00	42.93	H0	
ANISOU 7567 HD2 PROC 77	5020	7030	4270	-440	-130	650	H0
ATOM 7568 HD3 PROC 77	-51.381	7.378	9.377	1.00	42.24	H0	
ANISOU 7568 HD3 PROC 77	4950	6890	4210	-470	-160	540	H0
ATOM 7569 N ILE C 78	-47.826	10.543	11.918	1.00	41.19	N0	
ANISOU 7569 N ILE C 78	4820	6440	4390	-300	160	470	N0
ATOM 7570 CA ILE C 78	-47.112	11.854	12.015	1.00	42.24	C0	
ANISOU 7570 CA ILE C 78	4950	6520	4580	-290	230	520	C0
ATOM 7571 C ILE C 78	-45.914	11.888	11.057	1.00	42.97	C0	
ANISOU 7571 C ILE C 78	5070	6690	4570	-340	260	490	C0
ATOM 7572 O ILE C 78	-45.468	13.006	10.763	1.00	43.26	O0	
ANISOU 7572 O ILE C 78	5110	6700	4620	-370	310	560	O0
ATOM 7573 CB ILE C 78	-46.682	12.176	13.459	1.00	41.99	C0	
ANISOU 7573 CB ILE C 78	4920	6380	4660	-260	270	460	C0
ATOM 7574 CG1 ILE C 78	-45.648	11.175	13.986	1.00	41.29	C0	
ANISOU 7574 CG1 ILE C 78	4840	6300	4550	-260	290	310	C0
ATOM 7575 CG2 ILE C 78	-47.902	12.291	14.362	1.00	41.89	C0	
ANISOU 7575 CG2 ILE C 78	4870	6320	4730	-210	250	490	C0
ATOM 7576 CD1 ILE C 78	-45.149	11.484	15.370	1.00	41.30	C0	
ANISOU 7576 CD1 ILE C 78	4840	6200	4650	-240	330	250	C0
ATOM 7577 H ILE C 78	-47.746	10.022	12.659	1.00	40.60	H0	
ANISOU 7577 H ILE C 78	4750	6330	4350	-290	150	400	H0
ATOM 7578 HA ILE C 78	-47.735	12.548	11.733	1.00	42.72	H0	
ANISOU 7578 HA ILE C 78	5000	6570	4660	-280	210	620	H0
ATOM 7579 HB ILE C 78	-46.244	13.062	13.441	1.00	42.17	H0	
ANISOU 7579 HB ILE C 78	4950	6370	4710	-260	320	490	H0
ATOM 7580 HG12 ILE C 78	-46.049	10.280	13.990	1.00	41.28	H0	
ANISOU 7580 HG12 ILE C 78	4850	6320	4520	-260	240	280	H0
ATOM 7581 HG13 ILE C 78	-44.882	11.159	13.374	1.00	41.77	H0	
ANISOU 7581 HG13 ILE C 78	4910	6410	4550	-290	310	290	H0
ATOM 7582 HG21 ILE C 78	-48.604	12.783	13.901	1.00	42.41	H0	
ANISOU 7582 HG21 ILE C 78	4920	6400	4790	-190	230	580	H0
ATOM 7583 HG22 ILE C 78	-47.661	12.764	15.176	1.00	41.56	H0	
ANISOU 7583 HG22 ILE C 78	4830	6200	4750	-190	290	470	H0
ATOM 7584 HG23 ILE C 78	-48.227	11.402	14.588	1.00	41.53	H0	
ANISOU 7584 HG23 ILE C 78	4820	6300	4660	-220	210	450	H0

ATOM 7585 HD11 ILE C 78	-44.881	12.418	15.419	1.00	41.32	H0	
ANISOU 7585 HD11 ILE C 78	4840	6170	4690	-240	370	290	H0
ATOM 7586 HD12 ILE C 78	-44.384	10.918	15.574	1.00	40.84	H0	
ANISOU 7586 HD12 ILE C 78	4790	6160	4570	-240	330	170	H0
ATOM 7587 HD13 ILE C 78	-45.856	11.316	16.017	1.00	40.79	H0	
ANISOU 7587 HD13 ILE C 78	4770	6100	4620	-220	310	260	H0
ATOM 7588 N SER C 79	-45.412	10.731	10.600	1.00	43.60	N0	
ANISOU 7588 N SER C 79	5160	6850	4560	-360	250	380	N0
ATOM 7589 CA SER C 79	-44.286	10.613	9.627	1.00	45.01	C0	
ANISOU 7589 CA SER C 79	5340	7140	4630	-400	290	330	C0
ATOM 7590 C SER C 79	-44.677	11.204	8.264	1.00	45.47	C0	
ANISOU 7590 C SER C 79	5400	7280	4590	-460	280	460	C0
ATOM 7591 O SER C 79	-43.770	11.630	7.529	1.00	46.97	O0	
ANISOU 7591 O SER C 79	5590	7550	4700	-520	330	460	O0
ATOM 7592 CB SER C 79	-43.803	9.180	9.490	1.00	45.74	C0	
ANISOU 7592 CB SER C 79	5440	7290	4650	-380	260	180	C0
ATOM 7593 OG SER C 79	-44.833	8.248	9.811	1.00	46.71	O0	
ANISOU 7593 OG SER C 79	5600	7370	4780	-360	180	160	O0
ATOM 7594 H SER C 79	-45.718	9.916	10.869	1.00	43.27	H0	
ANISOU 7594 H SER C 79	5120	6800	4520	-340	210	330	H0
ATOM 7595 HA SER C 79	-43.531	11.155	9.982	1.00	44.84	H0	
ANISOU 7595 HA SER C 79	5300	7090	4640	-410	340	310	H0
ATOM 7596 HB2 SER C 79	-43.499	9.025	8.567	1.00	46.54	H0	
ANISOU 7596 HB2 SER C 79	5550	7480	4650	-410	270	160	H0
ATOM 7597 HB3 SER C 79	-43.037	9.037	10.090	1.00	45.52	H0	
ANISOU 7597 HB3 SER C 79	5400	7240	4650	-350	290	90	H0
ATOM 7598 N SER C 80	-45.974	11.241	7.943	1.00	45.27	N0	
ANISOU 7598 N SER C 80	5380	7250	4570	-450	210	560	N0
ATOM 7599 CA SER C 80	-46.528	11.836	6.697	1.00	45.78	C0	
ANISOU 7599 CA SER C 80	5460	7390	4540	-500	170	700	C0
ATOM 7600 C SER C 80	-46.743	13.347	6.860	1.00	45.68	C0	
ANISOU 7600 C SER C 80	5460	7280	4610	-490	190	850	C0
ATOM 7601 O SER C 80	-47.092	13.990	5.861	1.00	46.65	O0	
ANISOU 7601 O SER C 80	5610	7450	4660	-530	160	980	O0
ATOM 7602 CB SER C 80	-47.815	11.154	6.307	1.00	46.80	C0	
ANISOU 7602 CB SER C 80	5580	7560	4640	-490	80	730	C0
ATOM 7603 OG SER C 80	-47.682	9.738	6.365	1.00	47.65	O0	
ANISOU 7603 OG SER C 80	5700	7710	4690	-490	50	590	O0
ATOM 7604 H SER C 80	-46.626	10.886	8.470	1.00	44.76	H0	
ANISOU 7604 H SER C 80	5310	7140	4550	-420	170	550	H0
ATOM 7605 HA SER C 80	-45.866	11.695	5.968	1.00	46.49	H0	
ANISOU 7605 HA SER C 80	5560	7560	4540	-550	200	670	H0
ATOM 7606 HB2 SER C 80	-48.534	11.441	6.915	1.00	46.61	H0	
ANISOU 7606 HB2 SER C 80	5540	7470	4700	-450	50	780	H0
ATOM 7607 HB3 SER C 80	-48.063	11.423	5.393	1.00	47.75	H0	
ANISOU 7607 HB3 SER C 80	5710	7750	4680	-520	50	810	H0
ATOM 7608 N LEU C 81	-46.568	13.898	8.070	1.00	44.46	N0	
ANISOU 7608 N LEU C 81	5300	7000	4590	-450	230	830	N0
ATOM 7609 CA LEU C 81	-46.902	15.313	8.395	1.00	44.09	C0	
ANISOU 7609 CA LEU C 81	5280	6830	4640	-420	230	950	C0
ATOM 7610 C LEU C 81	-45.647	16.064	8.843	1.00	43.44	C0	
ANISOU 7610 C LEU C 81	5230	6680	4590	-470	320	920	C0
ATOM 7611 O LEU C 81	-44.734	15.413	9.399	1.00	42.15	O0	
ANISOU 7611 O LEU C 81	5040	6550	4430	-490	370	790	O0

ATOM 7612 CB LEU C 81	-47.937	15.345	9.524	1.00	43.49	C0	
ANISOU 7612 CB LEU C 81	5170	6660	4690	-320	200	950	C0
ATOM 7613 CG LEU C 81	-49.299	14.732	9.225	1.00	43.36	C0	
ANISOU 7613 CG LEU C 81	5110	6720	4650	-280	120	990	C0
ATOM 7614 CD1 LEU C 81	-50.156	14.738	10.481	1.00	42.84	C0	
ANISOU 7614 CD1 LEU C 81	4990	6580	4710	-190	110	960	C0
ATOM 7615 CD2 LEU C 81	-49.997	15.467	8.095	1.00	44.96	C0	
ANISOU 7615 CD2 LEU C 81	5330	6950	4800	-270	60	1150	C0
ATOM 7616 H LEU C 81	-46.229	13.437	8.775	1.00	43.63	H0	
ANISOU 7616 H LEU C 81	5180	6870	4530	-430	250	730	H0
ATOM 7617 HA LEU C 81	-47.269	15.749	7.594	1.00	45.05	H0	
ANISOU 7617 HA LEU C 81	5430	6980	4710	-440	200	1060	H0
ATOM 7618 HB2 LEU C 81	-47.556	14.882	10.296	1.00	42.57	H0	
ANISOU 7618 HB2 LEU C 81	5040	6520	4610	-310	230	850	H0
ATOM 7619 HB3 LEU C 81	-48.073	16.278	9.783	1.00	43.80	H0	
ANISOU 7619 HB3 LEU C 81	5230	6610	4800	-290	210	1020	H0
ATOM 7620 HG LEU C 81	-49.163	13.793	8.947	1.00	43.16	H0	
ANISOU 7620 HG LEU C 81	5070	6770	4560	-310	110	920	H0
ATOM 7621 HD11 LEU C 81	-49.716	14.220	11.177	1.00	41.99	H0	
ANISOU 7621 HD11 LEU C 81	4880	6450	4630	-200	140	860	H0
ATOM 7622 HD12 LEU C 81	-51.024	14.345	10.285	1.00	43.04	H0	
ANISOU 7622 HD12 LEU C 81	4970	6670	4720	-170	60	990	H0
ATOM 7623 HD13 LEU C 81	-50.277	15.654	10.788	1.00	43.18	H0	
ANISOU 7623 HD13 LEU C 81	5040	6540	4820	-140	120	1010	H0
ATOM 7624 HD21 LEU C 81	-49.951	16.426	8.254	1.00	45.37	H0	
ANISOU 7624 HD21 LEU C 81	5410	6920	4910	-240	70	1210	H0
ATOM 7625 HD22 LEU C 81	-50.928	15.190	8.053	1.00	45.06	H0	
ANISOU 7625 HD22 LEU C 81	5290	7010	4820	-230	0	1170	H0
ATOM 7626 HD23 LEU C 81	-49.558	15.258	7.252	1.00	45.29	H0	
ANISOU 7626 HD23 LEU C 81	5390	7070	4750	-340	60	1160	H0
ATOM 7627 N TRP C 82	-45.625	17.386	8.640	1.00	43.51	N0	
ANISOU 7627 N TRP C 82	5300	6600	4630	-500	320	1050	N0
ATOM 7628 CA TRP C 82	-44.737	18.307	9.397	1.00	43.21	C0	
ANISOU 7628 CA TRP C 82	5310	6450	4660	-530	390	1040	C0
ATOM 7629 C TRP C 82	-45.252	18.382	10.839	1.00	42.11	C0	
ANISOU 7629 C TRP C 82	5140	6180	4670	-420	390	980	C0
ATOM 7630 O TRP C 82	-46.477	18.531	11.021	1.00	41.62	O0	
ANISOU 7630 O TRP C 82	5070	6070	4670	-320	330	1040	O0
ATOM 7631 CB TRP C 82	-44.665	19.705	8.767	1.00	44.59	C0	
ANISOU 7631 CB TRP C 82	5580	6540	4820	-600	380	1200	C0
ATOM 7632 CG TRP C 82	-43.820	20.647	9.572	1.00	44.69	C0	
ANISOU 7632 CG TRP C 82	5650	6420	4910	-650	440	1180	C0
ATOM 7633 CD1 TRP C 82	-42.466	20.801	9.497	1.00	44.89	C0	
ANISOU 7633 CD1 TRP C 82	5680	6510	4870	-780	520	1130	C0
ATOM 7634 CD2 TRP C 82	-44.261	21.529	10.621	1.00	44.39	C0	
ANISOU 7634 CD2 TRP C 82	5660	6190	5020	-560	430	1200	C0
ATOM 7635 NE1 TRP C 82	-42.041	21.731	10.405	1.00	44.94	N0	
ANISOU 7635 NE1 TRP C 82	5740	6360	4980	-810	550	1130	N0
ATOM 7636 CE2 TRP C 82	-43.117	22.192	11.112	1.00	44.53	C0	
ANISOU 7636 CE2 TRP C 82	5730	6140	5050	-670	500	1170	C0
ATOM 7637 CE3 TRP C 82	-45.506	21.828	11.188	1.00	44.44	C0	
ANISOU 7637 CE3 TRP C 82	5680	6080	5130	-410	370	1240	C0
ATOM 7638 CZ2 TRP C 82	-43.184	23.136	12.136	1.00	45.03	C0	
ANISOU 7638 CZ2 TRP C 82	5860	6010	5240	-630	500	1170	C0

ATOM 7639 CZ3 TRP C 82	-45.574	22.767	12.195	1.00	44.58	C0	
ANISOU 7639 CZ3 TRP C 82	5750	5910	5270	-360	390	1230	C0
ATOM 7640 CH2 TRP C 82	-44.427	23.408	12.664	1.00	44.95	C0	
ANISOU 7640 CH2 TRP C 82	5870	5880	5340	-470	450	1190	C0
ATOM 7641 H TRP C 82	-46.152	17.806	8.027	1.00	44.44	H0	
ANISOU 7641 H TRP C 82	5450	6720	4720	-490	280	1150	H0
ATOM 7642 HA TRP C 82	-43.831	17.924	9.400	1.00	43.00	H0	
ANISOU 7642 HA TRP C 82	5250	6490	4590	-590	440	950	H0
ATOM 7643 HB2 TRP C 82	-44.294	19.623	7.865	1.00	45.27	H0	
ANISOU 7643 HB2 TRP C 82	5680	6720	4800	-680	390	1230	H0
ATOM 7644 HB3 TRP C 82	-45.573	20.063	8.692	1.00	45.01	H0	
ANISOU 7644 HB3 TRP C 82	5660	6530	4910	-520	320	1280	H0
ATOM 7645 HD1 TRP C 82	-41.899	20.345	8.895	1.00	45.04	H0	
ANISOU 7645 HD1 TRP C 82	5660	6660	4790	-860	540	1100	H0
ATOM 7646 HE1 TRP C 82	-41.214	21.987	10.514	1.00	45.23	H0	
ANISOU 7646 HE1 TRP C 82	5780	6410	4990	-900	590	1100	H0
ATOM 7647 HE3 TRP C 82	-46.288	21.399	10.879	1.00	44.31	H0	
ANISOU 7647 HE3 TRP C 82	5620	6120	5100	-350	330	1260	H0
ATOM 7648 HZ2 TRP C 82	-42.410	23.574	12.447	1.00	45.23	H0	
ANISOU 7648 HZ2 TRP C 82	5920	5990	5270	-710	550	1140	H0
ATOM 7649 HZ3 TRP C 82	-46.409	22.972	12.584	1.00	44.73	H0	
ANISOU 7649 HZ3 TRP C 82	5770	5860	5360	-240	350	1250	H0
ATOM 7650 HH2 TRP C 82	-44.503	24.042	13.355	1.00	45.16	H0	
ANISOU 7650 HH2 TRP C 82	5940	5770	5450	-430	450	1190	H0
ATOM 7651 N VAL C 83	-44.357	18.255	11.821	1.00	41.39	N0	
ANISOU 7651 N VAL C 83	5040	6050	4630	-440	450	860	N0
ATOM 7652 CA VAL C 83	-44.687	18.432	13.265	1.00	40.50	C0	
ANISOU 7652 CA VAL C 83	4910	5820	4650	-360	460	800	C0
ATOM 7653 C VAL C 83	-43.686	19.423	13.846	1.00	40.14	C0	
ANISOU 7653 C VAL C 83	4920	5670	4660	-420	520	780	C0
ATOM 7654 O VAL C 83	-42.507	19.398	13.495	1.00	40.16	O0	
ANISOU 7654 O VAL C 83	4920	5750	4590	-530	570	750	O0
ATOM 7655 CB VAL C 83	-44.729	17.093	14.034	1.00	39.72	C0	
ANISOU 7655 CB VAL C 83	4740	5780	4570	-320	460	660	C0
ATOM 7656 CG1 VAL C 83	-45.626	16.080	13.341	1.00	39.70	C0	
ANISOU 7656 CG1 VAL C 83	4700	5890	4500	-290	400	670	C0
ATOM 7657 CG2 VAL C 83	-43.351	16.498	14.272	1.00	39.98	C0	
ANISOU 7657 CG2 VAL C 83	4750	5880	4560	-380	510	540	C0
ATOM 7658 H VAL C 83	-43.482	18.049	11.669	1.00	41.32	H0	
ANISOU 7658 H VAL C 83	5020	6110	4580	-510	490	810	H0
ATOM 7659 HA VAL C 83	-45.571	18.832	13.317	1.00	40.81	H0	
ANISOU 7659 HA VAL C 83	4970	5800	4740	-290	430	860	H0
ATOM 7660 HB VAL C 83	-45.126	17.281	14.920	1.00	39.43	H0	
ANISOU 7660 HB VAL C 83	4700	5670	4610	-260	470	640	H0
ATOM 7661 HG11 VAL C 83	-46.482	16.494	13.132	1.00	40.13	H0	
ANISOU 7661 HG11 VAL C 83	4760	5910	4570	-250	370	760	H0
ATOM 7662 HG12 VAL C 83	-45.770	15.318	13.928	1.00	38.94	H0	
ANISOU 7662 HG12 VAL C 83	4580	5800	4420	-260	390	600	H0
ATOM 7663 HG13 VAL C 83	-45.203	15.779	12.518	1.00	39.97	H0	
ANISOU 7663 HG13 VAL C 83	4740	6000	4450	-340	400	680	H0
ATOM 7664 HG21 VAL C 83	-42.815	16.585	13.464	1.00	40.31	H0	
ANISOU 7664 HG21 VAL C 83	4800	5990	4520	-440	530	560	H0
ATOM 7665 HG22 VAL C 83	-43.438	15.556	14.501	1.00	39.10	H0	
ANISOU 7665 HG22 VAL C 83	4610	5820	4430	-350	500	460	H0

ATOM 7666 HG23 VAL C 83	-42.914	16.969	15.003	1.00	39.63		H0
ANISOU 7666 HG23 VAL C 83	4720	5770	4570	-390	550	510	H0
ATOM 7667 N PRO C 84	-44.135	20.347	14.725	1.00	39.90		N0
ANISOU 7667 N PRO C 84	4940	5480	4740	-360	520	810	N0
ATOM 7668 CA PRO C 84	-43.233	21.311	15.348	1.00	40.15		C0
ANISOU 7668 CA PRO C 84	5040	5400	4820	-430	570	790	C0
ATOM 7669 C PRO C 84	-42.124	20.603	16.142	1.00	38.55		C0
ANISOU 7669 C PRO C 84	4770	5260	4610	-490	630	640	C0
ATOM 7670 O PRO C 84	-42.382	19.579	16.748	1.00	37.72		O0
ANISOU 7670 O PRO C 84	4600	5210	4520	-420	620	550	O0
ATOM 7671 CB PRO C 84	-44.142	22.167	16.248	1.00	40.64		C0
ANISOU 7671 CB PRO C 84	5160	5280	5010	-320	550	810	C0
ATOM 7672 CG PRO C 84	-45.395	21.336	16.436	1.00	40.17		C0
ANISOU 7672 CG PRO C 84	5010	5280	4970	-190	510	790	C0
ATOM 7673 CD PRO C 84	-45.525	20.505	15.177	1.00	40.15		C0
ANISOU 7673 CD PRO C 84	4960	5440	4850	-220	480	840	C0
ATOM 7674 HA PRO C 84	-42.833	21.884	14.647	1.00	41.04		H0
ANISOU 7674 HA PRO C 84	5210	5500	4890	-510	580	860	H0
ATOM 7675 HB2 PRO C 84	-43.712	22.347	17.110	1.00	40.36		H0
ANISOU 7675 HB2 PRO C 84	5130	5190	5020	-330	590	740	H0
ATOM 7676 HB3 PRO C 84	-44.354	23.022	15.816	1.00	41.74		H0
ANISOU 7676 HB3 PRO C 84	5370	5330	5160	-320	530	910	H0
ATOM 7677 HG2 PRO C 84	-45.313	20.759	17.223	1.00	39.22		H0
ANISOU 7677 HG2 PRO C 84	4840	5190	4870	-170	530	700	H0
ATOM 7678 HG3 PRO C 84	-46.178	21.913	16.550	1.00	40.72		H0
ANISOU 7678 HG3 PRO C 84	5110	5270	5090	-100	480	850	H0
ATOM 7679 HD2 PRO C 84	-45.931	19.640	15.372	1.00	39.34		H0
ANISOU 7679 HD2 PRO C 84	4800	5410	4740	-190	460	790	H0
ATOM 7680 HD3 PRO C 84	-46.062	20.964	14.505	1.00	40.94		H0
ANISOU 7680 HD3 PRO C 84	5100	5520	4940	-200	440	940	H0
ATOM 7681 N ASP C 85	-40.916	21.160	16.083	1.00	38.66		N0
ANISOU 7681 N ASP C 85	4810	5280	4590	-610	680	630	N0
ATOM 7682 CA ASP C 85	-39.696	20.640	16.755	1.00	38.20		C0
ANISOU 7682 CA ASP C 85	4690	5310	4520	-680	730	490	C0
ATOM 7683 C ASP C 85	-39.688	21.120	18.215	1.00	37.85		C0
ANISOU 7683 C ASP C 85	4670	5120	4580	-640	740	420	C0
ATOM 7684 O ASP C 85	-38.732	21.813	18.606	1.00	38.33		O0
ANISOU 7684 O ASP C 85	4760	5150	4650	-750	780	400	O0
ATOM 7685 CB ASP C 85	-38.438	21.080	15.998	1.00	38.86		C0
ANISOU 7685 CB ASP C 85	4770	5490	4510	-840	780	510	C0
ATOM 7686 CG ASP C 85	-38.249	22.588	15.945	1.00	40.10		C0
ANISOU 7686 CG ASP C 85	5050	5500	4690	-950	790	610	C0
ATOM 7687 OD1 ASP C 85	-39.267	23.312	16.039	1.00	40.17		O0
ANISOU 7687 OD1 ASP C 85	5160	5330	4770	-870	750	700	O0
ATOM 7688 OD2 ASP C 85	-37.086	23.032	15.826	1.00	40.57		O0
ANISOU 7688 OD2 ASP C 85	5110	5610	4700	-1110	840	600	O0
ATOM 7689 H ASP C 85	-40.765	21.923	15.610	1.00	39.78		H0
ANISOU 7689 H ASP C 85	5020	5380	4720	-680	680	700	H0
ATOM 7690 HA ASP C 85	-39.734	19.654	16.747	1.00	37.34		H0
ANISOU 7690 HA ASP C 85	4510	5290	4380	-630	720	420	H0
ATOM 7691 HB2 ASP C 85	-37.651	20.685	16.423	1.00	38.61		H0
ANISOU 7691 HB2 ASP C 85	4680	5530	4460	-870	800	410	H0
ATOM 7692 HB3 ASP C 85	-38.488	20.745	15.079	1.00	39.21		H0
ANISOU 7692 HB3 ASP C 85	4790	5630	4470	-860	770	540	H0

ATOM 7693 N LEU C 86	-40.716	20.770	18.992	1.00	37.15	N0	
ANISOU 7693 N LEU C 86	4580	4970	4570	-510	720	390	N0
ATOM 7694 CA LEU C 86	-40.836	21.185	20.415	1.00	37.48	C0	
ANISOU 7694 CA LEU C 86	4640	4890	4710	-470	730	320	C0
ATOM 7695 C LEU C 86	-39.898	20.330	21.267	1.00	36.49	C0	
ANISOU 7695 C LEU C 86	4450	4850	4570	-490	750	190	C0
ATOM 7696 O LEU C 86	-39.836	19.110	21.047	1.00	36.04	O0	
ANISOU 7696 O LEU C 86	4320	4920	4460	-460	730	140	O0
ATOM 7697 CB LEU C 86	-42.283	21.032	20.892	1.00	37.09	C0	
ANISOU 7697 CB LEU C 86	4590	4780	4720	-320	700	340	C0
ATOM 7698 CG LEU C 86	-43.320	21.874	20.151	1.00	38.57	C0	
ANISOU 7698 CG LEU C 86	4840	4880	4940	-260	660	470	C0
ATOM 7699 CD1 LEU C 86	-44.650	21.833	20.881	1.00	38.70	C0	
ANISOU 7699 CD1 LEU C 86	4830	4850	5020	-110	640	450	C0
ATOM 7700 CD2 LEU C 86	-42.853	23.314	19.978	1.00	40.12	C0	
ANISOU 7700 CD2 LEU C 86	5160	4930	5160	-330	680	540	C0
ATOM 7701 H LEU C 86	-41.397	20.242	18.701	1.00	36.92	H0	
ANISOU 7701 H LEU C 86	4520	4980	4530	-450	690	410	H0
ATOM 7702 HA LEU C 86	-40.562	22.127	20.489	1.00	38.15	H0	
ANISOU 7702 HA LEU C 86	4800	4880	4820	-520	750	360	H0
ATOM 7703 HB2 LEU C 86	-42.534	20.091	20.811	1.00	36.48	H0	
ANISOU 7703 HB2 LEU C 86	4450	4790	4610	-290	680	310	H0
ATOM 7704 HB3 LEU C 86	-42.318	21.265	21.842	1.00	37.05	H0	
ANISOU 7704 HB3 LEU C 86	4600	4710	4770	-300	710	280	H0
ATOM 7705 HG LEU C 86	-43.450	21.481	19.253	1.00	38.61	H0	
ANISOU 7705 HG LEU C 86	4820	4970	4880	-270	640	520	H0
ATOM 7706 HD11 LEU C 86	-44.949	20.911	20.961	1.00	37.84	H0	
ANISOU 7706 HD11 LEU C 86	4650	4840	4890	-90	630	420	H0
ATOM 7707 HD12 LEU C 86	-45.310	22.345	20.382	1.00	39.41	H0	
ANISOU 7707 HD12 LEU C 86	4950	4890	5130	-60	610	530	H0
ATOM 7708 HD13 LEU C 86	-44.545	22.218	21.769	1.00	38.67	H0	
ANISOU 7708 HD13 LEU C 86	4850	4770	5070	-100	670	400	H0
ATOM 7709 HD21 LEU C 86	-42.442	23.624	20.803	1.00	40.04	H0	
ANISOU 7709 HD21 LEU C 86	5170	4850	5190	-350	700	470	H0
ATOM 7710 HD22 LEU C 86	-43.615	23.880	19.763	1.00	40.79	H0	
ANISOU 7710 HD22 LEU C 86	5290	4930	5280	-250	650	600	H0
ATOM 7711 HD23 LEU C 86	-42.203	23.361	19.255	1.00	40.42	H0	
ANISOU 7711 HD23 LEU C 86	5210	5010	5140	-420	680	570	H0
ATOM 7712 N ALA C 87	-39.198	20.960	22.205	1.00	37.02	N0	
ANISOU 7712 N ALA C 87	4540	4850	4670	-550	780	130	N0
ATOM 7713 CA ALA C 87	-38.383	20.284	23.233	1.00	36.87	C0	
ANISOU 7713 CA ALA C 87	4460	4890	4650	-560	790	0	C0
ATOM 7714 C ALA C 87	-38.770	20.829	24.607	1.00	37.48	C0	
ANISOU 7714 C ALA C 87	4590	4840	4810	-530	800	-50	C0
ATOM 7715 O ALA C 87	-39.012	22.041	24.719	1.00	38.62	O0	
ANISOU 7715 O ALA C 87	4830	4840	5010	-550	820	-10	O0
ATOM 7716 CB ALA C 87	-36.919	20.484	22.946	1.00	37.61	C0	
ANISOU 7716 CB ALA C 87	4520	5080	4690	-700	830	-40	C0
ATOM 7717 H ALA C 87	-39.168	21.868	22.280	1.00	37.81	H0	
ANISOU 7717 H ALA C 87	4710	4850	4810	-590	800	160	H0
ATOM 7718 HA ALA C 87	-38.582	19.319	23.211	1.00	36.20	H0	
ANISOU 7718 HA ALA C 87	4330	4880	4540	-510	770	-40	H0
ATOM 7719 HB1 ALA C 87	-36.390	20.037	23.628	1.00	37.18	H0	
ANISOU 7719 HB1 ALA C 87	4420	5070	4630	-700	820	-130	H0

ATOM 7720 HB2 ALA C 87	-36.704	20.110	22.075	1.00	37.69	H0	
ANISOU 7720 HB2 ALA C 87	4490	5190	4640	-710	820	-20	H0
ATOM 7721 HB3 ALA C 87	-36.713	21.434	22.950	1.00	38.37	H0	
ANISOU 7721 HB3 ALA C 87	4680	5100	4800	-770	850	-10	H0
ATOM 7722 N ALA C 88	-38.849	19.945	25.601	1.00	37.59	N0	
ANISOU 7722 N ALA C 88	4560	4890	4830	-470	790	-140	N0
ATOM 7723 CA ALA C 88	-38.904	20.299	27.033	1.00	38.08	C0	
ANISOU 7723 CA ALA C 88	4660	4870	4940	-460	800	-220	C0
ATOM 7724 C ALA C 88	-37.480	20.626	27.485	1.00	39.43	C0	
ANISOU 7724 C ALA C 88	4820	5070	5100	-570	820	-290	C0
ATOM 7725 O ALA C 88	-36.662	19.698	27.631	1.00	39.55	O0	
ANISOU 7725 O ALA C 88	4760	5210	5060	-590	800	-360	O0
ATOM 7726 CB ALA C 88	-39.506	19.174	27.823	1.00	37.24	C0	
ANISOU 7726 CB ALA C 88	4510	4810	4830	-380	770	-280	C0
ATOM 7727 H ALA C 88	-38.871	19.045	25.464	1.00	36.88	H0	
ANISOU 7727 H ALA C 88	4420	4880	4710	-440	760	-170	H0
ATOM 7728 HA ALA C 88	-39.466	21.100	27.138	1.00	38.69	H0	
ANISOU 7728 HA ALA C 88	4790	4840	5070	-440	820	-190	H0
ATOM 7729 HB1 ALA C 88	-39.458	19.386	28.769	1.00	37.23	H0	
ANISOU 7729 HB1 ALA C 88	4530	4770	4850	-380	780	-330	H0
ATOM 7730 HB2 ALA C 88	-40.435	19.055	27.565	1.00	37.09	H0	
ANISOU 7730 HB2 ALA C 88	4490	4780	4820	-320	760	-230	H0
ATOM 7731 HB3 ALA C 88	-39.015	18.354	27.649	1.00	36.78	H0	
ANISOU 7731 HB3 ALA C 88	4410	4840	4730	-390	750	-310	H0
ATOM 7732 N TYR C 89	-37.203	21.911	27.684	1.00	40.95	N0	
ANISOU 7732 N TYR C 89	5090	5140	5330	-650	850	-280	N0
ATOM 7733 CA TYR C 89	-35.852	22.474	27.923	1.00	42.77	C0	
ANISOU 7733 CA TYR C 89	5320	5400	5530	-790	870	-330	C0
ATOM 7734 C TYR C 89	-35.202	21.850	29.170	1.00	42.37	C0	
ANISOU 7734 C TYR C 89	5210	5410	5470	-800	860	-450	C0
ATOM 7735 O TYR C 89	-33.961	21.698	29.168	1.00	43.18	O0	
ANISOU 7735 O TYR C 89	5250	5630	5530	-890	860	-500	O0
ATOM 7736 CB TYR C 89	-35.954	24.001	27.995	1.00	45.02	C0	
ANISOU 7736 CB TYR C 89	5740	5500	5870	-870	900	-280	C0
ATOM 7737 CG TYR C 89	-36.425	24.686	26.732	1.00	46.62	C0	
ANISOU 7737 CG TYR C 89	6010	5630	6070	-880	900	-150	C0
ATOM 7738 CD1 TYR C 89	-36.398	24.050	25.498	1.00	47.00	C0	
ANISOU 7738 CD1 TYR C 89	5990	5810	6060	-880	890	-80	C0
ATOM 7739 CD2 TYR C 89	-36.843	26.008	26.759	1.00	48.68	C0	
ANISOU 7739 CD2 TYR C 89	6420	5690	6390	-900	900	-90	C0
ATOM 7740 CE1 TYR C 89	-36.801	24.692	24.338	1.00	48.17	C0	
ANISOU 7740 CE1 TYR C 89	6210	5890	6200	-900	880	50	C0
ATOM 7741 CE2 TYR C 89	-37.245	26.667	25.607	1.00	50.18	C0	
ANISOU 7741 CE2 TYR C 89	6690	5800	6580	-910	890	40	C0
ATOM 7742 CZ TYR C 89	-37.226	26.007	24.391	1.00	49.99	C0	
ANISOU 7742 CZ TYR C 89	6590	5910	6480	-920	880	110	C0
ATOM 7743 OH TYR C 89	-37.612	26.653	23.250	1.00	51.95	O0	
ANISOU 7743 OH TYR C 89	6930	6090	6720	-940	860	250	O0
ATOM 7744 H TYR C 89	-37.850	22.553	27.698	1.00	41.48	H0	
ANISOU 7744 H TYR C 89	5220	5100	5440	-620	860	-240	H0
ATOM 7745 HA TYR C 89	-35.284	22.241	27.147	1.00	42.93	H0	
ANISOU 7745 HA TYR C 89	5290	5510	5510	-850	880	-300	H0
ATOM 7746 HB2 TYR C 89	-36.565	24.233	28.725	1.00	44.91	H0	
ANISOU 7746 HB2 TYR C 89	5770	5390	5900	-800	900	-310	H0

ATOM 7747 HB3 TYR C 89	-35.070	24.352	28.228	1.00	45.55	H0	
ANISOU 7747 HB3 TYR C 89	5810	5590	5920	-980	910	-320	H0
ATOM 7748 HD1 TYR C 89	-36.109	23.156	25.444	1.00	46.20	H0	
ANISOU 7748 HD1 TYR C 89	5800	5830	5920	-860	880	-120	H0
ATOM 7749 HD2 TYR C 89	-36.858	26.469	27.581	1.00	48.95	H0	
ANISOU 7749 HD2 TYR C 89	6510	5630	6460	-900	910	-150	H0
ATOM 7750 HE1 TYR C 89	-36.781	24.236	23.513	1.00	48.05	H0	
ANISOU 7750 HE1 TYR C 89	6150	5970	6130	-900	880	90	H0
ATOM 7751 HE2 TYR C 89	-37.534	27.564	25.652	1.00	51.02	H0	
ANISOU 7751 HE2 TYR C 89	6910	5750	6720	-910	880	70	H0
ATOM 7752 N ASN C 90	-35.983	21.483	30.193	1.00	41.09	N0	
ANISOU 7752 N ASN C 90	5070	5200	5340	-700	850	-500	N0
ATOM 7753 CA ASN C 90	-35.447	20.956	31.480	1.00	41.11	C0	
ANISOU 7753 CA ASN C 90	5040	5260	5330	-710	830	-610	C0
ATOM 7754 C ASN C 90	-35.729	19.450	31.602	1.00	40.12	C0	
ANISOU 7754 C ASN C 90	4850	5240	5160	-610	780	-630	C0
ATOM 7755 O ASN C 90	-35.608	18.921	32.725	1.00	40.29	O0	
ANISOU 7755 O ASN C 90	4860	5280	5170	-600	750	-700	O0
ATOM 7756 CB ASN C 90	-35.968	21.752	32.685	1.00	41.77	C0	
ANISOU 7756 CB ASN C 90	5210	5200	5460	-700	850	-650	C0
ATOM 7757 CG ASN C 90	-37.473	21.705	32.844	1.00	41.82	C0	
ANISOU 7757 CG ASN C 90	5260	5130	5500	-580	860	-620	C0
ATOM 7758 OD1 ASN C 90	-38.215	22.013	31.914	1.00	42.02	O0	
ANISOU 7758 OD1 ASN C 90	5300	5110	5550	-530	870	-530	O0
ATOM 7759 ND2 ASN C 90	-37.934	21.337	34.028	1.00	42.39	N0	
ANISOU 7759 ND2 ASN C 90	5330	5210	5570	-530	860	-690	N0
ATOM 7760 H ASN C 90	-36.891	21.534	30.163	1.00	41.14	H0	
ANISOU 7760 H ASN C 90	5110	5150	5380	-630	850	-460	H0
ATOM 7761 HA ASN C 90	-34.469	21.075	31.466	1.00	41.52	H0	
ANISOU 7761 HA ASN C 90	5060	5370	5350	-790	830	-640	H0
ATOM 7762 HB2 ASN C 90	-35.551	21.400	33.497	1.00	41.65	H0	
ANISOU 7762 HB2 ASN C 90	5180	5230	5420	-720	830	-720	H0
ATOM 7763 HB3 ASN C 90	-35.691	22.685	32.586	1.00	42.66	H0	
ANISOU 7763 HB3 ASN C 90	5380	5240	5590	-770	870	-640	H0
ATOM 7764 HD21 ASN C 90	-38.686	20.874	34.085	1.00	41.70	H0	
ANISOU 7764 HD21 ASN C 90	5230	5140	5480	-470	850	-670	H0
ATOM 7765 HD22 ASN C 90	-37.493	21.555	34.763	1.00	42.37	H0	
ANISOU 7765 HD22 ASN C 90	5350	5190	5560	-580	860	-750	H0
ATOM 7766 N ALA C 91	-36.069	18.774	30.499	1.00	39.20	N0	
ANISOU 7766 N ALA C 91	4690	5180	5020	-560	760	-570	N0
ATOM 7767 CA ALA C 91	-36.151	17.296	30.433	1.00	38.58	C0	
ANISOU 7767 CA ALA C 91	4560	5200	4900	-490	700	-590	C0
ATOM 7768 C ALA C 91	-34.734	16.725	30.523	1.00	38.42	C0	
ANISOU 7768 C ALA C 91	4470	5300	4830	-520	670	-670	C0
ATOM 7769 O ALA C 91	-33.814	17.344	29.948	1.00	39.54	O0	
ANISOU 7769 O ALA C 91	4570	5500	4960	-600	700	-670	O0
ATOM 7770 CB ALA C 91	-36.841	16.849	29.170	1.00	38.64	C0	
ANISOU 7770 CB ALA C 91	4560	5230	4890	-430	690	-510	C0
ATOM 7771 H ALA C 91	-36.275	19.170	29.706	1.00	39.62	H0	
ANISOU 7771 H ALA C 91	4760	5210	5080	-570	780	-510	H0
ATOM 7772 HA ALA C 91	-36.669	16.977	31.209	1.00	38.20	H0	
ANISOU 7772 HA ALA C 91	4540	5120	4860	-450	680	-610	H0
ATOM 7773 HB1 ALA C 91	-36.870	15.878	29.142	1.00	38.09	H0	
ANISOU 7773 HB1 ALA C 91	4470	5220	4790	-390	650	-530	H0

ATOM 7774 HB2 ALA C 91	-37.746	17.200	29.153	1.00	38.48	H0	
ANISOU 7774 HB2 ALA C 91	4570	5150	4900	-410	710	-460	H0
ATOM 7775 HB3 ALA C 91	-36.351	17.179	28.397	1.00	38.93	H0	
ANISOU 7775 HB3 ALA C 91	4570	5310	4910	-470	710	-490	H0
ATOM 7776 N ILE C 92	-34.570	15.608	31.237	1.00	37.32	N0	
ANISOU 7776 N ILE C 92	4310	5210	4660	-460	600	-730	N0
ATOM 7777 CA ILE C 92	-33.264	14.916	31.450	1.00	37.53	C0	
ANISOU 7777 CA ILE C 92	4260	5360	4640	-450	550	-810	C0
ATOM 7778 C ILE C 92	-33.359	13.485	30.910	1.00	37.27	C0	
ANISOU 7778 C ILE C 92	4220	5380	4560	-340	470	-820	C0
ATOM 7779 O ILE C 92	-32.412	12.712	31.128	1.00	36.76	O0	
ANISOU 7779 O ILE C 92	4100	5410	4460	-300	410	-900	O0
ATOM 7780 CB ILE C 92	-32.858	14.951	32.939	1.00	37.51	C0	
ANISOU 7780 CB ILE C 92	4280	5340	4630	-470	520	-880	C0
ATOM 7781 CG1 ILE C 92	-33.870	14.231	33.837	1.00	36.78	C0	
ANISOU 7781 CG1 ILE C 92	4270	5170	4540	-410	470	-870	C0
ATOM 7782 CG2 ILE C 92	-32.623	16.386	33.386	1.00	37.98	C0	
ANISOU 7782 CG2 ILE C 92	4360	5340	4730	-590	580	-890	C0
ATOM 7783 CD1 ILE C 92	-33.488	14.198	35.308	1.00	37.06	C0	
ANISOU 7783 CD1 ILE C 92	4330	5200	4550	-440	430	-940	C0
ATOM 7784 H ILE C 92	-35.265	15.202	31.662	1.00	37.04	H0	
ANISOU 7784 H ILE C 92	4310	5130	4630	-420	580	-720	H0
ATOM 7785 HA ILE C 92	-32.582	15.388	30.940	1.00	38.07	H0	
ANISOU 7785 HA ILE C 92	4280	5480	4700	-500	580	-820	H0
ATOM 7786 HB ILE C 92	-31.997	14.470	33.022	1.00	37.80	H0	
ANISOU 7786 HB ILE C 92	4260	5460	4640	-460	470	-940	H0
ATOM 7787 HG12 ILE C 92	-34.739	14.677	33.752	1.00	36.60	H0	
ANISOU 7787 HG12 ILE C 92	4290	5080	4540	-420	510	-830	H0
ATOM 7788 HG13 ILE C 92	-33.974	13.308	33.521	1.00	36.55	H0	
ANISOU 7788 HG13 ILE C 92	4240	5170	4480	-350	420	-870	H0
ATOM 7789 HG21 ILE C 92	-32.009	16.823	32.770	1.00	38.52	H0	
ANISOU 7789 HG21 ILE C 92	4380	5460	4790	-640	610	-890	H0
ATOM 7790 HG22 ILE C 92	-32.240	16.393	34.280	1.00	38.24	H0	
ANISOU 7790 HG22 ILE C 92	4400	5380	4750	-610	560	-940	H0
ATOM 7791 HG23 ILE C 92	-33.468	16.867	33.394	1.00	37.85	H0	
ANISOU 7791 HG23 ILE C 92	4400	5230	4750	-590	620	-840	H0
ATOM 7792 HD11 ILE C 92	-32.550	13.953	35.395	1.00	37.42	H0	
ANISOU 7792 HD11 ILE C 92	4330	5310	4580	-440	400	-990	H0
ATOM 7793 HD12 ILE C 92	-34.037	13.543	35.773	1.00	36.72	H0	
ANISOU 7793 HD12 ILE C 92	4330	5130	4490	-400	390	-930	H0
ATOM 7794 HD13 ILE C 92	-33.630	15.076	35.702	1.00	37.27	H0	
ANISOU 7794 HD13 ILE C 92	4380	5170	4610	-500	490	-940	H0
ATOM 7795 N SER C 93	-34.468	13.153	30.243	1.00	37.42	N0	
ANISOU 7795 N SER C 93	4280	5350	4580	-300	480	-750	N0
ATOM 7796 CA SER C 93	-34.694	11.868	29.533	1.00	37.54	C0	
ANISOU 7796 CA SER C 93	4300	5410	4560	-220	410	-750	C0
ATOM 7797 C SER C 93	-35.382	12.158	28.197	1.00	38.66	C0	
ANISOU 7797 C SER C 93	4440	5550	4700	-230	460	-670	C0
ATOM 7798 O SER C 93	-36.099	13.181	28.105	1.00	37.86	O0	
ANISOU 7798 O SER C 93	4360	5380	4640	-280	520	-600	O0
ATOM 7799 CB SER C 93	-35.500	10.905	30.367	1.00	36.46	C0	
ANISOU 7799 CB SER C 93	4240	5200	4410	-170	340	-750	C0
ATOM 7800 OG SER C 93	-36.883	11.239	30.350	1.00	35.36	O0	
ANISOU 7800 OG SER C 93	4160	4980	4300	-200	380	-670	O0

ATOM 7801 H SER C 93	-35.186	13.706	30.170	1.00	37.19	H0	
ANISOU 7801 H SER C 93	4280	5260	4590	-330	520	-700	H0
ATOM 7802 HA SER C 93	-33.807	11.458	29.344	1.00	37.95	H0	
ANISOU 7802 HA SER C 93	4300	5540	4580	-190	380	-810	H0
ATOM 7803 HB2 SER C 93	-35.380	9.993	30.019	1.00	36.47	H0	
ANISOU 7803 HB2 SER C 93	4250	5230	4380	-120	280	-770	H0
ATOM 7804 HB3 SER C 93	-35.171	10.924	31.294	1.00	36.53	H0	
ANISOU 7804 HB3 SER C 93	4260	5200	4420	-180	320	-790	H0
ATOM 7805 N LYS C 94	-35.153	11.301	27.200	1.00	41.20	N0	
ANISOU 7805 N LYS C 94	4730	5950	4970	-170	420	-690	N0
ATOM 7806 CA LYS C 94	-35.902	11.304	25.915	1.00	43.00	C0	
ANISOU 7806 CA LYS C 94	4970	6190	5180	-170	450	-620	C0
ATOM 7807 C LYS C 94	-37.369	11.041	26.229	1.00	42.22	C0	
ANISOU 7807 C LYS C 94	4950	5990	5100	-160	420	-550	C0
ATOM 7808 O LYS C 94	-37.674	10.297	27.156	1.00	41.52	O0	
ANISOU 7808 O LYS C 94	4910	5850	5010	-130	370	-570	O0
ATOM 7809 CB LYS C 94	-35.381	10.230	24.955	1.00	44.88	C0	
ANISOU 7809 CB LYS C 94	5180	6520	5350	-100	400	-670	C0
ATOM 7810 CG LYS C 94	-33.929	10.403	24.536	1.00	47.60	C0	
ANISOU 7810 CG LYS C 94	5420	7010	5660	-110	420	-750	C0
ATOM 7811 CD LYS C 94	-33.471	9.416	23.480	1.00	49.72	C0	
ANISOU 7811 CD LYS C 94	5650	7390	5850	-30	390	-820	C0
ATOM 7812 CE LYS C 94	-33.997	9.736	22.096	1.00	50.84	C0	
ANISOU 7812 CE LYS C 94	5790	7570	5950	-70	440	-750	C0
ATOM 7813 NZ LYS C 94	-32.941	9.571	21.070	1.00	52.85	N0	
ANISOU 7813 NZ LYS C 94	5940	8010	6130	-60	470	-820	N0
ATOM 7814 H LYS C 94	-34.521	10.647	27.256	1.00	41.27	H0	
ANISOU 7814 H LYS C 94	4720	6010	4950	-130	380	-750	H0
ATOM 7815 HA LYS C 94	-35.809	12.190	25.497	1.00	43.16	H0	
ANISOU 7815 HA LYS C 94	4970	6220	5210	-230	500	-580	H0
ATOM 7816 HB2 LYS C 94	-35.480	9.355	25.385	1.00	44.78	H0	
ANISOU 7816 HB2 LYS C 94	5200	6480	5320	-50	330	-710	H0
ATOM 7817 HB3 LYS C 94	-35.941	10.234	24.151	1.00	44.91	H0	
ANISOU 7817 HB3 LYS C 94	5190	6530	5340	-110	410	-620	H0
ATOM 7818 HG2 LYS C 94	-33.806	11.314	24.195	1.00	47.74	H0	
ANISOU 7818 HG2 LYS C 94	5410	7050	5680	-180	490	-710	H0
ATOM 7819 HG3 LYS C 94	-33.362	10.303	25.327	1.00	47.59	H0	
ANISOU 7819 HG3 LYS C 94	5400	7010	5670	-90	400	-810	H0
ATOM 7820 HD2 LYS C 94	-32.491	9.409	23.453	1.00	50.17	H0	
ANISOU 7820 HD2 LYS C 94	5630	7550	5880	-20	400	-890	H0
ATOM 7821 HD3 LYS C 94	-33.772	8.517	23.732	1.00	49.34	H0	
ANISOU 7821 HD3 LYS C 94	5660	7290	5790	40	320	-850	H0
ATOM 7822 HE2 LYS C 94	-34.742	9.142	21.883	1.00	50.51	H0	
ANISOU 7822 HE2 LYS C 94	5810	7480	5900	-40	400	-720	H0
ATOM 7823 HE3 LYS C 94	-34.324	10.655	22.070	1.00	50.71	H0	
ANISOU 7823 HE3 LYS C 94	5780	7520	5970	-150	490	-670	H0
ATOM 7824 HZ1 LYS C 94	-32.287	10.187	21.199	1.00	52.92	H0	
ANISOU 7824 HZ1 LYS C 94	5890	8080	6140	-110	510	-830	H0
ATOM 7825 HZ2 LYS C 94	-33.295	9.683	20.242	1.00	52.66	H0	
ANISOU 7825 HZ2 LYS C 94	5930	8010	6070	-90	490	-780	H0
ATOM 7826 HZ3 LYS C 94	-32.582	8.740	21.128	1.00	52.76	H0	
ANISOU 7826 HZ3 LYS C 94	5920	8030	6090	20	420	-900	H0
ATOM 7827 N PRO C 95	-38.317	11.657	25.491	1.00	43.06	N0	
ANISOU 7827 N PRO C 95	5060	6070	5230	-180	460	-450	N0

ATOM 7828 CA PRO C 95	-39.735	11.372	25.698	1.00	42.55		C0
ANISOU 7828 CA PRO C 95	5040	5950	5170	-170	440	-390	C0
ATOM 7829 C PRO C 95	-40.035	9.901	25.370	1.00	42.25		C0
ANISOU 7829 C PRO C 95	5040	5930	5080	-130	360	-410	C0
ATOM 7830 O PRO C 95	-39.702	9.487	24.283	1.00	44.02		O0
ANISOU 7830 O PRO C 95	5250	6220	5250	-120	340	-420	O0
ATOM 7831 CB PRO C 95	-40.454	12.352	24.756	1.00	43.01		C0
ANISOU 7831 CB PRO C 95	5090	6000	5250	-190	490	-290	C0
ATOM 7832 CG PRO C 95	-39.409	12.756	23.731	1.00	43.91		C0
ANISOU 7832 CG PRO C 95	5160	6180	5340	-220	530	-300	C0
ATOM 7833 CD PRO C 95	-38.076	12.656	24.438	1.00	43.51		C0
ANISOU 7833 CD PRO C 95	5080	6160	5280	-230	530	-400	C0
ATOM 7834 HA PRO C 95	-39.980	11.572	26.636	1.00	42.42		H0
ANISOU 7834 HA PRO C 95	5050	5880	5190	-180	450	-400	H0
ATOM 7835 HB2 PRO C 95	-41.219	11.919	24.319	1.00	42.97		H0
ANISOU 7835 HB2 PRO C 95	5090	6000	5230	-180	470	-250	H0
ATOM 7836 HB3 PRO C 95	-40.777	13.136	25.250	1.00	43.11		H0
ANISOU 7836 HB3 PRO C 95	5110	5960	5310	-200	530	-270	H0
ATOM 7837 HG2 PRO C 95	-39.434	12.155	22.959	1.00	43.80		H0
ANISOU 7837 HG2 PRO C 95	5140	6220	5280	-210	500	-290	H0
ATOM 7838 HG3 PRO C 95	-39.566	13.671	23.421	1.00	44.05		H0
ANISOU 7838 HG3 PRO C 95	5180	6180	5380	-250	570	-240	H0
ATOM 7839 HD2 PRO C 95	-37.378	12.359	23.825	1.00	43.94		H0
ANISOU 7839 HD2 PRO C 95	5100	6300	5300	-230	520	-430	H0
ATOM 7840 HD3 PRO C 95	-37.817	13.514	24.822	1.00	43.84		H0
ANISOU 7840 HD3 PRO C 95	5120	6170	5360	-270	570	-390	H0
ATOM 7841 N GLU C 96	-40.579	9.145	26.330	1.00	41.40		N0
ANISOU 7841 N GLU C 96	4990	5780	4960	-130	300	-430	N0
ATOM 7842 CA GLU C 96	-41.144	7.788	26.100	1.00	41.70		C0
ANISOU 7842 CA GLU C 96	5090	5810	4940	-120	220	-430	C0
ATOM 7843 C GLU C 96	-42.607	7.962	25.669	1.00	40.11		C0
ANISOU 7843 C GLU C 96	4890	5610	4740	-160	230	-330	C0
ATOM 7844 O GLU C 96	-43.481	8.090	26.551	1.00	38.57		O0
ANISOU 7844 O GLU C 96	4700	5390	4560	-190	240	-300	O0
ATOM 7845 CB GLU C 96	-41.005	6.895	27.339	1.00	43.60		C0
ANISOU 7845 CB GLU C 96	5410	6000	5160	-120	140	-480	C0
ATOM 7846 CG GLU C 96	-41.160	5.409	27.025	1.00	46.34		C0
ANISOU 7846 CG GLU C 96	5850	6320	5440	-100	30	-500	C0
ATOM 7847 CD GLU C 96	-41.460	4.473	28.189	1.00	48.31		C0
ANISOU 7847 CD GLU C 96	6200	6500	5660	-130	-50	-510	C0
ATOM 7848 OE1 GLU C 96	-41.355	4.913	29.355	1.00	49.11		O0
ANISOU 7848 OE1 GLU C 96	6300	6580	5780	-160	-30	-510	O0
ATOM 7849 OE2 GLU C 96	-41.807	3.285	27.924	1.00	50.63		O0
ANISOU 7849 OE2 GLU C 96	6590	6750	5890	-140	-150	-510	O0
ATOM 7850 H GLU C 96	-40.635	9.421	27.196	1.00	41.50		H0
ANISOU 7850 H GLU C 96	5010	5760	5000	-150	320	-430	H0
ATOM 7851 HA GLU C 96	-40.649	7.369	25.359	1.00	41.90		H0
ANISOU 7851 HA GLU C 96	5110	5870	4930	-90	190	-460	H0
ATOM 7852 HB2 GLU C 96	-40.123	7.048	27.738	1.00	43.75		H0
ANISOU 7852 HB2 GLU C 96	5410	6020	5190	-100	150	-530	H0
ATOM 7853 HB3 GLU C 96	-41.683	7.157	27.995	1.00	43.53		H0
ANISOU 7853 HB3 GLU C 96	5400	5970	5170	-160	160	-440	H0
ATOM 7854 HG2 GLU C 96	-41.879	5.306	26.366	1.00	46.17		H0
ANISOU 7854 HG2 GLU C 96	5820	6310	5400	-130	40	-450	H0

ATOM 7855 HG3 GLU C 96	-40.333	5.098	26.597	1.00	46.40	H0	
ANISOU 7855 HG3 GLU C 96	5850	6350	5430	-50	10	-550	H0
ATOM 7856 N VAL C 97	-42.855	8.008	24.355	1.00	38.67	N0	
ANISOU 7856 N VAL C 97	4680	5480	4530	-150	240	-290	N0
ATOM 7857 CA VAL C 97	-44.223	8.162	23.774	1.00	37.83	C0	
ANISOU 7857 CA VAL C 97	4550	5400	4420	-180	240	-200	C0
ATOM 7858 C VAL C 97	-44.965	6.841	23.988	1.00	37.20	C0	
ANISOU 7858 C VAL C 97	4540	5310	4280	-220	150	-200	C0
ATOM 7859 O VAL C 97	-44.476	5.808	23.502	1.00	37.67	O0	
ANISOU 7859 O VAL C 97	4660	5370	4280	-210	90	-260	O0
ATOM 7860 CB VAL C 97	-44.209	8.566	22.286	1.00	37.86	C0	
ANISOU 7860 CB VAL C 97	4520	5460	4400	-170	260	-150	C0
ATOM 7861 CG1 VAL C 97	-45.617	8.855	21.789	1.00	38.25	C0	
ANISOU 7861 CG1 VAL C 97	4540	5540	4450	-190	260	-60	C0
ATOM 7862 CG2 VAL C 97	-43.303	9.757	22.015	1.00	38.12	C0	
ANISOU 7862 CG2 VAL C 97	4510	5500	4470	-160	330	-150	C0
ATOM 7863 H VAL C 97	-42.199	7.929	23.730	1.00	38.97	H0	
ANISOU 7863 H VAL C 97	4710	5550	4550	-130	240	-320	H0
ATOM 7864 HA VAL C 97	-44.686	8.858	24.274	1.00	37.76	H0	
ANISOU 7864 HA VAL C 97	4520	5380	4450	-190	280	-170	H0
ATOM 7865 HB VAL C 97	-43.859	7.797	21.772	1.00	38.09	H0	
ANISOU 7865 HB VAL C 97	4580	5510	4380	-170	220	-190	H0
ATOM 7866 HG11 VAL C 97	-46.067	8.017	21.580	1.00	38.29	H0	
ANISOU 7866 HG11 VAL C 97	4570	5570	4410	-220	210	-60	H0
ATOM 7867 HG12 VAL C 97	-45.574	9.405	20.990	1.00	38.47	H0	
ANISOU 7867 HG12 VAL C 97	4540	5600	4480	-190	280	-10	H0
ATOM 7868 HG13 VAL C 97	-46.116	9.326	22.479	1.00	38.15	H0	
ANISOU 7868 HG13 VAL C 97	4510	5510	4480	-190	280	-30	H0
ATOM 7869 HG21 VAL C 97	-43.518	10.476	22.635	1.00	38.01	H0	
ANISOU 7869 HG21 VAL C 97	4480	5450	4510	-160	370	-130	H0
ATOM 7870 HG22 VAL C 97	-43.436	10.067	21.102	1.00	38.38	H0	
ANISOU 7870 HG22 VAL C 97	4520	5570	4490	-170	350	-110	H0
ATOM 7871 HG23 VAL C 97	-42.374	9.494	22.134	1.00	38.07	H0	
ANISOU 7871 HG23 VAL C 97	4510	5500	4450	-150	330	-220	H0
ATOM 7872 N LEU C 98	-46.086	6.883	24.714	1.00	36.64	N0	
ANISOU 7872 N LEU C 98	4460	5240	4220	-270	160	-160	N0
ATOM 7873 CA LEU C 98	-46.835	5.685	25.167	1.00	36.06	C0	
ANISOU 7873 CA LEU C 98	4460	5160	4080	-340	80	-150	C0
ATOM 7874 C LEU C 98	-47.932	5.319	24.165	1.00	35.37	C0	
ANISOU 7874 C LEU C 98	4350	5140	3950	-390	50	-90	C0
ATOM 7875 O LEU C 98	-48.465	4.214	24.288	1.00	36.11	O0	
ANISOU 7875 O LEU C 98	4520	5230	3980	-460	-30	-90	O0
ATOM 7876 CB LEU C 98	-47.457	5.976	26.534	1.00	36.43	C0	
ANISOU 7876 CB LEU C 98	4490	5210	4150	-390	110	-140	C0
ATOM 7877 CG LEU C 98	-46.474	6.364	27.635	1.00	36.07	C0	
ANISOU 7877 CG LEU C 98	4460	5100	4140	-350	140	-200	C0
ATOM 7878 CD1 LEU C 98	-47.220	6.747	28.899	1.00	35.78	C0	
ANISOU 7878 CD1 LEU C 98	4400	5080	4120	-400	190	-190	C0
ATOM 7879 CD2 LEU C 98	-45.500	5.230	27.907	1.00	36.35	C0	
ANISOU 7879 CD2 LEU C 98	4610	5070	4130	-350	50	-270	C0
ATOM 7880 H LEU C 98	-46.467	7.668	24.975	1.00	36.58	H0	
ANISOU 7880 H LEU C 98	4400	5240	4250	-260	210	-130	H0
ATOM 7881 HA LEU C 98	-46.208	4.929	25.242	1.00	36.09	H0	
ANISOU 7881 HA LEU C 98	4530	5120	4060	-330	30	-200	H0

ATOM 7882 HB2 LEU C 98	-48.105	6.701	26.428	1.00	36.44	H0	
ANISOU 7882 HB2 LEU C 98	4410	5250	4180	-380	160	-100	H0
ATOM 7883 HB3 LEU C 98	-47.948	5.182	26.823	1.00	36.59	H0	
ANISOU 7883 HB3 LEU C 98	4550	5230	4120	-450	60	-130	H0
ATOM 7884 HG LEU C 98	-45.958	7.150	27.330	1.00	35.87	H0	
ANISOU 7884 HG LEU C 98	4390	5080	4160	-300	190	-210	H0
ATOM 7885 HD11 LEU C 98	-47.807	7.501	28.715	1.00	36.02	H0	
ANISOU 7885 HD11 LEU C 98	4350	5150	4180	-390	240	-160	H0
ATOM 7886 HD12 LEU C 98	-46.582	6.995	29.591	1.00	35.76	H0	
ANISOU 7886 HD12 LEU C 98	4410	5040	4130	-390	200	-230	H0
ATOM 7887 HD13 LEU C 98	-47.751	5.991	29.205	1.00	36.18	H0	
ANISOU 7887 HD13 LEU C 98	4490	5150	4110	-470	140	-180	H0
ATOM 7888 HD21 LEU C 98	-45.990	4.392	27.980	1.00	36.55	H0	
ANISOU 7888 HD21 LEU C 98	4690	5090	4110	-400	-10	-250	H0
ATOM 7889 HD22 LEU C 98	-45.026	5.401	28.739	1.00	36.17	H0	
ANISOU 7889 HD22 LEU C 98	4590	5020	4130	-340	60	-300	H0
ATOM 7890 HD23 LEU C 98	-44.860	5.168	27.177	1.00	36.22	H0	
ANISOU 7890 HD23 LEU C 98	4590	5050	4120	-300	40	-290	H0
ATOM 7891 N THR C 99	-48.263	6.213	23.233	1.00	34.58	N0	
ANISOU 7891 N THR C 99	4160	5100	3880	-350	100	-30	N0
ATOM 7892 CA THR C 99	-49.496	6.143	22.409	1.00	34.79	C0	
ANISOU 7892 CA THR C 99	4140	5210	3870	-390	70	40	C0
ATOM 7893 C THR C 99	-49.158	5.993	20.929	1.00	35.72	C0	
ANISOU 7893 C THR C 99	4270	5360	3940	-370	50	50	C0
ATOM 7894 O THR C 99	-48.085	6.395	20.477	1.00	35.25	O0	
ANISOU 7894 O THR C 99	4220	5280	3900	-310	80	20	O0
ATOM 7895 CB THR C 99	-50.360	7.389	22.638	1.00	34.28	C0	
ANISOU 7895 CB THR C 99	3960	5200	3870	-360	140	110	C0
ATOM 7896 OG1 THR C 99	-49.486	8.516	22.578	1.00	33.18	O0	
ANISOU 7896 OG1 THR C 99	3800	5010	3800	-280	210	100	O0
ATOM 7897 CG2 THR C 99	-51.088	7.358	23.963	1.00	34.02	C0	
ANISOU 7897 CG2 THR C 99	3900	5180	3840	-400	170	100	C0
ATOM 7898 H THR C 99	-47.750	6.936	23.028	1.00	34.57	H0	
ANISOU 7898 H THR C 99	4130	5090	3910	-300	140	-40	H0
ATOM 7899 HA THR C 99	-50.007	5.354	22.698	1.00	35.08	H0	
ANISOU 7899 HA THR C 99	4210	5260	3860	-460	20	40	H0
ATOM 7900 HB THR C 99	-51.021	7.452	21.908	1.00	34.58	H0	
ANISOU 7900 HB THR C 99	3960	5300	3880	-370	130	160	H0
ATOM 7901 HG21 THR C 99	-51.899	6.826	23.876	1.00	34.55	H0	
ANISOU 7901 HG21 THR C 99	3950	5310	3870	-460	130	130	H0
ATOM 7902 HG22 THR C 99	-51.322	8.266	24.226	1.00	34.24	H0	
ANISOU 7902 HG22 THR C 99	3860	5220	3930	-350	220	120	H0
ATOM 7903 HG23 THR C 99	-50.512	6.963	24.642	1.00	33.84	H0	
ANISOU 7903 HG23 THR C 99	3940	5100	3820	-420	160	50	H0
ATOM 7904 N PRO C 100	-50.084	5.421	20.129	1.00	36.89	N0	
ANISOU 7904 N PRO C 100	4410	5580	4030	-430	-10	100	N0
ATOM 7905 CA PRO C 100	-49.923	5.368	18.675	1.00	37.26	C0	
ANISOU 7905 CA PRO C 100	4460	5670	4020	-420	-30	110	C0
ATOM 7906 C PRO C 100	-49.616	6.758	18.096	1.00	38.21	C0	
ANISOU 7906 C PRO C 100	4510	5820	4190	-340	40	170	C0
ATOM 7907 O PRO C 100	-50.271	7.723	18.478	1.00	38.62	O0	
ANISOU 7907 O PRO C 100	4480	5880	4310	-320	80	230	O0
ATOM 7908 CB PRO C 100	-51.285	4.843	18.187	1.00	38.12	C0	
ANISOU 7908 CB PRO C 100	4550	5870	4070	-500	-100	180	C0

ATOM 7909 CG PRO C 100	-51.812	4.038	19.357	1.00	38.08	C0	
ANISOU 7909 CG PRO C 100	4580	5830	4050	-580	-130	150	C0
ATOM 7910 CD PRO C 100	-51.327	4.778	20.587	1.00	37.12	C0	
ANISOU 7910 CD PRO C 100	4440	5650	4020	-530	-60	130	C0
ATOM 7911 HA PRO C 100	-49.209	4.725	18.440	1.00	37.43	H0	
ANISOU 7911 HA PRO C 100	4560	5660	4010	-410	-60	50	H0
ATOM 7912 HB2 PRO C 100	-51.891	5.583	17.971	1.00	38.29	H0	
ANISOU 7912 HB2 PRO C 100	4490	5950	4120	-480	-70	240	H0
ATOM 7913 HB3 PRO C 100	-51.179	4.277	17.393	1.00	38.37	H0	
ANISOU 7913 HB3 PRO C 100	4630	5910	4040	-520	-140	160	H0
ATOM 7914 HG2 PRO C 100	-52.789	3.998	19.339	1.00	38.46	H0	
ANISOU 7914 HG2 PRO C 100	4580	5960	4080	-640	-150	200	H0
ATOM 7915 HG3 PRO C 100	-51.458	3.125	19.339	1.00	38.09	H0	
ANISOU 7915 HG3 PRO C 100	4680	5780	4000	-620	-190	100	H0
ATOM 7916 HD2 PRO C 100	-51.978	5.442	20.879	1.00	37.39	H0	
ANISOU 7916 HD2 PRO C 100	4380	5740	4080	-520	-20	180	H0
ATOM 7917 HD3 PRO C 100	-51.153	4.159	21.320	1.00	37.14	H0	
ANISOU 7917 HD3 PRO C 100	4500	5610	4000	-560	-80	90	H0
ATOM 7918 N GLN C 101	-48.619	6.838	17.211	1.00	38.94	N0	
ANISOU 7918 N GLN C 101	4630	5910	4260	-310	50	140	N0
ATOM 7919 CA GLN C 101	-48.110	8.117	16.658	1.00	39.77	C0	
ANISOU 7919 CA GLN C 101	4690	6030	4400	-270	120	190	C0
ATOM 7920 C GLN C 101	-48.989	8.535	15.469	1.00	39.98	C0	
ANISOU 7920 C GLN C 101	4670	6140	4380	-280	100	290	C0
ATOM 7921 O GLN C 101	-48.485	8.570	14.331	1.00	40.75	O0	
ANISOU 7921 O GLN C 101	4780	6290	4410	-290	100	300	O0
ATOM 7922 CB GLN C 101	-46.623	7.970	16.329	1.00	41.77	C0	
ANISOU 7922 CB GLN C 101	4970	6270	4620	-250	150	100	C0
ATOM 7923 CG GLN C 101	-45.744	7.893	17.573	1.00	42.76	C0	
ANISOU 7923 CG GLN C 101	5120	6320	4810	-220	170	10	C0
ATOM 7924 CD GLN C 101	-45.531	9.255	18.198	1.00	44.68	C0	
ANISOU 7924 CD GLN C 101	5320	6520	5140	-200	250	60	C0
ATOM 7925 OE1 GLN C 101	-46.457	9.892	18.709	1.00	43.73	O0	
ANISOU 7925 OE1 GLN C 101	5170	6370	5080	-200	270	120	O0
ATOM 7926 NE2 GLN C 101	-44.296	9.730	18.143	1.00	45.65	N0	
ANISOU 7926 NE2 GLN C 101	5430	6640	5270	-190	300	10	N0
ATOM 7927 H GLN C 101	-48.193	6.101	16.887	1.00	39.02	H0	
ANISOU 7927 H GLN C 101	4690	5920	4220	-320	20	80	H0
ATOM 7928 HA GLN C 101	-48.203	8.803	17.356	1.00	39.73	H0	
ANISOU 7928 HA GLN C 101	4650	5980	4460	-250	160	210	H0
ATOM 7929 HB2 GLN C 101	-46.497	7.159	15.793	1.00	41.83	H0	
ANISOU 7929 HB2 GLN C 101	5020	6310	4560	-260	110	60	H0
ATOM 7930 HB3 GLN C 101	-46.344	8.736	15.785	1.00	41.87	H0	
ANISOU 7930 HB3 GLN C 101	4960	6310	4640	-240	190	140	H0
ATOM 7931 HG2 GLN C 101	-46.166	7.300	18.231	1.00	42.64	H0	
ANISOU 7931 HG2 GLN C 101	5130	6280	4800	-230	140	0	H0
ATOM 7932 HG3 GLN C 101	-44.875	7.506	17.332	1.00	42.92	H0	
ANISOU 7932 HG3 GLN C 101	5160	6350	4790	-200	170	-50	H0
ATOM 7933 HE21 GLN C 101	-44.029	10.335	18.731	1.00	45.20	H0	
ANISOU 7933 HE21 GLN C 101	5360	6540	5270	-190	340	10	H0
ATOM 7934 HE22 GLN C 101	-43.738	9.447	17.517	1.00	45.57	H0	
ANISOU 7934 HE22 GLN C 101	5430	6680	5210	-190	300	-20	H0
ATOM 7935 N LEU C 102	-50.257	8.854	15.750	1.00	39.38	N0	
ANISOU 7935 N LEU C 102	4530	6090	4340	-280	80	370	N0

ATOM 7936 CA LEU C 102	-51.264	9.361	14.780	1.00	39.68	C0	
ANISOU 7936 CA LEU C 102	4510	6210	4350	-280	50	480	C0
ATOM 7937 C LEU C 102	-51.722	10.757	15.219	1.00	39.36	C0	
ANISOU 7937 C LEU C 102	4410	6140	4410	-200	90	560	C0
ATOM 7938 O LEU C 102	-51.960	10.962	16.424	1.00	38.73	O0	
ANISOU 7938 O LEU C 102	4300	6010	4400	-170	130	520	O0
ATOM 7939 CB LEU C 102	-52.456	8.399	14.718	1.00	39.78	C0	
ANISOU 7939 CB LEU C 102	4500	6310	4310	-340	-30	490	C0
ATOM 7940 CG LEU C 102	-52.134	6.942	14.391	1.00	39.97	C0	
ANISOU 7940 CG LEU C 102	4610	6340	4230	-420	-90	410	C0
ATOM 7941 CD1 LEU C 102	-53.402	6.110	14.317	1.00	40.90	C0	
ANISOU 7941 CD1 LEU C 102	4700	6540	4290	-510	-170	430	C0
ATOM 7942 CD2 LEU C 102	-51.363	6.834	13.090	1.00	40.75	C0	
ANISOU 7942 CD2 LEU C 102	4760	6470	4250	-420	-100	400	C0
ATOM 7943 H LEU C 102	-50.590	8.786	16.594	1.00	39.22	H0	
ANISOU 7943 H LEU C 102	4500	6050	4360	-280	90	350	H0
ATOM 7944 HA LEU C 102	-50.843	9.425	13.894	1.00	39.88	H0	
ANISOU 7944 HA LEU C 102	4560	6260	4330	-290	40	490	H0
ATOM 7945 HB2 LEU C 102	-52.915	8.425	15.581	1.00	39.77	H0	
ANISOU 7945 HB2 LEU C 102	4460	6300	4350	-340	-20	480	H0
ATOM 7946 HB3 LEU C 102	-53.082	8.733	14.044	1.00	40.55	H0	
ANISOU 7946 HB3 LEU C 102	4550	6470	4380	-340	-50	560	H0
ATOM 7947 HG LEU C 102	-51.568	6.580	15.117	1.00	39.53	H0	
ANISOU 7947 HG LEU C 102	4600	6220	4200	-420	-70	340	H0
ATOM 7948 HD11 LEU C 102	-53.902	6.205	15.146	1.00	40.70	H0	
ANISOU 7948 HD11 LEU C 102	4640	6520	4310	-510	-150	440	H0
ATOM 7949 HD12 LEU C 102	-53.169	5.174	14.185	1.00	40.79	H0	
ANISOU 7949 HD12 LEU C 102	4770	6510	4220	-560	-210	380	H0
ATOM 7950 HD13 LEU C 102	-53.948	6.415	13.572	1.00	41.39	H0	
ANISOU 7950 HD13 LEU C 102	4720	6680	4320	-510	-190	500	H0
ATOM 7951 HD21 LEU C 102	-51.731	7.459	12.440	1.00	41.11	H0	
ANISOU 7951 HD21 LEU C 102	4760	6570	4290	-410	-100	470	H0
ATOM 7952 HD22 LEU C 102	-51.434	5.928	12.743	1.00	40.89	H0	
ANISOU 7952 HD22 LEU C 102	4830	6510	4200	-470	-150	350	H0
ATOM 7953 HD23 LEU C 102	-50.427	7.046	13.249	1.00	40.24	H0	
ANISOU 7953 HD23 LEU C 102	4720	6360	4210	-390	-50	350	H0
ATOM 7954 N ALA C 103	-51.811	11.686	14.269	1.00	39.72	N0	
ANISOU 7954 N ALA C 103	4450	6200	4450	-170	90	650	N0
ATOM 7955 CA ALA C 103	-52.427	13.019	14.440	1.00	40.51	C0	
ANISOU 7955 CA ALA C 103	4500	6260	4630	-80	110	740	C0
ATOM 7956 C ALA C 103	-53.832	12.977	13.837	1.00	41.16	C0	
ANISOU 7956 C ALA C 103	4500	6460	4680	-50	30	830	C0
ATOM 7957 O ALA C 103	-54.029	12.248	12.851	1.00	41.63	O0	
ANISOU 7957 O ALA C 103	4560	6610	4640	-120	-30	850	O0
ATOM 7958 CB ALA C 103	-51.575	14.078	13.783	1.00	40.95	C0	
ANISOU 7958 CB ALA C 103	4620	6240	4700	-60	140	800	C0
ATOM 7959 H ALA C 103	-51.492	11.562	13.425	1.00	40.07	H0	
ANISOU 7959 H ALA C 103	4520	6270	4430	-190	70	670	H0
ATOM 7960 HA ALA C 103	-52.501	13.216	15.403	1.00	40.12	H0	
ANISOU 7960 HA ALA C 103	4430	6160	4650	-40	140	700	H0
ATOM 7961 HB1 ALA C 103	-51.951	14.956	13.965	1.00	41.46	H0	
ANISOU 7961 HB1 ALA C 103	4670	6260	4820	0	140	850	H0
ATOM 7962 HB2 ALA C 103	-50.671	14.034	14.137	1.00	40.38	H0	
ANISOU 7962 HB2 ALA C 103	4590	6120	4630	-80	180	740	H0

ATOM 7963 HB3 ALA C 103	-51.554	13.929	12.823	1.00	41.36	H0	
ANISOU 7963 HB3 ALA C 103	4680	6350	4680	-90	110	840	H0
ATOM 7964 N ARG C 104	-54.767	13.724	14.419	1.00	41.12	N0	
ANISOU 7964 N ARG C 104	4420	6450	4750	40	30	870	N0
ATOM 7965 CA ARG C 104	-56.099	13.987	13.822	1.00	41.85	C0	
ANISOU 7965 CA ARG C 104	4410	6660	4830	90	-40	960	C0
ATOM 7966 C ARG C 104	-55.979	15.234	12.941	1.00	42.43	C0	
ANISOU 7966 C ARG C 104	4530	6670	4920	180	-60	1070	C0
ATOM 7967 O ARG C 104	-55.515	16.274	13.449	1.00	42.46	O0	
ANISOU 7967 O ARG C 104	4580	6540	5020	250	-10	1080	O0
ATOM 7968 CB ARG C 104	-57.149	14.154	14.921	1.00	42.09	C0	
ANISOU 7968 CB ARG C 104	4320	6740	4930	160	-20	930	C0
ATOM 7969 CG ARG C 104	-58.582	14.021	14.435	1.00	43.36	C0	
ANISOU 7969 CG ARG C 104	4350	7080	5050	190	-100	1000	C0
ATOM 7970 CD ARG C 104	-58.936	12.606	14.025	1.00	42.88	C0	
ANISOU 7970 CD ARG C 104	4260	7150	4880	40	-160	980	C0
ATOM 7971 NE ARG C 104	-60.353	12.498	13.712	1.00	43.98	N0	
ANISOU 7971 NE ARG C 104	4250	7480	4980	50	-230	1030	N0
ATOM 7972 CZ ARG C 104	-60.931	11.445	13.147	1.00	44.44	C0	
ANISOU 7972 CZ ARG C 104	4270	7680	4930	-70	-300	1040	C0
ATOM 7973 NH1 ARG C 104	-60.216	10.380	12.818	1.00	43.63	N0	
ANISOU 7973 NH1 ARG C 104	4280	7550	4750	-220	-310	990	N0
ATOM 7974 NH2 ARG C 104	-62.231	11.468	12.907	1.00	45.96	N0	
ANISOU 7974 NH2 ARG C 104	4300	8060	5100	-60	-360	1090	N0
ATOM 7975 H ARG C 104	-54.642	14.125	15.228	1.00	40.91	H0	
ANISOU 7975 H ARG C 104	4390	6360	4800	80	80	830	H0
ATOM 7976 HA ARG C 104	-56.345	13.220	13.257	1.00	41.90	H0	
ANISOU 7976 HA ARG C 104	4400	6760	4760	20	-80	960	H0
ATOM 7977 HB2 ARG C 104	-56.986	13.479	15.613	1.00	41.39	H0	
ANISOU 7977 HB2 ARG C 104	4240	6660	4830	100	0	860	H0
ATOM 7978 HB3 ARG C 104	-57.036	15.036	15.329	1.00	42.36	H0	
ANISOU 7978 HB3 ARG C 104	4370	6690	5040	250	10	940	H0
ATOM 7979 HG2 ARG C 104	-59.191	14.306	15.149	1.00	43.70	H0	
ANISOU 7979 HG2 ARG C 104	4310	7150	5150	260	-80	980	H0
ATOM 7980 HG3 ARG C 104	-58.719	14.617	13.668	1.00	44.07	H0	
ANISOU 7980 HG3 ARG C 104	4440	7160	5140	250	-140	1080	H0
ATOM 7981 HD2 ARG C 104	-58.408	12.353	13.239	1.00	42.68	H0	
ANISOU 7981 HD2 ARG C 104	4310	7110	4800	-10	-180	990	H0
ATOM 7982 HD3 ARG C 104	-58.714	11.988	14.754	1.00	42.16	H0	
ANISOU 7982 HD3 ARG C 104	4190	7050	4780	-20	-120	900	H0
ATOM 7983 HE ARG C 104	-60.862	13.178	13.909	1.00	44.80	H0	
ANISOU 7983 HE ARG C 104	4280	7600	5140	150	-230	1060	H0
ATOM 7984 HH11 ARG C 104	-59.353	10.360	12.975	1.00	42.78	H0	
ANISOU 7984 HH11 ARG C 104	4270	7330	4660	-220	-270	950	H0
ATOM 7985 HH12 ARG C 104	-60.609	9.689	12.444	1.00	43.93	H0	
ANISOU 7985 HH12 ARG C 104	4310	7670	4710	-300	-360	990	H0
ATOM 7986 HH21 ARG C 104	-62.706	12.177	13.125	1.00	46.63	H0	
ANISOU 7986 HH21 ARG C 104	4310	8170	5240	50	-360	1120	H0
ATOM 7987 HH22 ARG C 104	-62.620	10.778	12.532	1.00	46.23	H0	
ANISOU 7987 HH22 ARG C 104	4310	8190	5060	-150	-410	1100	H0
ATOM 7988 N VAL C 105	-56.345	15.118	11.660	1.00	42.41	N0	
ANISOU 7988 N VAL C 105	4520	6760	4830	150	-140	1160	N0
ATOM 7989 CA VAL C 105	-56.287	16.231	10.669	1.00	43.02	C0	
ANISOU 7989 CA VAL C 105	4650	6790	4900	210	-180	1300	C0

ATOM 7990 C VAL C 105	-57.719	16.552	10.224	1.00	43.89	C0	
ANISOU 7990 C VAL C 105	4650	7010	5010	310	-270	1390	C0
ATOM 7991 O VAL C 105	-58.437	15.624	9.803	1.00	43.20	O0	
ANISOU 7991 O VAL C 105	4480	7090	4840	240	-330	1390	O0
ATOM 7992 CB VAL C 105	-55.366	15.895	9.479	1.00	42.86	C0	
ANISOU 7992 CB VAL C 105	4730	6790	4770	90	-190	1320	C0
ATOM 7993 CG1 VAL C 105	-55.215	17.075	8.533	1.00	44.43	C0	
ANISOU 7993 CG1 VAL C 105	5010	6930	4950	130	-220	1470	C0
ATOM 7994 CG2 VAL C 105	-54.001	15.420	9.940	1.00	41.41	C0	
ANISOU 7994 CG2 VAL C 105	4620	6530	4580	0	-100	1210	C0
ATOM 7995 H VAL C 105	-56.658	14.338	11.309	1.00	42.44	H0	
ANISOU 7995 H VAL C 105	4490	6860	4770	90	-170	1150	H0
ATOM 7996 HA VAL C 105	-55.925	17.015	11.117	1.00	43.05	H0	
ANISOU 7996 HA VAL C 105	4700	6680	4980	270	-140	1300	H0
ATOM 7997 HB VAL C 105	-55.790	15.156	8.976	1.00	43.03	H0	
ANISOU 7997 HB VAL C 105	4710	6920	4710	40	-230	1320	H0
ATOM 7998 HG11 VAL C 105	-56.056	17.231	8.068	1.00	45.32	H0	
ANISOU 7998 HG11 VAL C 105	5070	7110	5040	180	-290	1540	H0
ATOM 7999 HG12 VAL C 105	-54.518	16.884	7.882	1.00	44.26	H0	
ANISOU 7999 HG12 VAL C 105	5050	6920	4850	50	-210	1470	H0
ATOM 8000 HG13 VAL C 105	-54.975	17.870	9.041	1.00	44.48	H0	
ANISOU 8000 HG13 VAL C 105	5050	6810	5040	190	-190	1480	H0
ATOM 8001 HG21 VAL C 105	-53.625	16.067	10.562	1.00	41.26	H0	
ANISOU 8001 HG21 VAL C 105	4630	6410	4640	50	-50	1200	H0
ATOM 8002 HG22 VAL C 105	-53.411	15.328	9.172	1.00	41.57	H0	
ANISOU 8002 HG22 VAL C 105	4700	6570	4520	-60	-100	1230	H0
ATOM 8003 HG23 VAL C 105	-54.089	14.559	10.384	1.00	40.72	H0	
ANISOU 8003 HG23 VAL C 105	4500	6490	4480	-30	-90	1130	H0
ATOM 8004 N VAL C 106	-58.101	17.828	10.339	1.00	45.05	N0	
ANISOU 8004 N VAL C 106	4800	7070	5250	460	-290	1470	N0
ATOM 8005 CA VAL C 106	-59.447	18.375	9.996	1.00	46.91	C0	
ANISOU 8005 CA VAL C 106	4930	7400	5500	600	-390	1560	C0
ATOM 8006 C VAL C 106	-59.374	18.959	8.578	1.00	48.08	C0	
ANISOU 8006 C VAL C 106	5160	7530	5570	600	-480	1710	C0
ATOM 8007 O VAL C 106	-58.266	19.357	8.165	1.00	47.30	O0	
ANISOU 8007 O VAL C 106	5220	7300	5450	530	-440	1750	O0
ATOM 8008 CB VAL C 106	-59.892	19.421	11.038	1.00	47.54	C0	
ANISOU 8008 CB VAL C 106	4970	7370	5720	790	-360	1540	C0
ATOM 8009 CG1 VAL C 106	-61.349	19.817	10.857	1.00	49.51	C0	
ANISOU 8009 CG1 VAL C 106	5070	7750	6000	950	-460	1600	C0
ATOM 8010 CG2 VAL C 106	-59.649	18.934	12.463	1.00	46.35	C0	
ANISOU 8010 CG2 VAL C 106	4780	7200	5630	760	-260	1380	C0
ATOM 8011 H VAL C 106	-57.531	18.472	10.639	1.00	44.97	H0	
ANISOU 8011 H VAL C 106	4870	6930	5290	490	-250	1470	H0
ATOM 8012 HA VAL C 106	-60.088	17.643	9.998	1.00	46.84	H0	
ANISOU 8012 HA VAL C 106	4820	7530	5450	560	-420	1530	H0
ATOM 8013 HB VAL C 106	-59.340	20.229	10.899	1.00	47.94	H0	
ANISOU 8013 HB VAL C 106	5130	7270	5810	820	-360	1580	H0
ATOM 8014 HG11 VAL C 106	-61.445	20.341	10.044	1.00	50.54	H0	
ANISOU 8014 HG11 VAL C 106	5250	7850	6100	1000	-530	1700	H0
ATOM 8015 HG12 VAL C 106	-61.640	20.348	11.619	1.00	49.90	H0	
ANISOU 8015 HG12 VAL C 106	5080	7750	6130	1070	-430	1560	H0
ATOM 8016 HG13 VAL C 106	-61.897	19.016	10.793	1.00	49.35	H0	
ANISOU 8016 HG13 VAL C 106	4940	7890	5920	890	-480	1570	H0

ATOM 8017 HG21 VAL C 106	-59.990	18.028	12.559	1.00	45.81	H0	
ANISOU 8017 HG21 VAL C 106	4630	7260	5510	680	-260	1340	H0
ATOM 8018 HG22 VAL C 106	-60.106	19.521	13.091	1.00	46.94	H0	
ANISOU 8018 HG22 VAL C 106	4800	7240	5790	880	-250	1360	H0
ATOM 8019 HG23 VAL C 106	-58.694	18.943	12.652	1.00	45.35	H0	
ANISOU 8019 HG23 VAL C 106	4750	6960	5510	690	-200	1350	H0
ATOM 8020 N SER C 107	-60.510	19.009	7.872	1.00	49.81	N0	
ANISOU 8020 N SER C 107	5280	7890	5750	670	-590	1810	N0
ATOM 8021 CA SER C 107	-60.617	19.406	6.439	1.00	51.76	C0	
ANISOU 8021 CA SER C 107	5590	8170	5900	660	-700	1960	C0
ATOM 8022 C SER C 107	-60.144	20.853	6.223	1.00	53.39	C0	
ANISOU 8022 C SER C 107	5950	8160	6170	770	-720	2070	C0
ATOM 8023 O SER C 107	-59.729	21.160	5.097	1.00	54.41	O0	
ANISOU 8023 O SER C 107	6200	8270	6200	700	-770	2190	O0
ATOM 8024 CB SER C 107	-62.015	19.190	5.916	1.00	53.02	C0	
ANISOU 8024 CB SER C 107	5590	8540	6020	730	-820	2030	C0
ATOM 8025 OG SER C 107	-62.959	19.960	6.639	1.00	54.21	O0	
ANISOU 8025 OG SER C 107	5630	8680	6290	950	-850	2030	O0
ATOM 8026 H SER C 107	-61.320	18.792	8.228	1.00	50.24	H0	
ANISOU 8026 H SER C 107	5210	8050	5830	730	-610	1780	H0
ATOM 8027 HA SER C 107	-60.009	18.815	5.924	1.00	51.01	H0	
ANISOU 8027 HA SER C 107	5560	8110	5720	520	-680	1950	H0
ATOM 8028 HB2 SER C 107	-62.049	19.439	4.966	1.00	54.05	H0	
ANISOU 8028 HB2 SER C 107	5770	8690	6080	720	-890	2130	H0
ATOM 8029 HB3 SER C 107	-62.246	18.236	5.990	1.00	52.41	H0	
ANISOU 8029 HB3 SER C 107	5430	8590	5890	640	-810	1960	H0
ATOM 8030 N ASP C 108	-60.176	21.699	7.261	1.00	54.00	N0	
ANISOU 8030 N ASP C 108	6050	8080	6390	910	-670	2030	N0
ATOM 8031 CA ASP C 108	-59.689	23.109	7.221	1.00	55.33	C0	
ANISOU 8031 CA ASP C 108	6390	8000	6630	1010	-690	2120	C0
ATOM 8032 C ASP C 108	-58.163	23.162	7.414	1.00	54.20	C0	
ANISOU 8032 C ASP C 108	6410	7710	6480	840	-580	2070	C0
ATOM 8033 O ASP C 108	-57.612	24.274	7.419	1.00	54.80	O0	
ANISOU 8033 O ASP C 108	6640	7580	6600	880	-580	2140	O0
ATOM 8034 CB ASP C 108	-60.402	23.964	8.275	1.00	56.49	C0	
ANISOU 8034 CB ASP C 108	6480	8050	6930	1240	-690	2070	C0
ATOM 8035 CG ASP C 108	-60.027	23.639	9.718	1.00	54.82	C0	
ANISOU 8035 CG ASP C 108	6220	7800	6810	1230	-560	1890	C0
ATOM 8036 OD1 ASP C 108	-59.385	22.595	9.946	1.00	52.32	O0	
ANISOU 8036 OD1 ASP C 108	5880	7560	6440	1050	-470	1800	O0
ATOM 8037 OD2 ASP C 108	-60.381	24.439	10.607	1.00	56.16	O0	
ANISOU 8037 OD2 ASP C 108	6380	7850	7100	1400	-540	1850	O0
ATOM 8038 H ASP C 108	-60.522	21.462	8.068	1.00	53.47	H0	
ANISOU 8038 H ASP C 108	5890	8050	6380	960	-640	1940	H0
ATOM 8039 HA ASP C 108	-59.902	23.480	6.333	1.00	56.65	H0	
ANISOU 8039 HA ASP C 108	6600	8180	6740	1020	-780	2240	H0
ATOM 8040 HB2 ASP C 108	-60.193	24.907	8.111	1.00	57.53	H0	
ANISOU 8040 HB2 ASP C 108	6740	8020	7100	1310	-730	2140	H0
ATOM 8041 HB3 ASP C 108	-61.369	23.846	8.177	1.00	57.32	H0	
ANISOU 8041 HB3 ASP C 108	6460	8280	7040	1340	-760	2090	H0
ATOM 8042 N GLY C 109	-57.508	22.013	7.616	1.00	52.83	N0	
ANISOU 8042 N GLY C 109	6190	7640	6240	680	-490	1960	N0
ATOM 8043 CA GLY C 109	-56.040	21.910	7.725	1.00	51.97	C0	
ANISOU 8043 CA GLY C 109	6210	7430	6110	520	-390	1900	C0

ATOM 8044 C GLY C 109	-55.548	21.894	9.164	1.00	51.01	C0
ANISOU 8044 C GLY C 109	6080	7210	6100	530	-280 1760	C0
ATOM 8045 O GLY C 109	-54.321	21.804	9.348	1.00	49.81	O0
ANISOU 8045 O GLY C 109	6010	6990	5930	410	-190 1700	O0
ATOM 8046 H GLY C 109	-57.936	21.219	7.713	1.00	52.22	H0
ANISOU 8046 H GLY C 109	6010	7690	6140	650	-490 1900	H0
ATOM 8047 HA2 GLY C 109	-55.745	21.080	7.273	1.00	51.25	H0
ANISOU 8047 HA2 GLY C 109	6090	7460	5920	400	-370 1870	H0
ATOM 8048 HA3 GLY C 109	-55.628	22.674	7.249	1.00	52.85	H0
ANISOU 8048 HA3 GLY C 109	6440	7440	6200	500	-410 1990	H0
ATOM 8049 N GLU C 110	-56.444	21.974	10.156	1.00	51.90	N0
ANISOU 8049 N GLU C 110	6080	7330	6310	680	-280 1690	N0
ATOM 8050 CA GLU C 110	-56.064	21.916	11.596	1.00	51.54	C0
ANISOU 8050 CA GLU C 110	6020	7200	6370	700	-170 1540	C0
ATOM 8051 C GLU C 110	-55.495	20.525	11.894	1.00	49.09	C0
ANISOU 8051 C GLU C 110	5650	7010	5990	540	-110 1420	C0
ATOM 8052 O GLU C 110	-56.120	19.540	11.480	1.00	48.88	O0
ANISOU 8052 O GLU C 110	5520	7160	5890	500	-150 1420	O0
ATOM 8053 CB GLU C 110	-57.242	22.217	12.527	1.00	53.30	C0
ANISOU 8053 CB GLU C 110	6120	7440	6690	880	-190 1490	C0
ATOM 8054 CG GLU C 110	-56.793	22.623	13.925	1.00	53.79	C0
ANISOU 8054 CG GLU C 110	6210	7370	6860	930	-90 1370	C0
ATOM 8055 CD GLU C 110	-57.775	22.410	15.068	1.00	54.86	C0
ANISOU 8055 CD GLU C 110	6190	7590	7060	1050	-60 1260	C0
ATOM 8056 OE1 GLU C 110	-57.315	22.373	16.230	1.00	55.32	O0
ANISOU 8056 OE1 GLU C 110	6260	7580	7180	1030	30 1150	O0
ATOM 8057 OE2 GLU C 110	-58.989	22.285	14.809	1.00	56.45	O0
ANISOU 8057 OE2 GLU C 110	6250	7940	7260	1150	-130 1300	O0
ATOM 8058 H GLU C 110	-57.338	22.066	10.012	1.00	52.77	H0
ANISOU 8058 H GLU C 110	6120	7500	6430	780	-340 1730	H0
ATOM 8059 HA GLU C 110	-55.359	22.585	11.754	1.00	51.59	H0
ANISOU 8059 HA GLU C 110	6130	7060	6410	680	-140 1550	H0
ATOM 8060 HB2 GLU C 110	-57.777	22.940	12.139	1.00	54.74	H0
ANISOU 8060 HB2 GLU C 110	6310	7590	6900	1000	-250 1580	H0
ATOM 8061 HB3 GLU C 110	-57.808	21.419	12.590	1.00	52.92	H0
ANISOU 8061 HB3 GLU C 110	5950	7550	6610	870	-200 1460	H0
ATOM 8062 HG2 GLU C 110	-55.972	22.131	14.141	1.00	52.49	H0
ANISOU 8062 HG2 GLU C 110	6080	7190	6670	800	-30 1310	H0
ATOM 8063 HG3 GLU C 110	-56.558	23.575	13.906	1.00	54.63	H0
ANISOU 8063 HG3 GLU C 110	6420	7320	7020	990	-100 1410	H0
ATOM 8064 N VAL C 111	-54.342	20.459	12.562	1.00	47.81	N0
ANISOU 8064 N VAL C 111	5560	6750	5850	460	-10 1330	N0
ATOM 8065 CA VAL C 111	-53.695	19.187	13.002	1.00	45.93	C0
ANISOU 8065 CA VAL C 111	5290	6600	5570	330	50 1210	C0
ATOM 8066 C VAL C 111	-53.742	19.126	14.532	1.00	45.18	C0
ANISOU 8066 C VAL C 111	5150	6450	5570	380	110 1090	C0
ATOM 8067 O VAL C 111	-53.298	20.097	15.174	1.00	44.97	O0
ANISOU 8067 O VAL C 111	5200	6270	5630	430	160 1070	O0
ATOM 8068 CB VAL C 111	-52.253	19.064	12.474	1.00	45.14	C0
ANISOU 8068 CB VAL C 111	5290	6460	5400	190	90 1200	C0
ATOM 8069 CG1 VAL C 111	-51.552	17.841	13.041	1.00	43.63	C0
ANISOU 8069 CG1 VAL C 111	5070	6330	5170	100	150 1060	C0
ATOM 8070 CG2 VAL C 111	-52.211	19.046	10.953	1.00	45.91	C0
ANISOU 8070 CG2 VAL C 111	5430	6640	5380	130	30 1310	C0

ATOM 8071 H VAL C 111	-53.869	21.202	12.795	1.00	48.08	H0	
ANISOU 8071 H VAL C 111	5680	6660	5930	470	10	1340	H0
ATOM 8072 HA VAL C 111	-54.213	18.443	12.649	1.00	45.82	H0	
ANISOU 8072 HA VAL C 111	5210	6700	5500	310	10	1210	H0
ATOM 8073 HB VAL C 111	-51.757	19.863	12.780	1.00	45.44	H0	
ANISOU 8073 HB VAL C 111	5400	6380	5490	200	130	1210	H0
ATOM 8074 HG11 VAL C 111	-51.247	18.029	13.945	1.00	43.13	H0	
ANISOU 8074 HG11 VAL C 111	5020	6200	5180	120	200	1000	H0
ATOM 8075 HG12 VAL C 111	-50.787	17.615	12.483	1.00	43.44	H0	
ANISOU 8075 HG12 VAL C 111	5090	6330	5090	20	160	1060	H0
ATOM 8076 HG13 VAL C 111	-52.172	17.091	13.058	1.00	43.36	H0	
ANISOU 8076 HG13 VAL C 111	4970	6390	5110	100	120	1040	H0
ATOM 8077 HG21 VAL C 111	-52.722	18.287	10.623	1.00	45.78	H0	
ANISOU 8077 HG21 VAL C 111	5350	6740	5310	120	0	1310	H0
ATOM 8078 HG22 VAL C 111	-51.288	18.969	10.654	1.00	45.66	H0	
ANISOU 8078 HG22 VAL C 111	5450	6600	5300	40	70	1300	H0
ATOM 8079 HG23 VAL C 111	-52.594	19.870	10.607	1.00	47.05	H0	
ANISOU 8079 HG23 VAL C 111	5610	6730	5550	190	-10	1410	H0
ATOM 8080 N LEU C 112	-54.273	18.026	15.076	1.00	44.80	N0	
ANISOU 8080 N LEU C 112	5000	6520	5500	360	120	1010	N0
ATOM 8081 CA LEU C 112	-54.316	17.722	16.530	1.00	44.65	C0	
ANISOU 8081 CA LEU C 112	4940	6490	5540	370	180	890	C0
ATOM 8082 C LEU C 112	-53.351	16.569	16.802	1.00	42.96	C0	
ANISOU 8082 C LEU C 112	4760	6300	5270	230	220	790	C0
ATOM 8083 O LEU C 112	-53.701	15.429	16.466	1.00	43.35	O0	
ANISOU 8083 O LEU C 112	4760	6470	5240	160	180	780	O0
ATOM 8084 CB LEU C 112	-55.736	17.313	16.944	1.00	45.80	C0	
ANISOU 8084 CB LEU C 112	4940	6780	5690	430	150	880	C0
ATOM 8085 CG LEU C 112	-56.821	18.388	16.896	1.00	48.18	C0	
ANISOU 8085 CG LEU C 112	5170	7080	6060	600	110	940	C0
ATOM 8086 CD1 LEU C 112	-56.394	19.628	17.657	1.00	49.25	C0	
ANISOU 8086 CD1 LEU C 112	5380	7030	6300	710	170	910	C0
ATOM 8087 CD2 LEU C 112	-57.202	18.740	15.464	1.00	49.38	C0	
ANISOU 8087 CD2 LEU C 112	5330	7270	6160	630	20	1080	C0
ATOM 8088 H LEU C 112	-54.654	17.374	14.567	1.00	44.86	H0	
ANISOU 8088 H LEU C 112	4960	6640	5440	320	80	1030	H0
ATOM 8089 HA LEU C 112	-54.028	18.515	17.037	1.00	44.81	H0	
ANISOU 8089 HA LEU C 112	5000	6400	5630	420	220	870	H0
ATOM 8090 HB2 LEU C 112	-56.016	16.575	16.368	1.00	45.73	H0	
ANISOU 8090 HB2 LEU C 112	4890	6870	5610	370	110	900	H0
ATOM 8091 HB3 LEU C 112	-55.694	16.966	17.857	1.00	45.23	H0	
ANISOU 8091 HB3 LEU C 112	4840	6710	5640	410	190	800	H0
ATOM 8092 HG LEU C 112	-57.626	18.024	17.340	1.00	48.40	H0	
ANISOU 8092 HG LEU C 112	5090	7210	6080	620	110	910	H0
ATOM 8093 HD11 LEU C 112	-55.993	19.366	18.504	1.00	48.23	H0	
ANISOU 8093 HD11 LEU C 112	5260	6870	6190	670	220	820	H0
ATOM 8094 HD12 LEU C 112	-57.171	20.189	17.827	1.00	50.11	H0	
ANISOU 8094 HD12 LEU C 112	5440	7150	6460	830	150	920	H0
ATOM 8095 HD13 LEU C 112	-55.744	20.127	17.132	1.00	49.16	H0	
ANISOU 8095 HD13 LEU C 112	5470	6910	6290	690	160	960	H0
ATOM 8096 HD21 LEU C 112	-56.556	19.369	15.100	1.00	49.52	H0	
ANISOU 8096 HD21 LEU C 112	5450	7170	6200	640	30	1120	H0
ATOM 8097 HD22 LEU C 112	-58.087	19.144	15.455	1.00	50.44	H0	
ANISOU 8097 HD22 LEU C 112	5390	7450	6330	740	-10	1110	H0

ATOM 8098 HD23 LEU C 112	-57.209	17.932	14.921	1.00	48.95		H0
ANISOU 8098 HD23 LEU C 112	5260	7310	6030	540	0	1090	H0
ATOM 8099 N TYR C 113	-52.190	16.846	17.393	1.00	42.15		N0
ANISOU 8099 N TYR C 113	4730	6080	5200	200	280	730	N0
ATOM 8100 CA TYR C 113	-51.216	15.805	17.810	1.00	40.98		C0
ANISOU 8100 CA TYR C 113	4620	5950	5010	100	310	630	C0
ATOM 8101 C TYR C 113	-51.117	15.827	19.340	1.00	40.21		C0
ANISOU 8101 C TYR C 113	4510	5790	4980	120	360	530	C0
ATOM 8102 O TYR C 113	-50.591	16.802	19.903	1.00	39.79		O0
ANISOU 8102 O TYR C 113	4500	5620	4990	150	410	510	O0
ATOM 8103 CB TYR C 113	-49.877	15.996	17.091	1.00	41.05		C0
ANISOU 8103 CB TYR C 113	4710	5910	4980	30	330	640	C0
ATOM 8104 CG TYR C 113	-48.827	14.994	17.496	1.00	40.63		C0
ANISOU 8104 CG TYR C 113	4680	5880	4880	-40	360	520	C0
ATOM 8105 CD1 TYR C 113	-49.089	13.631	17.476	1.00	40.53		C0
ANISOU 8105 CD1 TYR C 113	4640	5950	4810	-80	310	470	C0
ATOM 8106 CD2 TYR C 113	-47.576	15.410	17.923	1.00	40.71		C0
ANISOU 8106 CD2 TYR C 113	4730	5810	4920	-80	410	470	C0
ATOM 8107 CE1 TYR C 113	-48.133	12.707	17.870	1.00	40.29		C0
ANISOU 8107 CE1 TYR C 113	4640	5920	4740	-130	320	370	C0
ATOM 8108 CE2 TYR C 113	-46.612	14.500	18.323	1.00	40.25		C0
ANISOU 8108 CE2 TYR C 113	4690	5780	4830	-120	420	360	C0
ATOM 8109 CZ TYR C 113	-46.889	13.145	18.295	1.00	40.12		C0
ANISOU 8109 CZ TYR C 113	4650	5840	4750	-140	380	310	C0
ATOM 8110 OH TYR C 113	-45.926	12.258	18.685	1.00	40.47		O0
ANISOU 8110 OH TYR C 113	4720	5890	4770	-170	370	210	O0
ATOM 8111 H TYR C 113	-51.908	17.691	17.584	1.00	42.55		H0
ANISOU 8111 H TYR C 113	4830	6040	5300	240	300	740	H0
ATOM 8112 HA TYR C 113	-51.578	14.924	17.544	1.00	40.78		H0
ANISOU 8112 HA TYR C 113	4560	6010	4930	60	270	620	H0
ATOM 8113 HB2 TYR C 113	-50.028	15.927	16.125	1.00	41.58		H0
ANISOU 8113 HB2 TYR C 113	4780	6030	4990	10	300	700	H0
ATOM 8114 HB3 TYR C 113	-49.547	16.900	17.280	1.00	41.49		H0
ANISOU 8114 HB3 TYR C 113	4800	5880	5080	50	360	650	H0
ATOM 8115 HD1 TYR C 113	-49.935	13.326	17.194	1.00	40.84		H0
ANISOU 8115 HD1 TYR C 113	4650	6050	4820	-80	270	510	H0
ATOM 8116 HD2 TYR C 113	-47.380	16.332	17.953	1.00	41.17		H0
ANISOU 8116 HD2 TYR C 113	4820	5800	5020	-60	440	500	H0
ATOM 8117 HE1 TYR C 113	-48.327	11.785	17.848	1.00	39.93		H0
ANISOU 8117 HE1 TYR C 113	4600	5920	4650	-150	290	340	H0
ATOM 8118 HE2 TYR C 113	-45.765	14.802	18.608	1.00	40.13		H0
ANISOU 8118 HE2 TYR C 113	4690	5730	4830	-140	460	330	H0
ATOM 8119 N MET C 114	-51.641	14.785	19.988	1.00	40.30		N0
ANISOU 8119 N MET C 114	4470	5880	4960	80	350	480	N0
ATOM 8120 CA MET C 114	-51.833	14.735	21.463	1.00	40.93		C0
ANISOU 8120 CA MET C 114	4520	5940	5080	100	390	390	C0
ATOM 8121 C MET C 114	-51.205	13.456	22.009	1.00	38.01		C0
ANISOU 8121 C MET C 114	4190	5590	4660	0	390	310	C0
ATOM 8122 O MET C 114	-51.897	12.595	22.535	1.00	37.38		O0
ANISOU 8122 O MET C 114	4070	5590	4540	-50	360	290	O0
ATOM 8123 CB MET C 114	-53.322	14.787	21.832	1.00	43.31		C0
ANISOU 8123 CB MET C 114	4720	6340	5400	150	380	410	C0
ATOM 8124 CG MET C 114	-54.183	15.612	20.877	1.00	47.05		C0
ANISOU 8124 CG MET C 114	5130	6850	5890	250	350	510	C0

ATOM 8125 SD MET C 114	-53.941	17.421	20.946	1.00	50.87	S0	
ANISOU 8125 SD MET C 114	5670	7170	6490	390	380	550	S0
ATOM 8126 CE MET C 114	-55.245	17.893	22.080	1.00	51.12	C0	
ANISOU 8126 CE MET C 114	5580	7260	6580	510	410	500	C0
ATOM 8127 H MET C 114	-51.916	14.030	19.559	1.00	40.28	H0	
ANISOU 8127 H MET C 114	4450	5960	4900	40	310	480	H0
ATOM 8128 HA MET C 114	-51.372	15.507	21.865	1.00	40.71	H0	
ANISOU 8128 HA MET C 114	4530	5830	5110	130	430	380	H0
ATOM 8129 HB2 MET C 114	-53.670	13.876	21.858	1.00	43.26	H0	
ANISOU 8129 HB2 MET C 114	4680	6420	5340	90	350	400	H0
ATOM 8130 HB3 MET C 114	-53.405	15.159	22.732	1.00	43.57	H0	
ANISOU 8130 HB3 MET C 114	4740	6350	5470	190	420	370	H0
ATOM 8131 HG2 MET C 114	-54.011	15.314	19.959	1.00	47.01	H0	
ANISOU 8131 HG2 MET C 114	5150	6870	5840	210	310	560	H0
ATOM 8132 HG3 MET C 114	-55.126	15.424	21.071	1.00	47.55	H0	
ANISOU 8132 HG3 MET C 114	5110	7010	5950	270	330	520	H0
ATOM 8133 HE1 MET C 114	-55.363	18.850	22.053	1.00	52.17	H0	
ANISOU 8133 HE1 MET C 114	5740	7320	6770	610	420	510	H0
ATOM 8134 HE2 MET C 114	-56.066	17.459	21.823	1.00	51.76	H0	
ANISOU 8134 HE2 MET C 114	5580	7470	6620	520	380	520	H0
ATOM 8135 HE3 MET C 114	-55.005	17.623	22.974	1.00	50.83	H0	
ANISOU 8135 HE3 MET C 114	5550	7220	6540	480	460	420	H0
ATOM 8136 N PRO C 115	-49.870	13.285	21.907	1.00	36.54	N0	
ANISOU 8136 N PRO C 115	4080	5340	4460	-40	400	270	N0
ATOM 8137 CA PRO C 115	-49.203	12.108	22.458	1.00	35.95	C0	
ANISOU 8137 CA PRO C 115	4050	5270	4340	-110	380	180	C0
ATOM 8138 C PRO C 115	-49.210	12.098	23.992	1.00	35.71	C0	
ANISOU 8138 C PRO C 115	4020	5200	4340	-110	410	120	C0
ATOM 8139 O PRO C 115	-49.126	13.159	24.585	1.00	34.52	O0	
ANISOU 8139 O PRO C 115	3860	4990	4260	-60	470	110	O0
ATOM 8140 CB PRO C 115	-47.760	12.254	21.966	1.00	35.44	C0	
ANISOU 8140 CB PRO C 115	4040	5160	4270	-120	390	150	C0
ATOM 8141 CG PRO C 115	-47.584	13.745	21.840	1.00	36.20	C0	
ANISOU 8141 CG PRO C 115	4130	5190	4430	-70	450	200	C0
ATOM 8142 CD PRO C 115	-48.916	14.222	21.294	1.00	37.34	C0	
ANISOU 8142 CD PRO C 115	4230	5370	4590	-20	430	290	C0
ATOM 8143 HA PRO C 115	-49.608	11.282	22.094	1.00	35.91	H0	
ANISOU 8143 HA PRO C 115	4040	5320	4280	-140	330	190	H0
ATOM 8144 HB2 PRO C 115	-47.124	11.878	22.612	1.00	35.14	H0	
ANISOU 8144 HB2 PRO C 115	4030	5090	4230	-130	400	90	H0
ATOM 8145 HB3 PRO C 115	-47.635	11.811	21.100	1.00	35.62	H0	
ANISOU 8145 HB3 PRO C 115	4070	5220	4240	-130	360	170	H0
ATOM 8146 HG2 PRO C 115	-47.397	14.151	22.711	1.00	36.13	H0	
ANISOU 8146 HG2 PRO C 115	4130	5130	4470	-60	480	160	H0
ATOM 8147 HG3 PRO C 115	-46.855	13.962	21.223	1.00	36.30	H0	
ANISOU 8147 HG3 PRO C 115	4170	5190	4430	-90	450	210	H0
ATOM 8148 HD2 PRO C 115	-49.100	15.140	21.563	1.00	37.54	H0	
ANISOU 8148 HD2 PRO C 115	4250	5340	4670	20	460	310	H0
ATOM 8149 HD3 PRO C 115	-48.941	14.162	20.321	1.00	37.36	H0	
ANISOU 8149 HD3 PRO C 115	4230	5410	4560	-30	400	340	H0
ATOM 8150 N SER C 116	-49.314	10.908	24.581	1.00	36.03	N0	
ANISOU 8150 N SER C 116	4090	5270	4330	-180	370	70	N0
ATOM 8151 CA SER C 116	-49.045	10.653	26.020	1.00	36.58	C0	
ANISOU 8151 CA SER C 116	4190	5310	4400	-200	390	0	C0

ATOM 8152 C SER C 116	-47.562	10.297	26.175	1.00	36.21	C0	
ANISOU 8152 C SER C 116	4220	5190	4350	-210	370	-70	C0
ATOM 8153 O SER C 116	-47.102	9.343	25.512	1.00	35.63	O0	
ANISOU 8153 O SER C 116	4190	5130	4220	-230	310	-80	O0
ATOM 8154 CB SER C 116	-49.938	9.577	26.569	1.00	37.03	C0	
ANISOU 8154 CB SER C 116	4250	5430	4400	-280	340	0	C0
ATOM 8155 OG SER C 116	-49.759	9.448	27.972	1.00	37.57	O0	
ANISOU 8155 OG SER C 116	4340	5470	4460	-310	370	-60	O0
ATOM 8156 H SER C 116	-49.559	10.152	24.136	1.00	36.09	H0	
ANISOU 8156 H SER C 116	4110	5320	4290	-210	320	80	H0
ATOM 8157 HA SER C 116	-49.221	11.493	26.522	1.00	36.71	H0	
ANISOU 8157 HA SER C 116	4170	5300	4470	-170	440	0	H0
ATOM 8158 HB2 SER C 116	-50.877	9.800	26.376	1.00	37.58	H0	
ANISOU 8158 HB2 SER C 116	4250	5560	4460	-280	350	40	H0
ATOM 8159 HB3 SER C 116	-49.729	8.721	26.130	1.00	36.98	H0	
ANISOU 8159 HB3 SER C 116	4290	5420	4340	-320	290	0	H0
ATOM 8160 N ILE C 117	-46.845	11.064	26.996	1.00	36.57	N0	
ANISOU 8160 N ILE C 117	4270	5180	4450	-190	430	-110	N0
ATOM 8161 CA ILE C 117	-45.367	10.980	27.168	1.00	36.73	C0	
ANISOU 8161 CA ILE C 117	4340	5150	4470	-190	420	-180	C0
ATOM 8162 C ILE C 117	-45.038	10.733	28.644	1.00	37.03	C0	
ANISOU 8162 C ILE C 117	4410	5160	4500	-220	420	-250	C0
ATOM 8163 O ILE C 117	-45.583	11.446	29.514	1.00	36.17	O0	
ANISOU 8163 O ILE C 117	4280	5030	4430	-210	470	-250	O0
ATOM 8164 CB ILE C 117	-44.694	12.257	26.634	1.00	37.50	C0	
ANISOU 8164 CB ILE C 117	4410	5210	4620	-160	480	-170	C0
ATOM 8165 CG1 ILE C 117	-44.906	12.410	25.123	1.00	38.38	C0	
ANISOU 8165 CG1 ILE C 117	4500	5360	4720	-150	470	-90	C0
ATOM 8166 CG2 ILE C 117	-43.219	12.277	26.997	1.00	38.11	C0	
ANISOU 8166 CG2 ILE C 117	4510	5270	4700	-170	490	-240	C0
ATOM 8167 CD1 ILE C 117	-44.405	13.716	24.552	1.00	38.94	C0	
ANISOU 8167 CD1 ILE C 117	4570	5390	4830	-140	530	-60	C0
ATOM 8168 H ILE C 117	-47.227	11.704	27.520	1.00	36.78	H0	
ANISOU 8168 H ILE C 117	4270	5190	4510	-170	470	-110	H0
ATOM 8169 HA ILE C 117	-45.040	10.225	26.649	1.00	36.71	H0	
ANISOU 8169 HA ILE C 117	4360	5170	4430	-200	380	-190	H0
ATOM 8170 HB ILE C 117	-45.125	13.030	27.076	1.00	37.89	H0	
ANISOU 8170 HB ILE C 117	4450	5230	4710	-150	520	-150	H0
ATOM 8171 HG12 ILE C 117	-44.449	11.672	24.667	1.00	38.11	H0	
ANISOU 8171 HG12 ILE C 117	4480	5360	4640	-160	440	-110	H0
ATOM 8172 HG13 ILE C 117	-45.865	12.333	24.931	1.00	38.42	H0	
ANISOU 8172 HG13 ILE C 117	4490	5390	4720	-140	460	-50	H0
ATOM 8173 HG21 ILE C 117	-43.121	12.389	27.958	1.00	37.80	H0	
ANISOU 8173 HG21 ILE C 117	4490	5200	4680	-180	500	-280	H0
ATOM 8174 HG22 ILE C 117	-42.778	13.015	26.543	1.00	38.11	H0	
ANISOU 8174 HG22 ILE C 117	4500	5260	4720	-170	520	-230	H0
ATOM 8175 HG23 ILE C 117	-42.805	11.438	26.727	1.00	37.71	H0	
ANISOU 8175 HG23 ILE C 117	4480	5250	4610	-180	440	-270	H0
ATOM 8176 HD11 ILE C 117	-44.621	14.443	25.162	1.00	39.09	H0	
ANISOU 8176 HD11 ILE C 117	4590	5360	4900	-120	560	-60	H0
ATOM 8177 HD12 ILE C 117	-44.828	13.879	23.692	1.00	39.18	H0	
ANISOU 8177 HD12 ILE C 117	4590	5450	4850	-130	520	0	H0
ATOM 8178 HD13 ILE C 117	-43.440	13.670	24.433	1.00	38.83	H0	
ANISOU 8178 HD13 ILE C 117	4560	5390	4800	-160	530	-90	H0

ATOM 8179 N ARG C 118	-44.170	9.754	28.901	1.00	37.41	N0	
ANISOU 8179 N ARG C 118	4510	5190	4510	-230	360	-300	N0
ATOM 8180 CA ARG C 118	-43.433	9.615	30.179	1.00	37.09	C0	
ANISOU 8180 CA ARG C 118	4510	5120	4460	-240	350	-370	C0
ATOM 8181 C ARG C 118	-42.051	10.237	29.975	1.00	36.86	C0	
ANISOU 8181 C ARG C 118	4460	5080	4470	-210	370	-420	C0
ATOM 8182 O ARG C 118	-41.378	9.871	28.994	1.00	36.65	O0	
ANISOU 8182 O ARG C 118	4420	5080	4420	-190	340	-430	O0
ATOM 8183 CB ARG C 118	-43.325	8.152	30.606	1.00	38.13	C0	
ANISOU 8183 CB ARG C 118	4720	5240	4520	-270	250	-390	C0
ATOM 8184 CG ARG C 118	-42.548	7.954	31.899	1.00	38.85	C0	
ANISOU 8184 CG ARG C 118	4860	5300	4600	-280	220	-460	C0
ATOM 8185 CD ARG C 118	-42.563	6.510	32.348	1.00	40.00	C0	
ANISOU 8185 CD ARG C 118	5110	5410	4670	-310	110	-460	C0
ATOM 8186 NE ARG C 118	-41.863	6.352	33.617	1.00	41.70	N0	
ANISOU 8186 NE ARG C 118	5380	5600	4870	-320	70	-510	N0
ATOM 8187 CZ ARG C 118	-42.037	5.347	34.476	1.00	42.23	C0	
ANISOU 8187 CZ ARG C 118	5550	5630	4860	-370	-20	-510	C0
ATOM 8188 NH1 ARG C 118	-42.901	4.378	34.221	1.00	42.71	N0	
ANISOU 8188 NH1 ARG C 118	5680	5680	4870	-420	-80	-460	N0
ATOM 8189 NH2 ARG C 118	-41.347	5.322	35.601	1.00	42.53	N0	
ANISOU 8189 NH2 ARG C 118	5630	5650	4880	-380	-50	-550	N0
ATOM 8190 H ARG C 118	-43.977	9.100	28.297	1.00	37.17	H0	
ANISOU 8190 H ARG C 118	4500	5180	4450	-220	310	-300	H0
ATOM 8191 HA ARG C 118	-43.912	10.116	30.874	1.00	37.38	H0	
ANISOU 8191 HA ARG C 118	4530	5150	4520	-260	390	-370	H0
ATOM 8192 HB2 ARG C 118	-44.229	7.791	30.720	1.00	38.15	H0	
ANISOU 8192 HB2 ARG C 118	4740	5260	4500	-310	230	-360	H0
ATOM 8193 HB3 ARG C 118	-42.886	7.648	29.891	1.00	38.04	H0	
ANISOU 8193 HB3 ARG C 118	4730	5230	4490	-240	200	-400	H0
ATOM 8194 HG2 ARG C 118	-41.618	8.237	31.768	1.00	38.87	H0	
ANISOU 8194 HG2 ARG C 118	4850	5300	4620	-250	220	-500	H0
ATOM 8195 HG3 ARG C 118	-42.939	8.513	32.603	1.00	38.96	H0	
ANISOU 8195 HG3 ARG C 118	4860	5310	4630	-310	270	-450	H0
ATOM 8196 HD2 ARG C 118	-43.493	6.215	32.447	1.00	40.25	H0	
ANISOU 8196 HD2 ARG C 118	5160	5460	4670	-360	100	-420	H0
ATOM 8197 HD3 ARG C 118	-42.135	5.950	31.667	1.00	40.18	H0	
ANISOU 8197 HD3 ARG C 118	5160	5430	4680	-270	50	-480	H0
ATOM 8198 HE ARG C 118	-41.284	6.965	33.833	1.00	41.33	H0	
ANISOU 8198 HE ARG C 118	5290	5560	4850	-300	100	-550	H0
ATOM 8199 HH11 ARG C 118	-43.369	4.384	33.479	1.00	42.49	H0	
ANISOU 8199 HH11 ARG C 118	5630	5670	4850	-420	-60	-430	H0
ATOM 8200 HH12 ARG C 118	-43.005	3.723	34.799	1.00	42.95	H0	
ANISOU 8200 HH12 ARG C 118	5790	5680	4850	-470	-140	-450	H0
ATOM 8201 HH21 ARG C 118	-40.768	5.961	35.777	1.00	42.38	H0	
ANISOU 8201 HH21 ARG C 118	5560	5650	4900	-350	-10	-590	H0
ATOM 8202 HH22 ARG C 118	-41.457	4.658	36.170	1.00	42.81	H0	
ANISOU 8202 HH22 ARG C 118	5740	5660	4870	-410	-110	-540	H0
ATOM 8203 N GLN C 119	-41.666	11.151	30.866	1.00	36.06	N0	
ANISOU 8203 N GLN C 119	4350	4950	4410	-230	420	-450	N0
ATOM 8204 CA GLN C 119	-40.406	11.923	30.779	1.00	35.59	C0	
ANISOU 8204 CA GLN C 119	4260	4880	4380	-230	460	-500	C0
ATOM 8205 C GLN C 119	-39.980	12.389	32.177	1.00	36.12	C0	
ANISOU 8205 C GLN C 119	4350	4920	4460	-260	470	-560	C0

ATOM 8206 O GLN C 119	-40.866	12.731	32.991	1.00	35.63	O0	
ANISOU 8206 O GLN C 119	4310	4830	4410	-270	510	-550	O0
ATOM 8207 CB GLN C 119	-40.617	13.102	29.834	1.00	35.97	C0	
ANISOU 8207 CB GLN C 119	4280	4920	4470	-230	530	-440	C0
ATOM 8208 CG GLN C 119	-39.329	13.653	29.246	1.00	35.92	C0	
ANISOU 8208 CG GLN C 119	4240	4940	4470	-250	550	-470	C0
ATOM 8209 CD GLN C 119	-39.613	14.575	28.086	1.00	36.08	C0	
ANISOU 8209 CD GLN C 119	4240	4940	4520	-260	600	-390	C0
ATOM 8210 OE1 GLN C 119	-40.729	15.065	27.927	1.00	35.79	O0	
ANISOU 8210 OE1 GLN C 119	4220	4860	4510	-240	620	-330	O0
ATOM 8211 NE2 GLN C 119	-38.596	14.827	27.275	1.00	35.66	N0	
ANISOU 8211 NE2 GLN C 119	4160	4940	4450	-290	610	-400	N0
ATOM 8212 H GLN C 119	-42.169	11.360	31.596	1.00	36.19	H0	
ANISOU 8212 H GLN C 119	4370	4950	4430	-240	440	-450	H0
ATOM 8213 HA GLN C 119	-39.705	11.337	30.412	1.00	35.79	H0	
ANISOU 8213 HA GLN C 119	4280	4940	4380	-210	410	-530	H0
ATOM 8214 HB2 GLN C 119	-41.201	12.812	29.104	1.00	35.79	H0	
ANISOU 8214 HB2 GLN C 119	4250	4910	4440	-210	510	-400	H0
ATOM 8215 HB3 GLN C 119	-41.078	13.815	30.321	1.00	36.03	H0	
ANISOU 8215 HB3 GLN C 119	4290	4880	4520	-230	570	-430	H0
ATOM 8216 HG2 GLN C 119	-38.838	14.144	29.939	1.00	36.14	H0	
ANISOU 8216 HG2 GLN C 119	4270	4940	4520	-280	570	-510	H0
ATOM 8217 HG3 GLN C 119	-38.765	12.911	28.941	1.00	35.88	H0	
ANISOU 8217 HG3 GLN C 119	4220	4980	4430	-240	510	-500	H0
ATOM 8218 HE21 GLN C 119	-38.715	15.336	26.562	1.00	36.19	H0	
ANISOU 8218 HE21 GLN C 119	4230	5010	4520	-310	640	-350	H0
ATOM 8219 HE22 GLN C 119	-37.798	14.487	27.445	1.00	35.94	H0	
ANISOU 8219 HE22 GLN C 119	4170	5020	4460	-300	600	-450	H0
ATOM 8220 N ARG C 120	-38.667	12.383	32.422	1.00	36.59	N0	
ANISOU 8220 N ARG C 120	4390	5000	4510	-270	450	-620	N0
ATOM 8221 CA AARG C 120	-38.044	12.855	33.685	0.50	36.63	C0	
ANISOU 8221 CA AARG C 120	4410	4990	4520	-300	460	-690	C0
ATOM 8222 CA BARG C 120	-38.032	12.853	33.681	0.50	37.18	C0	
ANISOU 8222 CA BARG C 120	4480	5060	4590	-300	460	-690	C0
ATOM 8223 C ARG C 120	-37.591	14.307	33.495	1.00	37.00	C0	
ANISOU 8223 C ARG C 120	4430	5010	4620	-350	540	-700	C0
ATOM 8224 O ARG C 120	-37.077	14.625	32.409	1.00	36.56	O0	
ANISOU 8224 O ARG C 120	4330	4980	4570	-350	560	-670	O0
ATOM 8225 CB AARG C 120	-36.880	11.945	34.098	0.50	36.95	C0	
ANISOU 8225 CB AARG C 120	4450	5080	4510	-290	380	-760	C0
ATOM 8226 CB BARG C 120	-36.825	11.986	34.055	0.50	38.26	C0	
ANISOU 8226 CB BARG C 120	4610	5250	4680	-290	380	-760	C0
ATOM 8227 CG AARG C 120	-37.291	10.752	34.952	0.50	36.92	C0	
ANISOU 8227 CG AARG C 120	4510	5060	4450	-270	290	-760	C0
ATOM 8228 CG BARG C 120	-37.075	10.487	33.983	0.50	38.95	C0	
ANISOU 8228 CG BARG C 120	4740	5340	4710	-240	280	-750	C0
ATOM 8229 CD AARG C 120	-37.191	9.421	34.228	0.50	37.07	C0	
ANISOU 8229 CD AARG C 120	4560	5100	4430	-210	200	-750	C0
ATOM 8230 CD BARG C 120	-36.131	9.697	34.873	0.50	40.19	C0	
ANISOU 8230 CD BARG C 120	4930	5520	4820	-210	180	-820	C0
ATOM 8231 NE AARG C 120	-35.859	9.216	33.677	0.50	37.61	N0	
ANISOU 8231 NE AARG C 120	4570	5230	4490	-160	160	-810	N0
ATOM 8232 NE BARG C 120	-36.677	9.549	36.214	0.50	41.32	N0	
ANISOU 8232 NE BARG C 120	5140	5620	4940	-260	160	-810	N0

ATOM 8233 CZ AARG C 120	-35.555	8.321	32.749	0.50	37.69	C0	
ANISOU 8233 CZ AARG C 120	4570	5270	4480	-80	100	-830	C0
ATOM 8234 CZ BARG C 120	-36.151	10.064	37.319	0.50	41.14	C0	
ANISOU 8234 CZ BARG C 120	5120	5600	4910	-300	170	-860	C0
ATOM 8235 NH1AARG C 120	-36.491	7.526	32.262	0.50	37.31	N0	
ANISOU 8235 NH1AARG C 120	4590	5180	4410	-70	70	-780	N0
ATOM 8236 NH1BARG C 120	-35.025	10.756	37.271	0.50	41.32	N0	
ANISOU 8236 NH1BARG C 120	5070	5670	4960	-310	190	-920	N0
ATOM 8237 NH2AARG C 120	-34.313	8.225	32.313	0.50	38.47	N0	
ANISOU 8237 NH2AARG C 120	4600	5450	4570	-30	80	-900	N0
ATOM 8238 NH2BARG C 120	-36.756	9.866	38.474	0.50	41.40	N0	
ANISOU 8238 NH2BARG C 120	5220	5610	4900	-350	150	-850	N0
ATOM 8239 H ARG C 120	-38.052	12.089	31.818	1.00	36.60	H0	
ANISOU 8239 H ARG C 120	4370	5040	4500	-250	430	-640	H0
ATOM 8240 HA AARG C 120	-38.726	12.829	34.391	0.50	36.65	H0	
ANISOU 8240 HA AARG C 120	4450	4960	4520	-320	470	-680	H0
ATOM 8241 HA BARG C 120	-38.696	12.808	34.403	0.50	37.13	H0	
ANISOU 8241 HA BARG C 120	4510	5030	4570	-320	470	-690	H0
ATOM 8242 HB2AARG C 120	-36.438	11.615	33.288	0.50	36.95	H0	
ANISOU 8242 HB2AARG C 120	4410	5120	4500	-260	360	-760	H0
ATOM 8243 HB2BARG C 120	-36.084	12.209	33.454	0.50	38.43	H0	
ANISOU 8243 HB2BARG C 120	4580	5310	4710	-280	390	-780	H0
ATOM 8244 HB3AARG C 120	-36.229	12.480	34.598	0.50	37.22	H0	
ANISOU 8244 HB3AARG C 120	4460	5120	4560	-320	390	-800	H0
ATOM 8245 HB3BARG C 120	-36.549	12.214	34.967	0.50	38.44	H0	
ANISOU 8245 HB3BARG C 120	4650	5260	4700	-320	380	-790	H0
ATOM 8246 HG2AARG C 120	-36.721	10.720	35.750	0.50	37.20	H0	
ANISOU 8246 HG2AARG C 120	4560	5100	4470	-290	260	-810	H0
ATOM 8247 HG2BARG C 120	-37.999	10.300	34.255	0.50	38.76	H0	
ANISOU 8247 HG2BARG C 120	4760	5290	4680	-250	280	-710	H0
ATOM 8248 HG3AARG C 120	-38.216	10.878	35.253	0.50	36.82	H0	
ANISOU 8248 HG3AARG C 120	4530	5020	4440	-300	320	-730	H0
ATOM 8249 HG3BARG C 120	-36.966	10.185	33.056	0.50	38.90	H0	
ANISOU 8249 HG3BARG C 120	4710	5360	4700	-200	270	-740	H0
ATOM 8250 HD2AARG C 120	-37.399	8.695	34.853	0.50	37.13	H0	
ANISOU 8250 HD2AARG C 120	4630	5080	4400	-210	140	-750	H0
ATOM 8251 HD2BARG C 120	-35.980	8.810	34.483	0.50	40.28	H0	
ANISOU 8251 HD2BARG C 120	4960	5540	4810	-160	120	-820	H0
ATOM 8252 HD3AARG C 120	-37.851	9.396	33.502	0.50	36.84	H0	
ANISOU 8252 HD3AARG C 120	4530	5060	4410	-210	220	-710	H0
ATOM 8253 HD3BARG C 120	-35.266	10.159	34.923	0.50	40.51	H0	
ANISOU 8253 HD3BARG C 120	4910	5600	4880	-220	200	-860	H0
ATOM 8254 HE AARG C 120	-35.214	9.725	33.971	0.50	37.79	H0	
ANISOU 8254 HE AARG C 120	4550	5280	4530	-170	180	-850	H0
ATOM 8255 HE BARG C 120	-37.423	9.105	36.297	0.50	40.80	H0	
ANISOU 8255 HE BARG C 120	5120	5530	4850	-270	150	-780	H0
ATOM 8256 HH11AARG C 120	-37.318	7.594	32.553	0.50	37.13	H0	
ANISOU 8256 HH11AARG C 120	4600	5120	4380	-110	80	-730	H0
ATOM 8257 HH11BARG C 120	-34.625	10.888	36.499	0.50	41.40	H0	
ANISOU 8257 HH11BARG C 120	5030	5710	4990	-280	200	-920	H0
ATOM 8258 HH12AARG C 120	-36.285	6.932	31.647	0.50	37.52	H0	
ANISOU 8258 HH12AARG C 120	4620	5220	4410	-20	30	-790	H0
ATOM 8259 HH12BARG C 120	-34.684	11.088	38.010	0.50	41.66	H0	
ANISOU 8259 HH12BARG C 120	5120	5720	4990	-340	190	-950	H0

ATOM	8260	HH21AARG C 120	-33.690	8.755	32.641	0.50	38.60	H0	
ANISOU	8260	HH21AARG C 120	4560	5500	4600	-50	100	-930	H0
ATOM	8261	HH21BARG C 120	-37.504	9.401	38.501	0.50	41.23	H0	
ANISOU	8261	HH21BARG C 120	5240	5570	4860	-360	140	-810	H0
ATOM	8262	HH22AARG C 120	-34.109	7.627	31.699	0.50	38.54	H0	
ANISOU	8262	HH22AARG C 120	4600	5480	4560	30	40	-920	H0
ATOM	8263	HH22BARG C 120	-36.411	10.196	39.213	0.50	41.62	H0	
ANISOU	8263	HH22BARG C 120	5250	5640	4920	-380	160	-890	H0
ATOM	8264	N PHE C 121	-37.783	15.134	34.522	1.00	36.75	N0	
ANISOU	8264	N PHE C 121	4430	4920	4610	-380	590	-730	N0
ATOM	8265	CA PHE C 121	-37.472	16.583	34.504	1.00	37.35	C0	
ANISOU	8265	CA PHE C 121	4520	4940	4740	-430	660	-740	C0
ATOM	8266	C PHE C 121	-36.600	16.945	35.709	1.00	37.76	C0	
ANISOU	8266	C PHE C 121	4580	4990	4780	-500	650	-820	C0
ATOM	8267	O PHE C 121	-36.791	16.381	36.809	1.00	37.54	O0	
ANISOU	8267	O PHE C 121	4580	4970	4710	-490	620	-860	O0
ATOM	8268	CB PHE C 121	-38.773	17.388	34.487	1.00	38.03	C0	
ANISOU	8268	CB PHE C 121	4640	4940	4870	-400	720	-690	C0
ATOM	8269	CG PHE C 121	-39.614	17.153	33.261	1.00	38.00	C0	
ANISOU	8269	CG PHE C 121	4620	4940	4880	-350	720	-600	C0
ATOM	8270	CD1 PHE C 121	-40.571	16.151	33.238	1.00	37.97	C0	
ANISOU	8270	CD1 PHE C 121	4600	4980	4850	-300	690	-570	C0
ATOM	8271	CD2 PHE C 121	-39.437	17.924	32.124	1.00	38.80	C0	
ANISOU	8271	CD2 PHE C 121	4720	5010	5020	-350	750	-540	C0
ATOM	8272	CE1 PHE C 121	-41.332	15.927	32.100	1.00	38.34	C0	
ANISOU	8272	CE1 PHE C 121	4620	5050	4900	-260	680	-490	C0
ATOM	8273	CE2 PHE C 121	-40.201	17.701	30.989	1.00	38.75	C0	
ANISOU	8273	CE2 PHE C 121	4690	5020	5010	-310	740	-460	C0
ATOM	8274	CZ PHE C 121	-41.147	16.702	30.978	1.00	38.55	C0	
ANISOU	8274	CZ PHE C 121	4640	5050	4960	-260	700	-430	C0
ATOM	8275	H PHE C 121	-38.125	14.864	35.323	1.00	36.83	H0	
ANISOU	8275	H PHE C 121	4470	4920	4600	-380	570	-750	H0
ATOM	8276	HA PHE C 121	-36.964	16.787	33.678	1.00	37.57	H0	
ANISOU	8276	HA PHE C 121	4520	4980	4770	-450	660	-710	H0
ATOM	8277	HB2 PHE C 121	-39.295	17.152	35.282	1.00	37.90	H0	
ANISOU	8277	HB2 PHE C 121	4640	4920	4840	-390	720	-710	H0
ATOM	8278	HB3 PHE C 121	-38.551	18.340	34.544	1.00	38.50	H0	
ANISOU	8278	HB3 PHE C 121	4720	4940	4970	-430	760	-700	H0
ATOM	8279	HD1 PHE C 121	-40.699	15.612	34.001	1.00	37.83	H0	
ANISOU	8279	HD1 PHE C 121	4590	4980	4800	-310	660	-600	H0
ATOM	8280	HD2 PHE C 121	-38.788	18.610	32.123	1.00	39.20	H0	
ANISOU	8280	HD2 PHE C 121	4780	5030	5080	-400	770	-560	H0
ATOM	8281	HE1 PHE C 121	-41.980	15.243	32.096	1.00	37.89	H0	
ANISOU	8281	HE1 PHE C 121	4560	5020	4820	-240	650	-470	H0
ATOM	8282	HE2 PHE C 121	-40.074	18.234	30.227	1.00	39.11	H0	
ANISOU	8282	HE2 PHE C 121	4740	5050	5070	-320	750	-410	H0
ATOM	8283	HZ PHE C 121	-41.671	16.553	30.207	1.00	38.41	H0	
ANISOU	8283	HZ PHE C 121	4610	5050	4940	-230	700	-380	H0
ATOM	8284	N SER C 122	-35.660	17.864	35.488	1.00	38.08	N0	
ANISOU	8284	N SER C 122	4610	5020	4840	-570	680	-850	N0
ATOM	8285	CA SER C 122	-34.943	18.621	36.542	1.00	39.06	C0	
ANISOU	8285	CA SER C 122	4760	5120	4960	-650	690	-920	C0
ATOM	8286	C SER C 122	-35.765	19.871	36.869	1.00	39.97	C0	
ANISOU	8286	C SER C 122	4960	5100	5130	-660	770	-920	C0

ATOM 8287 O SER C 122	-35.843	20.765	36.006	1.00	40.94	O0	
ANISOU 8287 O SER C 122	5110	5150	5300	-680	810	-870	O0
ATOM 8288 CB SER C 122	-33.547	18.977	36.099	1.00	39.70	C0	
ANISOU 8288 CB SER C 122	4780	5270	5030	-740	690	-950	C0
ATOM 8289 OG SER C 122	-32.949	19.902	36.998	1.00	40.15	O0	
ANISOU 8289 OG SER C 122	4880	5290	5090	-840	710	-1020	O0
ATOM 8290 H SER C 122	-35.388	18.100	34.651	1.00	38.35	H0	
ANISOU 8290 H SER C 122	4620	5060	4880	-580	690	-810	H0
ATOM 8291 HA SER C 122	-34.886	18.053	37.356	1.00	38.91	H0	
ANISOU 8291 HA SER C 122	4740	5130	4910	-640	660	-960	H0
ATOM 8292 HB2 SER C 122	-33.000	18.161	36.056	1.00	39.38	H0	
ANISOU 8292 HB2 SER C 122	4690	5320	4950	-710	640	-970	H0
ATOM 8293 HB3 SER C 122	-33.580	19.372	35.198	1.00	39.74	H0	
ANISOU 8293 HB3 SER C 122	4780	5260	5060	-750	720	-900	H0
ATOM 8294 N CYS C 123	-36.396	19.916	38.043	1.00	39.91	N0	
ANISOU 8294 N CYS C 123	5000	5050	5110	-640	780	-970	N0
ATOM 8295 CA CYS C 123	-37.210	21.077	38.490	1.00	41.33	C0	
ANISOU 8295 CA CYS C 123	5260	5100	5340	-630	840	-990	C0
ATOM 8296 C CYS C 123	-37.269	21.128	40.022	1.00	40.78	C0	
ANISOU 8296 C CYS C 123	5230	5040	5230	-650	850	-1090	C0
ATOM 8297 O CYS C 123	-36.730	20.213	40.677	1.00	39.78	O0	
ANISOU 8297 O CYS C 123	5070	5010	5040	-680	790	-1120	O0
ATOM 8298 CB CYS C 123	-38.601	21.037	37.860	1.00	42.11	C0	
ANISOU 8298 CB CYS C 123	5360	5170	5470	-520	870	-920	C0
ATOM 8299 SG CYS C 123	-39.539	19.540	38.251	1.00	43.42	S0	
ANISOU 8299 SG CYS C 123	5470	5450	5580	-450	840	-900	S0
ATOM 8300 H CYS C 123	-36.379	19.240	38.654	1.00	39.82	H0	
ANISOU 8300 H CYS C 123	4980	5090	5060	-630	740	-1000	H0
ATOM 8301 HA CYS C 123	-36.759	21.894	38.175	1.00	41.81	H0	
ANISOU 8301 HA CYS C 123	5350	5110	5430	-680	860	-990	H0
ATOM 8302 HB2 CYS C 123	-39.114	21.811	38.165	1.00	42.99	H0	
ANISOU 8302 HB2 CYS C 123	5520	5200	5620	-490	910	-940	H0
ATOM 8303 HB3 CYS C 123	-38.512	21.101	36.887	1.00	42.25	H0	
ANISOU 8303 HB3 CYS C 123	5360	5180	5510	-510	870	-860	H0
ATOM 8304 N ASP C 124	-37.884	22.180	40.569	1.00	41.13	N0	
ANISOU 8304 N ASP C 124	5350	4970	5300	-640	910	-1140	N0
ATOM 8305 CA ASP C 124	-37.936	22.438	42.033	1.00	40.96	C0	
ANISOU 8305 CA ASP C 124	5380	4950	5240	-670	930	-1240	C0
ATOM 8306 C ASP C 124	-38.892	21.435	42.690	1.00	40.27	C0	
ANISOU 8306 C ASP C 124	5250	4960	5090	-610	920	-1250	C0
ATOM 8307 O ASP C 124	-40.116	21.556	42.479	1.00	40.57	O0	
ANISOU 8307 O ASP C 124	5280	4980	5150	-520	970	-1220	O0
ATOM 8308 CB ASP C 124	-38.344	23.883	42.322	1.00	42.12	C0	
ANISOU 8308 CB ASP C 124	5620	4940	5440	-650	990	-1310	C0
ATOM 8309 CG ASP C 124	-38.032	24.343	43.736	1.00	42.77	C0	
ANISOU 8309 CG ASP C 124	5770	5010	5470	-720	1010	-1430	C0
ATOM 8310 OD1 ASP C 124	-37.370	23.578	44.477	1.00	41.52	O0	
ANISOU 8310 OD1 ASP C 124	5580	4960	5240	-790	960	-1470	O0
ATOM 8311 OD2 ASP C 124	-38.441	25.472	44.076	1.00	43.89	O0	
ANISOU 8311 OD2 ASP C 124	6000	5020	5650	-690	1060	-1500	O0
ATOM 8312 H ASP C 124	-38.311	22.811	40.070	1.00	41.42	H0	
ANISOU 8312 H ASP C 124	5420	4930	5390	-600	940	-1110	H0
ATOM 8313 HA ASP C 124	-37.032	22.294	42.398	1.00	41.11	H0	
ANISOU 8313 HA ASP C 124	5390	5010	5220	-750	890	-1280	H0

ATOM	8314	HB2	ASP	C	124	-37.881	24.476	41.697	1.00	42.43	H0	
ANISOU	8314	HB2	ASP	C	124	5690	4910	5520	-690	990	-1280	H0
ATOM	8315	HB3	ASP	C	124	-39.307	23.980	42.174	1.00	42.16	H0	
ANISOU	8315	HB3	ASP	C	124	5630	4920	5470	-560	1020	-1290	H0
ATOM	8316	N	VAL	C	125	-38.350	20.488	43.460	1.00	39.46	N0	
ANISOU	8316	N	VAL	C	125	5130	4960	4900	-670	860	-1270	N0
ATOM	8317	CA	VAL	C	125	-39.131	19.481	44.240	1.00	39.33	C0	
ANISOU	8317	CA	VAL	C	125	5100	5030	4810	-650	850	-1270	C0
ATOM	8318	C	VAL	C	125	-39.228	19.918	45.717	1.00	40.15	C0	
ANISOU	8318	C	VAL	C	125	5260	5150	4840	-700	880	-1380	C0
ATOM	8319	O	VAL	C	125	-39.872	19.205	46.502	1.00	40.39	O0	
ANISOU	8319	O	VAL	C	125	5290	5270	4790	-710	880	-1380	O0
ATOM	8320	CB	VAL	C	125	-38.508	18.081	44.076	1.00	38.34	C0	
ANISOU	8320	CB	VAL	C	125	4940	5000	4620	-670	750	-1210	C0
ATOM	8321	CG1	VAL	C	125	-39.185	17.030	44.941	1.00	38.63	C0	
ANISOU	8321	CG1	VAL	C	125	4990	5120	4560	-690	720	-1200	C0
ATOM	8322	CG2	VAL	C	125	-38.522	17.643	42.620	1.00	37.54	C0	
ANISOU	8322	CG2	VAL	C	125	4790	4900	4580	-620	720	-1120	C0
ATOM	8323	H	VAL	C	125	-37.449	20.395	43.557	1.00	39.61	H0	
ANISOU	8323	H	VAL	C	125	5150	5000	4910	-720	830	-1290	H0
ATOM	8324	HA	VAL	C	125	-40.034	19.452	43.876	1.00	39.13	H0	
ANISOU	8324	HA	VAL	C	125	5060	5010	4800	-590	880	-1230	H0
ATOM	8325	HB	VAL	C	125	-37.564	18.142	44.362	1.00	38.63	H0	
ANISOU	8325	HB	VAL	C	125	4980	5050	4650	-720	710	-1250	H0
ATOM	8326	HG11	VAL	C	125	-38.966	17.183	45.876	1.00	39.03	H0	
ANISOU	8326	HG11	VAL	C	125	5080	5190	4560	-730	720	-1260	H0
ATOM	8327	HG12	VAL	C	125	-38.867	16.149	44.682	1.00	38.06	H0	
ANISOU	8327	HG12	VAL	C	125	4910	5080	4460	-690	650	-1160	H0
ATOM	8328	HG13	VAL	C	125	-40.149	17.077	44.820	1.00	38.54	H0	
ANISOU	8328	HG13	VAL	C	125	4970	5110	4560	-650	760	-1180	H0
ATOM	8329	HG21	VAL	C	125	-39.431	17.693	42.275	1.00	37.44	H0	
ANISOU	8329	HG21	VAL	C	125	4770	4870	4590	-570	760	-1090	H0
ATOM	8330	HG22	VAL	C	125	-38.200	16.728	42.551	1.00	37.13	H0	
ANISOU	8330	HG22	VAL	C	125	4720	4900	4490	-620	660	-1090	H0
ATOM	8331	HG23	VAL	C	125	-37.946	18.229	42.098	1.00	37.67	H0	
ANISOU	8331	HG23	VAL	C	125	4800	4870	4640	-630	730	-1120	H0
ATOM	8332	N	SER	C	126	-38.646	21.059	46.090	1.00	40.74	N0	
ANISOU	8332	N	SER	C	126	5390	5140	4950	-740	910	-1460	N0
ATOM	8333	CA	SER	C	126	-38.639	21.558	47.491	1.00	41.91	C0	
ANISOU	8333	CA	SER	C	126	5600	5290	5030	-800	950	-1580	C0
ATOM	8334	C	SER	C	126	-40.080	21.820	47.944	1.00	42.56	C0	
ANISOU	8334	C	SER	C	126	5690	5390	5090	-720	1030	-1620	C0
ATOM	8335	O	SER	C	126	-40.848	22.421	47.158	1.00	42.32	O0	
ANISOU	8335	O	SER	C	126	5650	5280	5150	-620	1090	-1590	O0
ATOM	8336	CB	SER	C	126	-37.759	22.776	47.646	1.00	42.83	C0	
ANISOU	8336	CB	SER	C	126	5780	5300	5180	-860	960	-1660	C0
ATOM	8337	OG	SER	C	126	-38.300	23.892	46.958	1.00	44.00	O0	
ANISOU	8337	OG	SER	C	126	5970	5310	5430	-790	1030	-1660	O0
ATOM	8338	H	SER	C	126	-38.212	21.618	45.518	1.00	40.94	H0	
ANISOU	8338	H	SER	C	126	5420	5100	5030	-750	920	-1450	H0
ATOM	8339	HA	SER	C	126	-38.265	20.836	48.063	1.00	41.74	H0	
ANISOU	8339	HA	SER	C	126	5570	5350	4930	-850	890	-1580	H0
ATOM	8340	HB2	SER	C	126	-37.669	22.994	48.601	1.00	43.66	H0	
ANISOU	8340	HB2	SER	C	126	5930	5420	5230	-910	970	-1740	H0

ATOM	8341	HB3	SER	C	126	-36.862	22.577	47.292	1.00	42.65	H0	
ANISOU	8341	HB3	SER	C	126	5740	5300	5170	-920	910	-1630	H0
ATOM	8342	N	GLY	C	127	-40.435	21.330	49.140	1.00	43.05	N0	
ANISOU	8342	N	GLY	C	127	5760	5550	5040	-760	1040	-1670	N0
ATOM	8343	CA	GLY	C	127	-41.759	21.492	49.770	1.00	43.40	C0	
ANISOU	8343	CA	GLY	C	127	5790	5660	5040	-700	1130	-1730	C0
ATOM	8344	C	GLY	C	127	-42.770	20.442	49.325	1.00	42.94	C0	
ANISOU	8344	C	GLY	C	127	5650	5710	4960	-660	1130	-1630	C0
ATOM	8345	O	GLY	C	127	-43.941	20.566	49.722	1.00	43.24	O0	
ANISOU	8345	O	GLY	C	127	5650	5820	4960	-620	1200	-1670	O0
ATOM	8346	H	GLY	C	127	-39.852	20.850	49.650	1.00	42.82	H0	
ANISOU	8346	H	GLY	C	127	5740	5580	4950	-830	990	-1680	H0
ATOM	8347	HA2	GLY	C	127	-41.651	21.441	50.753	1.00	44.16	H0	
ANISOU	8347	HA2	GLY	C	127	5920	5810	5050	-770	1130	-1790	H0
ATOM	8348	HA3	GLY	C	127	-42.108	22.392	49.551	1.00	44.19	H0	
ANISOU	8348	HA3	GLY	C	127	5910	5670	5210	-640	1180	-1770	H0
ATOM	8349	N	VAL	C	128	-42.365	19.441	48.534	1.00	42.03	N0	
ANISOU	8349	N	VAL	C	128	5500	5610	4850	-680	1040	-1510	N0
ATOM	8350	CA	VAL	C	128	-43.303	18.442	47.934	1.00	41.52	C0	
ANISOU	8350	CA	VAL	C	128	5370	5630	4770	-650	1030	-1410	C0
ATOM	8351	C	VAL	C	128	-44.049	17.696	49.054	1.00	42.37	C0	
ANISOU	8351	C	VAL	C	128	5480	5890	4730	-730	1040	-1420	C0
ATOM	8352	O	VAL	C	128	-45.223	17.327	48.843	1.00	42.18	O0	
ANISOU	8352	O	VAL	C	128	5390	5950	4690	-700	1080	-1390	O0
ATOM	8353	CB	VAL	C	128	-42.575	17.462	46.993	1.00	40.41	C0	
ANISOU	8353	CB	VAL	C	128	5220	5480	4650	-670	920	-1300	C0
ATOM	8354	CG1	VAL	C	128	-41.645	16.527	47.748	1.00	40.49	C0	
ANISOU	8354	CG1	VAL	C	128	5280	5530	4570	-770	820	-1290	C0
ATOM	8355	CG2	VAL	C	128	-43.554	16.668	46.145	1.00	39.45	C0	
ANISOU	8355	CG2	VAL	C	128	5040	5410	4540	-630	910	-1200	C0
ATOM	8356	H	VAL	C	128	-41.493	19.306	48.312	1.00	41.57	H0	
ANISOU	8356	H	VAL	C	128	5460	5520	4810	-720	980	-1490	H0
ATOM	8357	HA	VAL	C	128	-43.962	18.930	47.409	1.00	41.74	H0	
ANISOU	8357	HA	VAL	C	128	5360	5640	4860	-580	1080	-1400	H0
ATOM	8358	HB	VAL	C	128	-42.022	18.002	46.379	1.00	40.14	H0	
ANISOU	8358	HB	VAL	C	128	5190	5360	4700	-640	920	-1290	H0
ATOM	8359	HG11	VAL	C	128	-41.186	17.020	48.450	1.00	40.95	H0	
ANISOU	8359	HG11	VAL	C	128	5380	5580	4600	-800	830	-1360	H0
ATOM	8360	HG12	VAL	C	128	-40.989	16.155	47.133	1.00	39.80	H0	
ANISOU	8360	HG12	VAL	C	128	5190	5420	4510	-760	760	-1240	H0
ATOM	8361	HG13	VAL	C	128	-42.161	15.804	48.145	1.00	40.50	H0	
ANISOU	8361	HG13	VAL	C	128	5290	5610	4490	-810	800	-1260	H0
ATOM	8362	HG21	VAL	C	128	-44.013	16.015	46.701	1.00	39.77	H0	
ANISOU	8362	HG21	VAL	C	128	5080	5530	4490	-680	900	-1180	H0
ATOM	8363	HG22	VAL	C	128	-43.072	16.209	45.436	1.00	38.87	H0	
ANISOU	8363	HG22	VAL	C	128	4970	5310	4490	-630	850	-1140	H0
ATOM	8364	HG23	VAL	C	128	-44.207	17.273	45.751	1.00	39.83	H0	
ANISOU	8364	HG23	VAL	C	128	5050	5440	4640	-560	970	-1200	H0
ATOM	8365	N	ASP	C	129	-43.412	17.518	50.215	1.00	43.22	N0	
ANISOU	8365	N	ASP	C	129	5650	6030	4740	-830	1010	-1480	N0
ATOM	8366	CA	ASP	C	129	-43.946	16.708	51.344	1.00	44.08	C0	
ANISOU	8366	CA	ASP	C	129	5780	6280	4690	-930	1010	-1480	C0
ATOM	8367	C	ASP	C	129	-44.737	17.595	52.318	1.00	45.21	C0	
ANISOU	8367	C	ASP	C	129	5910	6500	4780	-920	1130	-1610	C0

ATOM 8368 O ASP C 129	-45.149	17.079	53.363	1.00	45.51	O0
ANISOU 8368 O ASP C 129	5960	6670	4660	-1020	1140	-1630 O0
ATOM 8369 CB ASP C 129	-42.806	15.931	52.006	1.00	44.39	C0
ANISOU 8369 CB ASP C 129	5900	6330	4640	-1040	890	-1460 C0
ATOM 8370 CG ASP C 129	-42.057	15.067	51.004	1.00	44.12	C0
ANISOU 8370 CG ASP C 129	5870	6230	4660	-1010	770	-1350 C0
ATOM 8371 OD1 ASP C 129	-42.711	14.218	50.363	1.00	44.01	O0
ANISOU 8371 OD1 ASP C 129	5830	6250	4650	-1000	740	-1250 O0
ATOM 8372 OD2 ASP C 129	-40.837	15.281	50.835	1.00	44.90	O0
ANISOU 8372 OD2 ASP C 129	5990	6260	4810	-1010	700	-1370 O0
ATOM 8373 H ASP C 129	-42.592	17.876	50.385	1.00	43.21	H0
ANISOU 8373 H ASP C 129	5690	5970	4760	-840	980	-1520 H0
ATOM 8374 HA ASP C 129	-44.571	16.045	50.967	1.00	43.78	H0
ANISOU 8374 HA ASP C 129	5700	6300	4630	-930	1000	-1410 H0
ATOM 8375 HB2 ASP C 129	-42.177	16.560	52.412	1.00	44.85	H0
ANISOU 8375 HB2 ASP C 129	5990	6350	4710	-1040	890	-1530 H0
ATOM 8376 HB3 ASP C 129	-43.168	15.356	52.710	1.00	44.98	H0
ANISOU 8376 HB3 ASP C 129	5990	6490	4600	-1110	880	-1450 H0
ATOM 8377 N THR C 130	-44.966	18.867	51.973	1.00	45.73	N0
ANISOU 8377 N THR C 130	5950	6480	4950	-810	1220	-1700 N0
ATOM 8378 CA THR C 130	-45.728	19.849	52.792	1.00	47.73	C0
ANISOU 8378 CA THR C 130	6190	6780	5170	-760	1340	-1850 C0
ATOM 8379 C THR C 130	-47.124	20.018	52.178	1.00	48.62	C0
ANISOU 8379 C THR C 130	6190	6960	5330	-640	1420	-1830 C0
ATOM 8380 O THR C 130	-47.335	19.523	51.045	1.00	48.49	O0
ANISOU 8380 O THR C 130	6120	6920	5380	-600	1380	-1710 O0
ATOM 8381 CB THR C 130	-44.960	21.175	52.910	1.00	47.96	C0
ANISOU 8381 CB THR C 130	6300	6640	5280	-710	1360	-1960 C0
ATOM 8382 OG1 THR C 130	-45.096	21.934	51.710	1.00	47.20	O0
ANISOU 8382 OG1 THR C 130	6180	6400	5350	-580	1380	-1930 O0
ATOM 8383 CG2 THR C 130	-43.484	20.981	53.182	1.00	47.28	C0
ANISOU 8383 CG2 THR C 130	6300	6490	5180	-820	1260	-1950 C0
ATOM 8384 H THR C 130	-44.663	19.233	51.199	1.00	45.30	H0
ANISOU 8384 H THR C 130	5890	6320	5000	-750	1200	-1680 H0
ATOM 8385 HA THR C 130	-45.833	19.473	53.696	1.00	48.25	H0
ANISOU 8385 HA THR C 130	6270	6950	5110	-840	1350	-1880 H0
ATOM 8386 HB THR C 130	-45.351	21.690	53.656	1.00	49.08	H0
ANISOU 8386 HB THR C 130	6450	6820	5370	-700	1430	-2070 H0
ATOM 8387 HG21 THR C 130	-43.369	20.373	53.933	1.00	47.48	H0
ANISOU 8387 HG21 THR C 130	6340	6610	5090	-910	1230	-1950 H0
ATOM 8388 HG22 THR C 130	-43.078	21.840	53.395	1.00	47.92	H0
ANISOU 8388 HG22 THR C 130	6430	6480	5290	-810	1280	-2030 H0
ATOM 8389 HG23 THR C 130	-43.053	20.606	52.393	1.00	46.29	H0
ANISOU 8389 HG23 THR C 130	6160	6320	5110	-820	1200	-1850 H0
ATOM 8390 N GLU C 131	-48.032	20.689	52.888	1.00	49.99	N0
ANISOU 8390 N GLU C 131	6320	7220	5450	-580	1540	-1960 N0
ATOM 8391 CA GLU C 131	-49.422	20.953	52.430	1.00	51.42	C0
ANISOU 8391 CA GLU C 131	6370	7490	5670	-450	1620	-1980 C0
ATOM 8392 C GLU C 131	-49.400	21.942	51.256	1.00	50.50	C0
ANISOU 8392 C GLU C 131	6260	7190	5740	-270	1620	-1970 C0
ATOM 8393 O GLU C 131	-50.276	21.824	50.377	1.00	49.51	O0
ANISOU 8393 O GLU C 131	6030	7110	5670	-170	1640	-1900 O0
ATOM 8394 CB GLU C 131	-50.279	21.487	53.580	1.00	55.00	C0
ANISOU 8394 CB GLU C 131	6780	8100	6020	-420	1750	-2140 C0

ATOM 8395 CG GLU C 131	-50.583	20.455	54.653	1.00	56.58	C0	
ANISOU 8395 CG GLU C 131	6960	8530	6010	-600	1760	-2130	C0
ATOM 8396 CD GLU C 131	-51.388	21.004	55.822	1.00	60.45	C0	
ANISOU 8396 CD GLU C 131	7400	9190	6380	-580	1890	-2310	C0
ATOM 8397 OE1 GLU C 131	-52.602	21.256	55.640	1.00	62.23	O0	
ANISOU 8397 OE1 GLU C 131	7480	9560	6610	-470	1980	-2360	O0
ATOM 8398 OE2 GLU C 131	-50.794	21.201	56.911	1.00	62.22	O0	
ANISOU 8398 OE2 GLU C 131	7720	9420	6500	-670	1900	-2400	O0
ATOM 8399 H GLU C 131	-47.847	21.031	53.712	1.00	51.01	H0	
ANISOU 8399 H GLU C 131	6490	7370	5520	-610	1570	-2050	H0
ATOM 8400 HA GLU C 131	-49.809	20.104	52.116	1.00	50.89	H0	
ANISOU 8400 HA GLU C 131	6250	7520	5560	-500	1600	-1880	H0
ATOM 8401 HB2 GLU C 131	-49.814	22.245	53.991	1.00	55.45	H0	
ANISOU 8401 HB2 GLU C 131	6910	8060	6090	-390	1760	-2240	H0
ATOM 8402 HB3 GLU C 131	-51.125	21.818	53.211	1.00	55.51	H0	
ANISOU 8402 HB3 GLU C 131	6760	8210	6120	-300	1800	-2160	H0
ATOM 8403 HG2 GLU C 131	-51.083	19.713	54.251	1.00	56.27	H0	
ANISOU 8403 HG2 GLU C 131	6850	8580	5950	-640	1740	-2040	H0
ATOM 8404 HG3 GLU C 131	-49.739	20.093	54.997	1.00	56.11	H0	
ANISOU 8404 HG3 GLU C 131	6990	8420	5910	-710	1690	-2100	H0
ATOM 8405 N SER C 132	-48.447	22.882	51.252	1.00	50.03	N0	
ANISOU 8405 N SER C 132	6320	6930	5760	-240	1610	-2030	N0
ATOM 8406 CA SER C 132	-48.223	23.874	50.165	1.00	49.92	C0	
ANISOU 8406 CA SER C 132	6350	6700	5920	-110	1590	-2010	C0
ATOM 8407 C SER C 132	-47.700	23.167	48.908	1.00	47.67	C0	
ANISOU 8407 C SER C 132	6050	6360	5700	-140	1490	-1840	C0
ATOM 8408 O SER C 132	-47.992	23.652	47.798	1.00	47.60	O0	
ANISOU 8408 O SER C 132	6020	6250	5810	-30	1490	-1780	O0
ATOM 8409 CB SER C 132	-47.276	24.964	50.601	1.00	50.63	C0	
ANISOU 8409 CB SER C 132	6580	6610	6050	-120	1590	-2120	C0
ATOM 8410 OG SER C 132	-47.803	25.673	51.708	1.00	53.42	O0	
ANISOU 8410 OG SER C 132	6950	7000	6340	-70	1680	-2300	O0
ATOM 8411 H SER C 132	-47.856	22.988	51.937	1.00	50.38	H0	
ANISOU 8411 H SER C 132	6430	6950	5750	-320	1600	-2090	H0
ATOM 8412 HA SER C 132	-49.100	24.290	49.944	1.00	50.68	H0	
ANISOU 8412 HA SER C 132	6380	6820	6050	20	1640	-2050	H0
ATOM 8413 HB2 SER C 132	-46.410	24.566	50.847	1.00	50.13	H0	
ANISOU 8413 HB2 SER C 132	6570	6540	5950	-240	1540	-2090	H0
ATOM 8414 HB3 SER C 132	-47.127	25.586	49.853	1.00	50.85	H0	
ANISOU 8414 HB3 SER C 132	6650	6490	6180	-40	1570	-2100	H0
ATOM 8415 N GLY C 133	-46.927	22.092	49.083	1.00	45.82	N0	
ANISOU 8415 N GLY C 133	5830	6180	5390	-300	1420	-1760	N0
ATOM 8416 CA GLY C 133	-46.384	21.272	47.983	1.00	44.34	C0	
ANISOU 8416 CA GLY C 133	5630	5960	5250	-340	1330	-1610	C0
ATOM 8417 C GLY C 133	-45.228	21.952	47.266	1.00	43.61	C0	
ANISOU 8417 C GLY C 133	5620	5680	5270	-330	1280	-1590	C0
ATOM 8418 O GLY C 133	-44.787	23.036	47.718	1.00	43.95	O0	
ANISOU 8418 O GLY C 133	5740	5610	5340	-320	1310	-1690	O0
ATOM 8419 H GLY C 133	-46.678	21.805	49.911	1.00	46.21	H0	
ANISOU 8419 H GLY C 133	5910	6290	5360	-380	1420	-1800	H0
ATOM 8420 HA2 GLY C 133	-46.080	20.404	48.347	1.00	43.71	H0	
ANISOU 8420 HA2 GLY C 133	5550	5960	5100	-430	1280	-1570	H0
ATOM 8421 HA3 GLY C 133	-47.109	21.093	47.333	1.00	44.09	H0	
ANISOU 8421 HA3 GLY C 133	5530	5970	5250	-270	1340	-1550	H0

ATOM 8422 N ALA C 134	-44.758	21.326	46.187	1.00	42.09	N0	
ANISOU 8422 N ALA C 134	5400	5470	5120	-350	1210	-1460	N0
ATOM 8423 CA ALA C 134	-43.692	21.826	45.293	1.00	42.30	C0	
ANISOU 8423 CA ALA C 134	5480	5350	5240	-360	1160	-1420	C0
ATOM 8424 C ALA C 134	-44.330	22.477	44.064	1.00	42.89	C0	
ANISOU 8424 C ALA C 134	5530	5340	5420	-240	1180	-1360	C0
ATOM 8425 O ALA C 134	-45.453	22.091	43.710	1.00	43.25	O0	
ANISOU 8425 O ALA C 134	5500	5470	5470	-160	1200	-1320	O0
ATOM 8426 CB ALA C 134	-42.796	20.681	44.889	1.00	41.25	C0	
ANISOU 8426 CB ALA C 134	5330	5270	5070	-450	1070	-1330	C0
ATOM 8427 H ALA C 134	-45.077	20.518	45.914	1.00	41.72	H0	
ANISOU 8427 H ALA C 134	5310	5500	5040	-360	1180	-1400	H0
ATOM 8428 HA ALA C 134	-43.160	22.501	45.774	1.00	42.93	H0	
ANISOU 8428 HA ALA C 134	5620	5360	5330	-390	1170	-1490	H0
ATOM 8429 HB1 ALA C 134	-42.075	21.014	44.328	1.00	40.96	H0	
ANISOU 8429 HB1 ALA C 134	5310	5160	5090	-460	1040	-1310	H0
ATOM 8430 HB2 ALA C 134	-42.420	20.266	45.684	1.00	41.19	H0	
ANISOU 8430 HB2 ALA C 134	5340	5320	4990	-520	1040	-1370	H0
ATOM 8431 HB3 ALA C 134	-43.312	20.022	44.395	1.00	40.64	H0	
ANISOU 8431 HB3 ALA C 134	5200	5250	4990	-420	1050	-1270	H0
ATOM 8432 N THR C 135	-43.626	23.421	43.439	1.00	44.02	N0	
ANISOU 8432 N THR C 135	5750	5330	5650	-230	1170	-1360	N0
ATOM 8433 CA THR C 135	-43.956	23.969	42.098	1.00	44.61	C0	
ANISOU 8433 CA THR C 135	5820	5300	5830	-140	1170	-1270	C0
ATOM 8434 C THR C 135	-42.836	23.581	41.123	1.00	43.69	C0	
ANISOU 8434 C THR C 135	5710	5170	5730	-230	1100	-1170	C0
ATOM 8435 O THR C 135	-41.785	24.247	41.125	1.00	44.27	O0	
ANISOU 8435 O THR C 135	5850	5140	5820	-310	1090	-1200	O0
ATOM 8436 CB THR C 135	-44.213	25.479	42.153	1.00	46.01	C0	
ANISOU 8436 CB THR C 135	6090	5310	6080	-60	1210	-1340	C0
ATOM 8437 OG1 THR C 135	-45.124	25.725	43.222	1.00	47.92	O0	
ANISOU 8437 OG1 THR C 135	6320	5600	6290	20	1280	-1450	O0
ATOM 8438 CG2 THR C 135	-44.793	26.010	40.860	1.00	46.53	C0	
ANISOU 8438 CG2 THR C 135	6160	5280	6240	60	1200	-1240	C0
ATOM 8439 H THR C 135	-42.881	23.803	43.797	1.00	44.20	H0	
ANISOU 8439 H THR C 135	5830	5300	5670	-290	1170	-1400	H0
ATOM 8440 HA THR C 135	-44.784	23.536	41.798	1.00	44.28	H0	
ANISOU 8440 HA THR C 135	5710	5340	5780	-80	1180	-1230	H0
ATOM 8441 HB THR C 135	-43.361	25.939	42.340	1.00	46.51	H0	
ANISOU 8441 HB THR C 135	6230	5290	6150	-130	1200	-1370	H0
ATOM 8442 HG21 THR C 135	-44.120	25.966	40.158	1.00	45.95	H0	
ANISOU 8442 HG21 THR C 135	6110	5170	6180	0	1170	-1170	H0
ATOM 8443 HG22 THR C 135	-45.070	26.936	40.984	1.00	47.63	H0	
ANISOU 8443 HG22 THR C 135	6370	5310	6420	130	1230	-1290	H0
ATOM 8444 HG23 THR C 135	-45.564	25.473	40.604	1.00	46.13	H0	
ANISOU 8444 HG23 THR C 135	6020	5330	6180	120	1210	-1200	H0
ATOM 8445 N CYS C 136	-43.058	22.523	40.341	1.00	43.10	N0	
ANISOU 8445 N CYS C 136	5550	5190	5630	-220	1060	-1070	N0
ATOM 8446 CA CYS C 136	-42.168	22.066	39.241	1.00	43.08	C0	
ANISOU 8446 CA CYS C 136	5530	5200	5640	-280	1010	-980	C0
ATOM 8447 C CYS C 136	-42.523	22.843	37.965	1.00	43.01	C0	
ANISOU 8447 C CYS C 136	5540	5090	5720	-210	1010	-900	C0
ATOM 8448 O CYS C 136	-43.686	22.747	37.517	1.00	42.31	O0	
ANISOU 8448 O CYS C 136	5400	5030	5650	-110	1030	-860	O0

ATOM 8449 CB CYS C 136	-42.305	20.561	39.040	1.00	43.24	C0	
ANISOU 8449 CB CYS C 136	5470	5360	5600	-290	960	-930	C0
ATOM 8450 SG CYS C 136	-41.435	19.928	37.584	1.00	45.01	S0	
ANISOU 8450 SG CYS C 136	5660	5610	5830	-330	890	-830	S0
ATOM 8451 H CYS C 136	-43.793	21.993	40.429	1.00	42.98	H0	
ANISOU 8451 H CYS C 136	5480	5260	5590	-180	1070	-1060	H0
ATOM 8452 HA CYS C 136	-41.237	22.267	39.492	1.00	43.14	H0	
ANISOU 8452 HA CYS C 136	5570	5180	5640	-350	990	-1020	H0
ATOM 8453 HB2 CYS C 136	-41.958	20.101	39.832	1.00	43.38	H0	
ANISOU 8453 HB2 CYS C 136	5490	5430	5560	-340	940	-970	H0
ATOM 8454 HB3 CYS C 136	-43.254	20.336	38.954	1.00	43.54	H0	
ANISOU 8454 HB3 CYS C 136	5470	5440	5630	-240	970	-910	H0
ATOM 8455 N ARG C 137	-41.570	23.615	37.431	1.00	43.52	N0	
ANISOU 8455 N ARG C 137	5670	5050	5820	-270	1010	-890	N0
ATOM 8456 CA ARG C 137	-41.741	24.428	36.196	1.00	44.06	C0	
ANISOU 8456 CA ARG C 137	5780	5010	5950	-240	1000	-800	C0
ATOM 8457 C ARG C 137	-41.096	23.688	35.019	1.00	42.79	C0	
ANISOU 8457 C ARG C 137	5560	4940	5770	-300	960	-700	C0
ATOM 8458 O ARG C 137	-39.921	23.290	35.129	1.00	42.22	O0	
ANISOU 8458 O ARG C 137	5470	4920	5650	-410	940	-720	O0
ATOM 8459 CB ARG C 137	-41.170	25.835	36.391	1.00	45.63	C0	
ANISOU 8459 CB ARG C 137	6110	5030	6200	-290	1020	-840	C0
ATOM 8460 CG ARG C 137	-41.827	26.593	37.537	1.00	47.46	C0	
ANISOU 8460 CG ARG C 137	6410	5180	6450	-210	1060	-950	C0
ATOM 8461 CD ARG C 137	-41.536	28.080	37.545	1.00	49.14	C0	
ANISOU 8461 CD ARG C 137	6780	5170	6720	-230	1070	-980	C0
ATOM 8462 NE ARG C 137	-41.617	28.650	38.887	1.00	50.77	N0	
ANISOU 8462 NE ARG C 137	7050	5310	6920	-220	1110	-1120	N0
ATOM 8463 CZ ARG C 137	-42.738	28.976	39.532	1.00	51.89	C0	
ANISOU 8463 CZ ARG C 137	7200	5430	7080	-70	1150	-1200	C0
ATOM 8464 NH1 ARG C 137	-43.923	28.794	38.972	1.00	52.37	N0	
ANISOU 8464 NH1 ARG C 137	7190	5530	7180	90	1150	-1140	N0
ATOM 8465 NH2 ARG C 137	-42.669	29.491	40.748	1.00	52.58	N0	
ANISOU 8465 NH2 ARG C 137	7360	5470	7150	-80	1180	-1340	N0
ATOM 8466 H ARG C 137	-40.741	23.691	37.801	1.00	43.53	H0	
ANISOU 8466 H ARG C 137	5690	5050	5800	-360	1000	-920	H0
ATOM 8467 HA ARG C 137	-42.704	24.511	36.020	1.00	44.26	H0	
ANISOU 8467 HA ARG C 137	5790	5030	6000	-140	1020	-770	H0
ATOM 8468 HB2 ARG C 137	-40.209	25.764	36.565	1.00	45.61	H0	
ANISOU 8468 HB2 ARG C 137	6110	5050	6170	-400	1010	-860	H0
ATOM 8469 HB3 ARG C 137	-41.292	26.341	35.562	1.00	46.22	H0	
ANISOU 8469 HB3 ARG C 137	6220	5030	6310	-270	1010	-770	H0
ATOM 8470 HG2 ARG C 137	-42.798	26.465	37.488	1.00	47.35	H0	
ANISOU 8470 HG2 ARG C 137	6350	5190	6450	-100	1080	-940	H0
ATOM 8471 HG3 ARG C 137	-41.522	26.211	38.388	1.00	47.00	H0	
ANISOU 8471 HG3 ARG C 137	6330	5180	6350	-260	1070	-1020	H0
ATOM 8472 HD2 ARG C 137	-40.636	28.232	37.185	1.00	49.29	H0	
ANISOU 8472 HD2 ARG C 137	6830	5170	6730	-350	1050	-950	H0
ATOM 8473 HD3 ARG C 137	-42.174	28.538	36.958	1.00	49.88	H0	
ANISOU 8473 HD3 ARG C 137	6900	5190	6860	-140	1070	-930	H0
ATOM 8474 HE ARG C 137	-40.864	28.793	39.303	1.00	50.84	H0	
ANISOU 8474 HE ARG C 137	7100	5310	6910	-320	1110	-1170	H0
ATOM 8475 HH11 ARG C 137	-43.984	28.454	38.165	1.00	51.57	H0	
ANISOU 8475 HH11 ARG C 137	7050	5460	7080	90	1130	-1050	H0

ATOM	8476	HH12	ARG	C	137	-44.652	29.014	39.411	1.00	52.81	H0	
ANISOU	8476	HH12	ARG	C	137	7240	5580	7240	190	1180	-1200	H0
ATOM	8477	HH21	ARG	C	137	-41.885	29.615	41.129	1.00	52.73	H0	
ANISOU	8477	HH21	ARG	C	137	7420	5470	7150	-190	1180	-1380	H0
ATOM	8478	HH22	ARG	C	137	-43.408	29.706	41.177	1.00	53.30	H0	
ANISOU	8478	HH22	ARG	C	137	7450	5550	7250	20	1210	-1400	H0
ATOM	8479	N	ILE	C	138	-41.869	23.491	33.950	1.00	42.41	N0	
ANISOU	8479	N	ILE	C	138	5480	4900	5740	-220	950	-600	N0
ATOM	8480	CA	ILE	C	138	-41.454	22.806	32.692	1.00	41.54	C0	
ANISOU	8480	CA	ILE	C	138	5310	4880	5600	-260	910	-510	C0
ATOM	8481	C	ILE	C	138	-41.620	23.812	31.552	1.00	42.16	C0	
ANISOU	8481	C	ILE	C	138	5450	4850	5720	-240	910	-410	C0
ATOM	8482	O	ILE	C	138	-42.743	24.329	31.394	1.00	42.89	O0	
ANISOU	8482	O	ILE	C	138	5570	4870	5860	-130	920	-380	O0
ATOM	8483	CB	ILE	C	138	-42.284	21.523	32.468	1.00	40.96	C0	
ANISOU	8483	CB	ILE	C	138	5140	4940	5480	-190	880	-480	C0
ATOM	8484	CG1	ILE	C	138	-42.001	20.470	33.543	1.00	40.37	C0	
ANISOU	8484	CG1	ILE	C	138	5030	4960	5350	-230	870	-560	C0
ATOM	8485	CG2	ILE	C	138	-42.066	20.960	31.070	1.00	40.36	C0	
ANISOU	8485	CG2	ILE	C	138	5030	4930	5380	-210	850	-380	C0
ATOM	8486	CD1	ILE	C	138	-42.927	19.272	33.493	1.00	40.21	C0	
ANISOU	8486	CD1	ILE	C	138	4940	5050	5290	-180	840	-530	C0
ATOM	8487	H	ILE	C	138	-42.734	23.776	33.923	1.00	42.82	H0	
ANISOU	8487	H	ILE	C	138	5530	4920	5820	-130	960	-590	H0
ATOM	8488	HA	ILE	C	138	-40.516	22.561	32.763	1.00	41.33	H0	
ANISOU	8488	HA	ILE	C	138	5270	4890	5540	-340	900	-530	H0
ATOM	8489	HB	ILE	C	138	-43.238	21.772	32.543	1.00	41.24	H0	
ANISOU	8489	HB	ILE	C	138	5180	4950	5540	-110	900	-470	H0
ATOM	8490	HG12	ILE	C	138	-41.076	20.158	33.440	1.00	40.15	H0	
ANISOU	8490	HG12	ILE	C	138	4990	4960	5300	-290	850	-570	H0
ATOM	8491	HG13	ILE	C	138	-42.080	20.891	34.425	1.00	40.85	H0	
ANISOU	8491	HG13	ILE	C	138	5120	4980	5420	-220	900	-620	H0
ATOM	8492	HG21	ILE	C	138	-42.455	21.560	30.410	1.00	40.93	H0	
ANISOU	8492	HG21	ILE	C	138	5120	4940	5480	-170	850	-320	H0
ATOM	8493	HG22	ILE	C	138	-42.489	20.088	30.996	1.00	39.80	H0	
ANISOU	8493	HG22	ILE	C	138	4900	4940	5280	-180	830	-370	H0
ATOM	8494	HG23	ILE	C	138	-41.112	20.870	30.900	1.00	40.28	H0	
ANISOU	8494	HG23	ILE	C	138	5020	4940	5350	-280	840	-400	H0
ATOM	8495	HD11	ILE	C	138	-43.833	19.568	33.300	1.00	40.39	H0	
ANISOU	8495	HD11	ILE	C	138	4950	5060	5330	-120	860	-500	H0
ATOM	8496	HD12	ILE	C	138	-42.913	18.814	34.352	1.00	39.84	H0	
ANISOU	8496	HD12	ILE	C	138	4890	5040	5210	-200	840	-580	H0
ATOM	8497	HD13	ILE	C	138	-42.632	18.660	32.797	1.00	39.56	H0	
ANISOU	8497	HD13	ILE	C	138	4830	5020	5180	-200	810	-490	H0
ATOM	8498	N	LYS	C	139	-40.539	24.096	30.820	1.00	42.09	N0	
ANISOU	8498	N	LYS	C	139	5470	4830	5690	-360	900	-370	N0
ATOM	8499	CA	LYS	C	139	-40.528	25.029	29.662	1.00	43.24	C0	
ANISOU	8499	CA	LYS	C	139	5690	4870	5860	-380	890	-270	C0
ATOM	8500	C	LYS	C	139	-40.494	24.211	28.367	1.00	42.07	C0	
ANISOU	8500	C	LYS	C	139	5470	4850	5660	-390	870	-180	C0
ATOM	8501	O	LYS	C	139	-39.640	23.322	28.256	1.00	40.74	O0	
ANISOU	8501	O	LYS	C	139	5220	4820	5430	-460	860	-210	O0
ATOM	8502	CB	LYS	C	139	-39.338	25.989	29.745	1.00	44.99	C0	
ANISOU	8502	CB	LYS	C	139	6010	5000	6080	-530	910	-280	C0

ATOM 8503 CG LYS C 139	-39.530	27.162	30.696	1.00	46.98	C0	
ANISOU 8503 CG LYS C 139	6390	5070	6390	-520	930	-350	C0
ATOM 8504 CD LYS C 139	-38.506	28.274	30.528	1.00	48.68	C0	
ANISOU 8504 CD LYS C 139	6730	5160	6610	-690	930	-330	C0
ATOM 8505 CE LYS C 139	-38.745	29.433	31.474	1.00	50.23	C0	
ANISOU 8505 CE LYS C 139	7070	5150	6870	-660	940	-410	C0
ATOM 8506 NZ LYS C 139	-37.750	30.515	31.281	1.00	52.22	N0	
ANISOU 8506 NZ LYS C 139	7460	5270	7110	-850	930	-390	N0
ATOM 8507 H LYS C 139	-39.725	23.723	30.990	1.00	41.84	H0	
ANISOU 8507 H LYS C 139	5410	4860	5630	-430	900	-410	H0
ATOM 8508 HA LYS C 139	-41.358	25.556	29.680	1.00	43.84	H0	
ANISOU 8508 HA LYS C 139	5820	4860	5980	-290	890	-250	H0
ATOM 8509 HB2 LYS C 139	-38.548	25.483	30.028	1.00	44.48	H0	
ANISOU 8509 HB2 LYS C 139	5890	5040	5980	-610	910	-330	H0
ATOM 8510 HB3 LYS C 139	-39.160	26.342	28.848	1.00	45.51	H0	
ANISOU 8510 HB3 LYS C 139	6110	5050	6140	-580	900	-200	H0
ATOM 8511 HG2 LYS C 139	-40.427	27.534	30.558	1.00	47.32	H0	
ANISOU 8511 HG2 LYS C 139	6470	5030	6480	-410	920	-320	H0
ATOM 8512 HG3 LYS C 139	-39.485	26.828	31.618	1.00	46.43	H0	
ANISOU 8512 HG3 LYS C 139	6280	5040	6320	-510	940	-440	H0
ATOM 8513 HD2 LYS C 139	-37.609	27.912	30.688	1.00	48.29	H0	
ANISOU 8513 HD2 LYS C 139	6620	5210	6520	-790	940	-370	H0
ATOM 8514 HD3 LYS C 139	-38.540	28.605	29.605	1.00	49.17	H0	
ANISOU 8514 HD3 LYS C 139	6830	5190	6670	-710	910	-240	H0
ATOM 8515 HE2 LYS C 139	-39.639	29.795	31.328	1.00	50.77	H0	
ANISOU 8515 HE2 LYS C 139	7190	5120	6980	-540	930	-380	H0
ATOM 8516 HE3 LYS C 139	-38.694	29.117	32.396	1.00	49.84	H0	
ANISOU 8516 HE3 LYS C 139	6980	5140	6810	-650	960	-500	H0
ATOM 8517 HZ1 LYS C 139	-36.915	30.196	31.431	1.00	51.73	H0	
ANISOU 8517 HZ1 LYS C 139	7340	5310	7000	-960	940	-420	H0
ATOM 8518 HZ2 LYS C 139	-37.917	31.193	31.860	1.00	52.95	H0	
ANISOU 8518 HZ2 LYS C 139	7650	5230	7240	-830	940	-440	H0
ATOM 8519 HZ3 LYS C 139	-37.800	30.831	30.432	1.00	52.60	H0	
ANISOU 8519 HZ3 LYS C 139	7550	5270	7160	-870	920	-300	H0
ATOM 8520 N ILE C 140	-41.412	24.496	27.440	1.00	41.82	N0	
ANISOU 8520 N ILE C 140	5460	4780	5650	-310	850	-70	N0
ATOM 8521 CA ILE C 140	-41.472	23.861	26.094	1.00	41.09	C0	
ANISOU 8521 CA ILE C 140	5310	4800	5500	-320	820	20	C0
ATOM 8522 C ILE C 140	-41.535	24.964	25.033	1.00	41.71	C0	
ANISOU 8522 C ILE C 140	5490	4760	5590	-350	800	150	C0
ATOM 8523 O ILE C 140	-42.317	25.918	25.198	1.00	42.49	O0	
ANISOU 8523 O ILE C 140	5680	4710	5760	-260	790	180	O0
ATOM 8524 CB ILE C 140	-42.654	22.880	25.999	1.00	40.99	C0	
ANISOU 8524 CB ILE C 140	5210	4880	5480	-190	790	40	C0
ATOM 8525 CG1 ILE C 140	-42.466	21.707	26.962	1.00	40.55	C0	
ANISOU 8525 CG1 ILE C 140	5070	4940	5400	-200	800	-70	C0
ATOM 8526 CG2 ILE C 140	-42.852	22.397	24.567	1.00	40.90	C0	
ANISOU 8526 CG2 ILE C 140	5160	4960	5420	-200	760	140	C0
ATOM 8527 CD1 ILE C 140	-43.750	21.017	27.338	1.00	40.71	C0	
ANISOU 8527 CD1 ILE C 140	5030	5010	5420	-90	780	-80	C0
ATOM 8528 H ILE C 140	-42.072	25.108	27.579	1.00	42.55	H0	
ANISOU 8528 H ILE C 140	5600	4780	5790	-240	850	-60	H0
ATOM 8529 HA ILE C 140	-40.653	23.357	25.961	1.00	40.69	H0	
ANISOU 8529 HA ILE C 140	5220	4840	5410	-400	820	0	H0

ATOM 8530 HB ILE C 140	-43.471	23.366	26.272	1.00	41.50	H0
ANISOU 8530 HB ILE C 140	5300	4870	5600	-110	790	50
ATOM 8531 HG12 ILE C 140	-41.866	21.052	26.546	1.00	40.01	H0
ANISOU 8531 HG12 ILE C 140	4960	4960	5280	-250	790	-70
ATOM 8532 HG13 ILE C 140	-42.035	22.032	27.779	1.00	40.63	H0
ANISOU 8532 HG13 ILE C 140	5110	4900	5430	-230	820	-130
ATOM 8533 HG21 ILE C 140	-43.331	23.073	24.057	1.00	41.70	H0
ANISOU 8533 HG21 ILE C 140	5310	4990	5540	-160	750	210
ATOM 8534 HG22 ILE C 140	-43.367	21.572	24.569	1.00	40.23	H0
ANISOU 8534 HG22 ILE C 140	5010	4960	5310	-150	740	130
ATOM 8535 HG23 ILE C 140	-41.986	22.235	24.154	1.00	40.81	H0
ANISOU 8535 HG23 ILE C 140	5140	5000	5360	-290	770	140
ATOM 8536 HD11 ILE C 140	-44.340	21.648	27.785	1.00	41.10	H0
ANISOU 8536 HD11 ILE C 140	5100	4990	5520	-30	800	-90
ATOM 8537 HD12 ILE C 140	-43.556	20.275	27.936	1.00	39.85	H0
ANISOU 8537 HD12 ILE C 140	4880	4970	5290	-110	780	-140
ATOM 8538 HD13 ILE C 140	-44.186	20.680	26.536	1.00	40.44	H0
ANISOU 8538 HD13 ILE C 140	4970	5030	5370	-60	760	-10
ATOM 8539 N GLY C 141	-40.712	24.825	23.994	1.00	41.18	N0
ANISOU 8539 N GLY C 141	5410	4780	5460	-470	800	210
ATOM 8540 CA GLY C 141	-40.665	25.715	22.824	1.00	42.11	C0
ANISOU 8540 CA GLY C 141	5630	4820	5550	-530	780	340
ATOM 8541 C GLY C 141	-39.913	25.046	21.694	1.00	41.58	C0
ANISOU 8541 C GLY C 141	5490	4930	5380	-640	790	380
ATOM 8542 O GLY C 141	-39.356	23.957	21.926	1.00	40.48	O0
ANISOU 8542 O GLY C 141	5230	4950	5200	-660	800	290
ATOM 8543 H GLY C 141	-40.108	24.144	23.954	1.00	40.59	H0
ANISOU 8543 H GLY C 141	5270	4820	5330	-520	810	170
ATOM 8544 HA2 GLY C 141	-41.589	25.922	22.533	1.00	42.46	H0
ANISOU 8544 HA2 GLY C 141	5700	4810	5630	-430	750	400
ATOM 8545 HA3 GLY C 141	-40.215	26.561	23.072	1.00	43.05	H0
ANISOU 8545 HA3 GLY C 141	5840	4830	5690	-600	790	340
ATOM 8546 N SER C 142	-39.906	25.664	20.515	1.00	42.28	N0
ANISOU 8546 N SER C 142	5650	4990	5430	-700	770	510
ATOM 8547 CA SER C 142	-39.188	25.170	19.315	1.00	42.34	C0
ANISOU 8547 CA SER C 142	5600	5170	5320	-820	780	560
ATOM 8548 C SER C 142	-37.684	25.127	19.599	1.00	42.38	C0
ANISOU 8548 C SER C 142	5560	5280	5270	-990	830	480
ATOM 8549 O SER C 142	-37.183	26.032	20.294	1.00	43.86	O0
ANISOU 8549 O SER C 142	5830	5340	5500	-1080	850	460
ATOM 8550 CB SER C 142	-39.478	26.020	18.115	1.00	43.63	C0
ANISOU 8550 CB SER C 142	5870	5260	5440	-880	740	720
ATOM 8551 OG SER C 142	-38.586	25.691	17.066	1.00	44.04	O0
ANISOU 8551 OG SER C 142	5870	5490	5370	-1030	770	760
ATOM 8552 H SER C 142	-40.350	26.445	20.359	1.00	43.29	H0
ANISOU 8552 H SER C 142	5870	4990	5590	-680	740	580
ATOM 8553 HA SER C 142	-39.499	24.244	19.130	1.00	41.35	H0
ANISOU 8553 HA SER C 142	5380	5160	5170	-750	770	530
ATOM 8554 HB2 SER C 142	-40.405	25.871	17.821	1.00	43.56	H0
ANISOU 8554 HB2 SER C 142	5870	5230	5450	-760	710	770
ATOM 8555 HB3 SER C 142	-39.376	26.969	18.350	1.00	44.70	H0
ANISOU 8555 HB3 SER C 142	6120	5250	5610	-920	740	760
ATOM 8556 N TRP C 143	-36.983	24.135	19.050	1.00	41.49	N0
ANISOU 8556 N TRP C 143	5320	5380	5060	-1040	850	430

ATOM 8557 CA TRP C 143	-35.511	24.008	19.203	1.00	41.67	C0	
ANISOU 8557 CA TRP C 143	5260	5550	5020	-1190	900	340	C0
ATOM 8558 C TRP C 143	-34.788	24.880	18.167	1.00	42.92	C0	
ANISOU 8558 C TRP C 143	5480	5740	5090	-1390	930	450	C0
ATOM 8559 O TRP C 143	-33.730	25.430	18.516	1.00	43.87	O0	
ANISOU 8559 O TRP C 143	5600	5890	5190	-1560	970	410	O0
ATOM 8560 CB TRP C 143	-35.076	22.540	19.136	1.00	40.78	C0	
ANISOU 8560 CB TRP C 143	4980	5660	4850	-1130	910	230	C0
ATOM 8561 CG TRP C 143	-33.655	22.343	19.565	1.00	41.61	C0	
ANISOU 8561 CG TRP C 143	4990	5910	4910	-1240	950	120	C0
ATOM 8562 CD1 TRP C 143	-32.607	21.967	18.776	1.00	42.46	C0	
ANISOU 8562 CD1 TRP C 143	4990	6240	4910	-1340	980	80	C0
ATOM 8563 CD2 TRP C 143	-33.108	22.559	20.879	1.00	41.58	C0	
ANISOU 8563 CD2 TRP C 143	4970	5860	4970	-1260	960	20	C0
ATOM 8564 NE1 TRP C 143	-31.455	21.915	19.512	1.00	42.70	N0	
ANISOU 8564 NE1 TRP C 143	4930	6370	4920	-1410	1010	-30	N0
ATOM 8565 CE2 TRP C 143	-31.730	22.271	20.805	1.00	42.40	C0	
ANISOU 8565 CE2 TRP C 143	4950	6170	4990	-1370	990	-70	C0
ATOM 8566 CE3 TRP C 143	-33.645	22.956	22.108	1.00	41.31	C0	
ANISOU 8566 CE3 TRP C 143	5020	5640	5040	-1190	940	-10	C0
ATOM 8567 CZ2 TRP C 143	-30.888	22.368	21.913	1.00	42.73	C0	
ANISOU 8567 CZ2 TRP C 143	4950	6230	5060	-1420	1000	-180	C0
ATOM 8568 CZ3 TRP C 143	-32.815	23.044	23.203	1.00	41.39	C0	
ANISOU 8568 CZ3 TRP C 143	4990	5670	5070	-1250	950	-120	C0
ATOM 8569 CH2 TRP C 143	-31.455	22.760	23.104	1.00	42.12	C0	
ANISOU 8569 CH2 TRP C 143	4960	5960	5080	-1360	980	-190	C0
ATOM 8570 H TRP C 143	-37.359	23.474	18.549	1.00	41.04	H0	
ANISOU 8570 H TRP C 143	5210	5410	4980	-980	840	440	H0
ATOM 8571 HA TRP C 143	-35.278	24.341	20.101	1.00	41.62	H0	
ANISOU 8571 HA TRP C 143	5280	5470	5070	-1210	910	290	H0
ATOM 8572 HB2 TRP C 143	-35.666	22.012	19.712	1.00	39.86	H0	
ANISOU 8572 HB2 TRP C 143	4850	5500	4790	-1010	880	190	H0
ATOM 8573 HB3 TRP C 143	-35.186	22.223	18.216	1.00	41.01	H0	
ANISOU 8573 HB3 TRP C 143	4990	5780	4820	-1130	910	280	H0
ATOM 8574 HD1 TRP C 143	-32.664	21.760	17.856	1.00	42.76	H0	
ANISOU 8574 HD1 TRP C 143	5010	6360	4880	-1350	990	130	H0
ATOM 8575 HE1 TRP C 143	-30.672	21.687	19.202	1.00	43.34	H0	
ANISOU 8575 HE1 TRP C 143	4920	6610	4940	-1470	1040	-80	H0
ATOM 8576 HE3 TRP C 143	-34.566	23.151	22.186	1.00	40.99	H0	
ANISOU 8576 HE3 TRP C 143	5050	5480	5050	-1110	920	40	H0
ATOM 8577 HZ2 TRP C 143	-29.970	22.172	21.848	1.00	43.13	H0	
ANISOU 8577 HZ2 TRP C 143	4900	6430	5050	-1490	1020	-240	H0
ATOM 8578 HZ3 TRP C 143	-33.172	23.313	24.035	1.00	41.14	H0	
ANISOU 8578 HZ3 TRP C 143	5010	5520	5100	-1210	940	-140	H0
ATOM 8579 HH2 TRP C 143	-30.914	22.832	23.868	1.00	42.15	H0	
ANISOU 8579 HH2 TRP C 143	4940	5980	5100	-1390	980	-270	H0
ATOM 8580 N THR C 144	-35.329	25.019	16.951	1.00	43.12	N0	
ANISOU 8580 N THR C 144	5550	5780	5060	-1400	910	580	N0
ATOM 8581 CA THR C 144	-34.608	25.622	15.793	1.00	44.83	C0	
ANISOU 8581 CA THR C 144	5800	6080	5150	-1610	930	680	C0
ATOM 8582 C THR C 144	-35.418	26.722	15.089	1.00	46.22	C0	
ANISOU 8582 C THR C 144	6170	6060	5330	-1630	880	860	C0
ATOM 8583 O THR C 144	-34.901	27.248	14.083	1.00	47.77	O0	
ANISOU 8583 O THR C 144	6420	6320	5420	-1820	900	970	O0

ATOM 8584 CB THR C 144	-34.241	24.539	14.773	1.00	44.26	C0	
ANISOU 8584 CB THR C 144	5590	6280	4950	-1610	960	650	C0
ATOM 8585 OG1 THR C 144	-35.449	24.134	14.128	1.00	43.36	O0	
ANISOU 8585 OG1 THR C 144	5500	6130	4840	-1470	900	720	O0
ATOM 8586 CG2 THR C 144	-33.555	23.350	15.409	1.00	42.92	C0	
ANISOU 8586 CG2 THR C 144	5240	6290	4780	-1540	990	460	C0
ATOM 8587 H THR C 144	-36.163	24.726	16.734	1.00	42.72	H0	
ANISOU 8587 H THR C 144	5510	5690	5030	-1290	870	610	H0
ATOM 8588 HA THR C 144	-33.777	26.019	16.129	1.00	45.43	H0	
ANISOU 8588 HA THR C 144	5870	6180	5210	-1730	970	640	H0
ATOM 8589 HB THR C 144	-33.636	24.935	14.101	1.00	45.44	H0	
ANISOU 8589 HB THR C 144	5740	6510	5010	-1770	990	700	H0
ATOM 8590 HG21 THR C 144	-32.904	23.661	16.063	1.00	43.18	H0	
ANISOU 8590 HG21 THR C 144	5260	6320	4830	-1610	1010	410	H0
ATOM 8591 HG22 THR C 144	-33.100	22.831	14.721	1.00	43.22	H0	
ANISOU 8591 HG22 THR C 144	5190	6510	4720	-1580	1010	440	H0
ATOM 8592 HG23 THR C 144	-34.217	22.790	15.852	1.00	41.79	H0	
ANISOU 8592 HG23 THR C 144	5080	6100	4700	-1390	960	420	H0
ATOM 8593 N HIS C 145	-36.631	27.041	15.553	1.00	45.85	N0	
ANISOU 8593 N HIS C 145	6220	5800	5400	-1460	820	900	N0
ATOM 8594 CA HIS C 145	-37.506	28.073	14.935	1.00	47.78	C0	
ANISOU 8594 CA HIS C 145	6650	5840	5670	-1440	760	1080	C0
ATOM 8595 C HIS C 145	-37.748	29.216	15.928	1.00	48.72	C0	
ANISOU 8595 C HIS C 145	6920	5680	5910	-1420	730	1080	C0
ATOM 8596 O HIS C 145	-38.259	28.952	17.026	1.00	47.91	O0	
ANISOU 8596 O HIS C 145	6780	5500	5920	-1260	730	970	O0
ATOM 8597 CB HIS C 145	-38.828	27.469	14.443	1.00	47.10	C0	
ANISOU 8597 CB HIS C 145	6520	5770	5600	-1240	700	1130	C0
ATOM 8598 CG HIS C 145	-38.687	26.425	13.386	1.00	46.90	C0	
ANISOU 8598 CG HIS C 145	6370	5990	5450	-1260	710	1130	C0
ATOM 8599 ND1 HIS C 145	-38.265	26.721	12.103	1.00	48.12	N0	
ANISOU 8599 ND1 HIS C 145	6570	6240	5470	-1420	710	1250	N0
ATOM 8600 CD2 HIS C 145	-38.948	25.099	13.402	1.00	45.42	C0	
ANISOU 8600 CD2 HIS C 145	6030	5970	5250	-1150	720	1030	C0
ATOM 8601 CE1 HIS C 145	-38.258	25.620	11.382	1.00	47.59	C0	
ANISOU 8601 CE1 HIS C 145	6370	6400	5310	-1400	730	1210	C0
ATOM 8602 NE2 HIS C 145	-38.672	24.610	12.154	1.00	45.96	N0	
ANISOU 8602 NE2 HIS C 145	6050	6230	5180	-1230	730	1080	N0
ATOM 8603 H HIS C 145	-37.009	26.659	16.286	1.00	44.92	H0	
ANISOU 8603 H HIS C 145	6060	5650	5360	-1340	820	830	H0
ATOM 8604 HA HIS C 145	-37.032	28.444	14.155	1.00	48.90	H0	
ANISOU 8604 HA HIS C 145	6830	6020	5720	-1590	770	1160	H0
ATOM 8605 HB2 HIS C 145	-39.300	27.078	15.210	1.00	46.07	H0	
ANISOU 8605 HB2 HIS C 145	6340	5610	5560	-1100	690	1050	H0
ATOM 8606 HB3 HIS C 145	-39.391	28.194	14.092	1.00	48.21	H0	
ANISOU 8606 HB3 HIS C 145	6780	5770	5760	-1210	650	1240	H0
ATOM 8607 HD2 HIS C 145	-39.260	24.602	14.132	1.00	44.30	H0	
ANISOU 8607 HD2 HIS C 145	5830	5820	5180	-1040	720	950	H0
ATOM 8608 HE1 HIS C 145	-37.999	25.555	10.479	1.00	48.35	H0	
ANISOU 8608 HE1 HIS C 145	6470	6610	5300	-1490	730	1270	H0
ATOM 8609 N HIS C 146	-37.405	30.440	15.529	1.00	51.40	N0	
ANISOU 8609 N HIS C 146	7450	5860	6220	-1580	710	1200	N0
ATOM 8610 CA HIS C 146	-37.669	31.699	16.279	1.00	53.12	C0	
ANISOU 8610 CA HIS C 146	7870	5770	6550	-1560	670	1220	C0

ATOM 8611 C HIS C 146	-39.142	32.107	16.107	1.00	53.53	C0
ANISOU 8611 C HIS C 146	8030	5620	6690	-1330	580 1320	C0
ATOM 8612 O HIS C 146	-39.872	31.421	15.357	1.00	52.53	O0
ANISOU 8612 O HIS C 146	7810	5620	6530	-1210	550 1370	O0
ATOM 8613 CB HIS C 146	-36.678	32.794	15.847	1.00	55.65	C0
ANISOU 8613 CB HIS C 146	8350	6000	6790	-1850	680 1320	C0
ATOM 8614 CG HIS C 146	-36.631	33.047	14.377	1.00	57.26	C0
ANISOU 8614 CG HIS C 146	8630	6260	6860	-1980	650 1500	C0
ATOM 8615 ND1 HIS C 146	-37.668	33.647	13.692	1.00	58.59	N0
ANISOU 8615 ND1 HIS C 146	8960	6250	7050	-1870	550 1660	N0
ATOM 8616 CD2 HIS C 146	-35.663	32.815	13.466	1.00	58.47	C0
ANISOU 8616 CD2 HIS C 146	8720	6640	6860	-2220	700 1550	C0
ATOM 8617 CE1 HIS C 146	-37.348	33.753	12.417	1.00	60.12	C0
ANISOU 8617 CE1 HIS C 146	9190	6550	7100	-2040	540 1810	C0
ATOM 8618 NE2 HIS C 146	-36.121	33.258	12.253	1.00	60.06	N0
ANISOU 8618 NE2 HIS C 146	9050	6800	6980	-2260	630 1740	N0
ATOM 8619 H HIS C 146	-36.972	30.592	14.744	1.00	52.23	H0
ANISOU 8619 H HIS C 146	7570	6040	6240	-1710	720 1270	H0
ATOM 8620 HA HIS C 146	-37.519	31.513	17.235	1.00	52.24	H0
ANISOU 8620 HA HIS C 146	7710	5640	6500	-1520	700 1110	H0
ATOM 8621 HB2 HIS C 146	-36.914	33.632	16.302	1.00	56.60	H0
ANISOU 8621 HB2 HIS C 146	8630	5900	6980	-1830	640 1340	H0
ATOM 8622 HB3 HIS C 146	-35.779	32.539	16.148	1.00	55.31	H0
ANISOU 8622 HB3 HIS C 146	8230	6090	6700	-1980	730 1240	H0
ATOM 8623 HD2 HIS C 146	-34.827	32.420	13.629	1.00	57.94	H0
ANISOU 8623 HD2 HIS C 146	8530	6750	6740	-2330	760 1460	H0
ATOM 8624 HE1 HIS C 146	-37.890	34.123	11.741	1.00	61.11	H0
ANISOU 8624 HE1 HIS C 146	9430	6590	7200	-2010	470 1940	H0
ATOM 8625 N SER C 147	-39.547	33.194	16.771	1.00	54.72	N0
ANISOU 8625 N SER C 147	8370	5480	6940	-1260	530 1330	N0
ATOM 8626 CA SER C 147	-40.950	33.665	16.925	1.00	55.56	C0
ANISOU 8626 CA SER C 147	8570	5380	7160	-1000	450 1370	C0
ATOM 8627 C SER C 147	-41.610	33.966	15.573	1.00	56.94	C0
ANISOU 8627 C SER C 147	8830	5530	7280	-960	360 1570	C0
ATOM 8628 O SER C 147	-42.856	33.918	15.519	1.00	57.09	O0
ANISOU 8628 O SER C 147	8840	5490	7370	-720	300 1600	O0
ATOM 8629 CB SER C 147	-40.998	34.875	17.821	1.00	57.05	C0
ANISOU 8629 CB SER C 147	8960	5260	7450	-970	420 1340	C0
ATOM 8630 OG SER C 147	-40.130	35.891	17.340	1.00	59.28	O0
ANISOU 8630 OG SER C 147	9450	5400	7670	-1220	400 1450	O0
ATOM 8631 H SER C 147	-38.961	33.743	17.202	1.00	55.51	H0
ANISOU 8631 H SER C 147	8550	5490	7050	-1370	550 1300	H0
ATOM 8632 HA SER C 147	-41.466	32.937	17.362	1.00	54.07	H0
ANISOU 8632 HA SER C 147	8240	5290	7010	-850	470 1290	H0
ATOM 8633 HB2 SER C 147	-41.919	35.219	17.858	1.00	57.70	H0
ANISOU 8633 HB2 SER C 147	9110	5210	7600	-790	360 1370	H0
ATOM 8634 HB3 SER C 147	-40.729	34.619	18.732	1.00	56.17	H0
ANISOU 8634 HB3 SER C 147	8780	5180	7380	-960	470 1210	H0
ATOM 8635 N ARG C 148	-40.826	34.274	14.532	1.00	58.27	N0
ANISOU 8635 N ARG C 148	9080	5740	7320	-1210	360 1700	N0
ATOM 8636 CA AARG C 148	-41.327	34.679	13.187	0.50	60.12	C0
ANISOU 8636 CA AARG C 148	9430	5940	7470	-1220	270 1900	C0
ATOM 8637 CA BARG C 148	-41.373	34.678	13.207	0.50	60.00	C0
ANISOU 8637 CA BARG C 148	9420	5920	7460	-1200	270 1900	C0

ATOM 8638 C ARG C 148	-41.629	33.434	12.343	1.00	58.55		C0
ANISOU 8638 C ARG C 148	9020	6040	7180	-1170	290	1920	C0
ATOM 8639 O ARG C 148	-42.191	33.600	11.243	1.00	59.17		O0
ANISOU 8639 O ARG C 148	9170	6120	7200	-1150	210	2080	O0
ATOM 8640 CB AARG C 148	-40.310	35.574	12.467	0.50	62.57		C0
ANISOU 8640 CB AARG C 148	9940	6170	7670	-1530	260	2040	C0
ATOM 8641 CB BARG C 148	-40.438	35.677	12.516	0.50	62.45		C0
ANISOU 8641 CB BARG C 148	9940	6120	7670	-1500	250	2050	C0
ATOM 8642 CG AARG C 148	-40.559	37.068	12.615	0.50	65.37		C0
ANISOU 8642 CG AARG C 148	10600	6150	8090	-1530	160	2150	C0
ATOM 8643 CG BARG C 148	-41.164	36.872	11.914	0.50	65.14		C0
ANISOU 8643 CG BARG C 148	10560	6160	8030	-1440	110	2240	C0
ATOM 8644 CD AARG C 148	-39.922	37.876	11.495	0.50	68.10		C0
ANISOU 8644 CD AARG C 148	11160	6430	8290	-1810	120	2360	C0
ATOM 8645 CD BARG C 148	-41.111	38.116	12.786	0.50	66.92		C0
ANISOU 8645 CD BARG C 148	11030	6030	8370	-1430	70	2230	C0
ATOM 8646 NE AARG C 148	-38.464	37.835	11.516	0.50	68.39		N0
ANISOU 8646 NE AARG C 148	11160	6610	8210	-2150	220	2320	N0
ATOM 8647 NE BARG C 148	-41.256	37.863	14.215	0.50	65.31		N0
ANISOU 8647 NE BARG C 148	10720	5790	8300	-1270	120	2010	N0
ATOM 8648 CZ AARG C 148	-37.713	37.141	10.667	0.50	67.98		C0
ANISOU 8648 CZ AARG C 148	10950	6880	8000	-2360	300	2340	C0
ATOM 8649 CZ BARG C 148	-42.417	37.726	14.845	0.50	64.53		C0
ANISOU 8649 CZ BARG C 148	10570	5610	8330	-950	90	1930	C0
ATOM 8650 NH1AARG C 148	-38.280	36.422	9.713	0.50	67.34		N0
ANISOU 8650 NH1AARG C 148	10760	6980	7840	-2260	280	2410	N0
ATOM 8651 NH1BARG C 148	-43.551	37.792	14.168	0.50	65.26		N0
ANISOU 8651 NH1BARG C 148	10690	5660	8450	-740	-10	2050	N0
ATOM 8652 NH2AARG C 148	-36.396	37.172	10.772	0.50	68.28		N0
ANISOU 8652 NH2AARG C 148	10950	7060	7940	-2650	390	2290	N0
ATOM 8653 NH2BARG C 148	-42.441	37.514	16.148	0.50	63.17		N0
ANISOU 8653 NH2BARG C 148	10310	5430	8260	-840	150	1740	N0
ATOM 8654 H ARG C 148	-39.920	34.260	14.563	1.00	58.35		H0
ANISOU 8654 H ARG C 148	9080	5820	7270	-1390	410	1670	H0
ATOM 8655 HA AARG C 148	-42.163	35.186	13.308	0.50	60.92		H0
ANISOU 8655 HA AARG C 148	9630	5860	7650	-1050	200	1950	H0
ATOM 8656 HA BARG C 148	-42.238	35.125	13.361	0.50	60.68		H0
ANISOU 8656 HA BARG C 148	9590	5840	7630	-1030	200	1940	H0
ATOM 8657 HB2AARG C 148	-39.419	35.375	12.816	0.50	62.03		H0
ANISOU 8657 HB2AARG C 148	9800	6200	7560	-1680	340	1960	H0
ATOM 8658 HB2BARG C 148	-39.784	36.002	13.169	0.50	62.60		H0
ANISOU 8658 HB2BARG C 148	10000	6070	7710	-1610	290	1980	H0
ATOM 8659 HB3AARG C 148	-40.314	35.349	11.513	0.50	62.90		H0
ANISOU 8659 HB3AARG C 148	9960	6330	7610	-1590	250	2140	H0
ATOM 8660 HB3BARG C 148	-39.950	35.212	11.805	0.50	62.22		H0
ANISOU 8660 HB3BARG C 148	9830	6290	7520	-1640	290	2090	H0
ATOM 8661 HG2AARG C 148	-41.526	37.236	12.618	0.50	65.67		H0
ANISOU 8661 HG2AARG C 148	10680	6070	8200	-1310	90	2180	H0
ATOM 8662 HG2BARG C 148	-40.766	37.081	11.042	0.50	66.27		H0
ANISOU 8662 HG2BARG C 148	10770	6350	8060	-1610	100	2370	H0
ATOM 8663 HG3AARG C 148	-40.197	37.373	13.474	0.50	65.34		H0
ANISOU 8663 HG3AARG C 148	10640	6040	8150	-1560	200	2060	H0
ATOM 8664 HG3BARG C 148	-42.104	36.633	11.763	0.50	64.79		H0
ANISOU 8664 HG3BARG C 148	10470	6120	8030	-1230	60	2260	H0

ATOM 8665 HD2AARG C 148	-40.238	37.531	10.632	0.50	68.10	H0	
ANISOU 8665 HD2AARG C 148	11110	6550	8220	-1790	90	2450	H0
ATOM 8666 HD2BARG C 148	-40.254	38.569	12.634	0.50	67.95	H0	
ANISOU 8666 HD2BARG C 148	11270	6130	8430	-1670	90	2270	H0
ATOM 8667 HD3AARG C 148	-40.215	38.809	11.568	0.50	69.85	H0	
ANISOU 8667 HD3AARG C 148	11600	6380	8560	-1780	40	2430	H0
ATOM 8668 HD3BARG C 148	-41.822	38.729	12.502	0.50	68.33	H0	
ANISOU 8668 HD3BARG C 148	11360	6020	8580	-1310	-30	2330	H0
ATOM 8669 HE AARG C 148	-38.054	38.297	12.131	0.50	68.84	H0	
ANISOU 8669 HE AARG C 148	11290	6550	8310	-2230	240	2270	H0
ATOM 8670 HE BARG C 148	-40.530	37.819	14.695	0.50	64.88	H0	
ANISOU 8670 HE BARG C 148	10640	5770	8240	-1400	190	1930	H0
ATOM 8671 HH11AARG C 148	-39.156	36.402	9.642	0.50	67.18	H0	
ANISOU 8671 HH11AARG C 148	10760	6880	7880	-2070	210	2440	H0
ATOM 8672 HH11BARG C 148	-43.535	37.937	13.301	0.50	66.15	H0	
ANISOU 8672 HH11BARG C 148	10860	5790	8480	-810	-60	2180	H0
ATOM 8673 HH12AARG C 148	-37.780	35.965	9.153	0.50	67.13	H0	
ANISOU 8673 HH12AARG C 148	10640	7170	7700	-2390	330	2420	H0
ATOM 8674 HH12BARG C 148	-44.317	37.698	14.588	0.50	64.91	H0	
ANISOU 8674 HH12BARG C 148	10590	5590	8490	-520	-30	1990	H0
ATOM 8675 HH21AARG C 148	-36.018	37.651	11.407	0.50	68.78	H0	
ANISOU 8675 HH21AARG C 148	11080	7000	8050	-2720	400	2250	H0
ATOM 8676 HH21BARG C 148	-41.686	37.464	16.598	0.50	62.79	H0	
ANISOU 8676 HH21BARG C 148	10250	5410	8200	-980	210	1670	H0
ATOM 8677 HH22AARG C 148	-35.900	36.712	10.207	0.50	68.11	H0	
ANISOU 8677 HH22AARG C 148	10820	7260	7810	-2780	440	2300	H0
ATOM 8678 HH22BARG C 148	-43.213	37.414	16.562	0.50	62.85	H0	
ANISOU 8678 HH22BARG C 148	10230	5350	8300	-630	130	1690	H0
ATOM 8679 N GLU C 149	-41.249	32.246	12.836	1.00	56.41	N0	
ANISOU 8679 N GLU C 149	8520	6010	6900	-1160	380	1750	N0
ATOM 8680 CA GLU C 149	-41.464	30.939	12.154	1.00	55.06	C0	
ANISOU 8680 CA GLU C 149	8150	6130	6650	-1120	400	1730	C0
ATOM 8681 C GLU C 149	-42.433	30.075	12.969	1.00	53.52	C0	
ANISOU 8681 C GLU C 149	7800	5980	6560	-870	400	1600	C0
ATOM 8682 O GLU C 149	-43.383	29.539	12.366	1.00	52.87	O0	
ANISOU 8682 O GLU C 149	7650	5980	6460	-740	350	1650	O0
ATOM 8683 CB GLU C 149	-40.131	30.224	11.948	1.00	54.19	C0	
ANISOU 8683 CB GLU C 149	7910	6260	6420	-1340	500	1650	C0
ATOM 8684 CG GLU C 149	-39.344	30.766	10.772	1.00	56.08	C0	
ANISOU 8684 CG GLU C 149	8240	6560	6500	-1590	510	1790	C0
ATOM 8685 CD GLU C 149	-37.943	30.203	10.658	1.00	55.61	C0	
ANISOU 8685 CD GLU C 149	8050	6750	6330	-1810	620	1690	C0
ATOM 8686 OE1 GLU C 149	-37.639	29.236	11.383	1.00	54.13	O0	
ANISOU 8686 OE1 GLU C 149	7680	6710	6170	-1740	680	1520	O0
ATOM 8687 OE2 GLU C 149	-37.161	30.735	9.852	1.00	57.09	O0	
ANISOU 8687 OE2 GLU C 149	8310	7000	6380	-2050	640	1790	O0
ATOM 8688 H GLU C 149	-40.807	32.166	13.626	1.00	55.76	H0	
ANISOU 8688 H GLU C 149	8400	5920	6860	-1190	430	1640	H0
ATOM 8689 HA GLU C 149	-41.867	31.112	11.272	1.00	55.98	H0	
ANISOU 8689 HA GLU C 149	8320	6240	6710	-1120	350	1850	H0
ATOM 8690 HB2 GLU C 149	-39.595	30.317	12.763	1.00	53.83	H0	
ANISOU 8690 HB2 GLU C 149	7850	6190	6420	-1380	550	1550	H0
ATOM 8691 HB3 GLU C 149	-40.303	29.270	11.805	1.00	52.95	H0	
ANISOU 8691 HB3 GLU C 149	7610	6280	6230	-1270	520	1590	H0

ATOM 8692 HG2 GLU C 149	-39.829	30.566	9.943	1.00	56.35	H0	
ANISOU 8692 HG2 GLU C 149	8280	6660	6480	-1560	470	1870	H0
ATOM 8693 HG3 GLU C 149	-39.282	31.742	10.852	1.00	57.49	H0	
ANISOU 8693 HG3 GLU C 149	8590	6550	6700	-1660	470	1870	H0
ATOM 8694 N ILE C 150	-42.179	29.926	14.274	1.00	53.00	N0	
ANISOU 8694 N ILE C 150	7680	5870	6590	-820	460	1440	N0
ATOM 8695 CA ILE C 150	-43.075	29.227	15.243	1.00	51.91	C0	
ANISOU 8695 CA ILE C 150	7410	5760	6560	-600	460	1320	C0
ATOM 8696 C ILE C 150	-43.360	30.164	16.420	1.00	53.50	C0	
ANISOU 8696 C ILE C 150	7720	5710	6890	-500	450	1260	C0
ATOM 8697 O ILE C 150	-42.404	30.544	17.122	1.00	53.67	O0	
ANISOU 8697 O ILE C 150	7800	5670	6920	-630	500	1190	O0
ATOM 8698 CB ILE C 150	-42.467	27.891	15.717	1.00	49.58	C0	
ANISOU 8698 CB ILE C 150	6920	5690	6220	-640	540	1170	C0
ATOM 8699 CG1 ILE C 150	-42.497	26.836	14.610	1.00	48.86	C0	
ANISOU 8699 CG1 ILE C 150	6720	5830	6020	-670	530	1200	C0
ATOM 8700 CG2 ILE C 150	-43.161	27.393	16.981	1.00	48.34	C0	
ANISOU 8700 CG2 ILE C 150	6670	5520	6170	-470	550	1030	C0
ATOM 8701 CD1 ILE C 150	-41.882	25.513	15.004	1.00	46.82	C0	
ANISOU 8701 CD1 ILE C 150	6290	5780	5720	-700	600	1050	C0
ATOM 8702 H ILE C 150	-41.417	30.244	14.660	1.00	53.20	H0	
ANISOU 8702 H ILE C 150	7740	5860	6610	-940	500	1400	H0
ATOM 8703 HA ILE C 150	-43.916	29.033	14.795	1.00	52.02	H0	
ANISOU 8703 HA ILE C 150	7400	5800	6570	-490	410	1380	H0
ATOM 8704 HB ILE C 150	-41.518	28.060	15.942	1.00	49.73	H0	
ANISOU 8704 HB ILE C 150	6960	5720	6220	-780	580	1130	H0
ATOM 8705 HG12 ILE C 150	-43.429	26.683	14.346	1.00	48.82	H0	
ANISOU 8705 HG12 ILE C 150	6690	5830	6030	-550	480	1250	H0
ATOM 8706 HG13 ILE C 150	-42.017	27.185	13.829	1.00	49.79	H0	
ANISOU 8706 HG13 ILE C 150	6890	5970	6060	-800	530	1280	H0
ATOM 8707 HG21 ILE C 150	-42.915	27.957	17.734	1.00	48.63	H0	
ANISOU 8707 HG21 ILE C 150	6770	5430	6270	-470	570	980	H0
ATOM 8708 HG22 ILE C 150	-42.889	26.478	17.167	1.00	47.07	H0	
ANISOU 8708 HG22 ILE C 150	6400	5500	5980	-480	580	950	H0
ATOM 8709 HG23 ILE C 150	-44.126	27.423	16.857	1.00	48.50	H0	
ANISOU 8709 HG23 ILE C 150	6690	5510	6230	-330	500	1070	H0
ATOM 8710 HD11 ILE C 150	-41.106	25.669	15.568	1.00	46.77	H0	
ANISOU 8710 HD11 ILE C 150	6280	5760	5720	-780	640	980	H0
ATOM 8711 HD12 ILE C 150	-41.609	25.030	14.205	1.00	46.85	H0	
ANISOU 8711 HD12 ILE C 150	6250	5920	5630	-760	600	1070	H0
ATOM 8712 HD13 ILE C 150	-42.535	24.982	15.492	1.00	45.98	H0	
ANISOU 8712 HD13 ILE C 150	6120	5690	5660	-580	580	1000	H0
ATOM 8713 N SER C 151	-44.635	30.504	16.623	1.00	55.31	N0	
ANISOU 8713 N SER C 151	7980	5830	7210	-280	390	1290	N0
ATOM 8714 CA SER C 151	-45.170	31.077	17.883	1.00	56.89	C0	
ANISOU 8714 CA SER C 151	8230	5850	7540	-120	390	1190	C0
ATOM 8715 C SER C 151	-45.832	29.952	18.680	1.00	55.93	C0	
ANISOU 8715 C SER C 151	7900	5900	7450	20	430	1050	C0
ATOM 8716 O SER C 151	-46.466	29.093	18.049	1.00	55.02	O0	
ANISOU 8716 O SER C 151	7650	5960	7290	80	400	1090	O0
ATOM 8717 CB SER C 151	-46.133	32.203	17.614	1.00	59.25	C0	
ANISOU 8717 CB SER C 151	8680	5920	7910	40	290	1290	C0
ATOM 8718 OG SER C 151	-47.299	31.725	16.965	1.00	59.77	O0	
ANISOU 8718 OG SER C 151	8640	6100	7970	210	230	1360	O0

ATOM 8719 H SER C 151	-45.281	30.408	15.988	1.00	55.63		H0
ANISOU 8719 H SER C 151	8010	5900	7230	-210	340	1370	H0
ATOM 8720 HA SER C 151	-44.407	31.431	18.411	1.00	56.98		H0
ANISOU 8720 HA SER C 151	8300	5790	7560	-230	430	1130	H0
ATOM 8721 HB2 SER C 151	-46.384	32.630	18.463	1.00	59.67		H0
ANISOU 8721 HB2 SER C 151	8770	5860	8040	140	300	1210	H0
ATOM 8722 HB3 SER C 151	-45.696	32.879	17.048	1.00	60.61		H0
ANISOU 8722 HB3 SER C 151	9000	5990	8050	-60	260	1390	H0
ATOM 8723 N VAL C 152	-45.677	29.959	20.007	1.00	57.01		N0
ANISOU 8723 N VAL C 152	8010	5990	7660	60	480	900	N0
ATOM 8724 CA VAL C 152	-46.294	28.963	20.935	1.00	57.30		C0
ANISOU 8724 CA VAL C 152	7870	6170	7730	180	520	770	C0
ATOM 8725 C VAL C 152	-47.240	29.706	21.884	1.00	59.87		C0
ANISOU 8725 C VAL C 152	8240	6350	8160	380	510	700	C0
ATOM 8726 O VAL C 152	-46.814	30.722	22.460	1.00	61.38		O0
ANISOU 8726 O VAL C 152	8580	6340	8400	360	520	670	O0
ATOM 8727 CB VAL C 152	-45.235	28.145	21.702	1.00	55.63		C0
ANISOU 8727 CB VAL C 152	7580	6080	7480	30	600	640	C0
ATOM 8728 CG1 VAL C 152	-44.431	27.257	20.767	1.00	54.75		C0
ANISOU 8728 CG1 VAL C 152	7390	6150	7260	-120	610	690	C0
ATOM 8729 CG2 VAL C 152	-44.305	29.019	22.528	1.00	56.63		C0
ANISOU 8729 CG2 VAL C 152	7830	6050	7640	-70	640	570	C0
ATOM 8730 H VAL C 152	-45.189	30.598	20.435	1.00	57.66		H0
ANISOU 8730 H VAL C 152	8190	5950	7770	0	500	880	H0
ATOM 8731 HA VAL C 152	-46.821	28.345	20.404	1.00	56.73		H0
ANISOU 8731 HA VAL C 152	7710	6220	7620	220	500	810	H0
ATOM 8732 HB VAL C 152	-45.721	27.554	22.328	1.00	54.85		H0
ANISOU 8732 HB VAL C 152	7380	6060	7400	120	620	570	H0
ATOM 8733 HG11 VAL C 152	-45.028	26.633	20.319	1.00	54.25		H0
ANISOU 8733 HG11 VAL C 152	7250	6190	7170	-60	590	720	H0
ATOM 8734 HG12 VAL C 152	-43.769	26.761	21.279	1.00	53.82		H0
ANISOU 8734 HG12 VAL C 152	7220	6110	7120	-190	650	600	H0
ATOM 8735 HG13 VAL C 152	-43.980	27.807	20.103	1.00	55.62		H0
ANISOU 8735 HG13 VAL C 152	7590	6210	7340	-210	600	770	H0
ATOM 8736 HG21 VAL C 152	-43.839	29.639	21.944	1.00	57.46		H0
ANISOU 8736 HG21 VAL C 152	8040	6070	7720	-160	620	650	H0
ATOM 8737 HG22 VAL C 152	-43.655	28.457	22.984	1.00	55.48		H0
ANISOU 8737 HG22 VAL C 152	7620	5990	7470	-150	680	500	H0
ATOM 8738 HG23 VAL C 152	-44.818	29.516	23.188	1.00	57.10		H0
ANISOU 8738 HG23 VAL C 152	7930	6000	7770	40	630	530	H0
ATOM 8739 N ASP C 153	-48.478	29.220	22.021	1.00	61.96		N0
ANISOU 8739 N ASP C 153	8370	6720	8450	560	490	680	N0
ATOM 8740 CA ASP C 153	-49.529	29.816	22.890	1.00	65.43		C0
ANISOU 8740 CA ASP C 153	8810	7070	8990	780	480	610	C0
ATOM 8741 C ASP C 153	-50.146	28.721	23.753	1.00	65.35		C0
ANISOU 8741 C ASP C 153	8600	7260	8970	840	540	490	C0
ATOM 8742 O ASP C 153	-50.322	27.596	23.292	1.00	62.71		O0
ANISOU 8742 O ASP C 153	8130	7130	8570	790	530	510	O0
ATOM 8743 CB ASP C 153	-50.593	30.533	22.056	1.00	68.46		C0
ANISOU 8743 CB ASP C 153	9240	7370	9410	960	390	720	C0
ATOM 8744 CG ASP C 153	-50.164	31.916	21.595	1.00	71.73		C0
ANISOU 8744 CG ASP C 153	9900	7500	9850	950	330	820	C0
ATOM 8745 OD1 ASP C 153	-50.316	32.872	22.388	1.00	73.69		O0
ANISOU 8745 OD1 ASP C 153	10260	7550	10190	1050	330	740	O0

ATOM 8746 OD2 ASP C 153	-49.661	32.023	20.455	1.00	73.63	O0	
ANISOU 8746 OD2 ASP C 153	10220	7720	10030	820	280	960	O0
ATOM 8747 H ASP C 153	-48.758	28.475	21.577	1.00	61.17	H0	
ANISOU 8747 H ASP C 153	8170	6760	8310	560	480	710	H0
ATOM 8748 HA ASP C 153	-49.101	30.479	23.478	1.00	66.03	H0	
ANISOU 8748 HA ASP C 153	8990	7000	9100	760	500	550	H0
ATOM 8749 HB2 ASP C 153	-50.799	29.993	21.266	1.00	68.04	H0	
ANISOU 8749 HB2 ASP C 153	9110	7430	9300	940	360	800	H0
ATOM 8750 HB3 ASP C 153	-51.411	30.624	22.586	1.00	68.94	H0	
ANISOU 8750 HB3 ASP C 153	9240	7440	9520	1120	390	660	H0
ATOM 8751 N PRO C 154	-50.470	29.012	25.034	1.00	68.17	N0	
ANISOU 8751 N PRO C 154	8940	7580	9380	930	580	350	N0
ATOM 8752 CA PRO C 154	-51.168	28.056	25.892	1.00	69.31	C0	
ANISOU 8752 CA PRO C 154	8900	7920	9510	990	630	240	C0
ATOM 8753 C PRO C 154	-52.690	28.091	25.684	1.00	73.48	C0	
ANISOU 8753 C PRO C 154	9310	8540	10060	1200	590	260	C0
ATOM 8754 O PRO C 154	-53.234	29.173	25.547	1.00	75.56	O0	
ANISOU 8754 O PRO C 154	9650	8660	10400	1370	550	280	O0
ATOM 8755 CB PRO C 154	-50.766	28.529	27.295	1.00	68.60	C0	
ANISOU 8755 CB PRO C 154	8880	7730	9460	990	700	90	C0
ATOM 8756 CG PRO C 154	-50.648	30.030	27.154	1.00	69.95	C0	
ANISOU 8756 CG PRO C 154	9240	7630	9700	1070	660	110	C0
ATOM 8757 CD PRO C 154	-50.149	30.261	25.740	1.00	69.84	C0	
ANISOU 8757 CD PRO C 154	9330	7550	9660	980	590	280	C0
ATOM 8758 HA PRO C 154	-50.817	27.145	25.734	1.00	67.87	H0	
ANISOU 8758 HA PRO C 154	8650	7870	9270	880	650	250	H0
ATOM 8759 HB2 PRO C 154	-51.448	28.290	27.957	1.00	68.78	H0	
ANISOU 8759 HB2 PRO C 154	8810	7840	9490	1080	730	10	H0
ATOM 8760 HB3 PRO C 154	-49.909	28.135	27.566	1.00	67.60	H0	
ANISOU 8760 HB3 PRO C 154	8760	7620	9300	850	730	60	H0
ATOM 8761 HG2 PRO C 154	-51.518	30.460	27.287	1.00	71.20	H0	
ANISOU 8761 HG2 PRO C 154	9380	7760	9910	1240	640	90	H0
ATOM 8762 HG3 PRO C 154	-50.015	30.391	27.807	1.00	70.09	H0	
ANISOU 8762 HG3 PRO C 154	9340	7550	9730	1010	700	40	H0
ATOM 8763 HD2 PRO C 154	-50.602	31.020	25.329	1.00	71.33	H0	
ANISOU 8763 HD2 PRO C 154	9590	7620	9900	1090	540	340	H0
ATOM 8764 HD3 PRO C 154	-49.188	30.427	25.734	1.00	69.56	H0	
ANISOU 8764 HD3 PRO C 154	9380	7440	9610	830	610	290	H0
ATOM 8765 N THR C 155	-53.327	26.914	25.665	1.00	76.87	N0	
ANISOU 8765 N THR C 155	9560	9220	10440	1190	600	250	N0
ATOM 8766 CA THR C 155	-54.792	26.720	25.462	1.00	81.18	C0	
ANISOU 8766 CA THR C 155	9940	9920	10990	1360	570	270	C0
ATOM 8767 C THR C 155	-55.488	26.732	26.831	1.00	85.10	C0	
ANISOU 8767 C THR C 155	10330	10490	11510	1470	640	110	C0
ATOM 8768 O THR C 155	-55.755	25.637	27.373	1.00	84.90	O0	
ANISOU 8768 O THR C 155	10170	10680	11420	1390	680	50	O0
ATOM 8769 CB THR C 155	-55.067	25.428	24.678	1.00	80.44	C0	
ANISOU 8769 CB THR C 155	9710	10050	10810	1260	540	340	C0
ATOM 8770 OG1 THR C 155	-53.941	25.161	23.838	1.00	80.09	O0	
ANISOU 8770 OG1 THR C 155	9770	9940	10720	1090	520	430	O0
ATOM 8771 CG2 THR C 155	-56.332	25.503	23.850	1.00	81.47	C0	
ANISOU 8771 CG2 THR C 155	9730	10290	10940	1410	460	430	C0
ATOM 8772 H THR C 155	-52.891	26.122	25.781	1.00	75.13	H0	
ANISOU 8772 H THR C 155	9290	9090	10170	1070	630	230	H0

ATOM 8773 HA THR C 155	-55.128	27.481	24.935	1.00	82.55		H0
ANISOU 8773 HA THR C 155	10170	9990	11200	1480	510	330	H0
ATOM 8774 HB THR C 155	-55.158	24.687	25.322	1.00	79.56		H0
ANISOU 8774 HB THR C 155	9510	10060	10660	1200	580	270	H0
ATOM 8775 HG21 THR C 155	-57.095	25.657	24.434	1.00	82.34		H0
ANISOU 8775 HG21 THR C 155	9750	10460	11070	1530	480	360	H0
ATOM 8776 HG22 THR C 155	-56.457	24.665	23.369	1.00	80.73		H0
ANISOU 8776 HG22 THR C 155	9560	10330	10780	1330	440	470	H0
ATOM 8777 HG23 THR C 155	-56.260	26.234	23.211	1.00	82.47		H0
ANISOU 8777 HG23 THR C 155	9950	10290	11100	1470	410	510	H0
ATOM 8778 N THR C 156	-55.772	27.925	27.366	1.00	89.77		N0
ANISOU 8778 N THR C 156	11000	10930	12180	1640	640	40	N0
ATOM 8779 CA THR C 156	-56.147	28.146	28.792	1.00	92.07		C0
ANISOU 8779 CA THR C 156	11240	11250	12490	1730	720	-130	C0
ATOM 8780 C THR C 156	-57.646	28.450	28.917	1.00	95.30		C0
ANISOU 8780 C THR C 156	11490	11790	12930	1980	710	-170	C0
ATOM 8781 O THR C 156	-57.985	29.580	29.319	1.00	97.44		O0
ANISOU 8781 O THR C 156	11830	11910	13280	2180	710	-250	O0
ATOM 8782 CB THR C 156	-55.281	29.250	29.414	1.00	92.53		C0
ANISOU 8782 CB THR C 156	11510	11030	12610	1730	750	-210	C0
ATOM 8783 OG1 THR C 156	-55.512	30.462	28.695	1.00	94.85		O0
ANISOU 8783 OG1 THR C 156	11940	11110	12980	1900	670	-130	O0
ATOM 8784 CG2 THR C 156	-53.805	28.916	29.395	1.00	89.84		C0
ANISOU 8784 CG2 THR C 156	11290	10610	12230	1480	770	-180	C0
ATOM 8785 H THR C 156	-55.757	28.699	26.887	1.00	90.51		H0
ANISOU 8785 H THR C 156	11190	10880	12320	1720	600	100	H0
ATOM 8786 HA THR C 156	-55.966	27.309	29.279	1.00	90.65		H0
ANISOU 8786 HA THR C 156	10990	11200	12250	1610	770	-170	H0
ATOM 8787 HB THR C 156	-55.565	29.375	30.351	1.00	92.93		H0
ANISOU 8787 HB THR C 156	11520	11120	12670	1800	800	-330	H0
ATOM 8788 HG21 THR C 156	-53.661	28.053	29.823	1.00	88.81		H0
ANISOU 8788 HG21 THR C 156	11080	10620	12050	1380	810	-220	H0
ATOM 8789 HG22 THR C 156	-53.310	29.603	29.876	1.00	90.65		H0
ANISOU 8789 HG22 THR C 156	11520	10550	12370	1480	790	-240	H0
ATOM 8790 HG23 THR C 156	-53.494	28.878	28.474	1.00	89.75		H0
ANISOU 8790 HG23 THR C 156	11330	10560	12210	1430	720	-70	H0
ATOM 8791 N GLU C 157	-58.500	27.470	28.599	1.00	97.00		N0
ANISOU 8791 N GLU C 157	11500	12270	13080	1960	700	-140	N0
ATOM 8792 CA GLU C 157	-59.958	27.485	28.916	1.00	99.95		C0
ANISOU 8792 CA GLU C 157	11660	12860	13460	2160	710	-200	C0
ATOM 8793 C GLU C 157	-60.147	26.954	30.347	1.00	99.73		C0
ANISOU 8793 C GLU C 157	11520	13000	13380	2100	820	-370	C0
ATOM 8794 O GLU C 157	-59.150	26.478	30.937	1.00	98.69		O0
ANISOU 8794 O GLU C 157	11480	12820	13200	1900	880	-400	O0
ATOM 8795 CB GLU C 157	-60.752	26.697	27.864	1.00	100.29		C0
ANISOU 8795 CB GLU C 157	11530	13120	13450	2140	640	-80	C0
ATOM 8796 CG GLU C 157	-60.821	25.194	28.098	1.00	98.43		C0
ANISOU 8796 CG GLU C 157	11160	13140	13100	1920	680	-80	C0
ATOM 8797 CD GLU C 157	-59.480	24.494	28.241	1.00	96.44		C0
ANISOU 8797 CD GLU C 157	11040	12790	12800	1670	710	-60	C0
ATOM 8798 OE1 GLU C 157	-58.578	24.772	27.422	1.00	95.89		O0
ANISOU 8798 OE1 GLU C 157	11140	12540	12760	1610	660	30	O0
ATOM 8799 OE2 GLU C 157	-59.336	23.685	29.179	1.00	95.73		O0
ANISOU 8799 OE2 GLU C 157	10900	12820	12650	1530	780	-150	O0

ATOM	8800	H	GLU	C	157	-58.232	26.726	28.151	1.00	95.52		H0
ANISOU	8800	H	GLU	C	157	11290	12160	12850	1830	690	-70	H0
ATOM	8801	HA	GLU	C	157	-60.263	28.421	28.894	1.00	101.43		H0
ANISOU	8801	HA	GLU	C	157	11890	12930	13710	2340	680	-230	H0
ATOM	8802	HB2	GLU	C	157	-61.665	27.052	27.839	1.00	101.73		H0
ANISOU	8802	HB2	GLU	C	157	11610	13390	13650	2320	620	-100	H0
ATOM	8803	HB3	GLU	C	157	-60.347	26.860	26.987	1.00	99.86		H0
ANISOU	8803	HB3	GLU	C	157	11580	12960	13410	2110	580	30	H0
ATOM	8804	HG2	GLU	C	157	-61.346	25.023	28.909	1.00	99.00		H0
ANISOU	8804	HG2	GLU	C	157	11110	13350	13150	1950	740	-180	H0
ATOM	8805	HG3	GLU	C	157	-61.301	24.783	27.348	1.00	98.58		H0
ANISOU	8805	HG3	GLU	C	157	11090	13280	13090	1910	630	0	H0
ATOM	8806	N	ASN	C	158	-61.369	27.043	30.887	1.00	100.42		N0
ANISOU	8806	N	ASN	C	158	11410	13290	13460	2270	860	-460	N0
ATOM	8807	CA	ASN	C	158	-61.705	26.624	32.277	1.00	99.49		C0
ANISOU	8807	CA	ASN	C	158	11170	13360	13270	2220	970	-620	C0
ATOM	8808	C	ASN	C	158	-61.933	25.107	32.310	1.00	96.49		C0
ANISOU	8808	C	ASN	C	158	10630	13260	12770	1990	990	-580	C0
ATOM	8809	O	ASN	C	158	-63.007	24.655	31.857	1.00	96.75		O0
ANISOU	8809	O	ASN	C	158	10460	13530	12760	2040	970	-540	O0
ATOM	8810	CB	ASN	C	158	-62.905	27.397	32.834	1.00	102.46		C0
ANISOU	8810	CB	ASN	C	158	11390	13850	13680	2500	1010	-760	C0
ATOM	8811	CG	ASN	C	158	-62.553	28.810	33.254	1.00	104.11		C0
ANISOU	8811	CG	ASN	C	158	11790	13780	14000	2710	1010	-860	C0
ATOM	8812	OD1	ASN	C	158	-61.789	29.011	34.196	1.00	103.24		O0
ANISOU	8812	OD1	ASN	C	158	11800	13540	13880	2620	1080	-960	O0
ATOM	8813	ND2	ASN	C	158	-63.108	29.796	32.567	1.00	106.05		N0
ANISOU	8813	ND2	ASN	C	158	12060	13900	14330	2970	930	-830	N0
ATOM	8814	H	ASN	C	158	-62.081	27.369	30.422	1.00	101.67		H0
ANISOU	8814	H	ASN	C	158	11490	13500	13640	2420	810	-430	H0
ATOM	8815	HA	ASN	C	158	-60.931	26.833	32.852	1.00	98.83		H0
ANISOU	8815	HA	ASN	C	158	11210	13140	13200	2160	1010	-680	H0
ATOM	8816	HB2	ASN	C	158	-63.606	27.430	32.152	1.00	103.29		H0
ANISOU	8816	HB2	ASN	C	158	11390	14050	13800	2610	950	-700	H0
ATOM	8817	HB3	ASN	C	158	-63.260	26.914	33.609	1.00	102.46		H0
ANISOU	8817	HB3	ASN	C	158	11270	14040	13620	2450	1080	-840	H0
ATOM	8818	HD21	ASN	C	158	-63.211	30.592	32.941	1.00	107.50		H0
ANISOU	8818	HD21	ASN	C	158	12300	13980	14570	3130	940	-910	H0
ATOM	8819	HD22	ASN	C	158	-63.373	29.662	31.734	1.00	106.08		H0
ANISOU	8819	HD22	ASN	C	158	12020	13940	14350	2990	860	-720	H0
ATOM	8820	N	SER	C	159	-60.943	24.363	32.817	1.00	92.57		N0
ANISOU	8820	N	SER	C	159	10240	12720	12220	1750	1030	-580	N0
ATOM	8821	CA	SER	C	159	-60.967	22.890	33.028	1.00	89.12		C0
ANISOU	8821	CA	SER	C	159	9710	12500	11660	1510	1050	-550	C0
ATOM	8822	C	SER	C	159	-60.328	22.554	34.381	1.00	85.79		C0
ANISOU	8822	C	SER	C	159	9350	12070	11180	1370	1140	-670	C0
ATOM	8823	O	SER	C	159	-59.493	23.352	34.859	1.00	85.97		O0
ANISOU	8823	O	SER	C	159	9530	11880	11260	1410	1170	-730	O0
ATOM	8824	CB	SER	C	159	-60.264	22.163	31.903	1.00	87.90		C0
ANISOU	8824	CB	SER	C	159	9640	12270	11490	1350	970	-400	C0
ATOM	8825	OG	SER	C	159	-61.057	22.151	30.724	1.00	89.08		O0
ANISOU	8825	OG	SER	C	159	9690	12510	11650	1440	890	-290	O0
ATOM	8826	H	SER	C	159	-60.147	24.725	33.074	1.00	92.03		H0
ANISOU	8826	H	SER	C	159	10310	12480	12180	1720	1050	-610	H0

ATOM 8827 HA SER C 159	-61.917	22.595	33.049	1.00	90.00		H0
ANISOU 8827 HA SER C 159	9650	12820	11730	1540	1060	-560	H0
ATOM 8828 HB2 SER C 159	-59.405	22.606	31.716	1.00	87.25		H0
ANISOU 8828 HB2 SER C 159	9710	11990	11450	1350	950	-380	H0
ATOM 8829 HB3 SER C 159	-60.076	21.238	32.180	1.00	86.73		H0
ANISOU 8829 HB3 SER C 159	9480	12210	11270	1190	980	-390	H0
ATOM 8830 N ASP C 160	-60.721	21.423	34.977	1.00	81.63		N0
ANISOU 8830 N ASP C 160	8700	11780	10530	1200	1180	-680	N0
ATOM 8831 CA ASP C 160	-60.066	20.836	36.176	1.00	77.88		C0
ANISOU 8831 CA ASP C 160	8300	11320	9970	1010	1240	-760	C0
ATOM 8832 C ASP C 160	-58.667	20.373	35.754	1.00	73.68		C0
ANISOU 8832 C ASP C 160	7960	10580	9450	860	1180	-680	C0
ATOM 8833 O ASP C 160	-58.566	19.638	34.753	1.00	73.39		O0
ANISOU 8833 O ASP C 160	7930	10560	9400	770	1110	-550	O0
ATOM 8834 CB ASP C 160	-60.913	19.703	36.771	1.00	78.06		C0
ANISOU 8834 CB ASP C 160	8160	11650	9860	860	1270	-770	C0
ATOM 8835 CG ASP C 160	-60.283	18.978	37.953	1.00	77.20		C0
ANISOU 8835 CG ASP C 160	8130	11560	9650	650	1320	-830	C0
ATOM 8836 OD1 ASP C 160	-59.315	19.514	38.534	1.00	76.16		O0
ANISOU 8836 OD1 ASP C 160	8150	11240	9550	670	1350	-890	O0
ATOM 8837 OD2 ASP C 160	-60.764	17.874	38.282	1.00	76.51		O0
ANISOU 8837 OD2 ASP C 160	7950	11680	9440	470	1330	-800	O0
ATOM 8838 H ASP C 160	-61.429	20.936	34.674	1.00	82.16		H0
ANISOU 8838 H ASP C 160	8640	12010	10560	1180	1160	-650	H0
ATOM 8839 HA ASP C 160	-59.974	21.544	36.855	1.00	78.71		H0
ANISOU 8839 HA ASP C 160	8430	11370	10110	1100	1290	-860	H0
ATOM 8840 HB2 ASP C 160	-61.769	20.075	37.065	1.00	79.59		H0
ANISOU 8840 HB2 ASP C 160	8220	11980	10040	970	1320	-840	H0
ATOM 8841 HB3 ASP C 160	-61.094	19.044	36.071	1.00	77.49		H0
ANISOU 8841 HB3 ASP C 160	8050	11630	9760	780	1220	-680	H0
ATOM 8842 N ASP C 161	-57.631	20.806	36.480	1.00	70.69		N0
ANISOU 8842 N ASP C 161	7730	10030	9100	830	1210	-750	N0
ATOM 8843 CA ASP C 161	-56.208	20.454	36.215	1.00	66.91		C0
ANISOU 8843 CA ASP C 161	7430	9370	8630	690	1160	-690	C0
ATOM 8844 C ASP C 161	-55.978	18.969	36.538	1.00	63.99		C0
ANISOU 8844 C ASP C 161	7050	9120	8140	470	1140	-650	C0
ATOM 8845 O ASP C 161	-55.054	18.376	35.942	1.00	62.43		O0
ANISOU 8845 O ASP C 161	6950	8830	7940	370	1080	-580	O0
ATOM 8846 CB ASP C 161	-55.257	21.349	37.014	1.00	66.26		C0
ANISOU 8846 CB ASP C 161	7490	9100	8590	720	1210	-790	C0
ATOM 8847 CG ASP C 161	-55.433	22.837	36.751	1.00	67.65		C0
ANISOU 8847 CG ASP C 161	7710	9110	8880	920	1220	-830	C0
ATOM 8848 OD1 ASP C 161	-55.626	23.209	35.571	1.00	66.91		O0
ANISOU 8848 OD1 ASP C 161	7620	8950	8850	1020	1160	-730	O0
ATOM 8849 OD2 ASP C 161	-55.378	23.614	37.732	1.00	67.65		O0
ANISOU 8849 OD2 ASP C 161	7760	9050	8890	990	1280	-960	O0
ATOM 8850 H ASP C 161	-57.741	21.347	37.205	1.00	71.62		H0
ANISOU 8850 H ASP C 161	7850	10140	9220	890	1270	-840	H0
ATOM 8851 HA ASP C 161	-56.031	20.595	35.255	1.00	66.46		H0
ANISOU 8851 HA ASP C 161	7400	9230	8620	730	1110	-610	H0
ATOM 8852 HB2 ASP C 161	-55.396	21.187	37.969	1.00	66.72		H0
ANISOU 8852 HB2 ASP C 161	7520	9230	8590	680	1260	-870	H0
ATOM 8853 HB3 ASP C 161	-54.336	21.106	36.794	1.00	65.23		H0
ANISOU 8853 HB3 ASP C 161	7450	8870	8460	630	1170	-750	H0

ATOM 8854 N SER C 162	-56.788	18.407	37.444	1.00	62.09	N0	
ANISOU 8854 N SER C 162	6700	9090	7800	410	1190	-710	N0
ATOM 8855 CA SER C 162	-56.756	16.989	37.894	1.00	59.57	C0	
ANISOU 8855 CA SER C 162	6380	8900	7360	190	1170	-670	C0
ATOM 8856 C SER C 162	-57.764	16.132	37.116	1.00	57.77	C0	
ANISOU 8856 C SER C 162	6020	8850	7070	140	1130	-580	C0
ATOM 8857 O SER C 162	-57.891	14.942	37.467	1.00	56.93	O0	
ANISOU 8857 O SER C 162	5920	8860	6860	-50	1100	-550	O0
ATOM 8858 CB SER C 162	-57.027	16.892	39.380	1.00	60.57	C0	
ANISOU 8858 CB SER C 162	6470	9150	7390	120	1250	-780	C0
ATOM 8859 OG SER C 162	-55.916	17.346	40.132	1.00	60.25	O0	
ANISOU 8859 OG SER C 162	6580	8950	7370	110	1270	-850	O0
ATOM 8860 H SER C 162	-57.434	18.879	37.877	1.00	63.47	H0	
ANISOU 8860 H SER C 162	6800	9340	7980	490	1240	-770	H0
ATOM 8861 HA SER C 162	-55.845	16.631	37.718	1.00	58.34	H0	
ANISOU 8861 HA SER C 162	6330	8630	7210	120	1130	-640	H0
ATOM 8862 HB2 SER C 162	-57.818	17.433	39.605	1.00	61.83	H0	
ANISOU 8862 HB2 SER C 162	6530	9410	7550	220	1310	-840	H0
ATOM 8863 HB3 SER C 162	-57.220	15.957	39.619	1.00	60.37	H0	
ANISOU 8863 HB3 SER C 162	6430	9230	7270	-20	1230	-750	H0
ATOM 8864 N GLU C 163	-58.451	16.691	36.110	1.00	56.83	N0	
ANISOU 8864 N GLU C 163	5810	8760	7030	280	1110	-540	N0
ATOM 8865 CA GLU C 163	-59.575	16.014	35.404	1.00	56.21	C0	
ANISOU 8865 CA GLU C 163	5580	8880	6900	240	1070	-460	C0
ATOM 8866 C GLU C 163	-59.159	14.584	35.035	1.00	52.48	C0	
ANISOU 8866 C GLU C 163	5180	8420	6340	30	990	-370	C0
ATOM 8867 O GLU C 163	-59.898	13.651	35.380	1.00	52.89	O0	
ANISOU 8867 O GLU C 163	5160	8660	6280	-130	990	-360	O0
ATOM 8868 CB GLU C 163	-60.024	16.792	34.162	1.00	57.64	C0	
ANISOU 8868 CB GLU C 163	5700	9030	7180	430	1030	-400	C0
ATOM 8869 CG GLU C 163	-61.200	16.136	33.451	1.00	59.67	C0	
ANISOU 8869 CG GLU C 163	5780	9510	7370	390	990	-330	C0
ATOM 8870 CD GLU C 163	-62.120	17.043	32.645	1.00	61.82	C0	
ANISOU 8870 CD GLU C 163	5920	9850	7720	600	970	-310	C0
ATOM 8871 OE1 GLU C 163	-63.295	17.200	33.056	1.00	63.79	O0	
ANISOU 8871 OE1 GLU C 163	5970	10340	7930	670	1010	-370	O0
ATOM 8872 OE2 GLU C 163	-61.677	17.561	31.594	1.00	60.94	O0	
ANISOU 8872 OE2 GLU C 163	5890	9570	7690	710	910	-240	O0
ATOM 8873 H GLU C 163	-58.267	17.521	35.789	1.00	57.16	H0	
ANISOU 8873 H GLU C 163	5880	8690	7150	410	1110	-550	H0
ATOM 8874 HA GLU C 163	-60.336	15.962	36.028	1.00	57.20	H0	
ANISOU 8874 HA GLU C 163	5590	9180	6960	230	1120	-510	H0
ATOM 8875 HB2 GLU C 163	-60.277	17.698	34.430	1.00	58.75	H0	
ANISOU 8875 HB2 GLU C 163	5800	9150	7370	580	1070	-470	H0
ATOM 8876 HB3 GLU C 163	-59.269	16.858	33.540	1.00	56.75	H0	
ANISOU 8876 HB3 GLU C 163	5690	8760	7110	430	980	-350	H0
ATOM 8877 HG2 GLU C 163	-60.850	15.452	32.846	1.00	58.53	H0	
ANISOU 8877 HG2 GLU C 163	5700	9330	7210	280	930	-260	H0
ATOM 8878 HG3 GLU C 163	-61.747	15.673	34.122	1.00	60.13	H0	
ANISOU 8878 HG3 GLU C 163	5760	9740	7350	300	1020	-370	H0
ATOM 8879 N TYR C 164	-58.007	14.416	34.382	1.00	48.91	N0	
ANISOU 8879 N TYR C 164	4890	7760	5930	0	930	-320	N0
ATOM 8880 CA TYR C 164	-57.522	13.104	33.874	1.00	46.68	C0	
ANISOU 8880 CA TYR C 164	4700	7450	5580	-170	840	-240	C0

ATOM 8881 C TYR C 164	-56.347	12.602	34.724	1.00	43.91	C0	
ANISOU 8881 C TYR C 164	4510	6980	5200	-270	830	-280	C0
ATOM 8882 O TYR C 164	-55.712	11.606	34.338	1.00	42.63	O0	
ANISOU 8882 O TYR C 164	4450	6750	5000	-380	750	-230	O0
ATOM 8883 CB TYR C 164	-57.157	13.216	32.393	1.00	46.00	C0	
ANISOU 8883 CB TYR C 164	4650	7260	5560	-100	770	-160	C0
ATOM 8884 CG TYR C 164	-58.250	13.783	31.526	1.00	46.97	C0	
ANISOU 8884 CG TYR C 164	4630	7490	5720	20	760	-110	C0
ATOM 8885 CD1 TYR C 164	-59.528	13.251	31.552	1.00	48.61	C0	
ANISOU 8885 CD1 TYR C 164	4680	7930	5850	-40	760	-90	C0
ATOM 8886 CD2 TYR C 164	-58.009	14.851	30.678	1.00	47.64	C0	
ANISOU 8886 CD2 TYR C 164	4730	7460	5910	190	760	-80	C0
ATOM 8887 CE1 TYR C 164	-60.542	13.765	30.760	1.00	50.05	C0	
ANISOU 8887 CE1 TYR C 164	4720	8230	6070	80	750	-60	C0
ATOM 8888 CE2 TYR C 164	-59.008	15.375	29.874	1.00	49.10	C0	
ANISOU 8888 CE2 TYR C 164	4790	7740	6130	310	740	-40	C0
ATOM 8889 CZ TYR C 164	-60.281	14.833	29.917	1.00	50.13	C0	
ANISOU 8889 CZ TYR C 164	4750	8110	6190	260	730	-30	C0
ATOM 8890 OH TYR C 164	-61.274	15.352	29.138	1.00	51.44	O0	
ANISOU 8890 OH TYR C 164	4780	8390	6380	390	700	20	O0
ATOM 8891 H TYR C 164	-57.431	15.097	34.197	1.00	48.82	H0	
ANISOU 8891 H TYR C 164	4940	7610	6000	90	930	-330	H0
ATOM 8892 HA TYR C 164	-58.259	12.447	33.960	1.00	47.09	H0	
ANISOU 8892 HA TYR C 164	4680	7650	5560	-260	830	-220	H0
ATOM 8893 HB2 TYR C 164	-56.361	13.782	32.312	1.00	45.44	H0	
ANISOU 8893 HB2 TYR C 164	4660	7050	5560	-40	780	-170	H0
ATOM 8894 HB3 TYR C 164	-56.923	12.323	32.063	1.00	45.37	H0	
ANISOU 8894 HB3 TYR C 164	4630	7180	5430	-210	710	-120	H0
ATOM 8895 HD1 TYR C 164	-59.715	12.527	32.125	1.00	48.64	H0	
ANISOU 8895 HD1 TYR C 164	4680	8020	5780	-170	770	-110	H0
ATOM 8896 HD2 TYR C 164	-57.144	15.226	30.642	1.00	46.94	H0	
ANISOU 8896 HD2 TYR C 164	4740	7220	5870	210	760	-90	H0
ATOM 8897 HE1 TYR C 164	-61.408	13.392	30.795	1.00	50.82	H0	
ANISOU 8897 HE1 TYR C 164	4700	8500	6110	30	740	-50	H0
ATOM 8898 HE2 TYR C 164	-58.826	16.105	29.305	1.00	49.14	H0	
ANISOU 8898 HE2 TYR C 164	4820	7650	6200	420	720	-10	H0
ATOM 8899 N PHE C 165	-56.077	13.246	35.860	1.00	42.69	N0	
ANISOU 8899 N PHE C 165	4370	6800	5050	-240	910	-370	N0
ATOM 8900 CA PHE C 165	-54.955	12.868	36.754	1.00	40.97	C0	
ANISOU 8900 CA PHE C 165	4300	6470	4800	-330	900	-410	C0
ATOM 8901 C PHE C 165	-55.339	11.621	37.553	1.00	40.35	C0	
ANISOU 8901 C PHE C 165	4230	6520	4580	-520	870	-400	C0
ATOM 8902 O PHE C 165	-56.441	11.591	38.122	1.00	42.10	O0	
ANISOU 8902 O PHE C 165	4340	6930	4730	-570	930	-420	O0
ATOM 8903 CB PHE C 165	-54.555	14.002	37.697	1.00	41.00	C0	
ANISOU 8903 CB PHE C 165	4320	6410	4850	-240	980	-520	C0
ATOM 8904 CG PHE C 165	-53.283	13.681	38.432	1.00	39.77	C0	
ANISOU 8904 CG PHE C 165	4310	6130	4670	-320	950	-550	C0
ATOM 8905 CD1 PHE C 165	-52.074	13.659	37.755	1.00	38.11	C0	
ANISOU 8905 CD1 PHE C 165	4200	5760	4520	-300	890	-520	C0
ATOM 8906 CD2 PHE C 165	-53.307	13.315	39.770	1.00	39.91	C0	
ANISOU 8906 CD2 PHE C 165	4350	6220	4590	-430	980	-610	C0
ATOM 8907 CE1 PHE C 165	-50.902	13.332	38.418	1.00	37.37	C0	
ANISOU 8907 CE1 PHE C 165	4230	5570	4400	-370	860	-550	C0

ATOM 8908 CE2 PHE C 165	-52.133	12.993	40.430	1.00	39.13	C0	
ANISOU 8908 CE2 PHE C 165	4390	6020	4460	-500	940	-630	C0
ATOM 8909 CZ PHE C 165	-50.934	13.005	39.754	1.00	37.89	C0	
ANISOU 8909 CZ PHE C 165	4320	5700	4380	-460	880	-610	C0
ATOM 8910 H PHE C 165	-56.556	13.950	36.174	1.00	43.68	H0	
ANISOU 8910 H PHE C 165	4420	6970	5200	-150	960	-420	H0
ATOM 8911 HA PHE C 165	-54.172	12.644	36.189	1.00	39.99	H0	
ANISOU 8911 HA PHE C 165	4260	6230	4710	-330	840	-380	H0
ATOM 8912 HB2 PHE C 165	-54.432	14.822	37.175	1.00	41.06	H0	
ANISOU 8912 HB2 PHE C 165	4320	6340	4950	-120	990	-520	H0
ATOM 8913 HB3 PHE C 165	-55.277	14.151	38.342	1.00	41.94	H0	
ANISOU 8913 HB3 PHE C 165	4360	6640	4930	-240	1030	-560	H0
ATOM 8914 HD1 PHE C 165	-52.047	13.889	36.840	1.00	37.96	H0	
ANISOU 8914 HD1 PHE C 165	4170	5690	4560	-240	870	-480	H0
ATOM 8915 HD2 PHE C 165	-54.126	13.314	40.240	1.00	40.84	H0	
ANISOU 8915 HD2 PHE C 165	4390	6470	4660	-450	1030	-630	H0
ATOM 8916 HE1 PHE C 165	-50.082	13.342	37.954	1.00	36.78	H0	
ANISOU 8916 HE1 PHE C 165	4210	5400	4360	-350	820	-540	H0
ATOM 8917 HE2 PHE C 165	-52.156	12.768	41.345	1.00	39.53	H0	
ANISOU 8917 HE2 PHE C 165	4460	6120	4440	-570	960	-670	H0
ATOM 8918 HZ PHE C 165	-50.135	12.782	40.204	1.00	37.57	H0	
ANISOU 8918 HZ PHE C 165	4360	5600	4320	-510	850	-630	H0
ATOM 8919 N SER C 166	-54.443	10.633	37.578	1.00	38.74	N0	
ANISOU 8919 N SER C 166	4170	6210	4330	-630	790	-360	N0
ATOM 8920 CA SER C 166	-54.647	9.299	38.197	1.00	38.98	C0	
ANISOU 8920 CA SER C 166	4270	6310	4230	-830	730	-330	C0
ATOM 8921 C SER C 166	-54.914	9.457	39.698	1.00	39.70	C0	
ANISOU 8921 C SER C 166	4350	6500	4230	-910	800	-400	C0
ATOM 8922 O SER C 166	-54.128	10.157	40.366	1.00	38.45	O0	
ANISOU 8922 O SER C 166	4240	6260	4110	-840	840	-470	O0
ATOM 8923 CB SER C 166	-53.455	8.413	37.950	1.00	38.05	C0	
ANISOU 8923 CB SER C 166	4330	6030	4100	-880	620	-300	C0
ATOM 8924 OG SER C 166	-53.592	7.182	38.645	1.00	38.45	O0	
ANISOU 8924 OG SER C 166	4470	6120	4020	-1070	560	-260	O0
ATOM 8925 H SER C 166	-53.616	10.712	37.205	1.00	38.12	H0	
ANISOU 8925 H SER C 166	4170	6010	4300	-590	750	-360	H0
ATOM 8926 HA SER C 166	-55.446	8.882	37.777	1.00	39.47	H0	
ANISOU 8926 HA SER C 166	4270	6480	4250	-890	720	-280	H0
ATOM 8927 HB2 SER C 166	-53.372	8.238	36.986	1.00	37.57	H0	
ANISOU 8927 HB2 SER C 166	4270	5930	4080	-850	580	-260	H0
ATOM 8928 HB3 SER C 166	-52.638	8.871	38.251	1.00	37.55	H0	
ANISOU 8928 HB3 SER C 166	4310	5870	4080	-820	630	-340	H0
ATOM 8929 N GLN C 167	-55.967	8.810	40.203	1.00	41.25	N0	
ANISOU 8929 N GLN C 167	4480	6890	4300	-1060	820	-370	N0
ATOM 8930 CA GLN C 167	-56.318	8.804	41.649	1.00	43.18	C0	
ANISOU 8930 CA GLN C 167	4710	7260	4430	-1160	890	-430	C0
ATOM 8931 C GLN C 167	-55.354	7.876	42.410	1.00	41.99	C0	
ANISOU 8931 C GLN C 167	4760	7000	4200	-1310	800	-410	C0
ATOM 8932 O GLN C 167	-55.365	7.923	43.653	1.00	42.81	O0	
ANISOU 8932 O GLN C 167	4880	7170	4210	-1390	850	-460	O0
ATOM 8933 CB GLN C 167	-57.789	8.419	41.847	1.00	45.46	C0	
ANISOU 8933 CB GLN C 167	4850	7820	4610	-1290	940	-410	C0
ATOM 8934 CG GLN C 167	-58.089	6.945	41.615	1.00	46.51	C0	
ANISOU 8934 CG GLN C 167	5060	7980	4620	-1520	830	-300	C0

ATOM 8935 CD GLN C 167	-59.567	6.643	41.662	1.00	49.25	C0	
ANISOU 8935 CD GLN C 167	5240	8610	4860	-1650	880	-280	C0
ATOM 8936 OE1 GLN C 167	-60.227	6.504	40.632	1.00	51.19	O0	
ANISOU 8936 OE1 GLN C 167	5380	8930	5140	-1630	850	-230	O0
ATOM 8937 NE2 GLN C 167	-60.102	6.536	42.866	1.00	50.68	N0	
ANISOU 8937 NE2 GLN C 167	5370	8980	4910	-1790	950	-320	N0
ATOM 8938 H GLN C 167	-56.541	8.330	39.684	1.00	41.62	H0	
ANISOU 8938 H GLN C 167	4490	7000	4320	-1110	790	-320	H0
ATOM 8939 HA GLN C 167	-56.193	9.719	41.991	1.00	43.14	H0	
ANISOU 8939 HA GLN C 167	4660	7250	4480	-1050	960	-500	H0
ATOM 8940 HB2 GLN C 167	-58.050	8.657	42.761	1.00	46.32	H0	
ANISOU 8940 HB2 GLN C 167	4920	8030	4650	-1330	1000	-470	H0
ATOM 8941 HB3 GLN C 167	-58.334	8.955	41.233	1.00	45.72	H0	
ANISOU 8941 HB3 GLN C 167	4750	7910	4710	-1180	970	-420	H0
ATOM 8942 HG2 GLN C 167	-57.735	6.676	40.740	1.00	45.74	H0	
ANISOU 8942 HG2 GLN C 167	5020	7770	4590	-1480	760	-260	H0
ATOM 8943 HG3 GLN C 167	-57.633	6.410	42.299	1.00	46.56	H0	
ANISOU 8943 HG3 GLN C 167	5190	7940	4560	-1630	790	-290	H0
ATOM 8944 HE21 GLN C 167	-60.930	6.239	42.957	1.00	51.75	H0	
ANISOU 8944 HE21 GLN C 167	5410	9290	4960	-1900	970	-300	H0
ATOM 8945 HE22 GLN C 167	-59.633	6.762	43.581	1.00	50.58	H0	
ANISOU 8945 HE22 GLN C 167	5420	8920	4880	-1780	980	-360	H0
ATOM 8946 N TYR C 168	-54.532	7.098	41.692	1.00	39.82	N0	
ANISOU 8946 N TYR C 168	4620	6550	3950	-1320	680	-340	N0
ATOM 8947 CA TYR C 168	-53.674	6.018	42.247	1.00	38.85	C0	
ANISOU 8947 CA TYR C 168	4700	6310	3750	-1440	560	-300	C0
ATOM 8948 C TYR C 168	-52.215	6.473	42.349	1.00	37.21	C0	
ANISOU 8948 C TYR C 168	4590	5920	3630	-1320	530	-350	C0
ATOM 8949 O TYR C 168	-51.409	5.715	42.920	1.00	37.26	O0	
ANISOU 8949 O TYR C 168	4760	5830	3570	-1390	440	-340	O0
ATOM 8950 CB TYR C 168	-53.832	4.750	41.407	1.00	38.54	C0	
ANISOU 8950 CB TYR C 168	4760	6220	3660	-1550	440	-210	C0
ATOM 8951 CG TYR C 168	-55.251	4.256	41.357	1.00	39.60	C0	
ANISOU 8951 CG TYR C 168	4800	6550	3690	-1710	460	-150	C0
ATOM 8952 CD1 TYR C 168	-55.945	3.985	42.526	1.00	40.99	C0	
ANISOU 8952 CD1 TYR C 168	4960	6890	3720	-1890	510	-150	C0
ATOM 8953 CD2 TYR C 168	-55.913	4.082	40.149	1.00	39.58	C0	
ANISOU 8953 CD2 TYR C 168	4720	6590	3730	-1690	440	-110	C0
ATOM 8954 CE1 TYR C 168	-57.257	3.544	42.498	1.00	42.29	C0	
ANISOU 8954 CE1 TYR C 168	5020	7270	3780	-2050	540	-110	C0
ATOM 8955 CE2 TYR C 168	-57.227	3.649	40.105	1.00	40.54	C0	
ANISOU 8955 CE2 TYR C 168	4730	6920	3750	-1850	460	-60	C0
ATOM 8956 CZ TYR C 168	-57.900	3.383	41.284	1.00	41.88	C0	
ANISOU 8956 CZ TYR C 168	4880	7260	3780	-2030	510	-60	C0
ATOM 8957 OH TYR C 168	-59.191	2.946	41.258	1.00	43.87	O0	
ANISOU 8957 OH TYR C 168	5020	7740	3920	-2210	530	-20	O0
ATOM 8958 H TYR C 168	-54.451	7.163	40.790	1.00	39.33	H0	
ANISOU 8958 H TYR C 168	4550	6440	3960	-1250	650	-320	H0
ATOM 8959 HA TYR C 168	-53.988	5.818	43.164	1.00	39.68	H0	
ANISOU 8959 HA TYR C 168	4820	6500	3750	-1560	590	-310	H0
ATOM 8960 HB2 TYR C 168	-53.522	4.935	40.496	1.00	37.78	H0	
ANISOU 8960 HB2 TYR C 168	4650	6050	3660	-1440	420	-200	H0
ATOM 8961 HB3 TYR C 168	-53.261	4.049	41.785	1.00	38.53	H0	
ANISOU 8961 HB3 TYR C 168	4900	6130	3610	-1620	360	-180	H0

ATOM 8962 HD1 TYR C 168	-55.514	4.099	43.357	1.00	41.08		H0
ANISOU 8962 HD1 TYR C 168	5030	6880	3700	-1910	520	-180	H0
ATOM 8963 HD2 TYR C 168	-55.462	4.270	39.343	1.00	38.64		H0
ANISOU 8963 HD2 TYR C 168	4610	6380	3700	-1580	420	-110	H0
ATOM 8964 HE1 TYR C 168	-57.715	3.363	43.302	1.00	43.26		H0
ANISOU 8964 HE1 TYR C 168	5130	7510	3800	-2190	570	-110	H0
ATOM 8965 HE2 TYR C 168	-57.662	3.534	39.276	1.00	40.63		H0
ANISOU 8965 HE2 TYR C 168	4690	6960	3790	-1840	440	-30	H0
ATOM 8966 N SER C 169	-51.891	7.670	41.852	1.00	36.06		N0
ANISOU 8966 N SER C 169	4360	5730	3620	-1140	610	-410	N0
ATOM 8967 CA SER C 169	-50.607	8.362	42.138	1.00	35.21		C0
ANISOU 8967 CA SER C 169	4310	5480	3590	-1030	610	-480	C0
ATOM 8968 C SER C 169	-50.454	8.534	43.659	1.00	36.58		C0
ANISOU 8968 C SER C 169	4520	5710	3670	-1110	650	-540	C0
ATOM 8969 O SER C 169	-51.478	8.722	44.340	1.00	36.46		O0
ANISOU 8969 O SER C 169	4430	5850	3580	-1180	730	-560	O0
ATOM 8970 CB SER C 169	-50.526	9.686	41.421	1.00	34.30		C0
ANISOU 8970 CB SER C 169	4090	5330	3610	-860	690	-530	C0
ATOM 8971 OG SER C 169	-49.271	10.316	41.647	1.00	33.32		O0
ANISOU 8971 OG SER C 169	4030	5080	3550	-780	690	-580	O0
ATOM 8972 H SER C 169	-52.426	8.147	41.292	1.00	36.21		H0
ANISOU 8972 H SER C 169	4280	5790	3690	-1070	650	-410	H0
ATOM 8973 HA SER C 169	-49.867	7.783	41.815	1.00	34.73		H0
ANISOU 8973 HA SER C 169	4340	5320	3530	-1030	520	-450	H0
ATOM 8974 HB2 SER C 169	-50.655	9.544	40.458	1.00	33.93		H0
ANISOU 8974 HB2 SER C 169	4020	5260	3610	-820	660	-480	H0
ATOM 8975 HB3 SER C 169	-51.248	10.273	41.741	1.00	34.99		H0
ANISOU 8975 HB3 SER C 169	4090	5510	3700	-840	770	-560	H0
ATOM 8976 N ARG C 170	-49.221	8.470	44.172	1.00	36.99		N0
ANISOU 8976 N ARG C 170	4690	5650	3720	-1100	590	-570	N0
ATOM 8977 CA ARG C 170	-48.907	8.811	45.586	1.00	38.79		C0
ANISOU 8977 CA ARG C 170	4950	5910	3880	-1150	620	-640	C0
ATOM 8978 C ARG C 170	-48.985	10.333	45.758	1.00	39.16		C0
ANISOU 8978 C ARG C 170	4900	5970	4010	-1030	750	-740	C0
ATOM 8979 O ARG C 170	-48.906	10.796	46.907	1.00	40.17		O0
ANISOU 8979 O ARG C 170	5040	6150	4080	-1070	810	-820	O0
ATOM 8980 CB ARG C 170	-47.514	8.325	45.995	1.00	38.86		C0
ANISOU 8980 CB ARG C 170	5100	5790	3870	-1160	510	-640	C0
ATOM 8981 CG ARG C 170	-47.376	6.816	46.116	1.00	39.86		C0
ANISOU 8981 CG ARG C 170	5370	5890	3890	-1280	360	-550	C0
ATOM 8982 CD ARG C 170	-45.921	6.424	46.314	1.00	40.20		C0
ANISOU 8982 CD ARG C 170	5530	5800	3950	-1240	240	-560	C0
ATOM 8983 NE ARG C 170	-45.124	6.671	45.115	1.00	40.25		N0
ANISOU 8983 NE ARG C 170	5500	5700	4090	-1090	210	-570	N0
ATOM 8984 CZ ARG C 170	-43.846	6.324	44.954	1.00	40.70		C0
ANISOU 8984 CZ ARG C 170	5630	5660	4180	-1020	110	-590	C0
ATOM 8985 NH1 ARG C 170	-43.191	5.700	45.922	1.00	41.62		N0
ANISOU 8985 NH1 ARG C 170	5860	5750	4210	-1070	10	-580	N0
ATOM 8986 NH2 ARG C 170	-43.229	6.595	43.815	1.00	39.71		N0
ANISOU 8986 NH2 ARG C 170	5450	5480	4160	-900	100	-600	N0
ATOM 8987 H ARG C 170	-48.497	8.212	43.682	1.00	36.41		H0
ANISOU 8987 H ARG C 170	4660	5470	3690	-1060	520	-550	H0
ATOM 8988 HA ARG C 170	-49.579	8.388	46.169	1.00	39.49		H0
ANISOU 8988 HA ARG C 170	5040	6100	3860	-1260	640	-620	H0

ATOM 8989 HB2 ARG C 170	-46.869	8.649	45.333	1.00	38.21		H0
ANISOU 8989 HB2 ARG C 170	5010	5630	3880	-1070	490	-650	H0
ATOM 8990 HB3 ARG C 170	-47.284	8.730	46.857	1.00	39.37		H0
ANISOU 8990 HB3 ARG C 170	5180	5880	3900	-1190	540	-690	H0
ATOM 8991 HG2 ARG C 170	-47.904	6.497	46.879	1.00	40.66		H0
ANISOU 8991 HG2 ARG C 170	5500	6070	3890	-1400	370	-540	H0
ATOM 8992 HG3 ARG C 170	-47.720	6.387	45.304	1.00	39.57		H0
ANISOU 8992 HG3 ARG C 170	5320	5830	3880	-1270	340	-500	H0
ATOM 8993 HD2 ARG C 170	-45.548	6.937	47.062	1.00	40.57		H0
ANISOU 8993 HD2 ARG C 170	5580	5860	3980	-1240	270	-610	H0
ATOM 8994 HD3 ARG C 170	-45.872	5.472	46.546	1.00	40.67		H0
ANISOU 8994 HD3 ARG C 170	5690	5830	3930	-1310	150	-510	H0
ATOM 8995 HE ARG C 170	-45.514	7.074	44.448	1.00	39.87		H0
ANISOU 8995 HE ARG C 170	5380	5670	4100	-1040	270	-570	H0
ATOM 8996 HH11 ARG C 170	-43.593	5.515	46.680	1.00	42.06		H0
ANISOU 8996 HH11 ARG C 170	5950	5850	4180	-1170	10	-570	H0
ATOM 8997 HH12 ARG C 170	-42.349	5.476	45.805	1.00	41.31		H0
ANISOU 8997 HH12 ARG C 170	5850	5650	4190	-1020	-70	-600	H0
ATOM 8998 HH21 ARG C 170	-43.661	7.009	43.168	1.00	39.40		H0
ANISOU 8998 HH21 ARG C 170	5340	5450	4180	-860	160	-600	H0
ATOM 8999 HH22 ARG C 170	-42.385	6.367	43.708	1.00	39.60		H0
ANISOU 8999 HH22 ARG C 170	5470	5410	4170	-850	40	-620	H0
ATOM 9000 N PHE C 171	-49.112	11.078	44.654	1.00	38.43		N0
ANISOU 9000 N PHE C 171	4720	5830	4050	-900	800	-750	N0
ATOM 9001 CA PHE C 171	-49.139	12.562	44.630	1.00	38.37		C0
ANISOU 9001 CA PHE C 171	4640	5790	4140	-770	900	-840	C0
ATOM 9002 C PHE C 171	-50.511	13.043	44.157	1.00	39.15		C0
ANISOU 9002 C PHE C 171	4600	6000	4270	-700	990	-840	C0
ATOM 9003 O PHE C 171	-51.287	12.231	43.617	1.00	38.85		O0
ANISOU 9003 O PHE C 171	4520	6050	4190	-750	960	-760	O0
ATOM 9004 CB PHE C 171	-48.012	13.079	43.737	1.00	37.46		C0
ANISOU 9004 CB PHE C 171	4560	5520	4150	-660	860	-830	C0
ATOM 9005 CG PHE C 171	-46.660	12.534	44.112	1.00	37.08		C0
ANISOU 9005 CG PHE C 171	4620	5390	4080	-720	770	-830	C0
ATOM 9006 CD1 PHE C 171	-46.215	11.329	43.594	1.00	36.49		C0
ANISOU 9006 CD1 PHE C 171	4610	5280	3970	-760	650	-760	C0
ATOM 9007 CD2 PHE C 171	-45.852	13.205	45.016	1.00	37.42		C0
ANISOU 9007 CD2 PHE C 171	4710	5390	4120	-720	790	-920	C0
ATOM 9008 CE1 PHE C 171	-44.982	10.818	43.960	1.00	36.54		C0
ANISOU 9008 CE1 PHE C 171	4710	5220	3950	-790	560	-770	C0
ATOM 9009 CE2 PHE C 171	-44.616	12.692	45.378	1.00	37.11		C0
ANISOU 9009 CE2 PHE C 171	4760	5290	4050	-770	690	-920	C0
ATOM 9010 CZ PHE C 171	-44.185	11.501	44.847	1.00	36.68		C0
ANISOU 9010 CZ PHE C 171	4750	5210	3970	-790	580	-850	C0
ATOM 9011 H PHE C 171	-49.169	10.726	43.819	1.00	37.91		H0
ANISOU 9011 H PHE C 171	4650	5740	4020	-880	760	-690	H0
ATOM 9012 HA PHE C 171	-48.991	12.896	45.550	1.00	39.01		H0
ANISOU 9012 HA PHE C 171	4740	5900	4180	-790	940	-900	H0
ATOM 9013 HB2 PHE C 171	-48.210	12.834	42.809	1.00	37.04		H0
ANISOU 9013 HB2 PHE C 171	4480	5450	4140	-630	840	-770	H0
ATOM 9014 HB3 PHE C 171	-47.990	14.057	43.794	1.00	37.76		H0
ANISOU 9014 HB3 PHE C 171	4570	5520	4250	-590	930	-890	H0
ATOM 9015 HD1 PHE C 171	-46.758	10.854	42.985	1.00	36.41		H0
ANISOU 9015 HD1 PHE C 171	4580	5300	3960	-770	630	-700	H0

ATOM 9016 HD2 PHE C 171	-46.145	14.023	45.383	1.00	37.97	H0	
ANISOU 9016 HD2 PHE C 171	4750	5470	4200	-690	860	-980	H0
ATOM 9017 HE1 PHE C 171	-44.685	10.001	43.593	1.00	36.09	H0	
ANISOU 9017 HE1 PHE C 171	4690	5140	3880	-800	480	-720	H0
ATOM 9018 HE2 PHE C 171	-44.071	13.163	45.987	1.00	37.41	H0	
ANISOU 9018 HE2 PHE C 171	4820	5310	4080	-780	710	-980	H0
ATOM 9019 HZ PHE C 171	-43.343	11.151	45.092	1.00	36.56	H0	
ANISOU 9019 HZ PHE C 171	4790	5170	3940	-810	510	-850	H0
ATOM 9020 N GLU C 172	-50.782	14.333	44.359	1.00	40.17	N0	
ANISOU 9020 N GLU C 172	4670	6130	4470	-580	1090	-930	N0
ATOM 9021 CA GLU C 172	-52.015	15.020	43.898	1.00	41.84	C0	
ANISOU 9021 CA GLU C 172	4740	6430	4720	-470	1170	-940	C0
ATOM 9022 C GLU C 172	-51.642	16.424	43.415	1.00	41.99	C0	
ANISOU 9022 C GLU C 172	4770	6300	4890	-300	1210	-1000	C0
ATOM 9023 O GLU C 172	-50.628	16.966	43.898	1.00	41.47	O0	
ANISOU 9023 O GLU C 172	4800	6110	4850	-300	1210	-1060	O0
ATOM 9024 CB GLU C 172	-53.060	15.066	45.017	1.00	44.01	C0	
ANISOU 9024 CB GLU C 172	4930	6900	4890	-520	1260	-1020	C0
ATOM 9025 CG GLU C 172	-52.596	15.800	46.262	1.00	45.08	C0	
ANISOU 9025 CG GLU C 172	5120	7020	4990	-510	1320	-1150	C0
ATOM 9026 CD GLU C 172	-53.512	15.630	47.460	1.00	47.68	C0	
ANISOU 9026 CD GLU C 172	5380	7570	5170	-590	1410	-1220	C0
ATOM 9027 OE1 GLU C 172	-54.555	14.973	47.306	1.00	49.76	O0	
ANISOU 9027 OE1 GLU C 172	5530	8010	5360	-660	1420	-1170	O0
ATOM 9028 OE2 GLU C 172	-53.181	16.156	48.545	1.00	48.83	O0	
ANISOU 9028 OE2 GLU C 172	5570	7710	5270	-610	1460	-1330	O0
ATOM 9029 H GLU C 172	-50.207	14.882	44.804	1.00	40.34	H0	
ANISOU 9029 H GLU C 172	4740	6080	4510	-560	1100	-990	H0
ATOM 9030 HA GLU C 172	-52.387	14.516	43.138	1.00	41.49	H0	
ANISOU 9030 HA GLU C 172	4660	6410	4690	-480	1130	-870	H0
ATOM 9031 HB2 GLU C 172	-53.867	15.502	44.673	1.00	44.60	H0	
ANISOU 9031 HB2 GLU C 172	4900	7050	5000	-430	1310	-1030	H0
ATOM 9032 HB3 GLU C 172	-53.295	14.146	45.258	1.00	43.96	H0	
ANISOU 9032 HB3 GLU C 172	4930	6990	4790	-640	1230	-970	H0
ATOM 9033 HG2 GLU C 172	-51.703	15.481	46.508	1.00	44.55	H0	
ANISOU 9033 HG2 GLU C 172	5160	6860	4910	-580	1270	-1130	H0
ATOM 9034 HG3 GLU C 172	-52.524	16.757	46.060	1.00	45.49	H0	
ANISOU 9034 HG3 GLU C 172	5160	6990	5130	-390	1360	-1200	H0
ATOM 9035 N ILE C 173	-52.450	16.977	42.510	1.00	42.91	N0	
ANISOU 9035 N ILE C 173	4790	6430	5080	-170	1230	-980	N0
ATOM 9036 CA ILE C 173	-52.237	18.308	41.871	1.00	43.90	C0	
ANISOU 9036 CA ILE C 173	4930	6400	5350	0	1260	-1010	C0
ATOM 9037 C ILE C 173	-53.058	19.358	42.626	1.00	45.81	C0	
ANISOU 9037 C ILE C 173	5110	6700	5600	130	1360	-1130	C0
ATOM 9038 O ILE C 173	-54.266	19.133	42.828	1.00	47.11	O0	
ANISOU 9038 O ILE C 173	5140	7050	5710	150	1400	-1150	O0
ATOM 9039 CB ILE C 173	-52.622	18.248	40.382	1.00	43.91	C0	
ANISOU 9039 CB ILE C 173	4880	6380	5420	80	1210	-900	C0
ATOM 9040 CG1 ILE C 173	-51.662	17.356	39.591	1.00	43.07	C0	
ANISOU 9040 CG1 ILE C 173	4850	6200	5320	-20	1110	-790	C0
ATOM 9041 CG2 ILE C 173	-52.722	19.647	39.796	1.00	44.93	C0	
ANISOU 9041 CG2 ILE C 173	5020	6370	5680	260	1230	-920	C0
ATOM 9042 CD1 ILE C 173	-52.050	17.161	38.144	1.00	43.03	C0	
ANISOU 9042 CD1 ILE C 173	4800	6190	5360	30	1060	-690	C0

ATOM 9043 H ILE C 173	-53.207	16.561	42.221	1.00	43.21	H0	
ANISOU 9043 H ILE C 173	4750	6580	5090	-180	1230	-940	H0
ATOM 9044 HA ILE C 173	-51.294	18.538	41.938	1.00	43.34	H0	
ANISOU 9044 HA ILE C 173	4960	6210	5300	-20	1230	-1020	H0
ATOM 9045 HB ILE C 173	-53.518	17.837	40.325	1.00	44.49	H0	
ANISOU 9045 HB ILE C 173	4860	6590	5450	70	1220	-880	H0
ATOM 9046 HG12 ILE C 173	-50.765	17.753	39.625	1.00	42.59	H0	
ANISOU 9046 HG12 ILE C 173	4870	6020	5290	-20	1100	-810	H0
ATOM 9047 HG13 ILE C 173	-51.618	16.478	40.025	1.00	42.65	H0	
ANISOU 9047 HG13 ILE C 173	4810	6220	5180	-130	1090	-780	H0
ATOM 9048 HG21 ILE C 173	-53.507	20.097	40.154	1.00	45.98	H0	
ANISOU 9048 HG21 ILE C 173	5080	6580	5810	340	1290	-980	H0
ATOM 9049 HG22 ILE C 173	-52.800	19.594	38.829	1.00	44.51	H0	
ANISOU 9049 HG22 ILE C 173	4950	6290	5670	290	1190	-840	H0
ATOM 9050 HG23 ILE C 173	-51.925	20.155	40.028	1.00	44.70	H0	
ANISOU 9050 HG23 ILE C 173	5080	6220	5680	260	1240	-960	H0
ATOM 9051 HD11 ILE C 173	-53.007	16.996	38.083	1.00	43.53	H0	
ANISOU 9051 HD11 ILE C 173	4770	6370	5400	50	1080	-670	H0
ATOM 9052 HD12 ILE C 173	-51.567	16.400	37.778	1.00	42.05	H0	
ANISOU 9052 HD12 ILE C 173	4710	6050	5210	-50	1010	-630	H0
ATOM 9053 HD13 ILE C 173	-51.826	17.959	37.635	1.00	43.05	H0	
ANISOU 9053 HD13 ILE C 173	4820	6090	5440	120	1070	-680	H0
ATOM 9054 N LEU C 174	-52.431	20.478	42.988	1.00	46.68	N0	
ANISOU 9054 N LEU C 174	5310	6650	5770	200	1390	-1220	N0
ATOM 9055 CA LEU C 174	-53.101	21.647	43.615	1.00	49.21	C0	
ANISOU 9055 CA LEU C 174	5600	6970	6120	350	1480	-1360	C0
ATOM 9056 C LEU C 174	-53.487	22.648	42.520	1.00	50.25	C0	
ANISOU 9056 C LEU C 174	5730	6980	6390	550	1460	-1330	C0
ATOM 9057 O LEU C 174	-54.632	23.116	42.528	1.00	51.79	O0	
ANISOU 9057 O LEU C 174	5810	7270	6600	700	1510	-1380	O0
ATOM 9058 CB LEU C 174	-52.163	22.265	44.654	1.00	49.63	C0	
ANISOU 9058 CB LEU C 174	5790	6910	6160	310	1500	-1480	C0
ATOM 9059 CG LEU C 174	-51.553	21.275	45.647	1.00	49.50	C0	
ANISOU 9059 CG LEU C 174	5810	6980	6010	110	1490	-1480	C0
ATOM 9060 CD1 LEU C 174	-50.614	21.978	46.613	1.00	50.22	C0	
ANISOU 9060 CD1 LEU C 174	6030	6950	6090	70	1510	-1600	C0
ATOM 9061 CD2 LEU C 174	-52.639	20.524	46.408	1.00	50.49	C0	
ANISOU 9061 CD2 LEU C 174	5810	7370	6000	50	1550	-1510	C0
ATOM 9062 H LEU C 174	-51.536	20.596	42.862	1.00	46.08	H0	
ANISOU 9062 H LEU C 174	5330	6450	5730	170	1350	-1210	H0
ATOM 9063 HA LEU C 174	-53.923	21.336	44.060	1.00	49.90	H0	
ANISOU 9063 HA LEU C 174	5590	7230	6140	350	1520	-1390	H0
ATOM 9064 HB2 LEU C 174	-51.436	22.719	44.182	1.00	49.28	H0	
ANISOU 9064 HB2 LEU C 174	5830	6700	6190	330	1470	-1450	H0
ATOM 9065 HB3 LEU C 174	-52.659	22.942	45.155	1.00	51.05	H0	
ANISOU 9065 HB3 LEU C 174	5950	7100	6340	400	1570	-1580	H0
ATOM 9066 HG LEU C 174	-51.025	20.613	45.137	1.00	48.26	H0	
ANISOU 9066 HG LEU C 174	5680	6790	5860	30	1420	-1390	H0
ATOM 9067 HD11 LEU C 174	-49.894	22.403	46.115	1.00	49.64	H0	
ANISOU 9067 HD11 LEU C 174	6030	6730	6100	90	1470	-1580	H0
ATOM 9068 HD12 LEU C 174	-50.238	21.329	47.233	1.00	49.72	H0	
ANISOU 9068 HD12 LEU C 174	5990	6960	5940	-50	1500	-1600	H0
ATOM 9069 HD13 LEU C 174	-51.106	22.654	47.111	1.00	51.39	H0	
ANISOU 9069 HD13 LEU C 174	6160	7120	6240	160	1580	-1700	H0

ATOM 9070 HD21 LEU C 174	-53.298	21.157	46.742	1.00	51.72	H0	
ANISOU 9070 HD21 LEU C 174	5910	7570	6160	150	1620	-1600	H0
ATOM 9071 HD22 LEU C 174	-52.241	20.046	47.155	1.00	50.24	H0	
ANISOU 9071 HD22 LEU C 174	5830	7380	5890	-70	1540	-1530	H0
ATOM 9072 HD23 LEU C 174	-53.074	19.889	45.813	1.00	49.98	H0	
ANISOU 9072 HD23 LEU C 174	5680	7380	5930	30	1520	-1420	H0
ATOM 9073 N ASP C 175	-52.576	22.932	41.586	1.00	50.43	N0	
ANISOU 9073 N ASP C 175	5860	6800	6500	540	1400	-1250	N0
ATOM 9074 CA ASP C 175	-52.811	23.904	40.486	1.00	51.74	C0	
ANISOU 9074 CA ASP C 175	6050	6820	6790	710	1370	-1200	C0
ATOM 9075 C ASP C 175	-51.809	23.644	39.355	1.00	50.11	C0	
ANISOU 9075 C ASP C 175	5920	6480	6630	620	1280	-1060	C0
ATOM 9076 O ASP C 175	-50.684	23.184	39.636	1.00	47.50	O0	
ANISOU 9076 O ASP C 175	5670	6110	6260	470	1260	-1060	O0
ATOM 9077 CB ASP C 175	-52.734	25.342	41.012	1.00	54.50	C0	
ANISOU 9077 CB ASP C 175	6500	7000	7210	850	1410	-1320	C0
ATOM 9078 CG ASP C 175	-53.178	26.399	40.011	1.00	56.92	C0	
ANISOU 9078 CG ASP C 175	6830	7160	7640	1040	1380	-1280	C0
ATOM 9079 OD1 ASP C 175	-54.396	26.547	39.810	1.00	58.86	O0	
ANISOU 9079 OD1 ASP C 175	6950	7520	7900	1200	1390	-1300	O0
ATOM 9080 OD2 ASP C 175	-52.296	27.057	39.427	1.00	59.32	O0	
ANISOU 9080 OD2 ASP C 175	7290	7230	8010	1020	1330	-1240	O0
ATOM 9081 H ASP C 175	-51.749	22.551	41.573	1.00	49.27	H0	
ANISOU 9081 H ASP C 175	5780	6610	6340	440	1360	-1210	H0
ATOM 9082 HA ASP C 175	-53.720	23.755	40.136	1.00	52.29	H0	
ANISOU 9082 HA ASP C 175	6010	7000	6860	790	1370	-1170	H0
ATOM 9083 HB2 ASP C 175	-53.298	25.421	41.808	1.00	55.45	H0	
ANISOU 9083 HB2 ASP C 175	6560	7220	7290	890	1470	-1420	H0
ATOM 9084 HB3 ASP C 175	-51.811	25.535	41.273	1.00	54.09	H0	
ANISOU 9084 HB3 ASP C 175	6550	6830	7160	760	1400	-1340	H0
ATOM 9085 N VAL C 176	-52.234	23.904	38.117	1.00	50.76	N0	
ANISOU 9085 N VAL C 176	5980	6520	6780	720	1240	-960	N0
ATOM 9086 CA VAL C 176	-51.367	23.952	36.906	1.00	50.13	C0	
ANISOU 9086 CA VAL C 176	5990	6310	6750	670	1170	-840	C0
ATOM 9087 C VAL C 176	-51.623	25.301	36.231	1.00	52.11	C0	
ANISOU 9087 C VAL C 176	6310	6380	7110	830	1150	-820	C0
ATOM 9088 O VAL C 176	-52.776	25.546	35.831	1.00	52.76	O0	
ANISOU 9088 O VAL C 176	6300	6520	7220	990	1150	-800	O0
ATOM 9089 CB VAL C 176	-51.626	22.770	35.950	1.00	49.14	C0	
ANISOU 9089 CB VAL C 176	5770	6320	6590	610	1110	-710	C0
ATOM 9090 CG1 VAL C 176	-50.685	22.809	34.754	1.00	48.34	C0	
ANISOU 9090 CG1 VAL C 176	5750	6090	6520	550	1050	-600	C0
ATOM 9091 CG2 VAL C 176	-51.523	21.428	36.662	1.00	47.82	C0	
ANISOU 9091 CG2 VAL C 176	5540	6310	6310	460	1120	-730	C0
ATOM 9092 H VAL C 176	-53.109	24.073	37.933	1.00	51.56	H0	
ANISOU 9092 H VAL C 176	6000	6690	6900	830	1250	-960	H0
ATOM 9093 HA VAL C 176	-50.440	23.919	37.192	1.00	49.60	H0	
ANISOU 9093 HA VAL C 176	6000	6170	6680	570	1160	-860	H0
ATOM 9094 HB VAL C 176	-52.550	22.862	35.610	1.00	49.76	H0	
ANISOU 9094 HB VAL C 176	5760	6460	6680	700	1110	-690	H0
ATOM 9095 HG11 VAL C 176	-50.967	23.509	34.140	1.00	49.06	H0	
ANISOU 9095 HG11 VAL C 176	5860	6110	6670	640	1040	-570	H0
ATOM 9096 HG12 VAL C 176	-50.706	21.950	34.296	1.00	47.47	H0	
ANISOU 9096 HG12 VAL C 176	5590	6070	6370	490	1020	-540	H0

ATOM 9097 HG13 VAL C 176	-49.779	22.991	35.059	1.00	47.98	H0	
ANISOU 9097 HG13 VAL C 176	5790	5960	6480	480	1060	-630	H0
ATOM 9098 HG21 VAL C 176	-50.613	21.298	36.981	1.00	47.26	H0	
ANISOU 9098 HG21 VAL C 176	5550	6180	6230	370	1110	-750	H0
ATOM 9099 HG22 VAL C 176	-51.753	20.713	36.042	1.00	47.32	H0	
ANISOU 9099 HG22 VAL C 176	5430	6330	6220	420	1080	-660	H0
ATOM 9100 HG23 VAL C 176	-52.136	21.410	37.416	1.00	48.58	H0	
ANISOU 9100 HG23 VAL C 176	5580	6500	6370	480	1160	-800	H0
ATOM 9101 N THR C 177	-50.593	26.151	36.176	1.00	52.72	N0	
ANISOU 9101 N THR C 177	6550	6240	7240	800	1140	-830	N0
ATOM 9102 CA THR C 177	-50.583	27.466	35.485	1.00	54.62	C0	
ANISOU 9102 CA THR C 177	6910	6260	7580	910	1110	-800	C0
ATOM 9103 C THR C 177	-49.713	27.339	34.229	1.00	53.51	C0	
ANISOU 9103 C THR C 177	6840	6050	7450	800	1040	-650	C0
ATOM 9104 O THR C 177	-48.633	26.725	34.320	1.00	51.40	O0	
ANISOU 9104 O THR C 177	6590	5810	7130	620	1040	-640	O0
ATOM 9105 CB THR C 177	-50.085	28.576	36.422	1.00	56.48	C0	
ANISOU 9105 CB THR C 177	7300	6310	7850	930	1140	-930	C0
ATOM 9106 OG1 THR C 177	-50.765	28.441	37.671	1.00	58.08	O0	
ANISOU 9106 OG1 THR C 177	7420	6640	8010	990	1210	-1070	O0
ATOM 9107 CG2 THR C 177	-50.316	29.970	35.877	1.00	58.50	C0	
ANISOU 9107 CG2 THR C 177	7690	6330	8200	1080	1110	-910	C0
ATOM 9108 H THR C 177	-49.794	25.974	36.577	1.00	52.10	H0	
ANISOU 9108 H THR C 177	6520	6140	7130	690	1150	-860	H0
ATOM 9109 HA THR C 177	-51.505	27.677	35.210	1.00	55.46	H0	
ANISOU 9109 HA THR C 177	6960	6410	7710	1050	1100	-790	H0
ATOM 9110 HB THR C 177	-49.118	28.448	36.569	1.00	55.81	H0	
ANISOU 9110 HB THR C 177	7280	6190	7740	790	1140	-930	H0
ATOM 9111 HG21 THR C 177	-49.775	30.102	35.077	1.00	58.14	H0	
ANISOU 9111 HG21 THR C 177	7720	6200	8170	1010	1060	-810	H0
ATOM 9112 HG22 THR C 177	-50.064	30.629	36.549	1.00	59.36	H0	
ANISOU 9112 HG22 THR C 177	7900	6330	8330	1090	1130	-1000	H0
ATOM 9113 HG23 THR C 177	-51.257	30.081	35.652	1.00	59.25	H0	
ANISOU 9113 HG23 THR C 177	7720	6470	8320	1230	1100	-900	H0
ATOM 9114 N GLN C 178	-50.179	27.881	33.104	1.00	54.69	N0	
ANISOU 9114 N GLN C 178	7020	6120	7650	900	990	-550	N0
ATOM 9115 CA GLN C 178	-49.452	27.881	31.811	1.00	54.98	C0	
ANISOU 9115 CA GLN C 178	7120	6080	7690	810	930	-400	C0
ATOM 9116 C GLN C 178	-49.312	29.335	31.352	1.00	56.86	C0	
ANISOU 9116 C GLN C 178	7540	6060	8010	880	890	-360	C0
ATOM 9117 O GLN C 178	-50.329	30.057	31.349	1.00	58.15	O0	
ANISOU 9117 O GLN C 178	7710	6160	8230	1080	880	-380	O0
ATOM 9118 CB GLN C 178	-50.168	26.977	30.806	1.00	55.10	C0	
ANISOU 9118 CB GLN C 178	7000	6270	7670	840	890	-290	C0
ATOM 9119 CG GLN C 178	-50.593	25.639	31.406	1.00	54.67	C0	
ANISOU 9119 CG GLN C 178	6780	6450	7540	790	920	-340	C0
ATOM 9120 CD GLN C 178	-50.549	24.472	30.449	1.00	54.09	C0	
ANISOU 9120 CD GLN C 178	6620	6520	7410	700	880	-230	C0
ATOM 9121 OE1 GLN C 178	-50.093	24.578	29.314	1.00	55.59	O0	
ANISOU 9121 OE1 GLN C 178	6860	6660	7600	660	840	-130	O0
ATOM 9122 NE2 GLN C 178	-51.021	23.328	30.912	1.00	53.30	N0	
ANISOU 9122 NE2 GLN C 178	6400	6610	7240	660	900	-270	N0
ATOM 9123 H GLN C 178	-50.991	28.293	33.063	1.00	55.87	H0	
ANISOU 9123 H GLN C 178	7140	6250	7830	1050	990	-560	H0

ATOM 9124 HA GLN C 178	-48.551	27.517	31.967	1.00	54.03	H0	
ANISOU 9124 HA GLN C 178	7020	5970	7530	670	940	-410	H0
ATOM 9125 HB2 GLN C 178	-50.960	27.447	30.471	1.00	56.17	H0	
ANISOU 9125 HB2 GLN C 178	7120	6380	7840	970	870	-260	H0
ATOM 9126 HB3 GLN C 178	-49.568	26.818	30.048	1.00	54.55	H0	
ANISOU 9126 HB3 GLN C 178	6970	6180	7580	750	860	-210	H0
ATOM 9127 HG2 GLN C 178	-50.011	25.436	32.168	1.00	54.10	H0	
ANISOU 9127 HG2 GLN C 178	6730	6380	7450	710	960	-410	H0
ATOM 9128 HG3 GLN C 178	-51.508	25.726	31.751	1.00	55.37	H0	
ANISOU 9128 HG3 GLN C 178	6800	6600	7640	900	940	-380	H0
ATOM 9129 HE21 GLN C 178	-51.422	22.761	30.365	1.00	52.95	H0	
ANISOU 9129 HE21 GLN C 178	6290	6660	7170	660	870	-210	H0
ATOM 9130 HE22 GLN C 178	-50.935	23.128	31.770	1.00	53.09	H0	
ANISOU 9130 HE22 GLN C 178	6360	6610	7200	630	930	-340	H0
ATOM 9131 N LYS C 179	-48.083	29.738	31.013	1.00	57.36	N0	
ANISOU 9131 N LYS C 179	7740	5990	8060	720	880	-320	N0
ATOM 9132 CA LYS C 179	-47.678	31.140	30.718	1.00	59.04	C0	
ANISOU 9132 CA LYS C 179	8160	5930	8340	720	840	-290	C0
ATOM 9133 C LYS C 179	-46.758	31.151	29.490	1.00	58.11	C0	
ANISOU 9133 C LYS C 179	8120	5780	8190	550	800	-140	C0
ATOM 9134 O LYS C 179	-45.872	30.287	29.409	1.00	56.21	O0	
ANISOU 9134 O LYS C 179	7800	5680	7880	380	820	-140	O0
ATOM 9135 CB LYS C 179	-46.983	31.746	31.943	1.00	60.44	C0	
ANISOU 9135 CB LYS C 179	8450	5990	8530	650	890	-430	C0
ATOM 9136 CG LYS C 179	-46.058	32.921	31.660	1.00	62.99	C0	
ANISOU 9136 CG LYS C 179	9000	6050	8880	540	860	-400	C0
ATOM 9137 CD LYS C 179	-45.604	33.667	32.897	1.00	64.69	C0	
ANISOU 9137 CD LYS C 179	9350	6120	9110	510	890	-550	C0
ATOM 9138 CE LYS C 179	-44.823	34.921	32.562	1.00	66.76	C0	
ANISOU 9138 CE LYS C 179	9860	6110	9410	400	850	-510	C0
ATOM 9139 NZ LYS C 179	-44.508	35.715	33.774	1.00	68.39	N0	
ANISOU 9139 NZ LYS C 179	10200	6150	9630	380	870	-670	N0
ATOM 9140 H LYS C 179	-47.390	29.151	30.941	1.00	56.04	H0	
ANISOU 9140 H LYS C 179	7540	5900	7850	590	890	-310	H0
ATOM 9141 HA LYS C 179	-48.487	31.665	30.515	1.00	60.31	H0	
ANISOU 9141 HA LYS C 179	8350	6020	8540	880	820	-270	H0
ATOM 9142 HB2 LYS C 179	-47.673	32.040	32.574	1.00	61.31	H0	
ANISOU 9142 HB2 LYS C 179	8550	6070	8670	790	910	-520	H0
ATOM 9143 HB3 LYS C 179	-46.462	31.041	32.381	1.00	59.24	H0	
ANISOU 9143 HB3 LYS C 179	8230	5950	8320	540	920	-480	H0
ATOM 9144 HG2 LYS C 179	-45.265	32.590	31.185	1.00	62.05	H0	
ANISOU 9144 HG2 LYS C 179	8880	5980	8720	380	850	-330	H0
ATOM 9145 HG3 LYS C 179	-46.521	33.549	31.064	1.00	64.08	H0	
ANISOU 9145 HG3 LYS C 179	9220	6070	9060	640	810	-330	H0
ATOM 9146 HD2 LYS C 179	-46.390	33.913	33.430	1.00	65.35	H0	
ANISOU 9146 HD2 LYS C 179	9420	6180	9230	670	910	-630	H0
ATOM 9147 HD3 LYS C 179	-45.041	33.076	33.441	1.00	63.45	H0	
ANISOU 9147 HD3 LYS C 179	9120	6080	8910	390	930	-610	H0
ATOM 9148 HE2 LYS C 179	-43.989	34.677	32.119	1.00	66.07	H0	
ANISOU 9148 HE2 LYS C 179	9770	6060	9280	220	840	-440	H0
ATOM 9149 HE3 LYS C 179	-45.341	35.474	31.947	1.00	67.93	H0	
ANISOU 9149 HE3 LYS C 179	10080	6130	9600	500	800	-440	H0
ATOM 9150 HZ1 LYS C 179	-45.276	35.968	34.184	1.00	69.04	H0	
ANISOU 9150 HZ1 LYS C 179	10280	6200	9750	550	880	-740	H0

ATOM 9151 HZ2 LYS C 179	-44.036	36.455	33.544	1.00	69.40		H0
ANISOU 9151 HZ2 LYS C 179	10480	6110	9780	300	840	-640	H0
ATOM 9152 HZ3 LYS C 179	-44.015	35.216	34.349	1.00	67.27		H0
ANISOU 9152 HZ3 LYS C 179	9990	6120	9450	280	910	-730	H0
ATOM 9153 N LYS C 180	-46.967	32.111	28.586	1.00	59.58		N0
ANISOU 9153 N LYS C 180	8440	5780	8410	610	740	-30	N0
ATOM 9154 CA LYS C 180	-46.134	32.355	27.378	1.00	59.17		C0
ANISOU 9154 CA LYS C 180	8490	5670	8320	440	690	120	C0
ATOM 9155 C LYS C 180	-44.969	33.284	27.748	1.00	59.35		C0
ANISOU 9155 C LYS C 180	8700	5500	8350	270	700	90	C0
ATOM 9156 O LYS C 180	-45.206	34.292	28.446	1.00	60.80		O0
ANISOU 9156 O LYS C 180	9030	5470	8600	350	690	10	O0
ATOM 9157 CB LYS C 180	-46.987	32.979	26.267	1.00	61.08		C0
ANISOU 9157 CB LYS C 180	8800	5810	8600	580	610	260	C0
ATOM 9158 CG LYS C 180	-46.294	33.144	24.921	1.00	61.58		C0
ANISOU 9158 CG LYS C 180	8950	5840	8600	420	560	430	C0
ATOM 9159 CD LYS C 180	-46.643	34.439	24.217	1.00	64.05		C0
ANISOU 9159 CD LYS C 180	9480	5890	8960	490	470	550	C0
ATOM 9160 CE LYS C 180	-46.073	34.525	22.817	1.00	64.25		C0
ANISOU 9160 CE LYS C 180	9580	5920	8910	320	420	740	C0
ATOM 9161 NZ LYS C 180	-46.748	33.583	21.892	1.00	63.11		N0
ANISOU 9161 NZ LYS C 180	9270	6000	8720	390	390	830	N0
ATOM 9162 H LYS C 180	-47.660	32.698	28.662	1.00	60.70		H0
ANISOU 9162 H LYS C 180	8630	5830	8610	760	710	-40	H0
ATOM 9163 HA LYS C 180	-45.774	31.495	27.063	1.00	57.80		H0
ANISOU 9163 HA LYS C 180	8210	5660	8090	350	710	150	H0
ATOM 9164 HB2 LYS C 180	-47.782	32.420	26.139	1.00	60.52		H0
ANISOU 9164 HB2 LYS C 180	8600	5870	8530	700	600	270	H0
ATOM 9165 HB3 LYS C 180	-47.291	33.860	26.570	1.00	62.56		H0
ANISOU 9165 HB3 LYS C 180	9110	5810	8840	680	580	240	H0
ATOM 9166 HG2 LYS C 180	-45.324	33.106	25.055	1.00	61.10		H0
ANISOU 9166 HG2 LYS C 180	8930	5780	8510	240	590	420	H0
ATOM 9167 HG3 LYS C 180	-46.545	32.392	24.345	1.00	60.58		H0
ANISOU 9167 HG3 LYS C 180	8710	5870	8430	420	550	490	H0
ATOM 9168 HD2 LYS C 180	-47.619	34.524	24.169	1.00	64.58		H0
ANISOU 9168 HD2 LYS C 180	9520	5950	9070	680	430	560	H0
ATOM 9169 HD3 LYS C 180	-46.300	35.191	24.745	1.00	65.04		H0
ANISOU 9169 HD3 LYS C 180	9750	5840	9120	470	470	500	H0
ATOM 9170 HE2 LYS C 180	-46.179	35.434	22.477	1.00	66.01		H0
ANISOU 9170 HE2 LYS C 180	9980	5950	9160	350	360	810	H0
ATOM 9171 HE3 LYS C 180	-45.120	34.319	22.840	1.00	63.60		H0
ANISOU 9171 HE3 LYS C 180	9500	5890	8780	130	460	730	H0
ATOM 9172 HZ1 LYS C 180	-46.363	32.764	21.953	1.00	61.64		H0
ANISOU 9172 HZ1 LYS C 180	8960	5980	8480	300	440	790	H0
ATOM 9173 HZ2 LYS C 180	-46.676	33.884	21.040	1.00	63.94		H0
ANISOU 9173 HZ2 LYS C 180	9450	6060	8790	350	350	950	H0
ATOM 9174 HZ3 LYS C 180	-47.627	33.515	22.106	1.00	63.30		H0
ANISOU 9174 HZ3 LYS C 180	9230	6040	8780	570	380	800	H0
ATOM 9175 N ASN C 181	-43.759	32.940	27.300	1.00	57.73		N0
ANISOU 9175 N ASN C 181	8490	5370	8070	30	720	140	N0
ATOM 9176 CA ASN C 181	-42.539	33.782	27.394	1.00	58.05		C0
ANISOU 9176 CA ASN C 181	8700	5260	8090	-190	720	140	C0
ATOM 9177 C ASN C 181	-42.010	34.030	25.979	1.00	58.60		C0
ANISOU 9177 C ASN C 181	8840	5320	8110	-340	670	310	C0

ATOM 9178 O ASN C 181	-42.055	33.100	25.157	1.00	56.75	O0	
ANISOU 9178 O ASN C 181	8460	5290	7810	-350	680	390	O0
ATOM 9179 CB ASN C 181	-41.465	33.140	28.272	1.00	56.61	C0	
ANISOU 9179 CB ASN C 181	8420	5220	7860	-360	780	20	C0
ATOM 9180 CG ASN C 181	-41.862	33.065	29.732	1.00	56.37	C0	
ANISOU 9180 CG ASN C 181	8360	5180	7880	-240	820	-150	C0
ATOM 9181 OD1 ASN C 181	-42.099	34.091	30.369	1.00	58.35	O0	
ANISOU 9181 OD1 ASN C 181	8770	5220	8180	-180	810	-220	O0
ATOM 9182 ND2 ASN C 181	-41.928	31.860	30.272	1.00	54.06	N0	
ANISOU 9182 ND2 ASN C 181	7880	5120	7550	-220	860	-230	N0
ATOM 9183 H ASN C 181	-43.605	32.137	26.897	1.00	56.55	H0	
ANISOU 9183 H ASN C 181	8230	5390	7870	-20	730	170	H0
ATOM 9184 HA ASN C 181	-42.784	34.647	27.798	1.00	59.56	H0	
ANISOU 9184 HA ASN C 181	9030	5260	8340	-130	700	110	H0
ATOM 9185 HB2 ASN C 181	-41.285	32.237	27.941	1.00	55.30	H0	
ANISOU 9185 HB2 ASN C 181	8120	5240	7650	-390	800	40	H0
ATOM 9186 HB3 ASN C 181	-40.639	33.660	28.193	1.00	57.41	H0	
ANISOU 9186 HB3 ASN C 181	8620	5250	7940	-510	780	30	H0
ATOM 9187 HD21 ASN C 181	-41.824	31.765	31.154	1.00	53.96	H0	
ANISOU 9187 HD21 ASN C 181	7850	5120	7540	-220	890	-330	H0
ATOM 9188 HD22 ASN C 181	-42.079	31.148	29.753	1.00	53.23	H0	
ANISOU 9188 HD22 ASN C 181	7670	5150	7410	-200	860	-180	H0
ATOM 9189 N SER C 182	-41.557	35.254	25.717	1.00	60.96	N0	
ANISOU 9189 N SER C 182	9370	5370	8420	-450	630	380	N0
ATOM 9190 CA SER C 182	-40.841	35.665	24.486	1.00	62.55	C0	
ANISOU 9190 CA SER C 182	9680	5540	8540	-660	600	540	C0
ATOM 9191 C SER C 182	-39.496	36.253	24.916	1.00	63.88	C0	
ANISOU 9191 C SER C 182	9960	5640	8670	-930	630	500	C0
ATOM 9192 O SER C 182	-39.503	37.343	25.508	1.00	66.29	O0	
ANISOU 9192 O SER C 182	10470	5680	9040	-930	600	460	O0
ATOM 9193 CB SER C 182	-41.659	36.641	23.681	1.00	64.70	C0	
ANISOU 9193 CB SER C 182	10150	5580	8860	-540	500	680	C0
ATOM 9194 OG SER C 182	-41.158	36.750	22.356	1.00	65.82	O0	
ANISOU 9194 OG SER C 182	10340	5760	8910	-720	470	860	O0
ATOM 9195 H SER C 182	-41.662	35.950	26.296	1.00	62.09	H0	
ANISOU 9195 H SER C 182	9630	5350	8610	-410	620	320	H0
ATOM 9196 HA SER C 182	-40.672	34.855	23.933	1.00	61.33	H0	
ANISOU 9196 HA SER C 182	9380	5590	8330	-700	620	580	H0
ATOM 9197 HB2 SER C 182	-42.594	36.336	23.653	1.00	64.37	H0	
ANISOU 9197 HB2 SER C 182	10030	5570	8860	-340	490	680	H0
ATOM 9198 HB3 SER C 182	-41.638	37.524	24.114	1.00	66.27	H0	
ANISOU 9198 HB3 SER C 182	10510	5560	9100	-540	480	660	H0
ATOM 9199 N VAL C 183	-38.403	35.525	24.671	1.00	63.20	N0	
ANISOU 9199 N VAL C 183	9730	5790	8490	-1140	680	490	N0
ATOM 9200 CA VAL C 183	-37.034	35.852	25.167	1.00	63.82	C0	
ANISOU 9200 CA VAL C 183	9840	5890	8520	-1420	720	430	C0
ATOM 9201 C VAL C 183	-36.078	35.923	23.970	1.00	64.66	C0	
ANISOU 9201 C VAL C 183	9950	6110	8510	-1680	720	560	C0
ATOM 9202 O VAL C 183	-36.117	35.014	23.117	1.00	62.90	O0	
ANISOU 9202 O VAL C 183	9560	6110	8220	-1660	740	620	O0
ATOM 9203 CB VAL C 183	-36.556	34.823	26.212	1.00	62.12	C0	
ANISOU 9203 CB VAL C 183	9410	5900	8290	-1410	790	260	C0
ATOM 9204 CG1 VAL C 183	-35.193	35.185	26.784	1.00	62.75	C0	
ANISOU 9204 CG1 VAL C 183	9520	6010	8320	-1680	820	180	C0

ATOM 9205 CG2 VAL C 183	-37.572	34.636	27.334	1.00	61.42		C0
ANISOU 9205 CG2 VAL C 183	9300	5740	8300	-1160	790	130	C0
ATOM 9206 H VAL C 183	-38.428	34.763	24.172	1.00	61.99		H0
ANISOU 9206 H VAL C 183	9440	5820	8300	-1130	700	520	H0
ATOM 9207 HA VAL C 183	-37.062	36.729	25.590	1.00	65.27		H0
ANISOU 9207 HA VAL C 183	10190	5860	8740	-1430	690	410	H0
ATOM 9208 HB VAL C 183	-36.464	33.955	25.747	1.00	60.81		H0
ANISOU 9208 HB VAL C 183	9090	5940	8080	-1400	800	280	H0
ATOM 9209 HG11 VAL C 183	-34.506	35.030	26.112	1.00	62.93		H0
ANISOU 9209 HG11 VAL C 183	9490	6150	8270	-1830	830	240	H0
ATOM 9210 HG12 VAL C 183	-35.010	34.633	27.564	1.00	61.69		H0
ANISOU 9210 HG12 VAL C 183	9270	5980	8190	-1640	850	70	H0
ATOM 9211 HG13 VAL C 183	-35.188	36.122	27.043	1.00	64.29		H0
ANISOU 9211 HG13 VAL C 183	9890	5990	8550	-1730	790	190	H0
ATOM 9212 HG21 VAL C 183	-37.791	35.501	27.722	1.00	62.72		H0
ANISOU 9212 HG21 VAL C 183	9620	5700	8510	-1130	770	110	H0
ATOM 9213 HG22 VAL C 183	-37.195	34.060	28.022	1.00	60.33		H0
ANISOU 9213 HG22 VAL C 183	9050	5730	8150	-1180	830	30	H0
ATOM 9214 HG23 VAL C 183	-38.379	34.227	26.978	1.00	60.75		H0
ANISOU 9214 HG23 VAL C 183	9150	5700	8230	-1000	780	170	H0
ATOM 9215 N THR C 184	-35.269	36.983	23.913	1.00	67.00		N0
ANISOU 9215 N THR C 184	10440	6250	8770	-1920	710	610	N0
ATOM 9216 CA THR C 184	-34.089	37.113	23.021	1.00	68.47		C0
ANISOU 9216 CA THR C 184	10620	6570	8830	-2240	730	700	C0
ATOM 9217 C THR C 184	-32.858	36.662	23.811	1.00	68.42		C0
ANISOU 9217 C THR C 184	10450	6780	8770	-2430	790	560	C0
ATOM 9218 O THR C 184	-32.584	37.265	24.867	1.00	69.82		O0
ANISOU 9218 O THR C 184	10730	6800	8990	-2480	790	460	O0
ATOM 9219 CB THR C 184	-33.962	38.544	22.482	1.00	71.50		C0
ANISOU 9219 CB THR C 184	11310	6660	9190	-2420	660	850	C0
ATOM 9220 OG1 THR C 184	-35.045	38.751	21.575	1.00	71.91		O0
ANISOU 9220 OG1 THR C 184	11470	6580	9270	-2240	590	990	O0
ATOM 9221 CG2 THR C 184	-32.648	38.811	21.780	1.00	72.97		C0
ANISOU 9221 CG2 THR C 184	11500	6990	9240	-2800	690	930	C0
ATOM 9222 H THR C 184	-35.387	37.720	24.436	1.00	68.15		H0
ANISOU 9222 H THR C 184	10740	6190	8970	-1920	680	580	H0
ATOM 9223 HA THR C 184	-34.215	36.504	22.258	1.00	67.75		H0
ANISOU 9223 HA THR C 184	10410	6640	8690	-2210	740	760	H0
ATOM 9224 HB THR C 184	-34.053	39.171	23.239	1.00	72.29		H0
ANISOU 9224 HB THR C 184	11550	6560	9360	-2400	640	780	H0
ATOM 9225 HG21 THR C 184	-31.952	38.975	22.441	1.00	73.22		H0
ANISOU 9225 HG21 THR C 184	11520	7040	9260	-2930	720	840	H0
ATOM 9226 HG22 THR C 184	-32.739	39.592	21.206	1.00	74.73		H0
ANISOU 9226 HG22 THR C 184	11920	7040	9440	-2890	640	1050	H0
ATOM 9227 HG23 THR C 184	-32.406	38.038	21.238	1.00	71.89		H0
ANISOU 9227 HG23 THR C 184	11190	7100	9030	-2820	730	940	H0
ATOM 9228 N TYR C 185	-32.179	35.613	23.335	1.00	67.67		N0
ANISOU 9228 N TYR C 185	10110	7020	8580	-2500	850	540	N0
ATOM 9229 CA TYR C 185	-30.911	35.077	23.896	1.00	66.86		C0
ANISOU 9229 CA TYR C 185	9810	7180	8410	-2670	910	420	C0
ATOM 9230 C TYR C 185	-29.736	35.614	23.066	1.00	68.89		C0
ANISOU 9230 C TYR C 185	10100	7540	8540	-3020	930	500	C0
ATOM 9231 O TYR C 185	-29.978	36.140	21.962	1.00	69.72		O0
ANISOU 9231 O TYR C 185	10330	7560	8590	-3100	900	670	O0

ATOM 9232 CB TYR C 185	-30.949	33.549	23.908	1.00	64.19	C0	
ANISOU 9232 CB TYR C 185	9190	7140	8060	-2510	950	330	C0
ATOM 9233 CG TYR C 185	-32.135	32.940	24.611	1.00	62.31	C0	
ANISOU 9233 CG TYR C 185	8920	6830	7930	-2190	930	260	C0
ATOM 9234 CD1 TYR C 185	-32.098	32.664	25.969	1.00	61.49	C0	
ANISOU 9234 CD1 TYR C 185	8760	6710	7880	-2110	940	110	C0
ATOM 9235 CD2 TYR C 185	-33.289	32.609	23.917	1.00	61.50	C0	
ANISOU 9235 CD2 TYR C 185	8830	6680	7860	-1980	900	350	C0
ATOM 9236 CE1 TYR C 185	-33.175	32.083	26.620	1.00	60.07	C0	
ANISOU 9236 CE1 TYR C 185	8550	6490	7790	-1840	930	40	C0
ATOM 9237 CE2 TYR C 185	-34.376	32.031	24.553	1.00	59.79	C0	
ANISOU 9237 CE2 TYR C 185	8560	6420	7730	-1710	890	280	C0
ATOM 9238 CZ TYR C 185	-34.320	31.764	25.910	1.00	59.22	C0	
ANISOU 9238 CZ TYR C 185	8440	6350	7710	-1650	900	130	C0
ATOM 9239 OH TYR C 185	-35.384	31.194	26.548	1.00	57.49	O0	
ANISOU 9239 OH TYR C 185	8170	6110	7560	-1400	900	70	O0
ATOM 9240 H TYR C 185	-32.457	35.139	22.608	1.00	66.89	H0	
ANISOU 9240 H TYR C 185	9940	7030	8450	-2440	850	600	H0
ATOM 9241 HA TYR C 185	-30.812	35.400	24.827	1.00	67.07	H0	
ANISOU 9241 HA TYR C 185	9890	7100	8490	-2670	900	330	H0
ATOM 9242 HB2 TYR C 185	-30.938	33.234	22.980	1.00	64.19	H0	
ANISOU 9242 HB2 TYR C 185	9140	7250	8000	-2530	960	410	H0
ATOM 9243 HB3 TYR C 185	-30.131	33.226	24.340	1.00	64.04	H0	
ANISOU 9243 HB3 TYR C 185	9050	7280	8000	-2600	980	240	H0
ATOM 9244 HD1 TYR C 185	-31.321	32.872	26.461	1.00	61.99	H0	
ANISOU 9244 HD1 TYR C 185	8820	6810	7920	-2240	950	40	H0
ATOM 9245 HD2 TYR C 185	-33.336	32.782	22.991	1.00	62.13	H0	
ANISOU 9245 HD2 TYR C 185	8940	6770	7890	-2040	890	450	H0
ATOM 9246 HE1 TYR C 185	-33.130	31.906	27.545	1.00	59.46	H0	
ANISOU 9246 HE1 TYR C 185	8440	6410	7740	-1800	940	-60	H0
ATOM 9247 HE2 TYR C 185	-35.153	31.817	24.062	1.00	59.53	H0	
ANISOU 9247 HE2 TYR C 185	8530	6370	7720	-1590	870	340	H0
ATOM 9248 N SER C 186	-28.506	35.486	23.577	1.00	69.45	N0	
ANISOU 9248 N SER C 186	10040	7800	8540	-3230	970	400	N0
ATOM 9249 CA SER C 186	-27.272	36.048	22.963	1.00	71.60	C0	
ANISOU 9249 CA SER C 186	10320	8210	8680	-3600	1000	460	C0
ATOM 9250 C SER C 186	-26.975	35.364	21.621	1.00	71.19	C0	
ANISOU 9250 C SER C 186	10100	8450	8510	-3650	1040	550	C0
ATOM 9251 O SER C 186	-26.492	36.059	20.713	1.00	73.14	O0	
ANISOU 9251 O SER C 186	10440	8700	8650	-3920	1050	680	O0
ATOM 9252 CB SER C 186	-26.091	35.963	23.907	1.00	72.15	C0	
ANISOU 9252 CB SER C 186	10250	8450	8710	-3770	1030	320	C0
ATOM 9253 OG SER C 186	-25.875	34.630	24.348	1.00	70.32	O0	
ANISOU 9253 OG SER C 186	9730	8500	8490	-3590	1070	180	O0
ATOM 9254 H SER C 186	-28.334	35.035	24.351	1.00	68.41	H0	
ANISOU 9254 H SER C 186	9800	7750	8440	-3160	990	290	H0
ATOM 9255 HA SER C 186	-27.444	37.011	22.778	1.00	73.22	H0	
ANISOU 9255 HA SER C 186	10740	8180	8890	-3700	960	550	H0
ATOM 9256 HB2 SER C 186	-25.284	36.290	23.448	1.00	73.64	H0	
ANISOU 9256 HB2 SER C 186	10420	8750	8810	-4020	1060	360	H0
ATOM 9257 HB3 SER C 186	-26.255	36.542	24.685	1.00	72.63	H0	
ANISOU 9257 HB3 SER C 186	10450	8310	8840	-3770	1010	270	H0
ATOM 9258 N CYS C 187	-27.275	34.065	21.499	1.00	69.29	N0	
ANISOU 9258 N CYS C 187	9630	8420	8280	-3420	1070	480	N0

ATOM 9259 CA CYS C 187	-27.016	33.224	20.295	1.00	69.20	C0	
ANISOU 9259 CA CYS C 187	9430	8710	8150	-3430	1110	530	C0
ATOM 9260 C CYS C 187	-27.460	33.935	19.010	1.00	70.60	C0	
ANISOU 9260 C CYS C 187	9790	8770	8260	-3530	1090	730	C0
ATOM 9261 O CYS C 187	-26.749	33.814	17.995	1.00	71.17	O0	
ANISOU 9261 O CYS C 187	9770	9080	8190	-3730	1130	790	O0
ATOM 9262 CB CYS C 187	-27.739	31.880	20.373	1.00	67.55	C0	
ANISOU 9262 CB CYS C 187	9050	8620	8000	-3100	1110	450	C0
ATOM 9263 SG CYS C 187	-29.536	31.968	20.123	1.00	67.05	S0	
ANISOU 9263 SG CYS C 187	9170	8250	8050	-2810	1040	560	S0
ATOM 9264 H CYS C 187	-27.666	33.588	22.168	1.00	67.86	H0	
ANISOU 9264 H CYS C 187	9390	8220	8170	-3230	1060	400	H0
ATOM 9265 HA CYS C 187	-26.047	33.056	20.243	1.00	69.89	H0	
ANISOU 9265 HA CYS C 187	9380	9020	8150	-3590	1150	480	H0
ATOM 9266 HB2 CYS C 187	-27.365	31.282	19.694	1.00	67.32	H0	
ANISOU 9266 HB2 CYS C 187	8880	8810	7880	-3120	1140	450	H0
ATOM 9267 HB3 CYS C 187	-27.568	31.476	21.247	1.00	66.53	H0	
ANISOU 9267 HB3 CYS C 187	8840	8520	7920	-3020	1110	330	H0
ATOM 9268 N CYS C 188	-28.603	34.627	19.051	1.00	70.80	N0	
ANISOU 9268 N CYS C 188	10060	8450	8390	-3400	1010	830	N0
ATOM 9269 CA CYS C 188	-29.466	34.892	17.871	1.00	71.46	C0	
ANISOU 9269 CA CYS C 188	10290	8420	8450	-3340	970	1010	C0
ATOM 9270 C CYS C 188	-30.170	36.242	18.010	1.00	72.58	C0	
ANISOU 9270 C CYS C 188	10770	8140	8670	-3350	890	1130	C0
ATOM 9271 O CYS C 188	-30.563	36.623	19.110	1.00	72.23	O0	
ANISOU 9271 O CYS C 188	10820	7870	8750	-3230	850	1050	O0
ATOM 9272 CB CYS C 188	-30.479	33.760	17.749	1.00	69.87	C0	
ANISOU 9272 CB CYS C 188	9950	8290	8310	-3010	960	970	C0
ATOM 9273 SG CYS C 188	-29.767	32.123	18.084	1.00	69.01	S0	
ANISOU 9273 SG CYS C 188	9470	8590	8160	-2920	1040	780	S0
ATOM 9274 H CYS C 188	-28.947	34.981	19.816	1.00	70.66	H0	
ANISOU 9274 H CYS C 188	10140	8240	8460	-3320	990	790	H0
ATOM 9275 HA CYS C 188	-28.900	34.902	17.066	1.00	72.46	H0	
ANISOU 9275 HA CYS C 188	10370	8710	8450	-3520	1000	1080	H0
ATOM 9276 HB2 CYS C 188	-31.213	33.915	18.378	1.00	69.38	H0	
ANISOU 9276 HB2 CYS C 188	9970	8040	8360	-2830	920	950	H0
ATOM 9277 HB3 CYS C 188	-30.852	33.759	16.844	1.00	70.38	H0	
ANISOU 9277 HB3 CYS C 188	10050	8370	8320	-3000	940	1080	H0
ATOM 9278 N PRO C 189	-30.370	37.002	16.907	1.00	73.90	N0	
ANISOU 9278 N PRO C 189	11130	8190	8760	-3480	840	1330	N0
ATOM 9279 CA PRO C 189	-31.002	38.321	16.984	1.00	75.46	C0	
ANISOU 9279 CA PRO C 189	11670	7970	9030	-3490	740	1450	C0
ATOM 9280 C PRO C 189	-32.528	38.281	17.177	1.00	73.97	C0	
ANISOU 9280 C PRO C 189	11570	7550	8990	-3110	670	1470	C0
ATOM 9281 O PRO C 189	-33.072	39.281	17.610	1.00	75.38	O0	
ANISOU 9281 O PRO C 189	12010	7370	9260	-3050	590	1510	O0
ATOM 9282 CB PRO C 189	-30.661	38.951	15.625	1.00	77.66	C0	
ANISOU 9282 CB PRO C 189	12090	8260	9150	-3760	720	1660	C0
ATOM 9283 CG PRO C 189	-30.569	37.770	14.685	1.00	76.34	C0	
ANISOU 9283 CG PRO C 189	11660	8470	8880	-3720	780	1670	C0
ATOM 9284 CD PRO C 189	-30.015	36.635	15.526	1.00	74.27	C0	
ANISOU 9284 CD PRO C 189	11080	8490	8640	-3630	870	1450	C0
ATOM 9285 HA PRO C 189	-30.580	38.848	17.708	1.00	76.15	H0	
ANISOU 9285 HA PRO C 189	11840	7950	9150	-3590	740	1390	H0

ATOM 9286 HB2 PRO C 189	-31.363	39.573	15.338	1.00	78.77	H0
ANISOU 9286 HB2 PRO C 189	12440	8150	9330	-3690	640 1780	H0
ATOM 9287 HB3 PRO C 189	-29.807	39.433	15.666	1.00	79.18	H0
ANISOU 9287 HB3 PRO C 189	12340	8480	9270	-4030	740 1670	H0
ATOM 9288 HG2 PRO C 189	-31.452	37.540	14.331	1.00	75.70	H0
ANISOU 9288 HG2 PRO C 189	11600	8320	8840	-3520	740 1720	H0
ATOM 9289 HG3 PRO C 189	-29.971	37.969	13.936	1.00	77.75	H0
ANISOU 9289 HG3 PRO C 189	11850	8770	8920	-3950	800 1760	H0
ATOM 9290 HD2 PRO C 189	-30.421	35.784	15.276	1.00	72.69	H0
ANISOU 9290 HD2 PRO C 189	10740	8430	8450	-3450	890 1410	H0
ATOM 9291 HD3 PRO C 189	-29.048	36.565	15.422	1.00	74.88	H0
ANISOU 9291 HD3 PRO C 189	11060	8760	8620	-3850	930 1410	H0
ATOM 9292 N GLU C 190	-33.175	37.152	16.854	1.00	71.11	N0
ANISOU 9292 N GLU C 190	11000	7380	8640	-2870	680 1440	N0
ATOM 9293 CA GLU C 190	-34.656	36.999	16.888	1.00	69.68	C0
ANISOU 9293 CA GLU C 190	10860	7040	8580	-2520	610 1460	C0
ATOM 9294 C GLU C 190	-35.080	36.413	18.242	1.00	66.61	C0
ANISOU 9294 C GLU C 190	10340	6640	8320	-2280	640 1270	C0
ATOM 9295 O GLU C 190	-34.264	35.722	18.883	1.00	64.49	O0
ANISOU 9295 O GLU C 190	9880	6590	8030	-2360	720 1120	O0
ATOM 9296 CB GLU C 190	-35.160	36.114	15.744	1.00	69.27	C0
ANISOU 9296 CB GLU C 190	10670	7200	8450	-2420	610 1550	C0
ATOM 9297 CG GLU C 190	-34.549	36.427	14.385	1.00	71.72	C0
ANISOU 9297 CG GLU C 190	11040	7620	8590	-2690	610 1720	C0
ATOM 9298 CD GLU C 190	-33.379	35.541	13.977	1.00	71.71	C0
ANISOU 9298 CD GLU C 190	10800	8010	8440	-2900	720 1650	C0
ATOM 9299 OE1 GLU C 190	-32.856	34.803	14.846	1.00	69.99	O0
ANISOU 9299 OE1 GLU C 190	10380	7960	8260	-2860	790 1470	O0
ATOM 9300 OE2 GLU C 190	-32.984	35.593	12.788	1.00	73.43	O0
ANISOU 9300 OE2 GLU C 190	11020	8370	8510	-3090	730 1780	O0
ATOM 9301 H GLU C 190	-32.739	36.395	16.599	1.00	70.18	H0
ANISOU 9301 H GLU C 190	10700	7510	8450	-2910	740 1390	H0
ATOM 9302 HA GLU C 190	-35.061	37.892	16.795	1.00	71.28	H0
ANISOU 9302 HA GLU C 190	11280	6980	8820	-2510	550 1550	H0
ATOM 9303 HB2 GLU C 190	-34.976	35.178	15.969	1.00	67.56	H0
ANISOU 9303 HB2 GLU C 190	10250	7200	8230	-2370	670 1440	H0
ATOM 9304 HB3 GLU C 190	-36.133	36.217	15.680	1.00	69.19	H0
ANISOU 9304 HB3 GLU C 190	10720	7060	8510	-2220	550 1590	H0
ATOM 9305 HG2 GLU C 190	-35.247	36.347	13.701	1.00	71.84	H0
ANISOU 9305 HG2 GLU C 190	11090	7610	8590	-2590	560 1820	H0
ATOM 9306 HG3 GLU C 190	-34.244	37.359	14.384	1.00	73.56	H0
ANISOU 9306 HG3 GLU C 190	11470	7680	8810	-2850	580 1790	H0
ATOM 9307 N ALA C 191	-36.320	36.690	18.651	1.00	65.88	N0
ANISOU 9307 N ALA C 191	10350	6320	8360	-2000	580 1260	N0
ATOM 9308 CA ALA C 191	-36.940	36.184	19.896	1.00	63.79	C0
ANISOU 9308 CA ALA C 191	9980	6040	8220	-1750	600 1090	C0
ATOM 9309 C ALA C 191	-37.432	34.748	19.670	1.00	60.94	C0
ANISOU 9309 C ALA C 191	9350	5960	7840	-1580	630 1040	C0
ATOM 9310 O ALA C 191	-38.018	34.481	18.603	1.00	61.15	O0
ANISOU 9310 O ALA C 191	9360	6050	7830	-1510	600 1160	O0
ATOM 9311 CB ALA C 191	-38.067	37.095	20.319	1.00	64.96	C0
ANISOU 9311 CB ALA C 191	10330	5860	8490	-1530	520 1110	C0
ATOM 9312 H ALA C 191	-36.887	37.222	18.176	1.00	67.08	H0
ANISOU 9312 H ALA C 191	10640	6320	8530	-1940	510 1370	H0

ATOM 9313 HA ALA C 191	-36.256	36.174	20.606	1.00	63.53	H0
ANISOU 9313 HA ALA C 191	9910	6040	8180	-1850	640 990	H0
ATOM 9314 HB1 ALA C 191	-38.436	36.786	21.163	1.00	63.94	H0
ANISOU 9314 HB1 ALA C 191	10130	5730	8430	-1380	540 990	H0
ATOM 9315 HB2 ALA C 191	-37.730	38.000	20.426	1.00	66.66	H0
ANISOU 9315 HB2 ALA C 191	10730	5890	8710	-1650	490 1140	H0
ATOM 9316 HB3 ALA C 191	-38.763	37.088	19.640	1.00	65.24	H0
ANISOU 9316 HB3 ALA C 191	10390	5870	8530	-1420	470 1210	H0
ATOM 9317 N TYR C 192	-37.177	33.863	20.635	1.00	58.40	N0
ANISOU 9317 N TYR C 192	8840	5800	7550	-1520	700 870	N0
ATOM 9318 CA TYR C 192	-37.716	32.480	20.696	1.00	56.06	C0
ANISOU 9318 CA TYR C 192	8310	5730	7260	-1340	720 800	C0
ATOM 9319 C TYR C 192	-38.821	32.439	21.755	1.00	55.70	C0
ANISOU 9319 C TYR C 192	8270	5560	7340	-1080	700 700	C0
ATOM 9320 O TYR C 192	-38.632	33.025	22.845	1.00	56.34	O0
ANISOU 9320 O TYR C 192	8430	5500	7480	-1080	720 610	O0
ATOM 9321 CB TYR C 192	-36.596	31.478	20.987	1.00	54.35	C0
ANISOU 9321 CB TYR C 192	7890	5790	6970	-1460	790 680	C0
ATOM 9322 CG TYR C 192	-35.757	31.123	19.785	1.00	54.34	C0
ANISOU 9322 CG TYR C 192	7810	6000	6830	-1650	820 760	C0
ATOM 9323 CD1 TYR C 192	-34.863	32.031	19.242	1.00	56.07	C0
ANISOU 9323 CD1 TYR C 192	8150	6180	6970	-1910	830 850	C0
ATOM 9324 CD2 TYR C 192	-35.857	29.878	19.185	1.00	52.79	C0
ANISOU 9324 CD2 TYR C 192	7430	6050	6570	-1580	840 740	C0
ATOM 9325 CE1 TYR C 192	-34.089	31.711	18.137	1.00	56.58	C0
ANISOU 9325 CE1 TYR C 192	8130	6470	6900	-2090	860 910	C0
ATOM 9326 CE2 TYR C 192	-35.091	29.543	18.079	1.00	53.15	C0
ANISOU 9326 CE2 TYR C 192	7400	6310	6490	-1740	870 800	C0
ATOM 9327 CZ TYR C 192	-34.205	30.464	17.551	1.00	55.04	C0
ANISOU 9327 CZ TYR C 192	7740	6530	6640	-1990	880 880	C0
ATOM 9328 OH TYR C 192	-33.448	30.139	16.463	1.00	56.05	O0
ANISOU 9328 OH TYR C 192	7780	6890	6630	-2160	920 930	O0
ATOM 9329 H TYR C 192	-36.642	34.053	21.347	1.00	58.62	H0
ANISOU 9329 H TYR C 192	8880	5810	7590	-1590	720 790	H0
ATOM 9330 HA TYR C 192	-38.116	32.257	19.818	1.00	56.10	H0
ANISOU 9330 HA TYR C 192	8300	5790	7220	-1300	700 890	H0
ATOM 9331 HB2 TYR C 192	-36.013	31.855	21.680	1.00	54.73	H0
ANISOU 9331 HB2 TYR C 192	7980	5790	7030	-1550	810 620	H0
ATOM 9332 HB3 TYR C 192	-36.997	30.659	21.347	1.00	52.90	H0
ANISOU 9332 HB3 TYR C 192	7590	5700	6810	-1330	800 610	H0
ATOM 9333 HD1 TYR C 192	-34.777	32.884	19.633	1.00	57.25	H0
ANISOU 9333 HD1 TYR C 192	8440	6150	7160	-1970	810 860	H0
ATOM 9334 HD2 TYR C 192	-36.460	29.244	19.536	1.00	51.56	H0
ANISOU 9334 HD2 TYR C 192	7200	5930	6460	-1420	830 690	H0
ATOM 9335 HE1 TYR C 192	-33.486	32.344	17.783	1.00	58.02	H0
ANISOU 9335 HE1 TYR C 192	8390	6630	7020	-2280	870 970	H0
ATOM 9336 HE2 TYR C 192	-35.176	28.690	17.685	1.00	52.25	H0
ANISOU 9336 HE2 TYR C 192	7170	6350	6330	-1680	880 780	H0
ATOM 9337 N GLU C 193	-39.944	31.788	21.437	1.00	54.82	N0
ANISOU 9337 N GLU C 193	8060	5520	7250	-870	680 730	N0
ATOM 9338 CA GLU C 193	-41.125	31.694	22.335	1.00	54.58	C0
ANISOU 9338 CA GLU C 193	8010	5410	7330	-620	660 650	C0
ATOM 9339 C GLU C 193	-41.111	30.337	23.042	1.00	52.35	C0
ANISOU 9339 C GLU C 193	7510	5350	7030	-560	720 520	C0

ATOM 9340 O GLU C 193	-40.611	29.358	22.451	1.00	51.63	O0	
ANISOU 9340 O GLU C 193	7280	5470	6860	-640	740	530	O0
ATOM 9341 CB GLU C 193	-42.420	31.929	21.555	1.00	55.38	C0	
ANISOU 9341 CB GLU C 193	8150	5440	7460	-430	590	770	C0
ATOM 9342 CG GLU C 193	-42.593	33.369	21.105	1.00	58.30	C0	
ANISOU 9342 CG GLU C 193	8760	5530	7860	-440	520	880	C0
ATOM 9343 CD GLU C 193	-43.892	33.674	20.377	1.00	59.66	C0	
ANISOU 9343 CD GLU C 193	8980	5620	8070	-230	430	1000	C0
ATOM 9344 OE1 GLU C 193	-44.768	32.787	20.355	1.00	58.07	O0	
ANISOU 9344 OE1 GLU C 193	8600	5580	7880	-60	430	970	O0
ATOM 9345 OE2 GLU C 193	-44.029	34.804	19.841	1.00	62.00	O0	
ANISOU 9345 OE2 GLU C 193	9490	5680	8380	-230	360	1120	O0
ATOM 9346 H GLU C 193	-40.052	31.356	20.642	1.00	54.58	H0	
ANISOU 9346 H GLU C 193	7970	5600	7170	-870	670	800	H0
ATOM 9347 HA GLU C 193	-41.044	32.398	23.016	1.00	55.35	H0	
ANISOU 9347 HA GLU C 193	8210	5350	7470	-620	660	600	H0
ATOM 9348 HB2 GLU C 193	-42.427	31.343	20.769	1.00	54.92	H0	
ANISOU 9348 HB2 GLU C 193	8010	5520	7340	-460	580	830	H0
ATOM 9349 HB3 GLU C 193	-43.177	31.681	22.125	1.00	54.97	H0	
ANISOU 9349 HB3 GLU C 193	8040	5390	7460	-270	590	700	H0
ATOM 9350 HG2 GLU C 193	-42.538	33.953	21.891	1.00	58.91	H0	
ANISOU 9350 HG2 GLU C 193	8930	5460	8000	-410	530	810	H0
ATOM 9351 HG3 GLU C 193	-41.847	33.605	20.513	1.00	58.85	H0	
ANISOU 9351 HG3 GLU C 193	8900	5600	7870	-610	520	960	H0
ATOM 9352 N ASP C 194	-41.617	30.301	24.275	1.00	52.13	N0	
ANISOU 9352 N ASP C 194	7460	5270	7080	-430	730	390	N0
ATOM 9353 CA ASP C 194	-41.773	29.063	25.078	1.00	50.35	C0	
ANISOU 9353 CA ASP C 194	7050	5230	6840	-360	770	270	C0
ATOM 9354 C ASP C 194	-43.032	29.177	25.941	1.00	50.23	C0	
ANISOU 9354 C ASP C 194	7030	5150	6910	-150	770	200	C0
ATOM 9355 O ASP C 194	-43.417	30.304	26.298	1.00	50.95	O0	
ANISOU 9355 O ASP C 194	7260	5030	7070	-80	750	200	O0
ATOM 9356 CB ASP C 194	-40.521	28.781	25.916	1.00	50.50	C0	
ANISOU 9356 CB ASP C 194	7040	5320	6830	-520	820	160	C0
ATOM 9357 CG ASP C 194	-40.305	29.718	27.095	1.00	52.04	C0	
ANISOU 9357 CG ASP C 194	7350	5340	7080	-540	840	60	C0
ATOM 9358 OD1 ASP C 194	-41.056	29.606	28.086	1.00	52.40	O0	
ANISOU 9358 OD1 ASP C 194	7370	5360	7180	-390	850	-30	O0
ATOM 9359 OD2 ASP C 194	-39.376	30.544	27.021	1.00	54.28	O0	
ANISOU 9359 OD2 ASP C 194	7750	5520	7350	-700	840	80	O0
ATOM 9360 H ASP C 194	-41.899	31.053	24.707	1.00	53.08	H0	
ANISOU 9360 H ASP C 194	7680	5230	7250	-380	720	370	H0
ATOM 9361 HA ASP C 194	-41.894	28.311	24.454	1.00	49.64	H0	
ANISOU 9361 HA ASP C 194	6870	5280	6710	-360	760	310	H0
ATOM 9362 HB2 ASP C 194	-40.575	27.867	26.261	1.00	49.21	H0	
ANISOU 9362 HB2 ASP C 194	6760	5290	6650	-490	840	100	H0
ATOM 9363 HB3 ASP C 194	-39.736	28.839	25.334	1.00	50.70	H0	
ANISOU 9363 HB3 ASP C 194	7070	5390	6810	-660	820	200	H0
ATOM 9364 N VAL C 195	-43.646	28.036	26.255	1.00	49.02	N0	
ANISOU 9364 N VAL C 195	6720	5170	6740	-60	780	150	N0
ATOM 9365 CA VAL C 195	-44.726	27.918	27.274	1.00	48.98	C0	
ANISOU 9365 CA VAL C 195	6660	5160	6790	110	800	60	C0
ATOM 9366 C VAL C 195	-44.090	27.320	28.531	1.00	47.80	C0	
ANISOU 9366 C VAL C 195	6450	5090	6620	40	850	-80	C0

ATOM 9367 O VAL C 195	-43.466	26.250	28.410	1.00	45.13	O0	
ANISOU 9367 O VAL C 195	6020	4920	6220	-50	850	-90	O0
ATOM 9368 CB VAL C 195	-45.905	27.074	26.752	1.00	48.89	C0	
ANISOU 9368 CB VAL C 195	6510	5300	6760	240	770	110	C0
ATOM 9369 CG1 VAL C 195	-46.910	26.744	27.848	1.00	48.73	C0	
ANISOU 9369 CG1 VAL C 195	6400	5340	6770	380	800	10	C0
ATOM 9370 CG2 VAL C 195	-46.598	27.761	25.584	1.00	50.41	C0	
ANISOU 9370 CG2 VAL C 195	6760	5410	6980	330	710	250	C0
ATOM 9371 H VAL C 195	-43.438	27.244	25.857	1.00	48.05	H0	
ANISOU 9371 H VAL C 195	6510	5180	6570	-100	780	170	H0
ATOM 9372 HA VAL C 195	-45.053	28.810	27.484	1.00	50.26	H0	
ANISOU 9372 HA VAL C 195	6910	5180	7010	180	790	60	H0
ATOM 9373 HB VAL C 195	-45.532	26.220	26.420	1.00	47.76	H0	
ANISOU 9373 HB VAL C 195	6300	5280	6570	170	770	130	H0
ATOM 9374 HG11 VAL C 195	-46.562	26.024	28.403	1.00	47.69	H0	
ANISOU 9374 HG11 VAL C 195	6210	5300	6610	320	820	-60	H0
ATOM 9375 HG12 VAL C 195	-47.750	26.464	27.446	1.00	48.78	H0	
ANISOU 9375 HG12 VAL C 195	6340	5410	6780	470	770	50	H0
ATOM 9376 HG13 VAL C 195	-47.061	27.532	28.398	1.00	49.69	H0	
ANISOU 9376 HG13 VAL C 195	6590	5340	6940	440	810	-40	H0
ATOM 9377 HG21 VAL C 195	-46.948	28.622	25.874	1.00	51.53	H0	
ANISOU 9377 HG21 VAL C 195	6990	5410	7180	420	700	240	H0
ATOM 9378 HG22 VAL C 195	-47.331	27.205	25.267	1.00	49.98	H0	
ANISOU 9378 HG22 VAL C 195	6620	5460	6910	410	690	280	H0
ATOM 9379 HG23 VAL C 195	-45.960	27.898	24.862	1.00	50.46	H0	
ANISOU 9379 HG23 VAL C 195	6820	5390	6960	230	690	320	H0
ATOM 9380 N GLU C 196	-44.182	28.032	29.661	1.00	49.00	N0	
ANISOU 9380 N GLU C 196	6670	5130	6820	80	870	-180	N0
ATOM 9381 CA GLU C 196	-43.785	27.537	31.005	1.00	48.69	C0	
ANISOU 9381 CA GLU C 196	6590	5160	6760	40	920	-320	C0
ATOM 9382 C GLU C 196	-45.031	26.998	31.706	1.00	47.77	C0	
ANISOU 9382 C GLU C 196	6370	5140	6650	190	940	-380	C0
ATOM 9383 O GLU C 196	-45.969	27.785	31.941	1.00	48.27	O0	
ANISOU 9383 O GLU C 196	6470	5100	6770	340	940	-410	O0
ATOM 9384 CB GLU C 196	-43.149	28.631	31.864	1.00	51.10	C0	
ANISOU 9384 CB GLU C 196	7030	5290	7090	-20	940	-410	C0
ATOM 9385 CG GLU C 196	-42.802	28.155	33.268	1.00	51.46	C0	
ANISOU 9385 CG GLU C 196	7030	5410	7110	-70	980	-550	C0
ATOM 9386 CD GLU C 196	-41.960	29.121	34.084	1.00	53.86	C0	
ANISOU 9386 CD GLU C 196	7470	5570	7430	-170	1000	-640	C0
ATOM 9387 OE1 GLU C 196	-42.390	30.278	34.261	1.00	56.68	O0	
ANISOU 9387 OE1 GLU C 196	7960	5730	7840	-90	1000	-670	O0
ATOM 9388 OE2 GLU C 196	-40.867	28.715	34.529	1.00	54.72	O0	
ANISOU 9388 OE2 GLU C 196	7550	5760	7480	-320	1000	-690	O0
ATOM 9389 H GLU C 196	-44.501	28.885	29.672	1.00	50.20	H0	
ANISOU 9389 H GLU C 196	6920	5140	7020	140	860	-180	H0
ATOM 9390 HA GLU C 196	-43.138	26.806	30.892	1.00	47.70	H0	
ANISOU 9390 HA GLU C 196	6400	5140	6580	-60	920	-320	H0
ATOM 9391 HB2 GLU C 196	-42.333	28.945	31.421	1.00	51.30	H0	
ANISOU 9391 HB2 GLU C 196	7120	5270	7110	-140	930	-370	H0
ATOM 9392 HB3 GLU C 196	-43.771	29.385	31.925	1.00	52.17	H0	
ANISOU 9392 HB3 GLU C 196	7240	5300	7280	80	930	-410	H0
ATOM 9393 HG2 GLU C 196	-43.633	27.985	33.760	1.00	51.54	H0	
ANISOU 9393 HG2 GLU C 196	7000	5460	7130	40	1000	-600	H0

ATOM 9394 HG3 GLU C 196	-42.320	27.304	33.203	1.00	50.41		H0
ANISOU 9394 HG3 GLU C 196	6820	5410	6930	-140	980	-550	H0
ATOM 9395 N VAL C 197	-45.026	25.699	32.009	1.00	46.28		N0
ANISOU 9395 N VAL C 197	6050	5140	6400	150	940	-410	N0
ATOM 9396 CA VAL C 197	-46.088	25.003	32.786	1.00	45.12		C0
ANISOU 9396 CA VAL C 197	5800	5110	6230	250	970	-470	C0
ATOM 9397 C VAL C 197	-45.596	24.870	34.229	1.00	44.23		C0
ANISOU 9397 C VAL C 197	5700	5020	6090	180	1010	-600	C0
ATOM 9398 O VAL C 197	-44.577	24.196	34.449	1.00	42.56		O0
ANISOU 9398 O VAL C 197	5480	4870	5820	60	1000	-620	O0
ATOM 9399 CB VAL C 197	-46.427	23.638	32.163	1.00	44.32		C0
ANISOU 9399 CB VAL C 197	5570	5200	6070	230	940	-400	C0
ATOM 9400 CG1 VAL C 197	-47.569	22.949	32.895	1.00	43.99		C0
ANISOU 9400 CG1 VAL C 197	5430	5290	6000	300	960	-450	C0
ATOM 9401 CG2 VAL C 197	-46.745	23.774	30.679	1.00	44.91		C0
ANISOU 9401 CG2 VAL C 197	5640	5260	6160	270	890	-270	C0
ATOM 9402 H VAL C 197	-44.353	25.142	31.750	1.00	45.30		H0
ANISOU 9402 H VAL C 197	5900	5080	6230	60	930	-390	H0
ATOM 9403 HA VAL C 197	-46.889	25.555	32.778	1.00	46.14		H0
ANISOU 9403 HA VAL C 197	5930	5200	6400	360	970	-470	H0
ATOM 9404 HB VAL C 197	-45.625	23.065	32.248	1.00	43.43		H0
ANISOU 9404 HB VAL C 197	5460	5130	5920	130	930	-410	H0
ATOM 9405 HG11 VAL C 197	-47.267	22.663	33.775	1.00	43.76		H0
ANISOU 9405 HG11 VAL C 197	5400	5290	5940	250	980	-520	H0
ATOM 9406 HG12 VAL C 197	-47.861	22.172	32.387	1.00	43.44		H0
ANISOU 9406 HG12 VAL C 197	5290	5320	5900	290	930	-400	H0
ATOM 9407 HG13 VAL C 197	-48.312	23.568	32.994	1.00	45.01		H0
ANISOU 9407 HG13 VAL C 197	5550	5380	6170	400	970	-460	H0
ATOM 9408 HG21 VAL C 197	-47.358	24.518	30.545	1.00	45.80		H0
ANISOU 9408 HG21 VAL C 197	5780	5300	6320	360	890	-260	H0
ATOM 9409 HG22 VAL C 197	-47.157	22.955	30.357	1.00	44.17		H0
ANISOU 9409 HG22 VAL C 197	5470	5280	6030	270	870	-240	H0
ATOM 9410 HG23 VAL C 197	-45.924	23.939	30.184	1.00	44.67		H0
ANISOU 9410 HG23 VAL C 197	5660	5180	6130	190	880	-240	H0
ATOM 9411 N SER C 198	-46.296	25.515	35.163	1.00	44.72		N0
ANISOU 9411 N SER C 198	5780	5030	6180	280	1050	-700	N0
ATOM 9412 CA SER C 198	-46.044	25.438	36.623	1.00	44.13		C0
ANISOU 9412 CA SER C 198	5720	4990	6060	240	1090	-830	C0
ATOM 9413 C SER C 198	-46.976	24.384	37.225	1.00	42.94		C0
ANISOU 9413 C SER C 198	5440	5030	5850	270	1110	-860	C0
ATOM 9414 O SER C 198	-48.193	24.637	37.294	1.00	43.52		O0
ANISOU 9414 O SER C 198	5450	5150	5940	410	1140	-880	O0
ATOM 9415 CB SER C 198	-46.210	26.789	37.274	1.00	45.72		C0
ANISOU 9415 CB SER C 198	6030	5020	6320	310	1130	-930	C0
ATOM 9416 OG SER C 198	-45.301	27.729	36.713	1.00	46.35		O0
ANISOU 9416 OG SER C 198	6250	4910	6450	250	1100	-890	O0
ATOM 9417 H SER C 198	-46.997	26.063	34.966	1.00	45.58		H0
ANISOU 9417 H SER C 198	5900	5090	6330	390	1050	-690	H0
ATOM 9418 HA SER C 198	-45.105	25.139	36.759	1.00	43.46		H0
ANISOU 9418 HA SER C 198	5660	4910	5950	120	1080	-840	H0
ATOM 9419 HB2 SER C 198	-47.133	27.104	37.143	1.00	46.52		H0
ANISOU 9419 HB2 SER C 198	6110	5120	6450	440	1140	-930	H0
ATOM 9420 HB3 SER C 198	-46.047	26.709	38.241	1.00	45.81		H0
ANISOU 9420 HB3 SER C 198	6050	5060	6300	280	1160	-1020	H0

ATOM 9421 N LEU C 199	-46.418	23.234	37.604	1.00	41.42		N0
ANISOU 9421 N LEU C 199	5200	4960	5580	150	1090	-860	N0
ATOM 9422 CA LEU C 199	-47.150	22.129	38.278	1.00	40.73		C0
ANISOU 9422 CA LEU C 199	5010	5050	5410	140	1100	-880	C0
ATOM 9423 C LEU C 199	-46.981	22.292	39.792	1.00	40.73		C0
ANISOU 9423 C LEU C 199	5050	5070	5360	90	1150	-1010	C0
ATOM 9424 O LEU C 199	-45.861	22.049	40.287	1.00	40.45		O0
ANISOU 9424 O LEU C 199	5070	5010	5290	-20	1130	-1040	O0
ATOM 9425 CB LEU C 199	-46.582	20.793	37.784	1.00	39.87		C0
ANISOU 9425 CB LEU C 199	4870	5030	5240	30	1040	-810	C0
ATOM 9426 CG LEU C 199	-47.172	19.540	38.429	1.00	39.84		C0
ANISOU 9426 CG LEU C 199	4800	5200	5140	-20	1030	-810	C0
ATOM 9427 CD1 LEU C 199	-48.646	19.398	38.091	1.00	40.45		C0
ANISOU 9427 CD1 LEU C 199	4780	5380	5220	60	1050	-770	C0
ATOM 9428 CD2 LEU C 199	-46.405	18.300	38.005	1.00	38.63		C0
ANISOU 9428 CD2 LEU C 199	4650	5090	4940	-120	960	-750	C0
ATOM 9429 H LEU C 199	-45.535	23.055	37.471	1.00	40.89		H0
ANISOU 9429 H LEU C 199	5170	4870	5500	70	1070	-850	H0
ATOM 9430 HA LEU C 199	-48.105	22.192	38.048	1.00	41.25		H0
ANISOU 9430 HA LEU C 199	5020	5160	5490	220	1120	-870	H0
ATOM 9431 HB2 LEU C 199	-46.725	20.739	36.818	1.00	39.60		H0
ANISOU 9431 HB2 LEU C 199	4820	4990	5240	60	1020	-730	H0
ATOM 9432 HB3 LEU C 199	-45.617	20.794	37.938	1.00	39.48		H0
ANISOU 9432 HB3 LEU C 199	4870	4940	5190	-40	1020	-820	H0
ATOM 9433 HG LEU C 199	-47.090	19.629	39.411	1.00	40.12		H0
ANISOU 9433 HG LEU C 199	4850	5250	5140	-50	1060	-880	H0
ATOM 9434 HD11 LEU C 199	-49.156	20.074	38.570	1.00	41.34		H0
ANISOU 9434 HD11 LEU C 199	4880	5480	5350	130	1100	-830	H0
ATOM 9435 HD12 LEU C 199	-48.956	18.514	38.352	1.00	40.11		H0
ANISOU 9435 HD12 LEU C 199	4690	5440	5110	10	1040	-760	H0
ATOM 9436 HD13 LEU C 199	-48.772	19.516	37.134	1.00	40.30		H0
ANISOU 9436 HD13 LEU C 199	4740	5330	5240	110	1030	-710	H0
ATOM 9437 HD21 LEU C 199	-46.456	18.202	37.038	1.00	38.32		H0
ANISOU 9437 HD21 LEU C 199	4600	5040	4930	-90	930	-680	H0
ATOM 9438 HD22 LEU C 199	-46.792	17.516	38.431	1.00	38.47		H0
ANISOU 9438 HD22 LEU C 199	4610	5150	4860	-160	940	-750	H0
ATOM 9439 HD23 LEU C 199	-45.473	18.387	38.273	1.00	38.41		H0
ANISOU 9439 HD23 LEU C 199	4670	5010	4910	-170	940	-780	H0
ATOM 9440 N ASN C 200	-48.037	22.726	40.484	1.00	41.26		N0
ANISOU 9440 N ASN C 200	5070	5190	5420	190	1210	-1090	N0
ATOM 9441 CA ASN C 200	-48.112	22.779	41.970	1.00	41.83		C0
ANISOU 9441 CA ASN C 200	5160	5320	5420	150	1270	-1220	C0
ATOM 9442 C ASN C 200	-48.712	21.453	42.439	1.00	40.92		C0
ANISOU 9442 C ASN C 200	4940	5410	5190	80	1260	-1200	C0
ATOM 9443 O ASN C 200	-49.872	21.179	42.083	1.00	40.65		O0
ANISOU 9443 O ASN C 200	4800	5490	5150	150	1280	-1160	O0
ATOM 9444 CB ASN C 200	-48.928	23.980	42.458	1.00	43.73		C0
ANISOU 9444 CB ASN C 200	5410	5510	5700	300	1340	-1330	C0
ATOM 9445 CG ASN C 200	-48.896	24.182	43.961	1.00	44.68		C0
ANISOU 9445 CG ASN C 200	5560	5680	5740	260	1400	-1480	C0
ATOM 9446 OD1 ASN C 200	-48.005	23.691	44.658	1.00	44.11		O0
ANISOU 9446 OD1 ASN C 200	5530	5620	5600	110	1380	-1500	O0
ATOM 9447 ND2 ASN C 200	-49.863	24.926	44.468	1.00	46.14		N0
ANISOU 9447 ND2 ASN C 200	5710	5890	5940	400	1470	-1590	N0

ATOM 9448 H ASN C 200	-48.794	23.026	40.075	1.00	41.94	H0	
ANISOU 9448 H ASN C 200	5120	5280	5540	280	1230	-1070	H0
ATOM 9449 HA ASN C 200	-47.201	22.865	42.327	1.00	41.54	H0	
ANISOU 9449 HA ASN C 200	5190	5220	5370	70	1250	-1250	H0
ATOM 9450 HB2 ASN C 200	-48.584	24.787	42.024	1.00	44.12	H0	
ANISOU 9450 HB2 ASN C 200	5530	5410	5820	350	1330	-1330	H0
ATOM 9451 HB3 ASN C 200	-49.858	23.861	42.176	1.00	44.11	H0	
ANISOU 9451 HB3 ASN C 200	5370	5640	5750	380	1360	-1310	H0
ATOM 9452 HD21 ASN C 200	-49.968	24.976	45.345	1.00	46.80	H0	
ANISOU 9452 HD21 ASN C 200	5790	6030	5960	380	1510	-1680	H0
ATOM 9453 HD22 ASN C 200	-50.405	25.374	43.933	1.00	46.79	H0	
ANISOU 9453 HD22 ASN C 200	5770	5930	6080	510	1480	-1570	H0
ATOM 9454 N PHE C 201	-47.938	20.642	43.163	1.00	39.82	N0	
ANISOU 9454 N PHE C 201	4840	5320	4970	-60	1230	-1210	N0
ATOM 9455 CA PHE C 201	-48.309	19.247	43.511	1.00	39.21	C0	
ANISOU 9455 CA PHE C 201	4710	5410	4780	-170	1200	-1160	C0
ATOM 9456 C PHE C 201	-47.653	18.865	44.837	1.00	39.47	C0	
ANISOU 9456 C PHE C 201	4810	5480	4710	-290	1200	-1230	C0
ATOM 9457 O PHE C 201	-46.654	19.506	45.198	1.00	38.93	O0	
ANISOU 9457 O PHE C 201	4820	5300	4670	-310	1190	-1290	O0
ATOM 9458 CB PHE C 201	-47.887	18.297	42.384	1.00	37.27	C0	
ANISOU 9458 CB PHE C 201	4460	5150	4550	-210	1110	-1030	C0
ATOM 9459 CG PHE C 201	-46.431	17.908	42.409	1.00	35.73	C0	
ANISOU 9459 CG PHE C 201	4350	4880	4340	-300	1040	-1020	C0
ATOM 9460 CD1 PHE C 201	-45.461	18.739	41.872	1.00	35.66	C0	
ANISOU 9460 CD1 PHE C 201	4390	4730	4420	-270	1030	-1030	C0
ATOM 9461 CD2 PHE C 201	-46.028	16.717	42.990	1.00	35.00	C0	
ANISOU 9461 CD2 PHE C 201	4290	4860	4150	-410	980	-1000	C0
ATOM 9462 CE1 PHE C 201	-44.119	18.389	41.917	1.00	34.91	C0	
ANISOU 9462 CE1 PHE C 201	4350	4600	4310	-350	970	-1030	C0
ATOM 9463 CE2 PHE C 201	-44.689	16.355	43.014	1.00	34.39	C0	
ANISOU 9463 CE2 PHE C 201	4270	4730	4070	-460	900	-1000	C0
ATOM 9464 CZ PHE C 201	-43.735	17.193	42.479	1.00	34.25	C0	
ANISOU 9464 CZ PHE C 201	4280	4600	4130	-430	900	-1010	C0
ATOM 9465 H PHE C 201	-47.124	20.885	43.494	1.00	39.80	H0	
ANISOU 9465 H PHE C 201	4910	5250	4960	-110	1220	-1240	H0
ATOM 9466 HA PHE C 201	-49.292	19.196	43.620	1.00	39.75	H0	
ANISOU 9466 HA PHE C 201	4710	5580	4820	-130	1240	-1170	H0
ATOM 9467 HB2 PHE C 201	-48.432	17.485	42.443	1.00	37.13	H0	
ANISOU 9467 HB2 PHE C 201	4400	5240	4470	-250	1100	-990	H0
ATOM 9468 HB3 PHE C 201	-48.084	18.728	41.527	1.00	37.24	H0	
ANISOU 9468 HB3 PHE C 201	4440	5100	4610	-130	1110	-990	H0
ATOM 9469 HD1 PHE C 201	-45.717	19.561	41.484	1.00	36.06	H0	
ANISOU 9469 HD1 PHE C 201	4440	4720	4540	-200	1070	-1030	H0
ATOM 9470 HD2 PHE C 201	-46.676	16.136	43.356	1.00	35.28	H0	
ANISOU 9470 HD2 PHE C 201	4300	4990	4120	-440	980	-990	H0
ATOM 9471 HE1 PHE C 201	-43.471	18.962	41.540	1.00	34.90	H0	
ANISOU 9471 HE1 PHE C 201	4380	4520	4360	-340	960	-1030	H0
ATOM 9472 HE2 PHE C 201	-44.432	15.541	43.411	1.00	34.20	H0	
ANISOU 9472 HE2 PHE C 201	4270	4740	3980	-530	850	-980	H0
ATOM 9473 HZ PHE C 201	-42.823	16.950	42.502	1.00	33.97	H0	
ANISOU 9473 HZ PHE C 201	4270	4540	4090	-470	850	-1020	H0
ATOM 9474 N ARG C 202	-48.177	17.835	45.508	1.00	40.28	N0	
ANISOU 9474 N ARG C 202	4880	5740	4690	-380	1190	-1210	N0

ATOM 9475 CA ARG C 202	-47.644	17.354	46.810	1.00	41.67	C0	
ANISOU 9475 CA ARG C 202	5120	5970	4740	-510	1170	-1270	C0
ATOM 9476 C ARG C 202	-47.883	15.849	46.975	1.00	42.42	C0	
ANISOU 9476 C ARG C 202	5210	6180	4720	-640	1100	-1170	C0
ATOM 9477 O ARG C 202	-48.812	15.314	46.343	1.00	41.85	O0	
ANISOU 9477 O ARG C 202	5070	6190	4640	-630	1100	-1100	O0
ATOM 9478 CB ARG C 202	-48.295	18.126	47.962	1.00	42.81	C0	
ANISOU 9478 CB ARG C 202	5240	6190	4830	-490	1280	-1400	C0
ATOM 9479 CG ARG C 202	-49.782	17.854	48.126	1.00	43.64	C0	
ANISOU 9479 CG ARG C 202	5230	6480	4870	-470	1350	-1400	C0
ATOM 9480 CD ARG C 202	-50.397	18.553	49.324	1.00	45.14	C0	
ANISOU 9480 CD ARG C 202	5390	6770	4990	-450	1460	-1550	C0
ATOM 9481 NE ARG C 202	-51.803	18.182	49.448	1.00	45.98	N0	
ANISOU 9481 NE ARG C 202	5360	7100	5020	-450	1520	-1550	N0
ATOM 9482 CZ ARG C 202	-52.777	18.969	49.903	1.00	47.61	C0	
ANISOU 9482 CZ ARG C 202	5470	7410	5210	-350	1640	-1670	C0
ATOM 9483 NH1 ARG C 202	-52.524	20.207	50.290	1.00	48.42	N0	
ANISOU 9483 NH1 ARG C 202	5620	7410	5370	-230	1700	-1800	N0
ATOM 9484 NH2 ARG C 202	-54.013	18.509	49.961	1.00	48.68	N0	
ANISOU 9484 NH2 ARG C 202	5460	7770	5260	-370	1690	-1650	N0
ATOM 9485 H ARG C 202	-48.897	17.366	45.205	1.00	40.38	H0	
ANISOU 9485 H ARG C 202	4830	5830	4680	-380	1190	-1170	H0
ATOM 9486 HA ARG C 202	-46.674	17.520	46.826	1.00	41.18	H0	
ANISOU 9486 HA ARG C 202	5120	5810	4710	-530	1130	-1280	H0
ATOM 9487 HB2 ARG C 202	-47.837	17.891	48.795	1.00	43.04	H0	
ANISOU 9487 HB2 ARG C 202	5330	6240	4780	-580	1260	-1430	H0
ATOM 9488 HB3 ARG C 202	-48.165	19.085	47.807	1.00	43.25	H0	
ANISOU 9488 HB3 ARG C 202	5310	6150	4970	-400	1310	-1460	H0
ATOM 9489 HG2 ARG C 202	-50.252	18.147	47.316	1.00	43.57	H0	
ANISOU 9489 HG2 ARG C 202	5160	6450	4940	-380	1360	-1370	H0
ATOM 9490 HG3 ARG C 202	-49.925	16.889	48.220	1.00	43.31	H0	
ANISOU 9490 HG3 ARG C 202	5180	6520	4750	-570	1310	-1330	H0
ATOM 9491 HD2 ARG C 202	-49.915	18.297	50.139	1.00	45.26	H0	
ANISOU 9491 HD2 ARG C 202	5470	6810	4920	-550	1440	-1580	H0
ATOM 9492 HD3 ARG C 202	-50.316	19.522	49.209	1.00	45.60	H0	
ANISOU 9492 HD3 ARG C 202	5460	6740	5130	-350	1500	-1620	H0
ATOM 9493 HE ARG C 202	-52.025	17.374	49.207	1.00	45.58	H0	
ANISOU 9493 HE ARG C 202	5280	7110	4920	-530	1490	-1460	H0
ATOM 9494 HH11 ARG C 202	-51.709	20.526	50.253	1.00	47.95	H0	
ANISOU 9494 HH11 ARG C 202	5650	7210	5360	-230	1660	-1810	H0
ATOM 9495 HH12 ARG C 202	-53.177	20.715	50.581	1.00	49.65	H0	
ANISOU 9495 HH12 ARG C 202	5710	7640	5520	-150	1770	-1890	H0
ATOM 9496 HH21 ARG C 202	-54.188	17.684	49.705	1.00	48.12	H0	
ANISOU 9496 HH21 ARG C 202	5360	7770	5150	-460	1650	-1560	H0
ATOM 9497 HH22 ARG C 202	-54.658	19.023	50.258	1.00	49.82	H0	
ANISOU 9497 HH22 ARG C 202	5530	8010	5400	-290	1770	-1740	H0
ATOM 9498 N LYS C 203	-47.057	15.210	47.806	1.00	44.44	N0	
ANISOU 9498 N LYS C 203	5560	6440	4890	-750	1040	-1180	N0
ATOM 9499 CA LYS C 203	-47.323	13.875	48.399	1.00	46.47	C0	
ANISOU 9499 CA LYS C 203	5850	6800	5000	-890	970	-1110	C0
ATOM 9500 C LYS C 203	-48.677	13.962	49.105	1.00	49.30	C0	
ANISOU 9500 C LYS C 203	6130	7340	5260	-930	1080	-1150	C0
ATOM 9501 O LYS C 203	-48.907	14.985	49.794	1.00	49.59	O0	
ANISOU 9501 O LYS C 203	6140	7410	5300	-880	1180	-1270	O0

ATOM 9502 CB LYS C 203	-46.214	13.497	49.388	1.00	47.24	C0	
ANISOU 9502 CB LYS C 203	6060	6870	5020	-990	900	-1140	C0
ATOM 9503 CG LYS C 203	-46.190	12.041	49.833	1.00	47.82	C0	
ANISOU 9503 CG LYS C 203	6210	7000	4960	-1120	790	-1050	C0
ATOM 9504 CD LYS C 203	-45.657	11.096	48.777	1.00	48.04	C0	
ANISOU 9504 CD LYS C 203	6280	6930	5040	-1100	670	-940	C0
ATOM 9505 CE LYS C 203	-45.022	9.846	49.349	1.00	48.97	C0	
ANISOU 9505 CE LYS C 203	6530	7030	5040	-1210	520	-880	C0
ATOM 9506 NZ LYS C 203	-43.631	10.104	49.795	1.00	49.80	N0	
ANISOU 9506 NZ LYS C 203	6700	7060	5170	-1180	460	-930	N0
ATOM 9507 H LYS C 203	-46.261	15.569	48.065	1.00	44.25	H0	
ANISOU 9507 H LYS C 203	5580	6340	4880	-750	1020	-1220	H0
ATOM 9508 HA LYS C 203	-47.369	13.204	47.679	1.00	45.90	H0	
ANISOU 9508 HA LYS C 203	5780	6720	4950	-900	910	-1030	H0
ATOM 9509 HB2 LYS C 203	-45.350	13.708	48.977	1.00	46.57	H0	
ANISOU 9509 HB2 LYS C 203	6000	6690	5000	-940	850	-1140	H0
ATOM 9510 HB3 LYS C 203	-46.308	14.061	50.184	1.00	47.96	H0	
ANISOU 9510 HB3 LYS C 203	6150	7000	5070	-1000	960	-1220	H0
ATOM 9511 HG2 LYS C 203	-45.633	11.967	50.637	1.00	48.36	H0	
ANISOU 9511 HG2 LYS C 203	6350	7070	4960	-1180	760	-1080	H0
ATOM 9512 HG3 LYS C 203	-47.101	11.768	50.074	1.00	48.59	H0	
ANISOU 9512 HG3 LYS C 203	6280	7200	4980	-1180	830	-1030	H0
ATOM 9513 HD2 LYS C 203	-46.394	10.833	48.185	1.00	47.80	H0	
ANISOU 9513 HD2 LYS C 203	6210	6940	5020	-1100	680	-890	H0
ATOM 9514 HD3 LYS C 203	-44.991	11.567	48.233	1.00	47.31	H0	
ANISOU 9514 HD3 LYS C 203	6180	6760	5040	-1020	660	-960	H0
ATOM 9515 HE2 LYS C 203	-45.546	9.529	50.108	1.00	49.79	H0	
ANISOU 9515 HE2 LYS C 203	6660	7220	5040	-1300	530	-870	H0
ATOM 9516 HE3 LYS C 203	-45.013	9.143	48.672	1.00	48.55	H0	
ANISOU 9516 HE3 LYS C 203	6500	6940	5010	-1200	450	-810	H0
ATOM 9517 HZ1 LYS C 203	-43.122	10.350	49.087	1.00	48.85	H0	
ANISOU 9517 HZ1 LYS C 203	6550	6880	5140	-1100	440	-930	H0
ATOM 9518 HZ2 LYS C 203	-43.283	9.352	50.164	1.00	49.71	H0	
ANISOU 9518 HZ2 LYS C 203	6760	7040	5080	-1230	360	-890	H0
ATOM 9519 HZ3 LYS C 203	-43.624	10.768	50.412	1.00	49.95	H0	
ANISOU 9519 HZ3 LYS C 203	6700	7110	5170	-1190	520	-1000	H0
ATOM 9520 N LYS C 204	-49.550	12.969	48.907	1.00	51.49	N0	
ANISOU 9520 N LYS C 204	6370	7730	5460	-1020	1050	-1070	N0
ATOM 9521 CA LYS C 204	-50.892	12.920	49.547	1.00	55.16	C0	
ANISOU 9521 CA LYS C 204	6740	8410	5810	-1080	1150	-1100	C0
ATOM 9522 C LYS C 204	-50.681	12.761	51.058	1.00	58.52	C0	
ANISOU 9522 C LYS C 204	7230	8920	6080	-1210	1170	-1160	C0
ATOM 9523 O LYS C 204	-49.903	11.862	51.447	1.00	59.75	O0	
ANISOU 9523 O LYS C 204	7520	9020	6160	-1330	1050	-1090	O0
ATOM 9524 CB LYS C 204	-51.744	11.814	48.914	1.00	55.57	C0	
ANISOU 9524 CB LYS C 204	6750	8550	5810	-1170	1110	-980	C0
ATOM 9525 CG LYS C 204	-52.018	12.020	47.429	1.00	55.03	C0	
ANISOU 9525 CG LYS C 204	6600	8420	5890	-1040	1090	-920	C0
ATOM 9526 CD LYS C 204	-53.251	11.324	46.899	1.00	55.90	C0	
ANISOU 9526 CD LYS C 204	6610	8680	5950	-1110	1100	-850	C0
ATOM 9527 CE LYS C 204	-53.084	9.828	46.752	1.00	55.67	C0	
ANISOU 9527 CE LYS C 204	6690	8640	5820	-1280	970	-720	C0
ATOM 9528 NZ LYS C 204	-53.870	9.309	45.606	1.00	55.68	N0	
ANISOU 9528 NZ LYS C 204	6620	8690	5850	-1290	940	-640	N0

ATOM	9529	H	LYS	C	204	-49.368	12.256	48.369	1.00	50.87	H0	
ANISOU	9529	H	LYS	C	204	6320	7620	5390	-1050	980	-990	H0
ATOM	9530	HA	LYS	C	204	-51.336	13.784	49.385	1.00	55.68	H0	
ANISOU	9530	HA	LYS	C	204	6720	8490	5940	-970	1230	-1160	H0
ATOM	9531	HB2	LYS	C	204	-51.284	10.957	49.034	1.00	55.17	H0	
ANISOU	9531	HB2	LYS	C	204	6790	8460	5710	-1270	1010	-910	H0
ATOM	9532	HB3	LYS	C	204	-52.600	11.767	49.390	1.00	56.59	H0	
ANISOU	9532	HB3	LYS	C	204	6800	8840	5860	-1230	1170	-1000	H0
ATOM	9533	HG2	LYS	C	204	-52.108	12.983	47.263	1.00	55.18	H0	
ANISOU	9533	HG2	LYS	C	204	6560	8410	5990	-920	1160	-990	H0
ATOM	9534	HG3	LYS	C	204	-51.240	11.707	46.924	1.00	53.99	H0	
ANISOU	9534	HG3	LYS	C	204	6550	8160	5810	-1030	1010	-880	H0
ATOM	9535	HD2	LYS	C	204	-54.001	11.500	47.506	1.00	56.97	H0	
ANISOU	9535	HD2	LYS	C	204	6670	8970	6010	-1140	1170	-890	H0
ATOM	9536	HD3	LYS	C	204	-53.478	11.704	46.024	1.00	55.50	H0	
ANISOU	9536	HD3	LYS	C	204	6490	8600	5990	-1000	1110	-830	H0
ATOM	9537	HE2	LYS	C	204	-52.142	9.614	46.616	1.00	54.78	H0	
ANISOU	9537	HE2	LYS	C	204	6680	8380	5750	-1270	900	-700	H0
ATOM	9538	HE3	LYS	C	204	-53.381	9.384	47.568	1.00	56.50	H0	
ANISOU	9538	HE3	LYS	C	204	6820	8840	5810	-1410	980	-720	H0
ATOM	9539	HZ1	LYS	C	204	-54.736	9.569	45.684	1.00	56.45	H0	
ANISOU	9539	HZ1	LYS	C	204	6600	8920	5920	-1290	1010	-660	H0
ATOM	9540	HZ2	LYS	C	204	-53.833	8.402	45.594	1.00	55.59	H0	
ANISOU	9540	HZ2	LYS	C	204	6680	8670	5770	-1400	870	-570	H0
ATOM	9541	HZ3	LYS	C	204	-53.532	9.631	44.829	1.00	54.84	H0	
ANISOU	9541	HZ3	LYS	C	204	6500	8480	5850	-1180	920	-630	H0
ATOM	9542	N	GLY	C	205	-51.299	13.641	51.858	1.00	61.36	N0	
ANISOU	9542	N	GLY	C	205	7520	9400	6400	-1180	1300	-1280	N0
ATOM	9543	CA	GLY	C	205	-51.082	13.766	53.315	1.00	63.13	C0	
ANISOU	9543	CA	GLY	C	205	7800	9710	6480	-1290	1330	-1370	C0
ATOM	9544	C	GLY	C	205	-51.598	12.556	54.074	1.00	64.69	C0	
ANISOU	9544	C	GLY	C	205	8030	10080	6470	-1510	1300	-1290	C0
ATOM	9545	O	GLY	C	205	-50.896	11.551	54.201	1.00	64.83	O0	
ANISOU	9545	O	GLY	C	205	8180	10020	6430	-1630	1170	-1190	O0
ATOM	9546	H	GLY	C	205	-51.912	14.231	51.534	1.00	61.51	H0	
ANISOU	9546	H	GLY	C	205	7440	9460	6470	-1090	1370	-1330	H0
ATOM	9547	HA2	GLY	C	205	-50.113	13.873	53.488	1.00	62.58	H0	
ANISOU	9547	HA2	GLY	C	205	7830	9510	6440	-1280	1280	-1380	H0
ATOM	9548	HA3	GLY	C	205	-51.543	14.579	53.641	1.00	64.05	H0	
ANISOU	9548	HA3	GLY	C	205	7850	9890	6600	-1210	1440	-1480	H0
TER	9549		GLY	C	205							
ATOM	9550	N	ALA	D	1	-37.638	29.734	-4.168	1.00	86.69	N0	
ANISOU	9550	N	ALA	D	1	11660	13330	7950	870	-430	2820	N0
ATOM	9551	CA	ALA	D	1	-38.348	30.910	-3.577	1.00	87.87	C0	
ANISOU	9551	CA	ALA	D	1	11780	13330	8270	1140	-430	3010	C0
ATOM	9552	C	ALA	D	1	-38.815	30.580	-2.151	1.00	85.32	C0	
ANISOU	9552	C	ALA	D	1	11320	12910	8190	1140	-440	2810	C0
ATOM	9553	O	ALA	D	1	-38.556	31.399	-1.244	1.00	85.53	O0	
ANISOU	9553	O	ALA	D	1	11420	12610	8470	1240	-330	2830	O0
ATOM	9554	CB	ALA	D	1	-39.500	31.321	-4.466	1.00	91.05	C0	
ANISOU	9554	CB	ALA	D	1	12090	14050	8460	1360	-600	3260	C0
ATOM	9555	H	ALA	D	1	-38.245	29.151	-4.518	1.00	87.26	H0	
ANISOU	9555	H	ALA	D	1	11620	13660	7870	850	-550	2770	H0
ATOM	9556	HA	ALA	D	1	-37.709	31.660	-3.525	1.00	87.99	H0	

ANISOU	9556	HA	ALA	D	1	11950	13100	8390	1180	-310	3110	H0
ATOM	9557	HB1	ALA	D	1	-39.921	32.119	-4.105	1.00	92.04		H0
ANISOU	9557	HB1	ALA	D	1	12210	14060	8700	1550	-590	3390	H0
ATOM	9558	HB2	ALA	D	1	-39.170	31.506	-5.361	1.00	92.51		H0
ANISOU	9558	HB2	ALA	D	1	12370	14300	8480	1350	-590	3380	H0
ATOM	9559	HB3	ALA	D	1	-40.153	30.602	-4.505	1.00	91.03		H0
ANISOU	9559	HB3	ALA	D	1	11930	14300	8360	1310	-720	3150	H0
ATOM	9560	N	ASP	D	2	-39.465	29.425	-1.957	1.00	83.63		N0
ANISOU	9560	N	ASP	D	2	10910	12960	7900	1020	-570	2610	N0
ATOM	9561	CA	ASP	D	2	-40.030	28.982	-0.649	1.00	81.20		C0
ANISOU	9561	CA	ASP	D	2	10440	12630	7790	1010	-590	2430	C0
ATOM	9562	C	ASP	D	2	-39.082	27.960	0.002	1.00	77.53		C0
ANISOU	9562	C	ASP	D	2	10010	12020	7430	740	-500	2140	C0
ATOM	9563	O	ASP	D	2	-38.070	27.592	-0.632	1.00	76.75		O0
ANISOU	9563	O	ASP	D	2	10060	11870	7240	580	-440	2090	O0
ATOM	9564	CB	ASP	D	2	-41.464	28.463	-0.814	1.00	82.59		C0
ANISOU	9564	CB	ASP	D	2	10350	13200	7830	1070	-790	2430	C0
ATOM	9565	CG	ASP	D	2	-41.604	27.245	-1.712	1.00	83.04		C0
ANISOU	9565	CG	ASP	D	2	10340	13580	7630	840	-920	2310	C0
ATOM	9566	OD1	ASP	D	2	-40.862	26.267	-1.498	1.00	81.06		O0
ANISOU	9566	OD1	ASP	D	2	10150	13250	7410	600	-860	2080	O0
ATOM	9567	OD2	ASP	D	2	-42.458	27.284	-2.619	1.00	86.17		O0
ANISOU	9567	OD2	ASP	D	2	10630	14310	7810	920	-1080	2440	O0
ATOM	9568	H	ASP	D	2	-39.601	28.828	-2.631	1.00	84.23		H0
ANISOU	9568	H	ASP	D	2	10950	13260	7800	930	-650	2580	H0
ATOM	9569	HA	ASP	D	2	-40.072	29.771	-0.060	1.00	81.29		H0
ANISOU	9569	HA	ASP	D	2	10480	12440	7960	1160	-530	2500	H0
ATOM	9570	HB2	ASP	D	2	-41.821	28.234	0.068	1.00	81.55		H0
ANISOU	9570	HB2	ASP	D	2	10110	13040	7840	1060	-790	2330	H0
ATOM	9571	HB3	ASP	D	2	-42.016	29.181	-1.187	1.00	84.71		H0
ANISOU	9571	HB3	ASP	D	2	10590	13540	8050	1260	-840	2630	H0
ATOM	9572	N	ARG	D	3	-39.401	27.521	1.225	1.00	74.89		N0
ANISOU	9572	N	ARG	D	3	9560	11630	7270	700	-500	1970	N0
ATOM	9573	CA	ARG	D	3	-38.515	26.669	2.069	1.00	71.47		C0
ANISOU	9573	CA	ARG	D	3	9170	11020	6970	490	-400	1720	C0
ATOM	9574	C	ARG	D	3	-38.454	25.243	1.512	1.00	70.40		C0
ANISOU	9574	C	ARG	D	3	8980	11100	6670	250	-480	1550	C0
ATOM	9575	O	ARG	D	3	-37.442	24.560	1.778	1.00	67.69		O0
ANISOU	9575	O	ARG	D	3	8730	10610	6380	80	-390	1380	O0
ATOM	9576	CB	ARG	D	3	-38.984	26.681	3.528	1.00	70.18		C0
ANISOU	9576	CB	ARG	D	3	8880	10760	7020	540	-380	1620	C0
ATOM	9577	CG	ARG	D	3	-38.736	28.009	4.225	1.00	70.41		C0
ANISOU	9577	CG	ARG	D	3	9010	10490	7250	740	-270	1730	C0
ATOM	9578	CD	ARG	D	3	-39.282	28.062	5.636	1.00	69.78		C0
ANISOU	9578	CD	ARG	D	3	8820	10350	7350	820	-250	1630	C0
ATOM	9579	NE	ARG	D	3	-39.039	29.367	6.237	1.00	70.40		N0
ANISOU	9579	NE	ARG	D	3	9020	10130	7600	1000	-140	1710	N0
ATOM	9580	CZ	ARG	D	3	-39.723	30.477	5.968	1.00	72.72		C0
ANISOU	9580	CZ	ARG	D	3	9320	10410	7900	1270	-150	1910	C0
ATOM	9581	NH1	ARG	D	3	-40.719	30.464	5.095	1.00	74.71		N0
ANISOU	9581	NH1	ARG	D	3	9450	10950	7980	1380	-280	2060	N0
ATOM	9582	NH2	ARG	D	3	-39.404	31.605	6.579	1.00	73.42		N0
ANISOU	9582	NH2	ARG	D	3	9550	10190	8160	1410	-40	1950	N0
ATOM	9583	H	ARG	D	3	-40.194	27.725	1.622	1.00	75.56		H0

ANISOU 9583 H ARG D 3	9530 11780 7400 820 -550 2010	H0
ATOM 9584 HA ARG D 3	-37.608 27.051 2.034 1.00 70.92	H0
ANISOU 9584 HA ARG D 3	9240 10750 6960 470 -300 1740	H0
ATOM 9585 HB2 ARG D 3	-39.943 26.481 3.553 1.00 71.09	H0
ANISOU 9585 HB2 ARG D 3	8850 11070 7090 600 -480 1640	H0
ATOM 9586 HB3 ARG D 3	-38.514 25.973 4.016 1.00 68.44	H0
ANISOU 9586 HB3 ARG D 3	8670 10470 6860 400 -340 1460	H0
ATOM 9587 HG2 ARG D 3	-37.770 28.179 4.255 1.00 69.58	H0
ANISOU 9587 HG2 ARG D 3	9050 10190 7200 670 -170 1700	H0
ATOM 9588 HG3 ARG D 3	-39.147 28.727 3.700 1.00 72.32	H0
ANISOU 9588 HG3 ARG D 3	9270 10770 7430 890 -300 1900	H0
ATOM 9589 HD2 ARG D 3	-40.246 27.880 5.623 1.00 70.64	H0
ANISOU 9589 HD2 ARG D 3	8770 10660 7400 890 -340 1660	H0
ATOM 9590 HD3 ARG D 3	-38.850 27.368 6.179 1.00 67.95	H0
ANISOU 9590 HD3 ARG D 3	8580 10070 7170 670 -210 1470	H0
ATOM 9591 HE ARG D 3	-38.391 29.427 6.818 1.00 69.15	H0
ANISOU 9591 HE ARG D 3	8930 9790 7550 940 -60 1620	H0
ATOM 9592 HH11 ARG D 3	-40.940 29.722 4.684 1.00 74.58	H0
ANISOU 9592 HH11 ARG D 3	9340 11140 7850 1280 -360 2030	H0
ATOM 9593 HH12 ARG D 3	-41.162 31.205 4.929 1.00 76.45	H0
ANISOU 9593 HH12 ARG D 3	9680 11160 8210 1570 -290 2210	H0
ATOM 9594 HH21 ARG D 3	-38.743 31.619 7.160 1.00 72.07	H0
ANISOU 9594 HH21 ARG D 3	9460 9830 8090 1330 40 1840	H0
ATOM 9595 HH22 ARG D 3	-39.855 32.342 6.404 1.00 75.07	H0
ANISOU 9595 HH22 ARG D 3	9780 10370 8380 1600 -50 2090	H0
ATOM 9596 N ALA D 4	-39.487 24.814 0.776 1.00 72.01	N0
ANISOU 9596 N ALA D 4	9050 11640 6680 250 -650 1590	N0
ATOM 9597 CA ALA D 4	-39.555 23.490 0.113 1.00 72.34	C0
ANISOU 9597 CA ALA D 4	9060 11900 6530 30 -740 1420	C0
ATOM 9598 C ALA D 4	-38.514 23.439 -1.012 1.00 72.89	C0
ANISOU 9598 C ALA D 4	9320 11940 6430 -50 -680 1430	C0
ATOM 9599 O ALA D 4	-37.762 22.448 -1.074 1.00 71.15	O0
ANISOU 9599 O ALA D 4	9180 11670 6190 -240 -630 1230	O0
ATOM 9600 CB ALA D 4	-40.951 23.227 -0.399 1.00 74.68	C0
ANISOU 9600 CB ALA D 4	9150 12570 6660 50 -940 1470	C0
ATOM 9601 H ALA D 4	-40.236 25.312 0.630 1.00 73.59	H0
ANISOU 9601 H ALA D 4	9170 11950 6840 390 -720 1710	H0
ATOM 9602 HA ALA D 4	-39.327 22.799 0.778 1.00 70.68	H0
ANISOU 9602 HA ALA D 4	8830 11600 6420 -100 -710 1260	H0
ATOM 9603 HB1 ALA D 4	-41.045 22.284 -0.616 1.00 74.60	H0
ANISOU 9603 HB1 ALA D 4	9110 12670 6560 -120 -1000 1330	H0
ATOM 9604 HB2 ALA D 4	-41.600 23.466 0.284 1.00 74.63	H0
ANISOU 9604 HB2 ALA D 4	9020 12580 6760 140 -970 1510	H0
ATOM 9605 HB3 ALA D 4	-41.112 23.758 -1.196 1.00 76.43	H0
ANISOU 9605 HB3 ALA D 4	9400 12900 6740 150 -990 1620	H0
ATOM 9606 N ASP D 5	-38.475 24.478 -1.857 1.00 75.13	N0
ANISOU 9606 N ASP D 5	9690 12260 6600 110 -670 1670	N0
ATOM 9607 CA ASP D 5	-37.466 24.657 -2.937 1.00 75.83	C0
ANISOU 9607 CA ASP D 5	9970 12320 6520 70 -590 1730	C0
ATOM 9608 C ASP D 5	-36.062 24.571 -2.328 1.00 72.96	C0
ANISOU 9608 C ASP D 5	9750 11630 6340 -30 -390 1610	C0
ATOM 9609 O ASP D 5	-35.259 23.760 -2.820 1.00 72.07	O0
ANISOU 9609 O ASP D 5	9720 11540 6120 -190 -340 1470	O0
ATOM 9610 CB ASP D 5	-37.653 25.988 -3.672 1.00 78.72	C0

ANISOU	9610	CB	ASP	D	5	10400	12710	6800	290	-590	2050	C0
ATOM	9611	CG	ASP	D	5	-38.873	26.035	-4.577	1.00	82.16		C0
ANISOU	9611	CG	ASP	D	5	10710	13530	6980	390	-790	2180	C0
ATOM	9612	OD1	ASP	D	5	-39.090	25.053	-5.319	1.00	83.90		O0
ANISOU	9612	OD1	ASP	D	5	10890	14020	6970	240	-890	2050	O0
ATOM	9613	OD2	ASP	D	5	-39.595	27.055	-4.538	1.00	83.90		O0
ANISOU	9613	OD2	ASP	D	5	10870	13770	7240	620	-830	2420	O0
ATOM	9614	H	ASP	D	5	-39.086	25.153	-1.819	1.00	76.16		H0
ANISOU	9614	H	ASP	D	5	9760	12440	6740	260	-720	1810	H0
ATOM	9615	HA	ASP	D	5	-37.573	23.923	-3.586	1.00	76.54		H0
ANISOU	9615	HA	ASP	D	5	10050	12600	6430	-40	-660	1640	H0
ATOM	9616	HB2	ASP	D	5	-37.732	26.707	-3.013	1.00	78.35		H0
ANISOU	9616	HB2	ASP	D	5	10350	12490	6930	410	-540	2130	H0
ATOM	9617	HB3	ASP	D	5	-36.860	26.163	-4.219	1.00	79.00		H0
ANISOU	9617	HB3	ASP	D	5	10570	12680	6770	250	-500	2090	H0
ATOM	9618	N	ILE	D	6	-35.799	25.359	-1.280	1.00	71.58		N0
ANISOU	9618	N	ILE	D	6	9590	11180	6430	60	-290	1660	N0
ATOM	9619	CA	ILE	D	6	-34.475	25.434	-0.588	1.00	69.43		C0
ANISOU	9619	CA	ILE	D	6	9430	10600	6350	-20	-110	1570	C0
ATOM	9620	C	ILE	D	6	-34.058	24.021	-0.157	1.00	68.12		C0
ANISOU	9620	C	ILE	D	6	9230	10440	6210	-220	-100	1290	C0
ATOM	9621	O	ILE	D	6	-32.895	23.656	-0.414	1.00	67.19		O0
ANISOU	9621	O	ILE	D	6	9220	10240	6080	-330	10	1210	O0
ATOM	9622	CB	ILE	D	6	-34.508	26.420	0.601	1.00	67.90		C0
ANISOU	9622	CB	ILE	D	6	9230	10140	6430	100	-50	1630	C0
ATOM	9623	CG1	ILE	D	6	-34.702	27.866	0.136	1.00	69.84		C0
ANISOU	9623	CG1	ILE	D	6	9560	10300	6670	300	-20	1910	C0
ATOM	9624	CG2	ILE	D	6	-33.256	26.274	1.461	1.00	65.33		C0
ANISOU	9624	CG2	ILE	D	6	8980	9540	6300	-20	100	1480	C0
ATOM	9625	CD1	ILE	D	6	-35.036	28.836	1.248	1.00	69.68		C0
ANISOU	9625	CD1	ILE	D	6	9530	10050	6890	460	20	1960	C0
ATOM	9626	H	ILE	D	6	-36.429	25.903	-0.912	1.00	72.05		H0
ANISOU	9626	H	ILE	D	6	9580	11230	6560	190	-330	1750	H0
ATOM	9627	HA	ILE	D	6	-33.820	25.761	-1.230	1.00	70.15		H0
ANISOU	9627	HA	ILE	D	6	9630	10650	6370	-30	-40	1650	H0
ATOM	9628	HB	ILE	D	6	-35.286	26.182	1.163	1.00	67.57		H0
ANISOU	9628	HB	ILE	D	6	9070	10160	6440	140	-120	1580	H0
ATOM	9629	HG12	ILE	D	6	-33.879	28.166	-0.305	1.00	70.22		H0
ANISOU	9629	HG12	ILE	D	6	9730	10250	6700	250	70	1970	H0
ATOM	9630	HG13	ILE	D	6	-35.423	27.890	-0.528	1.00	71.50		H0
ANISOU	9630	HG13	ILE	D	6	9730	10710	6730	370	-120	2010	H0
ATOM	9631	HG21	ILE	D	6	-33.311	25.455	1.983	1.00	64.05		H0
ANISOU	9631	HG21	ILE	D	6	8750	9410	6170	-100	80	1320	H0
ATOM	9632	HG22	ILE	D	6	-33.181	27.032	2.065	1.00	65.28		H0
ANISOU	9632	HG22	ILE	D	6	9000	9360	6440	60	150	1540	H0
ATOM	9633	HG23	ILE	D	6	-32.470	26.240	0.889	1.00	65.64		H0
ANISOU	9633	HG23	ILE	D	6	9110	9560	6270	-90	180	1500	H0
ATOM	9634	HD11	ILE	D	6	-35.798	28.504	1.754	1.00	69.27		H0
ANISOU	9634	HD11	ILE	D	6	9360	10090	6870	490	-60	1890	H0
ATOM	9635	HD12	ILE	D	6	-35.256	29.702	0.866	1.00	71.35		H0
ANISOU	9635	HD12	ILE	D	6	9800	10220	7090	590	20	2150	H0
ATOM	9636	HD13	ILE	D	6	-34.271	28.932	1.841	1.00	68.37		H0
ANISOU	9636	HD13	ILE	D	6	9430	9680	6870	380	120	1880	H0
ATOM	9637	N	LEU	D	7	-34.963	23.259	0.468	1.00	68.77		N0

ANISOU 9637 N LEU D 7	9170 10630 6330 -260 -210 1160	N0
ATOM 9638 CA LEU D 7	-34.681 21.881 0.961 1.00 68.15	C0
ANISOU 9638 CA LEU D 7	9060 10550 6290 -440 -210 910	C0
ATOM 9639 C LEU D 7	-34.384 20.970 -0.235 1.00 69.27	C0
ANISOU 9639 C LEU D 7	9270 10860 6190 -570 -240 820	C0
ATOM 9640 O LEU D 7	-33.271 20.403 -0.277 1.00 68.23	O0
ANISOU 9640 O LEU D 7	9240 10610 6070 -670 -120 690	O0
ATOM 9641 CB LEU D 7	-35.865 21.347 1.777 1.00 68.35	C0
ANISOU 9641 CB LEU D 7	8910 10680 6390 -460 -330 840	C0
ATOM 9642 CG LEU D 7	-35.751 19.881 2.205 1.00 67.55	C0
ANISOU 9642 CG LEU D 7	8780 10570 6310 -650 -340 600	C0
ATOM 9643 CD1 LEU D 7	-34.435 19.615 2.922 1.00 65.63	C0
ANISOU 9643 CD1 LEU D 7	8640 10070 6230 -710 -180 490	C0
ATOM 9644 CD2 LEU D 7	-36.923 19.476 3.084 1.00 67.78	C0
ANISOU 9644 CD2 LEU D 7	8620 10700 6430 -670 -440 560	C0
ATOM 9645 H LEU D 7	-35.813 23.544 0.635 1.00 69.38	H0
ANISOU 9645 H LEU D 7	9150 10800 6420 -170 -290 1230	H0
ATOM 9646 HA LEU D 7	-33.881 21.919 1.534 1.00 66.66	H0
ANISOU 9646 HA LEU D 7	8920 10170 6240 -470 -100 860	H0
ATOM 9647 HB2 LEU D 7	-35.962 21.898 2.578 1.00 67.60	H0
ANISOU 9647 HB2 LEU D 7	8770 10460 6450 -370 -290 880	H0
ATOM 9648 HB3 LEU D 7	-36.679 21.452 1.245 1.00 69.85	H0
ANISOU 9648 HB3 LEU D 7	9030 11060 6460 -420 -440 910	H0
ATOM 9649 HG LEU D 7	-35.774 19.321 1.391 1.00 68.55	H0
ANISOU 9649 HG LEU D 7	8940 10830 6280 -730 -390 540	H0
ATOM 9650 HD11 LEU D 7	-33.706 19.613 2.277 1.00 65.84	H0
ANISOU 9650 HD11 LEU D 7	8770 10070 6180 -730 -130 490	H0
ATOM 9651 HD12 LEU D 7	-34.475 18.750 3.366 1.00 64.80	H0
ANISOU 9651 HD12 LEU D 7	8510 9950 6170 -800 -190 360	H0
ATOM 9652 HD13 LEU D 7	-34.279 20.311 3.584 1.00 64.84	H0
ANISOU 9652 HD13 LEU D 7	8530 9840 6260 -620 -130 550	H0
ATOM 9653 HD21 LEU D 7	-36.964 20.058 3.861 1.00 66.91	H0
ANISOU 9653 HD21 LEU D 7	8480 10480 6460 -580 -400 610	H0
ATOM 9654 HD22 LEU D 7	-36.806 18.555 3.374 1.00 66.92	H0
ANISOU 9654 HD22 LEU D 7	8510 10570 6350 -800 -440 420	H0
ATOM 9655 HD23 LEU D 7	-37.750 19.553 2.577 1.00 69.15	H0
ANISOU 9655 HD23 LEU D 7	8720 11070 6490 -650 -550 620	H0
ATOM 9656 N TYR D 8	-35.340 20.834 -1.161 1.00 71.35	N0
ANISOU 9656 N TYR D 8	9480 11400 6230 -570 -390 870	N0
ATOM 9657 CA TYR D 8	-35.194 20.047 -2.415 1.00 73.09	C0
ANISOU 9657 CA TYR D 8	9770 11820 6180 -680 -440 780	C0
ATOM 9658 C TYR D 8	-33.803 20.306 -3.012 1.00 73.03	C0
ANISOU 9658 C TYR D 8	9940 11690 6120 -680 -270 800	C0
ATOM 9659 O TYR D 8	-33.095 19.329 -3.327 1.00 72.87	O0
ANISOU 9659 O TYR D 8	10010 11660 6020 -810 -210 610	O0
ATOM 9660 CB TYR D 8	-36.306 20.389 -3.412 1.00 76.31	C0
ANISOU 9660 CB TYR D 8	10110 12540 6340 -610 -610 920	C0
ATOM 9661 CG TYR D 8	-36.133 19.765 -4.774 1.00 78.34	C0
ANISOU 9661 CG TYR D 8	10460 13020 6290 -710 -660 840	C0
ATOM 9662 CD1 TYR D 8	-36.621 18.497 -5.047 1.00 79.30	C0
ANISOU 9662 CD1 TYR D 8	10540 13310 6280 -900 -770 610	C0
ATOM 9663 CD2 TYR D 8	-35.462 20.434 -5.787 1.00 80.30	C0
ANISOU 9663 CD2 TYR D 8	10840 13310 6360 -640 -580 990	C0
ATOM 9664 CE1 TYR D 8	-36.455 17.914 -6.294 1.00 81.58	C0

ANISOU	9664	CE1	TYR	D	8	10930	13800	6270	-990	-820	520	C0
ATOM	9665	CE2	TYR	D	8	-35.287	19.865	-7.040	1.00	82.38		C0
ANISOU	9665	CE2	TYR	D	8	11190	13800	6310	-720	-620	920	C0
ATOM	9666	CZ	TYR	D	8	-35.785	18.599	-7.294	1.00	82.93		C0
ANISOU	9666	CZ	TYR	D	8	11230	14030	6250	-890	-740	670	C0
ATOM	9667	OH	TYR	D	8	-35.618	18.029	-8.523	1.00	85.56		O0
ANISOU	9667	OH	TYR	D	8	11670	14580	6260	-980	-770	570	O0
ATOM	9668	H	TYR	D	8	-36.162	21.220	-1.087	1.00	72.19		H0
ANISOU	9668	H	TYR	D	8	9490	11600	6330	-490	-470	960	H0
ATOM	9669	HA	TYR	D	8	-35.260	19.085	-2.189	1.00	72.58		H0
ANISOU	9669	HA	TYR	D	8	9690	11760	6120	-800	-460	600	H0
ATOM	9670	HB2	TYR	D	8	-37.162	20.094	-3.035	1.00	76.33		H0
ANISOU	9670	HB2	TYR	D	8	9980	12640	6380	-640	-710	880	H0
ATOM	9671	HB3	TYR	D	8	-36.344	21.363	-3.512	1.00	76.78		H0
ANISOU	9671	HB3	TYR	D	8	10170	12580	6420	-470	-590	1110	H0
ATOM	9672	HD1	TYR	D	8	-37.077	18.022	-4.373	1.00	78.51		H0
ANISOU	9672	HD1	TYR	D	8	10350	13180	6300	-960	-820	520	H0
ATOM	9673	HD2	TYR	D	8	-35.118	21.296	-5.621	1.00	79.88		H0
ANISOU	9673	HD2	TYR	D	8	10820	13140	6400	-530	-500	1150	H0
ATOM	9674	HE1	TYR	D	8	-36.797	17.051	-6.462	1.00	82.14		H0
ANISOU	9674	HE1	TYR	D	8	10980	13960	6260	-1120	-900	350	H0
ATOM	9675	HE2	TYR	D	8	-34.830	20.338	-7.716	1.00	83.35		H0
ANISOU	9675	HE2	TYR	D	8	11400	13960	6310	-670	-550	1030	H0
ATOM	9676	N	ASN	D	9	-33.422	21.584	-3.132	1.00	73.20		N0
ANISOU	9676	N	ASN	D	9	10020	11610	6180	-540	-180	1030	N0
ATOM	9677	CA	ASN	D	9	-32.148	22.035	-3.760	1.00	74.23		C0
ANISOU	9677	CA	ASN	D	9	10300	11650	6250	-540	-20	1100	C0
ATOM	9678	C	ASN	D	9	-30.949	21.609	-2.903	1.00	73.00		C0
ANISOU	9678	C	ASN	D	9	10190	11240	6310	-630	140	950	C0
ATOM	9679	O	ASN	D	9	-29.895	21.292	-3.492	1.00	74.00		O0
ANISOU	9679	O	ASN	D	9	10410	11360	6340	-690	260	890	O0
ATOM	9680	CB	ASN	D	9	-32.151	23.542	-4.027	1.00	74.70		C0
ANISOU	9680	CB	ASN	D	9	10410	11640	6330	-380	20	1400	C0
ATOM	9681	CG	ASN	D	9	-32.786	23.881	-5.358	1.00	77.05		C0
ANISOU	9681	CG	ASN	D	9	10730	12220	6330	-310	-80	1580	C0
ATOM	9682	OD1	ASN	D	9	-32.248	23.531	-6.404	1.00	78.80		O0
ANISOU	9682	OD1	ASN	D	9	11040	12580	6320	-370	-40	1560	O0
ATOM	9683	ND2	ASN	D	9	-33.930	24.545	-5.335	1.00	77.77		N0
ANISOU	9683	ND2	ASN	D	9	10730	12410	6410	-170	-210	1750	N0
ATOM	9684	H	ASN	D	9	-33.938	22.271	-2.831	1.00	73.63		H0
ANISOU	9684	H	ASN	D	9	10020	11650	6310	-440	-220	1150	H0
ATOM	9685	HA	ASN	D	9	-32.071	21.584	-4.634	1.00	75.37		H0
ANISOU	9685	HA	ASN	D	9	10490	11950	6190	-590	-40	1060	H0
ATOM	9686	HB2	ASN	D	9	-32.638	23.995	-3.309	1.00	74.15		H0
ANISOU	9686	HB2	ASN	D	9	10270	11490	6420	-310	-10	1450	H0
ATOM	9687	HB3	ASN	D	9	-31.228	23.869	-4.021	1.00	74.37		H0
ANISOU	9687	HB3	ASN	D	9	10450	11460	6350	-400	160	1440	H0
ATOM	9688	HD21	ASN	D	9	-34.443	24.568	-6.055	1.00	79.66		H0
ANISOU	9688	HD21	ASN	D	9	10950	12850	6460	-130	-300	1820	H0
ATOM	9689	HD22	ASN	D	9	-34.184	24.968	-4.601	1.00	77.16		H0
ANISOU	9689	HD22	ASN	D	9	10600	12210	6500	-100	-210	1780	H0
ATOM	9690	N	ILE	D	10	-31.092	21.611	-1.574	1.00	71.98		N0
ANISOU	9690	N	ILE	D	10	9980	10930	6440	-620	140	880	N0
ATOM	9691	CA	ILE	D	10	-30.053	21.102	-0.627	1.00	70.49		C0

ANISOU 9691 CA ILE D 10	9800	10530	6450	-700	270	720	C0
ATOM 9692 C ILE D 10	-29.799	19.618	-0.934	1.00	71.34		C0
ANISOU 9692 C ILE D 10	9930	10720	6450	-830	260	490	C0
ATOM 9693 O ILE D 10	-28.617	19.247	-1.061	1.00	71.47		O0
ANISOU 9693 O ILE D 10	10020	10660	6470	-870	400	410	O0
ATOM 9694 CB ILE D 10	-30.458	21.348	0.842	1.00	68.75		C0
ANISOU 9694 CB ILE D 10	9480	10150	6490	-660	250	700	C0
ATOM 9695 CG1 ILE D 10	-30.147	22.785	1.273	1.00	68.71		C0
ANISOU 9695 CG1 ILE D 10	9510	9960	6640	-560	320	880	C0
ATOM 9696 CG2 ILE D 10	-29.808	20.327	1.769	1.00	67.28		C0
ANISOU 9696 CG2 ILE D 10	9280	9840	6450	-760	310	490	C0
ATOM 9697 CD1 ILE D 10	-30.815	23.208	2.566	1.00	67.57		C0
ANISOU 9697 CD1 ILE D 10	9270	9700	6700	-480	280	880	C0
ATOM 9698 H ILE D 10	-31.833	21.941	-1.160	1.00	71.86		H0
ANISOU 9698 H ILE D 10	9890	10930	6490	-560	70	940	H0
ATOM 9699 HA ILE D 10	-29.228	21.591	-0.797	1.00	70.65		H0
ANISOU 9699 HA ILE D 10	9880	10470	6490	-690	380	790	H0
ATOM 9700 HB ILE D 10	-31.435	21.227	0.908	1.00	69.20		H0
ANISOU 9700 HB ILE D 10	9470	10310	6520	-640	130	710	H0
ATOM 9701 HG12 ILE D 10	-29.176	22.878	1.377	1.00	68.18		H0
ANISOU 9701 HG12 ILE D 10	9490	9780	6630	-600	430	860	H0
ATOM 9702 HG13 ILE D 10	-30.431	23.395	0.559	1.00	70.18		H0
ANISOU 9702 HG13 ILE D 10	9730	10220	6720	-490	300	1030	H0
ATOM 9703 HG21 ILE D 10	-30.290	19.483	1.716	1.00	67.13		H0
ANISOU 9703 HG21 ILE D 10	9230	9910	6370	-820	240	390	H0
ATOM 9704 HG22 ILE D 10	-29.834	20.652	2.685	1.00	66.06		H0
ANISOU 9704 HG22 ILE D 10	9080	9570	6450	-730	320	500	H0
ATOM 9705 HG23 ILE D 10	-28.883	20.187	1.505	1.00	67.00		H0
ANISOU 9705 HG23 ILE D 10	9300	9760	6400	-800	400	460	H0
ATOM 9706 HD11 ILE D 10	-31.752	22.948	2.548	1.00	67.96		H0
ANISOU 9706 HD11 ILE D 10	9250	9880	6700	-460	180	880	H0
ATOM 9707 HD12 ILE D 10	-30.749	24.173	2.665	1.00	68.07		H0
ANISOU 9707 HD12 ILE D 10	9370	9670	6830	-410	320	1000	H0
ATOM 9708 HD13 ILE D 10	-30.374	22.776	3.318	1.00	66.16		H0
ANISOU 9708 HD13 ILE D 10	9070	9430	6640	-540	320	760	H0
ATOM 9709 N ARG D 11	-30.863	18.821	-1.091	1.00	71.88		N0
ANISOU 9709 N ARG D 11	9940	10950	6420	-880	110	390	N0
ATOM 9710 CA ARG D 11	-30.795	17.346	-1.290	1.00	72.66		C0
ANISOU 9710 CA ARG D 11	10080	11090	6440	-1010	90	150	C0
ATOM 9711 C ARG D 11	-30.173	16.994	-2.649	1.00	75.38		C0
ANISOU 9711 C ARG D 11	10550	11570	6520	-1040	140	100	C0
ATOM 9712 O ARG D 11	-29.537	15.921	-2.731	1.00	75.18		O0
ANISOU 9712 O ARG D 11	10600	11490	6480	-1120	210	-100	O0
ATOM 9713 CB ARG D 11	-32.189	16.730	-1.143	1.00	73.24		C0
ANISOU 9713 CB ARG D 11	10050	11310	6470	-1080	-90	80	C0
ATOM 9714 CG ARG D 11	-32.714	16.795	0.281	1.00	71.70		C0
ANISOU 9714 CG ARG D 11	9720	10990	6530	-1060	-120	80	C0
ATOM 9715 CD ARG D 11	-34.052	16.111	0.461	1.00	72.56		C0
ANISOU 9715 CD ARG D 11	9710	11250	6600	-1150	-290	10	C0
ATOM 9716 NE ARG D 11	-34.319	15.902	1.877	1.00	70.81		N0
ANISOU 9716 NE ARG D 11	9390	10890	6620	-1160	-280	-20	N0
ATOM 9717 CZ ARG D 11	-35.506	15.617	2.402	1.00	71.29		C0
ANISOU 9717 CZ ARG D 11	9300	11060	6720	-1210	-400	-30	C0
ATOM 9718 NH1 ARG D 11	-36.577	15.499	1.633	1.00	73.10		N0

ANISOU 9718 NH1 ARG D 11	9450	11540	6780	-1250	-560	-10	N0
ATOM 9719 NH2 ARG D 11	-35.617	15.458	3.709	1.00	69.31		N0
ANISOU 9719 NH2 ARG D 11	8980	10680	6680	-1210	-370	-50	N0
ATOM 9720 H ARG D 11	-31.714	19.145	-1.081	1.00	72.61		H0
ANISOU 9720 H ARG D 11	9970	11130	6490	-840	20	470	H0
ATOM 9721 HA ARG D 11	-30.218	16.974	-0.584	1.00	71.30		H0
ANISOU 9721 HA ARG D 11	9910	10770	6410	-1040	170	60	H0
ATOM 9722 HB2 ARG D 11	-32.809	17.203	-1.736	1.00	74.65		H0
ANISOU 9722 HB2 ARG D 11	10190	11650	6520	-1040	-180	190	H0
ATOM 9723 HB3 ARG D 11	-32.151	15.793	-1.427	1.00	73.72		H0
ANISOU 9723 HB3 ARG D 11	10150	11410	6450	-1170	-110	-70	H0
ATOM 9724 HG2 ARG D 11	-32.061	16.376	0.881	1.00	70.39		H0
ANISOU 9724 HG2 ARG D 11	9590	10670	6480	-1090	-40	-10	H0
ATOM 9725 HG3 ARG D 11	-32.803	17.736	0.547	1.00	71.43		H0
ANISOU 9725 HG3 ARG D 11	9650	10920	6560	-960	-110	230	H0
ATOM 9726 HD2 ARG D 11	-34.758	16.668	0.070	1.00	73.67		H0
ANISOU 9726 HD2 ARG D 11	9790	11540	6660	-1100	-380	130	H0
ATOM 9727 HD3 ARG D 11	-34.047	15.248	-0.005	1.00	73.26		H0
ANISOU 9727 HD3 ARG D 11	9850	11390	6590	-1260	-320	-120	H0
ATOM 9728 HE ARG D 11	-33.646	15.972	2.428	1.00	69.57		H0
ANISOU 9728 HE ARG D 11	9270	10580	6580	-1140	-190	-40	H0
ATOM 9729 HH11 ARG D 11	-36.513	15.605	0.764	1.00	74.33		H0
ANISOU 9729 HH11 ARG D 11	9660	11800	6780	-1250	-580	10	H0
ATOM 9730 HH12 ARG D 11	-37.356	15.310	1.995	1.00	73.45		H0
ANISOU 9730 HH12 ARG D 11	9380	11670	6860	-1290	-630	-10	H0
ATOM 9731 HH21 ARG D 11	-34.907	15.535	4.225	1.00	68.17		H0
ANISOU 9731 HH21 ARG D 11	8880	10380	6650	-1180	-270	-70	H0
ATOM 9732 HH22 ARG D 11	-36.400	15.266	4.063	1.00	69.69		H0
ANISOU 9732 HH22 ARG D 11	8920	10800	6760	-1240	-440	-50	H0
ATOM 9733 N GLN D 12	-30.341	17.843	-3.670	1.00	77.65		N0
ANISOU 9733 N GLN D 12	10870	12020	6620	-970	120	280	N0
ATOM 9734 CA GLN D 12	-29.784	17.613	-5.033	1.00	80.34		C0
ANISOU 9734 CA GLN D 12	11330	12520	6670	-990	180	260	C0
ATOM 9735 C GLN D 12	-28.253	17.655	-4.974	1.00	79.69		C0
ANISOU 9735 C GLN D 12	11330	12280	6670	-980	400	230	C0
ATOM 9736 O GLN D 12	-27.617	16.836	-5.671	1.00	81.17		O0
ANISOU 9736 O GLN D 12	11610	12530	6690	-1030	470	80	O0
ATOM 9737 CB GLN D 12	-30.280	18.653	-6.042	1.00	82.97		C0
ANISOU 9737 CB GLN D 12	11680	13060	6790	-910	120	500	C0
ATOM 9738 CG GLN D 12	-31.789	18.662	-6.250	1.00	84.82		C0
ANISOU 9738 CG GLN D 12	11810	13500	6910	-900	-110	540	C0
ATOM 9739 CD GLN D 12	-32.379	17.283	-6.421	1.00	85.46		C0
ANISOU 9739 CD GLN D 12	11880	13710	6890	-1050	-230	270	C0
ATOM 9740 OE1 GLN D 12	-32.990	16.734	-5.505	1.00	84.79		O0
ANISOU 9740 OE1 GLN D 12	11700	13550	6970	-1110	-310	160	O0
ATOM 9741 NE2 GLN D 12	-32.193	16.710	-7.600	1.00	86.84		N0
ANISOU 9741 NE2 GLN D 12	12160	14070	6770	-1110	-240	170	N0
ATOM 9742 H GLN D 12	-30.813	18.618	-3.592	1.00	77.94		H0
ANISOU 9742 H GLN D 12	10860	12080	6680	-900	80	430	H0
ATOM 9743 HA GLN D 12	-30.060	16.717	-5.334	1.00	80.95		H0
ANISOU 9743 HA GLN D 12	11430	12680	6640	-1070	120	90	H0
ATOM 9744 HB2 GLN D 12	-29.997	19.540	-5.735	1.00	82.49		H0
ANISOU 9744 HB2 GLN D 12	11610	12890	6850	-830	180	660	H0
ATOM 9745 HB3 GLN D 12	-29.842	18.482	-6.902	1.00	84.33		H0

ANISOU 9745 HB3 GLN D 12	11930	13330	6770	-920	170	480	H0
ATOM 9746 HG2 GLN D 12	-32.214	19.097	-5.485	1.00	83.64		H0
ANISOU 9746 HG2 GLN D 12	11580	13260	6940	-850	-140	610	H0
ATOM 9747 HG3 GLN D 12	-31.997	19.196	-7.047	1.00	86.43		H0
ANISOU 9747 HG3 GLN D 12	12040	13860	6940	-840	-140	680	H0
ATOM 9748 HE21 GLN D 12	-32.536	15.911	-7.762	1.00	87.66		H0
ANISOU 9748 HE21 GLN D 12	12270	14250	6790	-1200	-320	10	H0
ATOM 9749 HE22 GLN D 12	-31.726	17.124	-8.226	1.00	87.98		H0
ANISOU 9749 HE22 GLN D 12	12370	14270	6790	-1060	-170	260	H0
ATOM 9750 N THR D 13	-27.693	18.584	-4.190	1.00	77.90		N0
ANISOU 9750 N THR D 13	11070	11870	6670	-930	500	380	N0
ATOM 9751 CA THR D 13	-26.230	18.847	-4.097	1.00	77.25		C0
ANISOU 9751 CA THR D 13	11030	11650	6670	-920	700	400	C0
ATOM 9752 C THR D 13	-25.655	18.193	-2.833	1.00	74.39		C0
ANISOU 9752 C THR D 13	10610	11080	6570	-960	760	240	C0
ATOM 9753 O THR D 13	-24.538	17.654	-2.918	1.00	73.79		O0
ANISOU 9753 O THR D 13	10570	10970	6500	-980	900	130	O0
ATOM 9754 CB THR D 13	-25.928	20.351	-4.165	1.00	77.70		C0
ANISOU 9754 CB THR D 13	11090	11650	6790	-850	770	670	C0
ATOM 9755 OG1 THR D 13	-26.623	21.008	-3.105	1.00	77.13		O0
ANISOU 9755 OG1 THR D 13	10940	11430	6940	-810	690	750	O0
ATOM 9756 CG2 THR D 13	-26.323	20.971	-5.488	1.00	80.25		C0
ANISOU 9756 CG2 THR D 13	11480	12180	6830	-810	740	860	C0
ATOM 9757 H THR D 13	-28.178	19.142	-3.659	1.00	77.34		H0
ANISOU 9757 H THR D 13	10940	11740	6710	-890	440	470	H0
ATOM 9758 HA THR D 13	-25.804	18.421	-4.876	1.00	78.32		H0
ANISOU 9758 HA THR D 13	11230	11890	6640	-940	760	340	H0
ATOM 9759 HB THR D 13	-24.958	20.476	-4.034	1.00	77.50		H0
ANISOU 9759 HB THR D 13	11080	11540	6830	-870	910	680	H0
ATOM 9760 HG21 THR D 13	-25.853	20.520	-6.212	1.00	81.28		H0
ANISOU 9760 HG21 THR D 13	11670	12420	6800	-840	800	800	H0
ATOM 9761 HG22 THR D 13	-26.087	21.916	-5.488	1.00	80.62		H0
ANISOU 9761 HG22 THR D 13	11540	12150	6940	-770	800	1040	H0
ATOM 9762 HG23 THR D 13	-27.283	20.878	-5.618	1.00	80.72		H0
ANISOU 9762 HG23 THR D 13	11510	12330	6820	-790	600	860	H0
ATOM 9763 N SER D 14	-26.372	18.236	-1.705	1.00	72.94		N0
ANISOU 9763 N SER D 14	10340	10790	6580	-950	660	220	N0
ATOM 9764 CA SER D 14	-25.892	17.689	-0.407	1.00	70.43		C0
ANISOU 9764 CA SER D 14	9970	10280	6510	-980	710	90	C0
ATOM 9765 C SER D 14	-25.638	16.185	-0.552	1.00	70.78		C0
ANISOU 9765 C SER D 14	10060	10340	6490	-1040	720	-140	C0
ATOM 9766 O SER D 14	-26.554	15.463	-1.005	1.00	72.04		O0
ANISOU 9766 O SER D 14	10240	10610	6520	-1090	600	-240	O0
ATOM 9767 CB SER D 14	-26.836	17.975	0.730	1.00	68.34		C0
ANISOU 9767 CB SER D 14	9600	9930	6430	-960	600	120	C0
ATOM 9768 OG SER D 14	-26.260	17.565	1.959	1.00	65.15		O0
ANISOU 9768 OG SER D 14	9150	9360	6240	-980	650	20	O0
ATOM 9769 H SER D 14	-27.200	18.608	-1.644	1.00	73.00		H0
ANISOU 9769 H SER D 14	10310	10840	6590	-930	560	300	H0
ATOM 9770 HA SER D 14	-25.023	18.127	-0.202	1.00	70.05		H0
ANISOU 9770 HA SER D 14	9920	10150	6550	-960	820	140	H0
ATOM 9771 HB2 SER D 14	-27.027	18.939	0.764	1.00	68.37		H0
ANISOU 9771 HB2 SER D 14	9590	9920	6460	-910	590	270	H0
ATOM 9772 HB3 SER D 14	-27.682	17.495	0.586	1.00	68.56		H0

ANISOU 9772 HB3 SER D 14	9620	10050	6380	-990	490	70	H0
ATOM 9773 N ARG D 15	-24.421	15.755	-0.208	1.00	69.98		N0
ANISOU 9773 N ARG D 15	9970	10140	6480	-1030	870	-220	N0
ATOM 9774 CA ARG D 15	-23.996	14.334	-0.150	1.00	70.18		C0
ANISOU 9774 CA ARG D 15	10040	10120	6500	-1060	910	-440	C0
ATOM 9775 C ARG D 15	-23.642	14.019	1.300	1.00	65.88		C0
ANISOU 9775 C ARG D 15	9420	9390	6220	-1050	930	-490	C0
ATOM 9776 O ARG D 15	-22.503	14.209	1.719	1.00	65.68		O0
ANISOU 9776 O ARG D 15	9360	9290	6300	-1010	1060	-470	O0
ATOM 9777 CB ARG D 15	-22.830	14.096	-1.116	1.00	73.48		C0
ANISOU 9777 CB ARG D 15	10540	10610	6770	-1030	1070	-490	C0
ATOM 9778 CG ARG D 15	-23.183	14.283	-2.587	1.00	77.56		C0
ANISOU 9778 CG ARG D 15	11140	11330	6990	-1040	1050	-460	C0
ATOM 9779 CD ARG D 15	-24.306	13.382	-3.079	1.00	80.16		C0
ANISOU 9779 CD ARG D 15	11540	11750	7160	-1100	900	-610	C0
ATOM 9780 NE ARG D 15	-24.134	11.981	-2.704	1.00	81.48		N0
ANISOU 9780 NE ARG D 15	11770	11800	7390	-1130	910	-840	N0
ATOM 9781 CZ ARG D 15	-23.312	11.112	-3.300	1.00	84.45		C0
ANISOU 9781 CZ ARG D 15	12250	12180	7660	-1100	1030	-1010	C0
ATOM 9782 NH1 ARG D 15	-22.553	11.480	-4.321	1.00	85.94		N0
ANISOU 9782 NH1 ARG D 15	12490	12510	7660	-1050	1160	-960	N0
ATOM 9783 NH2 ARG D 15	-23.252	9.864	-2.865	1.00	85.32		N0
ANISOU 9783 NH2 ARG D 15	12420	12140	7850	-1120	1040	-1210	N0
ATOM 9784 H ARG D 15	-23.754	16.332	0.019	1.00	69.67		H0
ANISOU 9784 H ARG D 15	9900	10040	6530	-1010	950	-150	H0
ATOM 9785 HA ARG D 15	-24.752	13.768	-0.423	1.00	70.61		H0
ANISOU 9785 HA ARG D 15	10130	10230	6470	-1100	810	-520	H0
ATOM 9786 HB2 ARG D 15	-22.107	14.716	-0.887	1.00	73.01		H0
ANISOU 9786 HB2 ARG D 15	10430	10510	6790	-1000	1160	-390	H0
ATOM 9787 HB3 ARG D 15	-22.498	13.184	-0.984	1.00	73.45		H0
ANISOU 9787 HB3 ARG D 15	10570	10550	6790	-1030	1110	-630	H0
ATOM 9788 HG2 ARG D 15	-23.444	15.217	-2.734	1.00	77.58		H0
ANISOU 9788 HG2 ARG D 15	11120	11380	6980	-1030	1020	-300	H0
ATOM 9789 HG3 ARG D 15	-22.383	14.112	-3.129	1.00	78.40		H0
ANISOU 9789 HG3 ARG D 15	11300	11480	7010	-1010	1170	-490	H0
ATOM 9790 HD2 ARG D 15	-25.156	13.706	-2.712	1.00	79.54		H0
ANISOU 9790 HD2 ARG D 15	11410	11670	7140	-1120	780	-540	H0
ATOM 9791 HD3 ARG D 15	-24.363	13.448	-4.056	1.00	81.76		H0
ANISOU 9791 HD3 ARG D 15	11810	12090	7160	-1100	900	-600	H0
ATOM 9792 HE ARG D 15	-24.611	11.684	-2.038	1.00	80.72		H0
ANISOU 9792 HE ARG D 15	11640	11620	7410	-1170	840	-880	H0
ATOM 9793 HH11 ARG D 15	-22.583	12.304	-4.621	1.00	86.06		H0
ANISOU 9793 HH11 ARG D 15	12470	12610	7620	-1040	1160	-820	H0
ATOM 9794 HH12 ARG D 15	-22.017	10.895	-4.701	1.00	86.84		H0
ANISOU 9794 HH12 ARG D 15	12670	12620	7700	-1020	1250	-1080	H0
ATOM 9795 HH21 ARG D 15	-23.752	9.610	-2.185	1.00	83.95		H0
ANISOU 9795 HH21 ARG D 15	12210	11880	7800	-1160	960	-1230	H0
ATOM 9796 HH22 ARG D 15	-22.710	9.288	-3.253	1.00	85.86		H0
ANISOU 9796 HH22 ARG D 15	12570	12200	7850	-1090	1120	-1320	H0
ATOM 9797 N PROD 16	-24.618	13.557	2.116	1.00	62.87		N0
ANISOU 9797 N PROD 16	9000	8950	5940	-1090	810	-540	N0
ATOM 9798 CA PROD 16	-24.402	13.349	3.551	1.00	59.88		C0
ANISOU 9798 CA PROD 16	8540	8420	5790	-1080	820	-560	C0
ATOM 9799 C PROD 16	-23.190	12.491	3.957	1.00	58.74		C0

ANISOU 9799 C PRO D 16	8410	8170	5740	-1040	940	-670	C0
ATOM 9800 O PRO D 16	-22.783	12.595	5.101	1.00	55.95		O0
ANISOU 9800 O PRO D 16	7980	7720	5560	-1010	970	-650	O0
ATOM 9801 CB PRO D 16	-25.692	12.641	3.992	1.00	59.70		C0
ANISOU 9801 CB PRO D 16	8500	8390	5790	-1140	670	-630	C0
ATOM 9802 CG PRO D 16	-26.735	13.137	3.019	1.00	61.31		C0
ANISOU 9802 CG PRO D 16	8720	8760	5820	-1180	560	-570	C0
ATOM 9803 CD PRO D 16	-25.998	13.254	1.704	1.00	63.07		C0
ANISOU 9803 CD PRO D 16	9040	9080	5850	-1150	650	-570	C0
ATOM 9804 HA PRO D 16	-24.348	14.230	3.997	1.00	59.18		H0
ANISOU 9804 HA PRO D 16	8390	8310	5790	-1050	820	-450	H0
ATOM 9805 HB2 PRO D 16	-25.597	11.666	3.933	1.00	60.15		H0
ANISOU 9805 HB2 PRO D 16	8620	8400	5830	-1170	680	-750	H0
ATOM 9806 HB3 PRO D 16	-25.929	12.882	4.912	1.00	58.63		H0
ANISOU 9806 HB3 PRO D 16	8290	8190	5790	-1140	640	-590	H0
ATOM 9807 HG2 PRO D 16	-27.476	12.502	2.948	1.00	61.76		H0
ANISOU 9807 HG2 PRO D 16	8780	8850	5830	-1240	480	-640	H0
ATOM 9808 HG3 PRO D 16	-27.088	14.007	3.299	1.00	60.83		H0
ANISOU 9808 HG3 PRO D 16	8590	8720	5800	-1140	530	-450	H0
ATOM 9809 HD2 PRO D 16	-26.039	12.419	1.202	1.00	64.10		H0
ANISOU 9809 HD2 PRO D 16	9240	9240	5880	-1190	640	-700	H0
ATOM 9810 HD3 PRO D 16	-26.369	13.972	1.159	1.00	63.86		H0
ANISOU 9810 HD3 PRO D 16	9130	9280	5850	-1140	610	-470	H0
ATOM 9811 N ASP D 17	-22.661	11.665	3.045	1.00	59.23		N0
ANISOU 9811 N ASP D 17	8580	8270	5660	-1030	1020	-790	N0
ATOM 9812 CA ASP D 17	-21.519	10.747	3.308	1.00	59.25		C0
ANISOU 9812 CA ASP D 17	8610	8180	5730	-960	1150	-900	C0
ATOM 9813 C ASP D 17	-20.223	11.346	2.743	1.00	58.93		C0
ANISOU 9813 C ASP D 17	8540	8210	5640	-900	1300	-840	C0
ATOM 9814 O ASP D 17	-19.166	10.709	2.913	1.00	58.90		O0
ANISOU 9814 O ASP D 17	8530	8170	5680	-820	1420	-910	O0
ATOM 9815 CB ASP D 17	-21.798	9.351	2.741	1.00	61.59		C0
ANISOU 9815 CB ASP D 17	9040	8440	5920	-980	1140	-1090	C0
ATOM 9816 CG ASP D 17	-22.979	8.628	3.377	1.00	62.45		C0
ANISOU 9816 CG ASP D 17	9170	8450	6100	-1070	1000	-1160	C0
ATOM 9817 OD1 ASP D 17	-23.393	9.022	4.498	1.00	61.21		O0
ANISOU 9817 OD1 ASP D 17	8910	8240	6110	-1090	930	-1060	O0
ATOM 9818 OD2 ASP D 17	-23.478	7.666	2.747	1.00	65.15		O0
ANISOU 9818 OD2 ASP D 17	9640	8780	6330	-1140	950	-1300	O0
ATOM 9819 H ASP D 17	-22.987	11.598	2.198	1.00	60.52		H0
ANISOU 9819 H ASP D 17	8800	8510	5680	-1050	990	-810	H0
ATOM 9820 HA ASP D 17	-21.416	10.661	4.285	1.00	58.14		H0
ANISOU 9820 HA ASP D 17	8400	7950	5740	-950	1140	-880	H0
ATOM 9821 HB2 ASP D 17	-21.974	9.432	1.784	1.00	62.91		H0
ANISOU 9821 HB2 ASP D 17	9270	8700	5930	-1010	1130	-1110	H0
ATOM 9822 HB3 ASP D 17	-21.003	8.795	2.860	1.00	61.97		H0
ANISOU 9822 HB3 ASP D 17	9110	8420	6010	-920	1230	-1160	H0
ATOM 9823 N VAL D 18	-20.290	12.528	2.119	1.00	58.33		N0
ANISOU 9823 N VAL D 18	8440	8250	5470	-920	1310	-700	N0
ATOM 9824 CA VAL D 18	-19.118	13.230	1.512	1.00	58.88		C0
ANISOU 9824 CA VAL D 18	8470	8410	5490	-880	1460	-610	C0
ATOM 9825 C VAL D 18	-18.764	14.451	2.367	1.00	57.35		C0
ANISOU 9825 C VAL D 18	8160	8160	5470	-900	1470	-450	C0
ATOM 9826 O VAL D 18	-19.613	15.356	2.509	1.00	56.80		O0

ANISOU 9826 O VAL D 18	8080	8080	5420	-950	1370	-330	O0
ATOM 9827 CB VAL D 18	-19.395	13.634	0.053	1.00	60.94		C0
ANISOU 9827 CB VAL D 18	8830	8830	5500	-900	1470	-560	C0
ATOM 9828 CG1 VAL D 18	-18.209	14.354	-0.572	1.00	62.12		C0
ANISOU 9828 CG1 VAL D 18	8940	9080	5590	-880	1640	-450	C0
ATOM 9829 CG2 VAL D 18	-19.791	12.431	-0.787	1.00	62.54		C0
ANISOU 9829 CG2 VAL D 18	9160	9090	5510	-900	1450	-740	C0
ATOM 9830 H VAL D 18	-21.068	12.988	2.023	1.00	58.34		H0
ANISOU 9830 H VAL D 18	8440	8280	5450	-960	1220	-640	H0
ATOM 9831 HA VAL D 18	-18.360	12.619	1.520	1.00	59.33		H0
ANISOU 9831 HA VAL D 18	8530	8450	5560	-830	1550	-690	H0
ATOM 9832 HB VAL D 18	-20.158	14.261	0.061	1.00	60.64		H0
ANISOU 9832 HB VAL D 18	8780	8810	5450	-940	1380	-470	H0
ATOM 9833 HG11 VAL D 18	-18.189	15.277	-0.264	1.00	61.57		H0
ANISOU 9833 HG11 VAL D 18	8810	8990	5600	-910	1640	-320	H0
ATOM 9834 HG12 VAL D 18	-18.294	14.338	-1.541	1.00	63.51		H0
ANISOU 9834 HG12 VAL D 18	9190	9370	5580	-880	1670	-450	H0
ATOM 9835 HG13 VAL D 18	-17.384	13.908	-0.312	1.00	62.13		H0
ANISOU 9835 HG13 VAL D 18	8900	9060	5650	-840	1740	-510	H0
ATOM 9836 HG21 VAL D 18	-19.032	11.828	-0.868	1.00	63.04		H0
ANISOU 9836 HG21 VAL D 18	9240	9140	5570	-850	1560	-830	H0
ATOM 9837 HG22 VAL D 18	-20.064	12.731	-1.671	1.00	63.68		H0
ANISOU 9837 HG22 VAL D 18	9360	9350	5480	-920	1440	-710	H0
ATOM 9838 HG23 VAL D 18	-20.531	11.965	-0.362	1.00	61.90		H0
ANISOU 9838 HG23 VAL D 18	9100	8940	5480	-930	1350	-810	H0
ATOM 9839 N ILE D 19	-17.544	14.466	2.907	1.00	56.57		N0
ANISOU 9839 N ILE D 19	7960	8040	5490	-870	1580	-450	N0
ATOM 9840 CA ILE D 19	-16.978	15.593	3.701	1.00	55.32		C0
ANISOU 9840 CA ILE D 19	7680	7840	5500	-910	1610	-320	C0
ATOM 9841 C ILE D 19	-16.826	16.802	2.776	1.00	56.38		C0
ANISOU 9841 C ILE D 19	7830	8050	5530	-960	1670	-160	C0
ATOM 9842 O ILE D 19	-16.172	16.710	1.740	1.00	56.65		O0
ANISOU 9842 O ILE D 19	7900	8210	5420	-950	1790	-140	O0
ATOM 9843 CB ILE D 19	-15.649	15.168	4.357	1.00	55.42		C0
ANISOU 9843 CB ILE D 19	7570	7850	5630	-870	1720	-370	C0
ATOM 9844 CG1 ILE D 19	-15.202	16.174	5.417	1.00	54.58		C0
ANISOU 9844 CG1 ILE D 19	7340	7690	5710	-930	1710	-270	C0
ATOM 9845 CG2 ILE D 19	-14.556	14.925	3.318	1.00	57.50		C0
ANISOU 9845 CG2 ILE D 19	7830	8250	5760	-830	1890	-380	C0
ATOM 9846 CD1 ILE D 19	-14.126	15.646	6.328	1.00	54.77		C0
ANISOU 9846 CD1 ILE D 19	7230	7720	5860	-880	1760	-330	C0
ATOM 9847 H ILE D 19	-16.976	13.759	2.831	1.00	57.04		H0
ANISOU 9847 H ILE D 19	8020	8110	5540	-820	1650	-530	H0
ATOM 9848 HA ILE D 19	-17.609	15.814	4.406	1.00	54.31		H0
ANISOU 9848 HA ILE D 19	7540	7640	5460	-930	1510	-300	H0
ATOM 9849 HB ILE D 19	-15.813	14.310	4.819	1.00	54.90		H0
ANISOU 9849 HB ILE D 19	7520	7740	5600	-820	1680	-460	H0
ATOM 9850 HG12 ILE D 19	-14.869	16.980	4.968	1.00	55.42		H0
ANISOU 9850 HG12 ILE D 19	7430	7840	5790	-980	1760	-180	H0
ATOM 9851 HG13 ILE D 19	-15.978	16.429	5.958	1.00	53.65		H0
ANISOU 9851 HG13 ILE D 19	7240	7500	5650	-950	1600	-260	H0
ATOM 9852 HG21 ILE D 19	-14.942	14.532	2.517	1.00	58.19		H0
ANISOU 9852 HG21 ILE D 19	8020	8380	5710	-810	1890	-420	H0
ATOM 9853 HG22 ILE D 19	-13.890	14.317	3.684	1.00	57.51		H0

ANISOU 9853 HG22 ILE D 19	7770	8260	5820	-770	1950	-440	H0
ATOM 9854 HG23 ILE D 19	-14.128	15.768	3.089	1.00	57.96		H0
ANISOU 9854 HG23 ILE D 19	7840	8360	5820	-880	1950	-270	H0
ATOM 9855 HD11 ILE D 19	-14.458	14.868	6.808	1.00	53.92		H0
ANISOU 9855 HD11 ILE D 19	7140	7560	5780	-830	1710	-410	H0
ATOM 9856 HD12 ILE D 19	-13.875	16.335	6.964	1.00	54.17		H0
ANISOU 9856 HD12 ILE D 19	7070	7620	5890	-930	1750	-280	H0
ATOM 9857 HD13 ILE D 19	-13.349	15.393	5.801	1.00	55.69		H0
ANISOU 9857 HD13 ILE D 19	7310	7920	5920	-850	1870	-340	H0
ATOM 9858 N PROD 20	-17.442	17.965	3.100	1.00	55.71		N0
ANISOU 9858 N PROD 20	7750	7900	5520	-1020	1590	-30	N0
ATOM 9859 CA PROD 20	-17.424	19.125	2.206	1.00	57.50		C0
ANISOU 9859 CA PROD 20	8020	8170	5650	-1060	1640	150	C0
ATOM 9860 C PROD 20	-16.148	19.978	2.282	1.00	58.57		C0
ANISOU 9860 C PROD 20	8070	8310	5880	-1130	1780	250	C0
ATOM 9861 O PROD 20	-16.259	21.162	2.523	1.00	58.30		O0
ANISOU 9861 O PROD 20	8040	8180	5930	-1190	1760	390	O0
ATOM 9862 CB PROD 20	-18.635	19.920	2.716	1.00	56.83		C0
ANISOU 9862 CB PROD 20	7970	7980	5640	-1070	1490	230	C0
ATOM 9863 CG PROD 20	-18.604	19.679	4.205	1.00	54.80		C0
ANISOU 9863 CG PROD 20	7620	7610	5600	-1070	1440	130	C0
ATOM 9864 CD PROD 20	-18.220	18.217	4.325	1.00	54.39		C0
ANISOU 9864 CD PROD 20	7550	7600	5520	-1020	1460	-30	C0
ATOM 9865 HA PROD 20	-17.588	18.832	1.275	1.00	58.53		H0
ANISOU 9865 HA PROD 20	8220	8400	5620	-1040	1660	150	H0
ATOM 9866 HB2 PROD 20	-18.553	20.874	2.510	1.00	57.41		H0
ANISOU 9866 HB2 PROD 20	8050	8030	5730	-1100	1520	360	H0
ATOM 9867 HB3 PROD 20	-19.467	19.579	2.324	1.00	56.82		H0
ANISOU 9867 HB3 PROD 20	8020	8030	5540	-1040	1410	210	H0
ATOM 9868 HG2 PROD 20	-17.940	20.252	4.639	1.00	54.86		H0
ANISOU 9868 HG2 PROD 20	7570	7560	5710	-1110	1490	180	H0
ATOM 9869 HG3 PROD 20	-19.481	19.844	4.606	1.00	54.17		H0
ANISOU 9869 HG3 PROD 20	7550	7470	5550	-1050	1340	140	H0
ATOM 9870 HD2 PROD 20	-17.681	18.059	5.121	1.00	53.62		H0
ANISOU 9870 HD2 PROD 20	7370	7460	5540	-1020	1480	-80	H0
ATOM 9871 HD3 PROD 20	-19.012	17.649	4.358	1.00	53.85		H0
ANISOU 9871 HD3 PROD 20	7520	7530	5410	-1000	1380	-100	H0
ATOM 9872 N THR D 21	-14.979	19.366	2.059	1.00	60.25		N0
ANISOU 9872 N THR D 21	8210	8620	6070	-1110	1910	190	N0
ATOM 9873 CA THR D 21	-13.661	20.056	1.983	1.00	62.45		C0
ANISOU 9873 CA THR D 21	8380	8940	6400	-1190	2070	280	C0
ATOM 9874 C THR D 21	-13.681	21.040	0.803	1.00	65.28		C0
ANISOU 9874 C THR D 21	8820	9360	6620	-1250	2140	470	C0
ATOM 9875 O THR D 21	-14.139	20.645	-0.284	1.00	65.63		O0
ANISOU 9875 O THR D 21	8970	9520	6450	-1190	2150	470	O0
ATOM 9876 CB THR D 21	-12.504	19.050	1.882	1.00	62.40		C0
ANISOU 9876 CB THR D 21	8270	9070	6370	-1130	2200	170	C0
ATOM 9877 OG1 THR D 21	-12.781	18.152	0.809	1.00	62.95		O0
ANISOU 9877 OG1 THR D 21	8450	9250	6220	-1040	2230	90	O0
ATOM 9878 CG2 THR D 21	-12.287	18.257	3.153	1.00	60.41		C0
ANISOU 9878 CG2 THR D 21	7920	8750	6280	-1080	2130	30	C0
ATOM 9879 H THR D 21	-14.908	18.469	1.927	1.00	60.20		H0
ANISOU 9879 H THR D 21	8210	8660	6000	-1060	1920	80	H0
ATOM 9880 HA THR D 21	-13.547	20.572	2.814	1.00	61.61		H0

ANISOU 9880 HA THR D 21	8210	8740	6450	-1240	2030	310	H0
ATOM 9881 HB THR D 21	-11.678	19.548	1.674	1.00	63.48		H0
ANISOU 9881 HB THR D 21	8330	9270	6520	-1190	2300	250	H0
ATOM 9882 HG21 THR D 21	-11.983	18.853	3.861	1.00	60.14		H0
ANISOU 9882 HG21 THR D 21	7800	8660	6380	-1140	2120	70	H0
ATOM 9883 HG22 THR D 21	-11.614	17.570	2.998	1.00	61.15		H0
ANISOU 9883 HG22 THR D 21	7960	8930	6350	-1020	2220	-30	H0
ATOM 9884 HG23 THR D 21	-13.123	17.837	3.421	1.00	59.47		H0
ANISOU 9884 HG23 THR D 21	7870	8560	6160	-1040	2030	-30	H0
ATOM 9885 N GLN D 22	-13.253	22.284	1.038	1.00	68.09		N0
ANISOU 9885 N GLN D 22	9140	9640	7100	-1370	2190	620	N0
ATOM 9886 CA GLN D 22	-13.077	23.345	0.007	1.00	72.14		C0
ANISOU 9886 CA GLN D 22	9720	10190	7510	-1440	2280	840	C0
ATOM 9887 C GLN D 22	-11.608	23.336	-0.416	1.00	74.27		C0
ANISOU 9887 C GLN D 22	9860	10610	7750	-1520	2480	880	C0
ATOM 9888 O GLN D 22	-10.751	23.540	0.465	1.00	73.81		O0
ANISOU 9888 O GLN D 22	9650	10510	7880	-1600	2520	850	O0
ATOM 9889 CB GLN D 22	-13.499	24.713	0.555	1.00	73.61		C0
ANISOU 9889 CB GLN D 22	9950	10160	7860	-1540	2220	980	C0
ATOM 9890 CG GLN D 22	-15.002	24.963	0.476	1.00	74.28		C0
ANISOU 9890 CG GLN D 22	10180	10150	7890	-1450	2060	1020	C0
ATOM 9891 CD GLN D 22	-15.609	25.454	1.771	1.00	73.98		C0
ANISOU 9891 CD GLN D 22	10140	9900	8070	-1450	1930	980	C0
ATOM 9892 OE1 GLN D 22	-15.060	26.313	2.459	1.00	75.06		O0
ANISOU 9892 OE1 GLN D 22	10230	9890	8390	-1560	1970	1020	O0
ATOM 9893 NE2 GLN D 22	-16.767	24.910	2.114	1.00	73.03		N0
ANISOU 9893 NE2 GLN D 22	10060	9760	7930	-1340	1780	880	N0
ATOM 9894 H GLN D 22	-13.030	22.564	1.876	1.00	67.30		H0
ANISOU 9894 H GLN D 22	8970	9450	7150	-1410	2160	610	H0
ATOM 9895 HA GLN D 22	-13.637	23.124	-0.773	1.00	72.61		H0
ANISOU 9895 HA GLN D 22	9870	10320	7400	-1380	2270	860	H0
ATOM 9896 HB2 GLN D 22	-13.208	24.779	1.488	1.00	72.70		H0
ANISOU 9896 HB2 GLN D 22	9760	9960	7900	-1580	2190	910	H0
ATOM 9897 HB3 GLN D 22	-13.033	25.410	0.046	1.00	75.17		H0
ANISOU 9897 HB3 GLN D 22	10160	10370	8030	-1610	2320	1120	H0
ATOM 9898 HG2 GLN D 22	-15.175	25.626	-0.224	1.00	75.62		H0
ANISOU 9898 HG2 GLN D 22	10430	10320	7980	-1460	2090	1180	H0
ATOM 9899 HG3 GLN D 22	-15.450	24.131	0.212	1.00	73.67		H0
ANISOU 9899 HG3 GLN D 22	10120	10170	7700	-1360	2010	930	H0
ATOM 9900 HE21 GLN D 22	-17.023	24.913	2.961	1.00	71.71		H0
ANISOU 9900 HE21 GLN D 22	9860	9510	7880	-1330	1720	820	H0
ATOM 9901 HE22 GLN D 22	-17.286	24.546	1.498	1.00	73.03		H0
ANISOU 9901 HE22 GLN D 22	10110	9850	7790	-1280	1750	890	H0
ATOM 9902 N ARG D 23	-11.332	23.093	-1.703	1.00	76.78		N0
ANISOU 9902 N ARG D 23	10220	11110	7840	-1480	2610	940	N0
ATOM 9903 CA ARG D 23	-9.975	22.741	-2.203	1.00	78.54		C0
ANISOU 9903 CA ARG D 23	10310	11540	7990	-1500	2810	940	C0
ATOM 9904 C ARG D 23	-9.512	21.508	-1.411	1.00	76.60		C0
ANISOU 9904 C ARG D 23	9940	11330	7830	-1400	2790	710	C0
ATOM 9905 O ARG D 23	-10.376	20.640	-1.143	1.00	74.63		O0
ANISOU 9905 O ARG D 23	9780	11020	7550	-1290	2660	550	O0
ATOM 9906 CB ARG D 23	-9.054	23.966	-2.111	1.00	81.09		C0
ANISOU 9906 CB ARG D 23	10530	11830	8440	-1690	2930	1130	C0
ATOM 9907 CG ARG D 23	-9.120	24.876	-3.330	1.00	84.44		C0

ANISOU 9907 CG ARG D 23	11070	12310	8700	-1760	3030	1370	C0
ATOM 9908 CD ARG D 23	-8.261	24.351	-4.466	1.00	87.28		C0
ANISOU 9908 CD ARG D 23	11370	12960	8830	-1720	3230	1390	C0
ATOM 9909 NE ARG D 23	-8.745	24.761	-5.778	1.00	90.00		N0
ANISOU 9909 NE ARG D 23	11880	13400	8920	-1710	3290	1570	N0
ATOM 9910 CZ ARG D 23	-8.599	25.975	-6.308	1.00	92.11		C0
ANISOU 9910 CZ ARG D 23	12200	13630	9170	-1840	3370	1830	C0
ATOM 9911 NH1 ARG D 23	-9.085	26.226	-7.513	1.00	93.64		N0
ANISOU 9911 NH1 ARG D 23	12550	13930	9100	-1800	3410	1990	N0
ATOM 9912 NH2 ARG D 23	-7.980	26.934	-5.637	1.00	92.49		N0
ANISOU 9912 NH2 ARG D 23	12160	13530	9460	-2020	3410	1950	N0
ATOM 9913 H ARG D 23	-11.966	23.130	-2.356	1.00	77.06		H0
ANISOU 9913 H ARG D 23	10370	11180	7730	-1440	2570	990	H0
ATOM 9914 HA ARG D 23	-10.058	22.486	-3.151	1.00	79.79		H0
ANISOU 9914 HA ARG D 23	10540	11820	7950	-1450	2870	960	H0
ATOM 9915 HB2 ARG D 23	-9.296	24.486	-1.318	1.00	80.08		H0
ANISOU 9915 HB2 ARG D 23	10400	11540	8480	-1750	2840	1140	H0
ATOM 9916 HB3 ARG D 23	-8.132	23.663	-2.000	1.00	81.68		H0
ANISOU 9916 HB3 ARG D 23	10470	12020	8550	-1710	3030	1090	H0
ATOM 9917 HG2 ARG D 23	-10.049	24.946	-3.635	1.00	83.94		H0
ANISOU 9917 HG2 ARG D 23	11150	12200	8550	-1700	2940	1400	H0
ATOM 9918 HG3 ARG D 23	-8.812	25.774	-3.082	1.00	85.06		H0
ANISOU 9918 HG3 ARG D 23	11120	12290	8900	-1890	3060	1490	H0
ATOM 9919 HD2 ARG D 23	-7.341	24.668	-4.348	1.00	88.42		H0
ANISOU 9919 HD2 ARG D 23	11390	13160	9050	-1820	3350	1450	H0
ATOM 9920 HD3 ARG D 23	-8.244	23.370	-4.427	1.00	86.58		H0
ANISOU 9920 HD3 ARG D 23	11260	12950	8680	-1610	3220	1220	H0
ATOM 9921 HE ARG D 23	-9.159	24.163	-6.259	1.00	89.76		H0
ANISOU 9921 HE ARG D 23	11920	13460	8720	-1600	3260	1490	H0
ATOM 9922 HH11 ARG D 23	-9.497	25.592	-7.961	1.00	93.55		H0
ANISOU 9922 HH11 ARG D 23	12600	14030	8920	-1690	3370	1900	H0
ATOM 9923 HH12 ARG D 23	-8.993	27.027	-7.865	1.00	95.19		H0
ANISOU 9923 HH12 ARG D 23	12780	14100	9280	-1880	3460	2180	H0
ATOM 9924 HH21 ARG D 23	-7.656	26.777	-4.835	1.00	91.39		H0
ANISOU 9924 HH21 ARG D 23	11910	13330	9480	-2060	3380	1840	H0
ATOM 9925 HH22 ARG D 23	-7.894	27.731	-5.993	1.00	93.98		H0
ANISOU 9925 HH22 ARG D 23	12390	13680	9640	-2120	3470	2130	H0
ATOM 9926 N ASP D 24	-8.228	21.418	-1.043	1.00	76.61		N0
ANISOU 9926 N ASP D 24	9750	11430	7930	-1450	2920	690	N0
ATOM 9927 CA ASP D 24	-7.704	20.351	-0.144	1.00	75.44		C0
ANISOU 9927 CA ASP D 24	9460	11310	7900	-1340	2900	500	C0
ATOM 9928 C ASP D 24	-7.494	20.937	1.261	1.00	72.53		C0
ANISOU 9928 C ASP D 24	8970	10800	7800	-1450	2800	500	C0
ATOM 9929 O ASP D 24	-6.444	20.652	1.866	1.00	73.47		O0
ANISOU 9929 O ASP D 24	8880	11010	8020	-1460	2860	450	O0
ATOM 9930 CB ASP D 24	-6.434	19.711	-0.720	1.00	78.12		C0
ANISOU 9930 CB ASP D 24	9650	11890	8140	-1270	3110	470	C0
ATOM 9931 CG ASP D 24	-6.693	18.587	-1.716	1.00	79.34		C0
ANISOU 9931 CG ASP D 24	9930	12160	8060	-1090	3170	350	C0
ATOM 9932 OD1 ASP D 24	-7.634	17.792	-1.480	1.00	77.81		O0
ANISOU 9932 OD1 ASP D 24	9870	11850	7840	-990	3030	200	O0
ATOM 9933 OD2 ASP D 24	-5.942	18.505	-2.714	1.00	80.84		O0
ANISOU 9933 OD2 ASP D 24	10070	12560	8080	-1070	3360	400	O0
ATOM 9934 H ASP D 24	-7.587	21.990	-1.335	1.00	78.23		H0

ANISOU 9934 H ASP D 24	9880	11700	8140	-1540	3030	800	H0
ATOM 9935 HA ASP D 24	-8.391	19.648	-0.077	1.00	74.13		H0
ANISOU 9935 HA ASP D 24	9390	11090	7690	-1240	2810	390	H0
ATOM 9936 HB2 ASP D 24	-5.905	20.401	-1.169	1.00	79.63		H0
ANISOU 9936 HB2 ASP D 24	9780	12160	8310	-1380	3210	600	H0
ATOM 9937 HB3 ASP D 24	-5.897	19.343	0.010	1.00	77.64		H0
ANISOU 9937 HB3 ASP D 24	9450	11850	8200	-1240	3100	400	H0
ATOM 9938 N ARG D 25	-8.456	21.721	1.760	1.00	68.76		N0
ANISOU 9938 N ARG D 25	8600	10110	7410	-1530	2660	550	N0
ATOM 9939 CA ARG D 25	-8.435	22.279	3.139	1.00	66.45		C0
ANISOU 9939 CA ARG D 25	8230	9670	7350	-1620	2540	530	C0
ATOM 9940 C ARG D 25	-9.394	21.476	4.009	1.00	61.91		C0
ANISOU 9940 C ARG D 25	7720	8980	6830	-1500	2370	370	C0
ATOM 9941 O ARG D 25	-10.438	21.019	3.543	1.00	59.36		O0
ANISOU 9941 O ARG D 25	7550	8620	6390	-1400	2300	340	O0
ATOM 9942 CB ARG D 25	-8.821	23.761	3.171	1.00	67.61		C0
ANISOU 9942 CB ARG D 25	8460	9640	7580	-1790	2510	690	C0
ATOM 9943 CG ARG D 25	-7.829	24.674	2.465	1.00	71.54		C0
ANISOU 9943 CG ARG D 25	8890	10220	8070	-1960	2680	860	C0
ATOM 9944 CD ARG D 25	-7.960	26.128	2.880	1.00	73.02		C0
ANISOU 9944 CD ARG D 25	9130	10190	8420	-2150	2640	980	C0
ATOM 9945 NE ARG D 25	-7.639	27.018	1.768	1.00	76.45		N0
ANISOU 9945 NE ARG D 25	9630	10650	8770	-2270	2790	1200	N0
ATOM 9946 CZ ARG D 25	-8.506	27.456	0.855	1.00	77.12		C0
ANISOU 9946 CZ ARG D 25	9920	10670	8720	-2220	2780	1340	C0
ATOM 9947 NH1 ARG D 25	-8.091	28.257	-0.112	1.00	79.55		N0
ANISOU 9947 NH1 ARG D 25	10270	11010	8950	-2340	2930	1560	N0
ATOM 9948 NH2 ARG D 25	-9.783	27.108	0.912	1.00	75.79		N0
ANISOU 9948 NH2 ARG D 25	9900	10410	8490	-2060	2640	1280	N0
ATOM 9949 H ARG D 25	-9.195	21.956	1.284	1.00	69.00		H0
ANISOU 9949 H ARG D 25	8770	10090	7360	-1520	2620	600	H0
ATOM 9950 HA ARG D 25	-7.524	22.182	3.497	1.00	66.94		H0
ANISOU 9950 HA ARG D 25	8130	9810	7490	-1660	2600	510	H0
ATOM 9951 HB2 ARG D 25	-9.700	23.865	2.753	1.00	67.39		H0
ANISOU 9951 HB2 ARG D 25	8580	9550	7480	-1740	2460	720	H0
ATOM 9952 HB3 ARG D 25	-8.898	24.043	4.106	1.00	66.88		H0
ANISOU 9952 HB3 ARG D 25	8330	9440	7630	-1840	2420	640	H0
ATOM 9953 HG2 ARG D 25	-6.918	24.370	2.661	1.00	72.04		H0
ANISOU 9953 HG2 ARG D 25	8790	10410	8170	-1980	2750	820	H0
ATOM 9954 HG3 ARG D 25	-7.965	24.607	1.496	1.00	72.35		H0
ANISOU 9954 HG3 ARG D 25	9070	10400	8020	-1920	2750	930	H0
ATOM 9955 HD2 ARG D 25	-8.874	26.301	3.190	1.00	71.83		H0
ANISOU 9955 HD2 ARG D 25	9100	9900	8290	-2100	2530	970	H0
ATOM 9956 HD3 ARG D 25	-7.349	26.308	3.626	1.00	73.12		H0
ANISOU 9956 HD3 ARG D 25	9020	10200	8560	-2240	2640	940	H0
ATOM 9957 HE ARG D 25	-6.809	27.273	1.687	1.00	77.65		H0
ANISOU 9957 HE ARG D 25	9670	10880	8950	-2380	2880	1250	H0
ATOM 9958 HH11 ARG D 25	-7.246	28.493	-0.154	1.00	80.90		H0
ANISOU 9958 HH11 ARG D 25	10330	11250	9160	-2450	3030	1600	H0
ATOM 9959 HH12 ARG D 25	-8.661	28.552	-0.713	1.00	80.07		H0
ANISOU 9959 HH12 ARG D 25	10470	11040	8920	-2300	2920	1660	H0
ATOM 9960 HH21 ARG D 25	-10.072	26.575	1.548	1.00	73.99		H0
ANISOU 9960 HH21 ARG D 25	9640	10160	8310	-1990	2550	1150	H0
ATOM 9961 HH22 ARG D 25	-10.345	27.408	0.303	1.00	76.11		H0

ANISOU 9961	HH22 ARG D 25	10060	10430	8430	-2030	2630	1380	H0
ATOM 9962	N PROD 26	-9.075	21.298	5.308	1.00	59.63		N0
ANISOU 9962	N PROD 26	7300	8650	6710	-1510	2300	280	N0
ATOM 9963	CA PROD 26	-9.988	20.622	6.222	1.00	56.78		C0
ANISOU 9963	CA PROD 26	7000	8170	6400	-1400	2140	160	C0
ATOM 9964	C PROD 26	-11.278	21.439	6.354	1.00	55.09		C0
ANISOU 9964	C PROD 26	6950	7780	6210	-1440	2020	210	C0
ATOM 9965	O PROD 26	-11.263	22.619	6.054	1.00	55.95		O0
ANISOU 9965	O PROD 26	7100	7820	6340	-1560	2040	340	O0
ATOM 9966	CB PROD 26	-9.216	20.536	7.547	1.00	56.59		C0
ANISOU 9966	CB PROD 26	6790	8170	6540	-1440	2100	90	C0
ATOM 9967	CG PROD 26	-8.147	21.608	7.446	1.00	58.59		C0
ANISOU 9967	CG PROD 26	6920	8480	6870	-1620	2200	190	C0
ATOM 9968	CD PROD 26	-7.847	21.758	5.970	1.00	60.52		C0
ANISOU 9968	CD PROD 26	7210	8830	6960	-1630	2350	300	C0
ATOM 9969	HA PROD 26	-10.185	19.711	5.887	1.00	56.54		H0
ANISOU 9969	HA PROD 26	7010	8190	6280	-1290	2150	90	H0
ATOM 9970	HB2 PROD 26	-9.809	20.709	8.310	1.00	55.39		H0
ANISOU 9970	HB2 PROD 26	6680	7900	6460	-1440	1990	50	H0
ATOM 9971	HB3 PROD 26	-8.810	19.652	7.660	1.00	56.53		H0
ANISOU 9971	HB3 PROD 26	6720	8250	6520	-1340	2130	20	H0
ATOM 9972	HG2 PROD 26	-8.471	22.454	7.817	1.00	58.42		H0
ANISOU 9972	HG2 PROD 26	6940	8340	6920	-1720	2140	230	H0
ATOM 9973	HG3 PROD 26	-7.342	21.340	7.934	1.00	58.99		H0
ANISOU 9973	HG3 PROD 26	6810	8630	6970	-1620	2220	150	H0
ATOM 9974	HD2 PROD 26	-7.657	22.688	5.747	1.00	61.52		H0
ANISOU 9974	HD2 PROD 26	7340	8920	7120	-1760	2390	400	H0
ATOM 9975	HD3 PROD 26	-7.085	21.208	5.710	1.00	61.36		H0
ANISOU 9975	HD3 PROD 26	7210	9080	7020	-1580	2450	280	H0
ATOM 9976	N VAL D 27	-12.363	20.778	6.758	1.00	53.12		N0
ANISOU 9976	N VAL D 27	6790	7450	5940	-1340	1890	120	N0
ATOM 9977	CA VAL D 27	-13.616	21.430	7.239	1.00	51.65		C0
ANISOU 9977	CA VAL D 27	6710	7110	5810	-1350	1750	150	C0
ATOM 9978	C VAL D 27	-13.344	21.948	8.658	1.00	50.17		C0
ANISOU 9978	C VAL D 27	6430	6830	5810	-1420	1690	100	C0
ATOM 9979	O VAL D 27	-12.975	21.131	9.521	1.00	47.74		O0
ANISOU 9979	O VAL D 27	6020	6570	5550	-1370	1660	0	O0
ATOM 9980	CB VAL D 27	-14.805	20.452	7.201	1.00	50.41		C0
ANISOU 9980	CB VAL D 27	6650	6940	5570	-1230	1650	60	C0
ATOM 9981	CG1 VAL D 27	-16.059	21.061	7.804	1.00	49.55		C0
ANISOU 9981	CG1 VAL D 27	6610	6690	5520	-1230	1520	90	C0
ATOM 9982	CG2 VAL D 27	-15.067	19.956	5.786	1.00	51.63		C0
ANISOU 9982	CG2 VAL D 27	6900	7190	5520	-1180	1700	90	C0
ATOM 9983	H VAL D 27	-12.400	19.868	6.772	1.00	52.67		H0
ANISOU 9983	H VAL D 27	6720	7440	5840	-1250	1880	40	H0
ATOM 9984	HA VAL D 27	-13.814	22.186	6.660	1.00	52.41		H0
ANISOU 9984	HA VAL D 27	6870	7170	5870	-1400	1780	250	H0
ATOM 9985	HB VAL D 27	-14.558	19.668	7.752	1.00	49.83		H0
ANISOU 9985	HB VAL D 27	6510	6890	5530	-1180	1640	-30	H0
ATOM 9986	HG11 VAL D 27	-15.992	21.052	8.774	1.00	48.71		H0
ANISOU 9986	HG11 VAL D 27	6450	6540	5520	-1230	1470	30	H0
ATOM 9987	HG12 VAL D 27	-16.837	20.544	7.529	1.00	49.06		H0
ANISOU 9987	HG12 VAL D 27	6610	6650	5380	-1170	1460	60	H0
ATOM 9988	HG13 VAL D 27	-16.156	21.979	7.495	1.00	50.21		H0

ANISOU 9988 HG13 VAL D 27	6740	6730	5610	-1270	1530	180	H0
ATOM 9989 HG21 VAL D 27	-15.215	20.717	5.197	1.00	52.38		H0
ANISOU 9989 HG21 VAL D 27	7050	7280	5570	-1220	1730	190	H0
ATOM 9990 HG22 VAL D 27	-15.855	19.386	5.782	1.00	50.87		H0
ANISOU 9990 HG22 VAL D 27	6860	7090	5380	-1120	1630	30	H0
ATOM 9991 HG23 VAL D 27	-14.300	19.448	5.471	1.00	52.20		H0
ANISOU 9991 HG23 VAL D 27	6920	7350	5550	-1160	1790	50	H0
ATOM 9992 N ALA D 28	-13.472	23.261	8.867	1.00	50.87		N0
ANISOU 9992 N ALA D 28	6560	6790	5980	-1520	1680	190	N0
ATOM 9993 CA ALA D 28	-13.233	23.938	10.163	1.00	50.71		C0
ANISOU 9993 CA ALA D 28	6470	6670	6130	-1610	1620	130	C0
ATOM 9994 C ALA D 28	-14.508	23.835	11.000	1.00	49.29		C0
ANISOU 9994 C ALA D 28	6370	6380	5980	-1520	1480	70	C0
ATOM 9995 O ALA D 28	-15.456	24.598	10.730	1.00	50.27		O0
ANISOU 9995 O ALA D 28	6630	6380	6100	-1500	1440	140	O0
ATOM 9996 CB ALA D 28	-12.815	25.376	9.949	1.00	52.14		C0
ANISOU 9996 CB ALA D 28	6690	6730	6390	-1770	1670	240	C0
ATOM 9997 H ALA D 28	-13.724	23.845	8.215	1.00	51.62		H0
ANISOU 9997 H ALA D 28	6730	6840	6040	-1550	1700	280	H0
ATOM 9998 HA ALA D 28	-12.510	23.465	10.635	1.00	50.60		H0
ANISOU 9998 HA ALA D 28	6340	6740	6150	-1620	1630	70	H0
ATOM 9999 HB1 ALA D 28	-12.704	25.814	10.810	1.00	52.15		H0
ANISOU 9999 HB1 ALA D 28	6660	6660	6490	-1830	1630	190	H0
ATOM 10000 HB2 ALA D 28	-11.973	25.401	9.464	1.00	53.32		H0
ANISOU10000 HB2 ALA D 28	6770	6970	6520	-1840	1770	290	H0
ATOM 10001 HB3 ALA D 28	-13.497	25.841	9.436	1.00	52.46		H0
ANISOU10001 HB3 ALA D 28	6850	6690	6390	-1750	1670	320	H0
ATOM 10002 N VAL D 29	-14.533	22.896	11.947	1.00	47.57		N0
ANISOU10002 N VAL D 29	6070	6220	5780	-1450	1410	-50	N0
ATOM 10003 CA VAL D 29	-15.693	22.648	12.844	1.00	46.58		C0
ANISOU10003 CA VAL D 29	5990	6020	5680	-1360	1290	-120	C0
ATOM 10004 C VAL D 29	-15.437	23.378	14.166	1.00	47.23		C0
ANISOU10004 C VAL D 29	6020	6030	5890	-1430	1240	-180	C0
ATOM 10005 O VAL D 29	-14.399	23.110	14.800	1.00	46.78		O0
ANISOU10005 O VAL D 29	5830	6060	5880	-1480	1250	-240	O0
ATOM 10006 CB VAL D 29	-15.924	21.139	13.040	1.00	45.16		C0
ANISOU10006 CB VAL D 29	5780	5940	5440	-1250	1260	-200	C0
ATOM 10007 CG1 VAL D 29	-17.042	20.859	14.031	1.00	44.00		C0
ANISOU10007 CG1 VAL D 29	5660	5740	5320	-1180	1140	-250	C0
ATOM 10008 CG2 VAL D 29	-16.189	20.446	11.713	1.00	45.12		C0
ANISOU10008 CG2 VAL D 29	5840	6000	5300	-1190	1310	-160	C0
ATOM 10009 H VAL D 29	-13.829	22.339	12.105	1.00	47.84		H0
ANISOU10009 H VAL D 29	6010	6350	5820	-1440	1440	-90	H0
ATOM 10010 HA VAL D 29	-16.486	23.028	12.430	1.00	46.58		H0
ANISOU10010 HA VAL D 29	6090	5960	5650	-1330	1270	-70	H0
ATOM 10011 HB VAL D 29	-15.091	20.760	13.414	1.00	45.32		H0
ANISOU10011 HB VAL D 29	5700	6030	5490	-1260	1290	-240	H0
ATOM 10012 HG11 VAL D 29	-16.718	21.003	14.937	1.00	43.80		H0
ANISOU10012 HG11 VAL D 29	5570	5720	5360	-1200	1120	-300	H0
ATOM 10013 HG12 VAL D 29	-17.338	19.937	13.938	1.00	43.41		H0
ANISOU10013 HG12 VAL D 29	5590	5710	5190	-1110	1130	-280	H0
ATOM 10014 HG13 VAL D 29	-17.789	21.457	13.855	1.00	43.98		H0
ANISOU10014 HG13 VAL D 29	5730	5670	5310	-1170	1110	-220	H0
ATOM 10015 HG21 VAL D 29	-16.945	20.870	11.270	1.00	45.28		H0

ANISOU10015	HG21	VAL D 29	5950	5970	5280	-1180	1280	-110	H0
ATOM 10016	HG22	VAL D 29	-16.390	19.507	11.869	1.00	44.60		H0
ANISOU10016	HG22	VAL D 29	5770	5970	5210	-1130	1280	-220	H0
ATOM 10017	HG23	VAL D 29	-15.401	20.517	11.146	1.00	46.10		H0
ANISOU10017	HG23	VAL D 29	5940	6180	5400	-1230	1390	-130	H0
ATOM 10018	N	SER D 30	-16.336	24.292	14.540	1.00	48.23		N0
ANISOU10018	N	SER D 30	6250	6020	6060	-1420	1180	-170	N0
ATOM 10019	CA	SER D 30	-16.373	24.947	15.873	1.00	49.61		C0
ANISOU10019	CA	SER D 30	6400	6110	6340	-1460	1120	-260	C0
ATOM 10020	C	SER D 30	-17.112	24.025	16.845	1.00	49.18		C0
ANISOU10020	C	SER D 30	6310	6120	6250	-1350	1030	-350	C0
ATOM 10021	O	SER D 30	-18.219	23.582	16.492	1.00	48.08		O0
ANISOU10021	O	SER D 30	6240	5980	6050	-1240	1000	-320	O0
ATOM 10022	CB	SER D 30	-17.023	26.309	15.814	1.00	50.67		C0
ANISOU10022	CB	SER D 30	6680	6050	6530	-1490	1110	-220	C0
ATOM 10023	OG	SER D 30	-16.047	27.335	15.760	1.00	53.29		O0
ANISOU10023	OG	SER D 30	7010	6290	6950	-1650	1170	-200	O0
ATOM 10024	H	SER D 30	-17.008	24.577	13.995	1.00	48.39		H0
ANISOU10024	H	SER D 30	6360	5980	6050	-1390	1180	-110	H0
ATOM 10025	HA	SER D 30	-15.438	25.056	16.190	1.00	50.17		H0
ANISOU10025	HA	SER D 30	6390	6220	6450	-1550	1140	-300	H0
ATOM 10026	HB2	SER D 30	-17.595	26.364	15.020	1.00	50.89		H0
ANISOU10026	HB2	SER D 30	6780	6050	6510	-1430	1130	-130	H0
ATOM 10027	HB3	SER D 30	-17.590	26.438	16.609	1.00	50.44		H0
ANISOU10027	HB3	SER D 30	6660	5980	6520	-1440	1050	-280	H0
ATOM 10028	N	VAL D 31	-16.513	23.747	18.006	1.00	50.87		N0
ANISOU10028	N	VAL D 31	6420	6400	6510	-1370	990	-450	N0
ATOM 10029	CA	VAL D 31	-17.134	22.959	19.112	1.00	51.62		C0
ANISOU10029	CA	VAL D 31	6480	6560	6580	-1270	910	-520	C0
ATOM 10030	C	VAL D 31	-17.165	23.833	20.369	1.00	53.04		C0
ANISOU10030	C	VAL D 31	6650	6690	6810	-1310	860	-620	C0
ATOM 10031	O	VAL D 31	-16.136	24.452	20.685	1.00	55.49		O0
ANISOU10031	O	VAL D 31	6910	7000	7180	-1440	870	-660	O0
ATOM 10032	CB	VAL D 31	-16.390	21.634	19.364	1.00	52.01		C0
ANISOU10032	CB	VAL D 31	6400	6770	6590	-1230	920	-540	C0
ATOM 10033	CG1	VAL D 31	-17.115	20.778	20.396	1.00	51.33		C0
ANISOU10033	CG1	VAL D 31	6300	6730	6470	-1130	850	-590	C0
ATOM 10034	CG2	VAL D 31	-16.176	20.855	18.074	1.00	51.88		C0
ANISOU10034	CG2	VAL D 31	6400	6790	6520	-1200	990	-470	C0
ATOM 10035	H	VAL D 31	-15.668	24.028	18.199	1.00	51.58		H0
ANISOU10035	H	VAL D 31	6450	6520	6630	-1460	1020	-470	H0
ATOM 10036	HA	VAL D 31	-18.050	22.751	18.860	1.00	50.98		H0
ANISOU10036	HA	VAL D 31	6460	6450	6460	-1200	900	-490	H0
ATOM 10037	HB	VAL D 31	-15.501	21.860	19.732	1.00	52.56		H0
ANISOU10037	HB	VAL D 31	6390	6880	6690	-1300	930	-570	H0
ATOM 10038	HG11	VAL D 31	-17.018	21.178	21.278	1.00	51.45		H0
ANISOU10038	HG11	VAL D 31	6280	6760	6510	-1150	810	-640	H0
ATOM 10039	HG12	VAL D 31	-16.733	19.884	20.404	1.00	50.99		H0
ANISOU10039	HG12	VAL D 31	6200	6770	6410	-1090	860	-580	H0
ATOM 10040	HG13	VAL D 31	-18.060	20.724	20.168	1.00	50.71		H0
ANISOU10040	HG13	VAL D 31	6290	6610	6370	-1080	830	-560	H0
ATOM 10041	HG21	VAL D 31	-17.023	20.765	17.604	1.00	51.46		H0
ANISOU10041	HG21	VAL D 31	6430	6690	6430	-1150	980	-440	H0
ATOM 10042	HG22	VAL D 31	-15.826	19.971	18.282	1.00	51.63		H0

ANISOU10042	HG22	VAL D 31	6310	6840	6470	-1150	990	-490	H0
ATOM 10043	HG23	VAL D 31	-15.541	21.329	17.509	1.00	52.70		H0
ANISOU10043	HG23	VAL D 31	6490	6890	6640	-1270	1040	-440	H0
ATOM 10044	N	SER D 32	-18.318	23.883	21.039	1.00	53.09		N0
ANISOU10044	N	SER D 32	6710	6660	6800	-1220	810	-650	N0
ATOM 10045	CA	SER D 32	-18.546	24.588	22.327	1.00	54.45		C0
ANISOU10045	CA	SER D 32	6900	6790	7000	-1230	750	-760	C0
ATOM 10046	C	SER D 32	-19.549	23.784	23.161	1.00	53.66		C0
ANISOU10046	C	SER D 32	6770	6780	6840	-1100	700	-780	C0
ATOM 10047	O	SER D 32	-20.739	23.764	22.786	1.00	53.91		O0
ANISOU10047	O	SER D 32	6870	6770	6840	-1000	700	-730	O0
ATOM 10048	CB	SER D 32	-19.037	25.995	22.082	1.00	56.06		C0
ANISOU10048	CB	SER D 32	7240	6800	7270	-1250	770	-760	C0
ATOM 10049	OG	SER D 32	-19.418	26.629	23.297	1.00	56.52		O0
ANISOU10049	OG	SER D 32	7330	6810	7340	-1230	730	-880	O0
ATOM 10050	H	SER D 32	-19.076	23.476	20.738	1.00	52.47		H0
ANISOU10050	H	SER D 32	6670	6580	6690	-1140	800	-610	H0
ATOM 10051	HA	SER D 32	-17.684	24.630	22.819	1.00	54.95		H0
ANISOU10051	HA	SER D 32	6890	6910	7080	-1300	740	-810	H0
ATOM 10052	HB2	SER D 32	-18.328	26.515	21.647	1.00	56.75		H0
ANISOU10052	HB2	SER D 32	7330	6830	7400	-1350	810	-750	H0
ATOM 10053	HB3	SER D 32	-19.810	25.967	21.473	1.00	55.53		H0
ANISOU10053	HB3	SER D 32	7230	6690	7180	-1180	780	-690	H0
ATOM 10054	N	LEU D 33	-19.093	23.128	24.232	1.00	53.23		N0
ANISOU10054	N	LEU D 33	6620	6860	6750	-1090	660	-850	N0
ATOM 10055	CA	LEU D 33	-19.992	22.436	25.194	1.00	51.95		C0
ANISOU10055	CA	LEU D 33	6430	6790	6520	-980	620	-860	C0
ATOM 10056	C	LEU D 33	-20.582	23.478	26.147	1.00	53.01		C0
ANISOU10056	C	LEU D 33	6620	6870	6650	-960	590	-960	C0
ATOM 10057	O	LEU D 33	-19.798	24.245	26.754	1.00	55.01		O0
ANISOU10057	O	LEU D 33	6870	7100	6930	-1050	570	-1070	O0
ATOM 10058	CB	LEU D 33	-19.230	21.357	25.966	1.00	51.74		C0
ANISOU10058	CB	LEU D 33	6290	6930	6440	-970	590	-870	C0
ATOM 10059	CG	LEU D 33	-18.661	20.201	25.144	1.00	51.35		C0
ANISOU10059	CG	LEU D 33	6190	6930	6390	-960	620	-790	C0
ATOM 10060	CD1	LEU D 33	-18.573	18.942	25.996	1.00	50.96		C0
ANISOU10060	CD1	LEU D 33	6060	7010	6290	-880	590	-760	C0
ATOM 10061	CD2	LEU D 33	-19.479	19.933	23.886	1.00	50.98		C0
ANISOU10061	CD2	LEU D 33	6230	6790	6350	-930	660	-710	C0
ATOM 10062	H	LEU D 33	-18.207	23.065	24.435	1.00	53.56		H0
ANISOU10062	H	LEU D 33	6600	6960	6800	-1150	660	-870	H0
ATOM 10063	HA	LEU D 33	-20.725	22.022	24.690	1.00	51.45		H0
ANISOU10063	HA	LEU D 33	6400	6710	6440	-920	630	-800	H0
ATOM 10064	HB2	LEU D 33	-18.491	21.788	26.440	1.00	52.51		H0
ANISOU10064	HB2	LEU D 33	6340	7050	6550	-1030	570	-940	H0
ATOM 10065	HB3	LEU D 33	-19.833	20.987	26.642	1.00	51.48		H0
ANISOU10065	HB3	LEU D 33	6250	6950	6370	-910	560	-880	H0
ATOM 10066	HG	LEU D 33	-17.746	20.445	24.863	1.00	51.87		H0
ANISOU10066	HG	LEU D 33	6220	7000	6490	-1020	640	-800	H0
ATOM 10067	HD11	LEU D 33	-18.417	19.188	26.925	1.00	51.39		H0
ANISOU10067	HD11	LEU D 33	6080	7130	6320	-890	550	-810	H0
ATOM 10068	HD12	LEU D 33	-17.839	18.388	25.683	1.00	51.00		H0
ANISOU10068	HD12	LEU D 33	6020	7060	6300	-880	610	-730	H0
ATOM 10069	HD13	LEU D 33	-19.407	18.445	25.930	1.00	50.37		H0

ANISOU10069	HD13	LEU D 33	6030	6920	6190	-830	590	-720	H0
ATOM	10070	HD21	LEU D 33	-20.421	19.864	24.120	1.00	50.49	H0
ANISOU10070	HD21	LEU D 33	6200	6720	6260	-880	640	-700	H0
ATOM	10071	HD22	LEU D 33	-19.187	19.101	23.480	1.00	50.54	H0
ANISOU10071	HD22	LEU D 33	6150	6770	6280	-910	680	-670	H0
ATOM	10072	HD23	LEU D 33	-19.354	20.662	23.253	1.00	51.22	H0
ANISOU10072	HD23	LEU D 33	6300	6750	6410	-980	680	-700	H0
ATOM	10073	N	LYS D 34	-21.911	23.517	26.240	1.00	51.60	N0
ANISOU10073	N	LYS D 34	6500	6660	6450	-850	590	-940	N0
ATOM	10074	CA	LYS D 34	-22.672	24.355	27.203	1.00	51.99	C0
ANISOU10074	CA	LYS D 34	6600	6680	6480	-790	580	-1040	C0
ATOM	10075	C	LYS D 34	-23.361	23.418	28.199	1.00	49.08	C0
ANISOU10075	C	LYS D 34	6150	6480	6010	-700	550	-1030	C0
ATOM	10076	O	LYS D 34	-24.317	22.731	27.796	1.00	47.15	O0
ANISOU10076	O	LYS D 34	5890	6280	5740	-620	560	-940	O0
ATOM	10077	CB	LYS D 34	-23.676	25.235	26.449	1.00	53.89	C0
ANISOU10077	CB	LYS D 34	6940	6770	6760	-710	610	-990	C0
ATOM	10078	CG	LYS D 34	-24.142	26.468	27.206	1.00	57.15	C0
ANISOU10078	CG	LYS D 34	7440	7080	7190	-660	620	-1110	C0
ATOM	10079	CD	LYS D 34	-23.105	27.577	27.243	1.00	60.37	C0
ANISOU10079	CD	LYS D 34	7930	7330	7680	-790	630	-1210	C0
ATOM	10080	CE	LYS D 34	-23.198	28.442	28.482	1.00	62.58	C0
ANISOU10080	CE	LYS D 34	8270	7570	7940	-770	610	-1380	C0
ATOM	10081	NZ	LYS D 34	-22.180	29.521	28.470	1.00	65.35	N0
ANISOU10081	NZ	LYS D 34	8710	7740	8380	-920	620	-1490	N0
ATOM	10082	H	LYS D 34	-22.449	23.016	25.702	1.00	51.10	H0
ANISOU10082	H	LYS D 34	6440	6610	6370	-810	600	-870	H0
ATOM	10083	HA	LYS D 34	-22.040	24.932	27.690	1.00	52.73	H0
ANISOU10083	HA	LYS D 34	6700	6750	6590	-850	570	-1130	H0
ATOM	10084	HB2	LYS D 34	-23.264	25.523	25.608	1.00	54.06	H0
ANISOU10084	HB2	LYS D 34	7000	6700	6830	-770	630	-950	H0
ATOM	10085	HB3	LYS D 34	-24.460	24.693	26.226	1.00	53.27	H0
ANISOU10085	HB3	LYS D 34	6840	6750	6650	-640	610	-930	H0
ATOM	10086	HG2	LYS D 34	-24.957	26.807	26.781	1.00	57.29	H0
ANISOU10086	HG2	LYS D 34	7510	7030	7230	-570	640	-1060	H0
ATOM	10087	HG3	LYS D 34	-24.367	26.210	28.125	1.00	57.17	H0
ANISOU10087	HG3	LYS D 34	7400	7180	7140	-620	600	-1170	H0
ATOM	10088	HD2	LYS D 34	-22.209	27.180	27.201	1.00	59.79	H0
ANISOU10088	HD2	LYS D 34	7800	7310	7600	-890	610	-1210	H0
ATOM	10089	HD3	LYS D 34	-23.218	28.145	26.451	1.00	60.49	H0
ANISOU10089	HD3	LYS D 34	8020	7210	7750	-790	650	-1150	H0
ATOM	10090	HE2	LYS D 34	-24.085	28.844	28.535	1.00	63.07	H0
ANISOU10090	HE2	LYS D 34	8390	7570	8000	-650	640	-1390	H0
ATOM	10091	HE3	LYS D 34	-23.066	27.891	29.276	1.00	62.41	H0
ANISOU10091	HE3	LYS D 34	8170	7690	7850	-760	580	-1430	H0
ATOM	10092	HZ1	LYS D 34	-21.349	29.159	28.440	1.00	64.74	H0
ANISOU10092	HZ1	LYS D 34	8560	7740	8300	-1030	600	-1490	H0
ATOM	10093	HZ2	LYS D 34	-22.258	30.025	29.220	1.00	66.01	H0
ANISOU10093	HZ2	LYS D 34	8840	7800	8440	-910	610	-1610	H0
ATOM	10094	HZ3	LYS D 34	-22.301	30.049	27.743	1.00	65.38	H0
ANISOU10094	HZ3	LYS D 34	8790	7600	8450	-930	650	-1430	H0
ATOM	10095	N	PHE D 35	-22.879	23.366	29.442	1.00	47.69	N0
ANISOU10095	N	PHE D 35	5930	6420	5780	-710	520	-1130	N0
ATOM	10096	CA	PHE D 35	-23.382	22.422	30.476	1.00	46.25	C0

ANISOU10096	CA	PHE D 35	5670	6420	5490	-630	500	-1110	C0
ATOM 10097	C	PHE D 35	-24.727	22.927	30.995	1.00	45.12		C0
ANISOU10097	C	PHE D 35	5560	6280	5300	-520	530	-1140	C0
ATOM 10098	O	PHE D 35	-24.827	24.096	31.409	1.00	46.37		O0
ANISOU10098	O	PHE D 35	5790	6350	5470	-500	530	-1260	O0
ATOM 10099	CB	PHE D 35	-22.337	22.195	31.571	1.00	46.88		C0
ANISOU10099	CB	PHE D 35	5680	6640	5500	-680	460	-1190	C0
ATOM 10100	CG	PHE D 35	-21.115	21.480	31.057	1.00	45.88		C0
ANISOU10100	CG	PHE D 35	5480	6540	5410	-760	440	-1120	C0
ATOM 10101	CD1	PHE D 35	-21.070	20.095	31.013	1.00	44.83		C0
ANISOU10101	CD1	PHE D 35	5280	6510	5240	-710	440	-1000	C0
ATOM 10102	CD2	PHE D 35	-20.031	22.190	30.571	1.00	46.29		C0
ANISOU10102	CD2	PHE D 35	5530	6520	5530	-870	430	-1180	C0
ATOM 10103	CE1	PHE D 35	-19.956	19.437	30.515	1.00	44.52		C0
ANISOU10103	CE1	PHE D 35	5180	6500	5240	-760	440	-950	C0
ATOM 10104	CE2	PHE D 35	-18.919	21.530	30.071	1.00	46.28		C0
ANISOU10104	CE2	PHE D 35	5450	6570	5560	-930	430	-1120	C0
ATOM 10105	CZ	PHE D 35	-18.884	20.156	30.043	1.00	45.02		C0
ANISOU10105	CZ	PHE D 35	5220	6520	5370	-860	430	-1010	C0
ATOM 10106	H	PHE D 35	-22.211	23.905	29.749	1.00	48.61		H0
ANISOU10106	H	PHE D 35	6050	6510	5910	-770	510	-1210	H0
ATOM 10107	HA	PHE D 35	-23.541	21.551	30.032	1.00	45.29		H0
ANISOU10107	HA	PHE D 35	5510	6330	5370	-620	510	-1010	H0
ATOM 10108	HB2	PHE D 35	-22.072	23.063	31.941	1.00	47.70		H0
ANISOU10108	HB2	PHE D 35	5820	6700	5610	-720	440	-1300	H0
ATOM 10109	HB3	PHE D 35	-22.742	21.667	32.290	1.00	46.74		H0
ANISOU10109	HB3	PHE D 35	5620	6730	5410	-620	450	-1170	H0
ATOM 10110	HD1	PHE D 35	-21.805	19.596	31.332	1.00	44.56		H0
ANISOU10110	HD1	PHE D 35	5240	6520	5170	-650	450	-960	H0
ATOM 10111	HD2	PHE D 35	-20.050	23.134	30.583	1.00	47.09		H0
ANISOU10111	HD2	PHE D 35	5690	6530	5670	-910	440	-1260	H0
ATOM 10112	HE1	PHE D 35	-19.935	18.494	30.500	1.00	44.15		H0
ANISOU10112	HE1	PHE D 35	5100	6500	5180	-710	440	-870	H0
ATOM 10113	HE2	PHE D 35	-18.183	22.027	29.753	1.00	46.68		H0
ANISOU10113	HE2	PHE D 35	5490	6590	5660	-1020	430	-1160	H0
ATOM 10114	HZ	PHE D 35	-18.122	19.708	29.710	1.00	45.16		H0
ANISOU10114	HZ	PHE D 35	5190	6570	5400	-880	440	-970	H0
ATOM 10115	N	ILE D 36	-25.740	22.061	30.916	1.00	43.48		N0
ANISOU10115	N	ILE D 36	5310	6150	5060	-450	540	-1030	N0
ATOM 10116	CA	ILE D 36	-27.142	22.344	31.338	1.00	43.25		C0
ANISOU10116	CA	ILE D 36	5280	6170	4980	-330	570	-1030	C0
ATOM 10117	C	ILE D 36	-27.388	21.694	32.700	1.00	43.13		C0
ANISOU10117	C	ILE D 36	5190	6360	4840	-280	570	-1040	C0
ATOM 10118	O	ILE D 36	-28.122	22.288	33.507	1.00	43.76		O0
ANISOU10118	O	ILE D 36	5270	6500	4860	-190	600	-1120	O0
ATOM 10119	CB	ILE D 36	-28.153	21.847	30.289	1.00	42.23		C0
ANISOU10119	CB	ILE D 36	5130	6030	4890	-300	590	-890	C0
ATOM 10120	CG1	ILE D 36	-27.756	22.245	28.863	1.00	41.98		C0
ANISOU10120	CG1	ILE D 36	5160	5830	4960	-350	580	-860	C0
ATOM 10121	CG2	ILE D 36	-29.556	22.321	30.639	1.00	43.20		C0
ANISOU10121	CG2	ILE D 36	5230	6210	4980	-170	620	-890	C0
ATOM 10122	CD1	ILE D 36	-27.511	23.726	28.658	1.00	42.63		C0
ANISOU10122	CD1	ILE D 36	5350	5750	5100	-330	600	-950	C0
ATOM 10123	H	ILE D 36	-25.635	21.222	30.577	1.00	42.81		H0

ANISOU10123	H	ILE D 36	5190	6100	4970	-470	540	-950	H0
ATOM 10124	HA	ILE D 36	-27.248	23.307	31.435	1.00	44.03		H0
ANISOU10124	HA	ILE D 36	5430	6190	5100	-290	580	-1110	H0
ATOM 10125	HB	ILE D 36	-28.155	20.859	30.328	1.00	41.76		H0
ANISOU10125	HB	ILE D 36	5010	6050	4810	-330	580	-820	H0
ATOM 10126	HG12	ILE D 36	-26.942	21.757	28.618	1.00	41.33		H0
ANISOU10126	HG12	ILE D 36	5070	5740	4890	-430	570	-840	H0
ATOM 10127	HG13	ILE D 36	-28.468	21.961	28.251	1.00	41.57		H0
ANISOU10127	HG13	ILE D 36	5090	5790	4910	-330	590	-780	H0
ATOM 10128	HG21	ILE D 36	-29.882	21.834	31.416	1.00	43.33		H0
ANISOU10128	HG21	ILE D 36	5180	6360	4920	-140	630	-890	H0
ATOM 10129	HG22	ILE D 36	-30.151	22.163	29.887	1.00	42.87		H0
ANISOU10129	HG22	ILE D 36	5170	6150	4970	-150	620	-820	H0
ATOM 10130	HG23	ILE D 36	-29.538	23.273	30.841	1.00	43.96		H0
ANISOU10130	HG23	ILE D 36	5380	6230	5090	-120	640	-980	H0
ATOM 10131	HD11	ILE D 36	-28.338	24.217	28.806	1.00	43.35		H0
ANISOU10131	HD11	ILE D 36	5450	5830	5190	-240	620	-950	H0
ATOM 10132	HD12	ILE D 36	-27.202	23.880	27.750	1.00	42.50		H0
ANISOU10132	HD12	ILE D 36	5370	5640	5140	-380	600	-900	H0
ATOM 10133	HD13	ILE D 36	-26.834	24.036	29.284	1.00	43.19		H0
ANISOU10133	HD13	ILE D 36	5430	5810	5160	-370	590	-1040	H0
ATOM 10134	N	ASN D 37	-26.826	20.508	32.942	1.00	42.08		N0
ANISOU10134	N	ASN D 37	4990	6330	4670	-340	550	-960	N0
ATOM 10135	CA	ASN D 37	-27.076	19.784	34.211	1.00	42.42		C0
ANISOU10135	CA	ASN D 37	4960	6570	4590	-300	550	-940	C0
ATOM 10136	C	ASN D 37	-25.938	18.802	34.491	1.00	42.19		C0
ANISOU10136	C	ASN D 37	4890	6600	4530	-360	510	-880	C0
ATOM 10137	O	ASN D 37	-25.272	18.377	33.538	1.00	40.71		O0
ANISOU10137	O	ASN D 37	4710	6320	4440	-420	500	-830	O0
ATOM 10138	CB	ASN D 37	-28.449	19.105	34.200	1.00	41.88		C0
ANISOU10138	CB	ASN D 37	4840	6580	4490	-240	590	-810	C0
ATOM 10139	CG	ASN D 37	-29.153	19.189	35.536	1.00	42.66		C0
ANISOU10139	CG	ASN D 37	4890	6860	4450	-160	630	-840	C0
ATOM 10140	OD1	ASN D 37	-28.525	19.036	36.578	1.00	43.72		O0
ANISOU10140	OD1	ASN D 37	5010	7120	4480	-150	610	-880	O0
ATOM 10141	ND2	ASN D 37	-30.452	19.440	35.518	1.00	42.87		N0
ANISOU10141	ND2	ASN D 37	4880	6940	4470	-80	680	-820	N0
ATOM 10142	H	ASN D 37	-26.280	20.076	32.355	1.00	41.51		H0
ANISOU10142	H	ASN D 37	4920	6210	4650	-390	530	-910	H0
ATOM 10143	HA	ASN D 37	-27.085	20.450	34.938	1.00	43.28		H0
ANISOU10143	HA	ASN D 37	5090	6720	4640	-260	550	-1040	H0
ATOM 10144	HB2	ASN D 37	-29.008	19.528	33.517	1.00	41.71		H0
ANISOU10144	HB2	ASN D 37	4840	6480	4530	-220	610	-810	H0
ATOM 10145	HB3	ASN D 37	-28.336	18.163	33.958	1.00	41.32		H0
ANISOU10145	HB3	ASN D 37	4740	6520	4430	-280	590	-710	H0
ATOM 10146	HD21	ASN D 37	-30.821	19.909	36.170	1.00	43.83		H0
ANISOU10146	HD21	ASN D 37	5000	7130	4520	-10	710	-880	H0
ATOM 10147	HD22	ASN D 37	-30.951	19.138	34.853	1.00	42.48		H0
ANISOU10147	HD22	ASN D 37	4810	6860	4470	-100	690	-740	H0
ATOM 10148	N	ILE D 38	-25.714	18.536	35.780	1.00	43.62		N0
ANISOU10148	N	ILE D 38	5030	6960	4590	-320	490	-900	N0
ATOM 10149	CA	ILE D 38	-24.877	17.427	36.322	1.00	44.43		C0
ANISOU10149	CA	ILE D 38	5070	7180	4630	-340	460	-810	C0
ATOM 10150	C	ILE D 38	-25.805	16.619	37.228	1.00	45.76		C0

ANISOU10150	C	ILE D 38	5200	7510	4680	-270	500	-690	C0
ATOM 10151	O	ILE D 38	-26.254	17.176	38.256	1.00	46.52		O0
ANISOU10151	O	ILE D 38	5280	7740	4650	-220	510	-770	O0
ATOM 10152	CB	ILE D 38	-23.646	17.970	37.078	1.00	45.66		C0
ANISOU10152	CB	ILE D 38	5210	7420	4720	-360	400	-930	C0
ATOM 10153	CG1	ILE D 38	-22.790	18.878	36.189	1.00	45.55		C0
ANISOU10153	CG1	ILE D 38	5230	7250	4820	-450	370	-1040	C0
ATOM 10154	CG2	ILE D 38	-22.835	16.828	37.672	1.00	45.90		C0
ANISOU10154	CG2	ILE D 38	5160	7600	4680	-350	360	-810	C0
ATOM 10155	CD1	ILE D 38	-21.659	19.580	36.908	1.00	46.79		C0
ANISOU10155	CD1	ILE D 38	5360	7500	4920	-500	300	-1190	C0
ATOM 10156	H	ILE D 38	-26.076	19.048	36.440	1.00	44.43		H0
ANISOU10156	H	ILE D 38	5140	7130	4620	-280	500	-970	H0
ATOM 10157	HA	ILE D 38	-24.576	16.865	35.587	1.00	43.75		H0
ANISOU10157	HA	ILE D 38	4990	7010	4620	-370	460	-730	H0
ATOM 10158	HB	ILE D 38	-23.979	18.521	37.829	1.00	46.48		H0
ANISOU10158	HB	ILE D 38	5320	7610	4730	-330	400	-1010	H0
ATOM 10159	HG12	ILE D 38	-22.410	18.337	35.464	1.00	44.76		H0
ANISOU10159	HG12	ILE D 38	5120	7090	4800	-470	370	-960	H0
ATOM 10160	HG13	ILE D 38	-23.368	19.556	35.783	1.00	45.34		H0
ANISOU10160	HG13	ILE D 38	5260	7120	4840	-450	400	-1090	H0
ATOM 10161	HG21	ILE D 38	-23.370	16.354	38.332	1.00	46.35		H0
ANISOU10161	HG21	ILE D 38	5210	7760	4650	-300	380	-750	H0
ATOM 10162	HG22	ILE D 38	-22.037	17.180	38.101	1.00	46.66		H0
ANISOU10162	HG22	ILE D 38	5230	7770	4730	-370	310	-890	H0
ATOM 10163	HG23	ILE D 38	-22.575	16.211	36.965	1.00	45.20		H0
ANISOU10163	HG23	ILE D 38	5070	7430	4670	-360	370	-730	H0
ATOM 10164	HD11	ILE D 38	-21.975	19.911	37.767	1.00	47.69		H0
ANISOU10164	HD11	ILE D 38	5480	7710	4940	-470	290	-1260	H0
ATOM 10165	HD12	ILE D 38	-21.345	20.327	36.370	1.00	46.82		H0
ANISOU10165	HD12	ILE D 38	5400	7380	5000	-570	300	-1270	H0
ATOM 10166	HD13	ILE D 38	-20.926	18.956	37.052	1.00	46.89		H0
ANISOU10166	HD13	ILE D 38	5310	7590	4910	-510	270	-1130	H0
ATOM 10167	N	LEU D 39	-26.122	15.386	36.832	1.00	46.65		N0
ANISOU10167	N	LEU D 39	5300	7590	4840	-290	520	-520	N0
ATOM 10168	CA	LEU D 39	-27.261	14.613	37.391	1.00	49.22		C0
ANISOU10168	CA	LEU D 39	5590	8020	5090	-260	580	-390	C0
ATOM 10169	C	LEU D 39	-26.757	13.585	38.403	1.00	51.68		C0
ANISOU10169	C	LEU D 39	5870	8480	5290	-240	570	-270	C0
ATOM 10170	O	LEU D 39	-27.346	13.510	39.496	1.00	53.32		O0
ANISOU10170	O	LEU D 39	6040	8860	5360	-190	600	-230	O0
ATOM 10171	CB	LEU D 39	-28.018	13.948	36.241	1.00	48.43		C0
ANISOU10171	CB	LEU D 39	5510	7790	5110	-320	610	-290	C0
ATOM 10172	CG	LEU D 39	-28.681	14.924	35.273	1.00	48.12		C0
ANISOU10172	CG	LEU D 39	5490	7640	5160	-330	620	-380	C0
ATOM 10173	CD1	LEU D 39	-29.292	14.185	34.102	1.00	48.07		C0
ANISOU10173	CD1	LEU D 39	5490	7520	5250	-400	630	-280	C0
ATOM 10174	CD2	LEU D 39	-29.736	15.764	35.982	1.00	49.06		C0
ANISOU10174	CD2	LEU D 39	5560	7880	5190	-250	660	-440	C0
ATOM 10175	H	LEU D 39	-25.656	14.942	36.188	1.00	46.20		H0
ANISOU10175	H	LEU D 39	5250	7450	4850	-320	510	-480	H0
ATOM 10176	HA	LEU D 39	-27.861	15.238	37.857	1.00	49.66		H0
ANISOU10176	HA	LEU D 39	5630	8150	5080	-220	600	-450	H0
ATOM 10177	HB2	LEU D 39	-27.392	13.386	35.740	1.00	48.01		H0

ANISOU10177	HB2 LEU D 39	5480	7640	5120	-350	590	-240	H0
ATOM 10178	HB3 LEU D 39	-28.706	13.364	36.618	1.00	48.94		H0
ANISOU10178	HB3 LEU D 39	5540	7920	5140	-320	640	-190	H0
ATOM 10179	HG LEU D 39	-27.986	15.534	34.923	1.00	47.85		H0
ANISOU10179	HG LEU D 39	5490	7530	5160	-330	590	-470	H0
ATOM 10180	HD11 LEU D 39	-28.612	13.636	33.673	1.00	47.42		H0
ANISOU10180	HD11 LEU D 39	5440	7360	5220	-440	610	-250	H0
ATOM 10181	HD12 LEU D 39	-29.643	14.826	33.460	1.00	47.52		H0
ANISOU10181	HD12 LEU D 39	5430	7390	5230	-400	630	-330	H0
ATOM 10182	HD13 LEU D 39	-30.014	13.617	34.419	1.00	48.29		H0
ANISOU10182	HD13 LEU D 39	5480	7620	5250	-410	660	-190	H0
ATOM 10183	HD21 LEU D 39	-30.311	15.184	36.511	1.00	49.58		H0
ANISOU10183	HD21 LEU D 39	5580	8060	5200	-250	690	-350	H0
ATOM 10184	HD22 LEU D 39	-30.271	16.236	35.322	1.00	48.75		H0
ANISOU10184	HD22 LEU D 39	5530	7780	5210	-250	670	-470	H0
ATOM 10185	HD23 LEU D 39	-29.301	16.409	36.566	1.00	49.51		H0
ANISOU10185	HD23 LEU D 39	5630	7980	5190	-210	640	-540	H0
ATOM 10186	N GLU D 40	-25.728	12.818	38.044	1.00	52.80		N0
ANISOU10186	N GLU D 40	6020	8550	5490	-250	530	-200	N0
ATOM 10187	CA GLU D 40	-25.161	11.759	38.915	1.00	55.30		C0
ANISOU10187	CA GLU D 40	6320	8980	5720	-210	520	-50	C0
ATOM 10188	C GLU D 40	-23.639	11.866	38.880	1.00	54.83		C0
ANISOU10188	C GLU D 40	6230	8930	5670	-180	450	-110	C0
ATOM 10189	O GLU D 40	-23.071	11.989	37.774	1.00	54.55		O0
ANISOU10189	O GLU D 40	6220	8730	5770	-220	430	-160	O0
ATOM 10190	CB GLU D 40	-25.619	10.367	38.477	1.00	57.66		C0
ANISOU10190	CB GLU D 40	6650	9160	6100	-230	570	140	C0
ATOM 10191	CG GLU D 40	-25.323	9.294	39.512	1.00	61.27		C0
ANISOU10191	CG GLU D 40	7100	9730	6450	-170	570	320	C0
ATOM 10192	CD GLU D 40	-25.961	7.942	39.238	1.00	63.36		C0
ANISOU10192	CD GLU D 40	7420	9870	6780	-220	630	520	C0
ATOM 10193	OE1 GLU D 40	-27.211	7.882	39.134	1.00	64.54		O0
ANISOU10193	OE1 GLU D 40	7560	10020	6940	-290	690	560	O0
ATOM 10194	OE2 GLU D 40	-25.208	6.951	39.123	1.00	64.77		O0
ANISOU10194	OE2 GLU D 40	7640	9960	7010	-180	630	640	O0
ATOM 10195	H GLU D 40	-25.307	12.902	37.242	1.00	52.04		H0
ANISOU10195	H GLU D 40	5950	8330	5490	-280	520	-230	H0
ATOM 10196	HA GLU D 40	-25.467	11.917	39.837	1.00	56.23		H0
ANISOU10196	HA GLU D 40	6400	9250	5720	-170	520	-50	H0
ATOM 10197	HB2 GLU D 40	-26.584	10.392	38.308	1.00	57.43		H0
ANISOU10197	HB2 GLU D 40	6620	9110	6080	-270	610	160	H0
ATOM 10198	HB3 GLU D 40	-25.170	10.136	37.638	1.00	56.87		H0
ANISOU10198	HB3 GLU D 40	6580	8920	6100	-260	560	140	H0
ATOM 10199	HG2 GLU D 40	-24.352	9.169	39.570	1.00	61.32		H0
ANISOU10199	HG2 GLU D 40	7090	9750	6450	-130	530	320	H0
ATOM 10200	HG3 GLU D 40	-25.631	9.607	40.389	1.00	61.91		H0
ANISOU10200	HG3 GLU D 40	7140	9980	6410	-150	580	320	H0
ATOM 10201	N VAL D 41	-23.020	11.838	40.058	1.00	54.35		N0
ANISOU10201	N VAL D 41	6120	9070	5460	-130	400	-90	N0
ATOM 10202	CA VAL D 41	-21.544	11.846	40.237	1.00	54.37		C0
ANISOU10202	CA VAL D 41	6060	9150	5440	-100	320	-120	C0
ATOM 10203	C VAL D 41	-21.190	10.692	41.177	1.00	55.40		C0
ANISOU10203	C VAL D 41	6160	9430	5460	0	300	70	C0
ATOM 10204	O VAL D 41	-21.854	10.552	42.228	1.00	56.25		O0

ANISOU10204 O VAL D 41	6260	9700	5410	30	320	140	O0
ATOM 10205 CB VAL D 41	-21.069	13.215	40.762	1.00	55.75		C0
ANISOU10205 CB VAL D 41	6200	9460	5530	-130	250	-340	C0
ATOM 10206 CG1 VAL D 41	-19.628	13.180	41.228	1.00	57.00		C0
ANISOU10206 CG1 VAL D 41	6260	9770	5620	-110	160	-360	C0
ATOM 10207 CG2 VAL D 41	-21.260	14.308	39.719	1.00	54.88		C0
ANISOU10207 CG2 VAL D 41	6140	9160	5560	-220	270	-510	C0
ATOM 10208 H VAL D 41	-23.476	11.814	40.847	1.00	55.42		H0
ANISOU10208 H VAL D 41	6240	9330	5480	-100	410	-70	H0
ATOM 10209 HA VAL D 41	-21.125	11.683	39.373	1.00	53.80		H0
ANISOU10209 HA VAL D 41	6010	8950	5490	-120	320	-120	H0
ATOM 10210 HB VAL D 41	-21.631	13.441	41.542	1.00	56.36		H0
ANISOU10210 HB VAL D 41	6280	9650	5490	-110	260	-360	H0
ATOM 10211 HG11 VAL D 41	-19.570	12.717	42.082	1.00	58.03		H0
ANISOU10211 HG11 VAL D 41	6360	10060	5630	-50	140	-280	H0
ATOM 10212 HG12 VAL D 41	-19.298	14.089	41.330	1.00	57.22		H0
ANISOU10212 HG12 VAL D 41	6270	9830	5630	-160	120	-520	H0
ATOM 10213 HG13 VAL D 41	-19.091	12.714	40.567	1.00	56.45		H0
ANISOU10213 HG13 VAL D 41	6180	9610	5660	-100	160	-300	H0
ATOM 10214 HG21 VAL D 41	-20.613	14.190	39.002	1.00	54.25		H0
ANISOU10214 HG21 VAL D 41	6050	8990	5580	-240	260	-510	H0
ATOM 10215 HG22 VAL D 41	-21.130	15.177	40.134	1.00	55.31		H0
ANISOU10215 HG22 VAL D 41	6180	9280	5550	-240	240	-650	H0
ATOM 10216 HG23 VAL D 41	-22.160	14.257	39.354	1.00	54.09		H0
ANISOU10216 HG23 VAL D 41	6080	8970	5500	-220	320	-480	H0
ATOM 10217 N ASN D 42	-20.211	9.876	40.789	1.00	54.72		N0
ANISOU10217 N ASN D 42	6060	9290	5440	50	280	180	N0
ATOM 10218 CA ASN D 42	-19.745	8.708	41.578	1.00	56.19		C0
ANISOU10218 CA ASN D 42	6220	9590	5540	170	270	390	C0
ATOM 10219 C ASN D 42	-18.238	8.852	41.809	1.00	57.30		C0
ANISOU10219 C ASN D 42	6250	9880	5640	230	170	360	C0
ATOM 10220 O ASN D 42	-17.468	8.689	40.844	1.00	56.16		O0
ANISOU10220 O ASN D 42	6090	9610	5640	240	170	340	O0
ATOM 10221 CB ASN D 42	-20.115	7.389	40.899	1.00	55.41		C0
ANISOU10221 CB ASN D 42	6210	9260	5580	190	350	580	C0
ATOM 10222 CG ASN D 42	-19.942	6.198	41.816	1.00	57.04		C0
ANISOU10222 CG ASN D 42	6430	9560	5690	310	360	830	C0
ATOM 10223 OD1 ASN D 42	-19.100	6.218	42.710	1.00	57.70		O0
ANISOU10223 OD1 ASN D 42	6430	9870	5630	410	280	870	O0
ATOM 10224 ND2 ASN D 42	-20.733	5.160	41.607	1.00	57.44		N0
ANISOU10224 ND2 ASN D 42	6580	9430	5810	300	440	1000	N0
ATOM 10225 H ASN D 42	-19.762	9.988	40.004	1.00	54.20		H0
ANISOU10225 H ASN D 42	5990	9110	5490	30	280	130	H0
ATOM 10226 HA ASN D 42	-20.197	8.727	42.453	1.00	56.98		H0
ANISOU10226 HA ASN D 42	6310	9830	5510	190	270	430	H0
ATOM 10227 HB2 ASN D 42	-21.048	7.435	40.607	1.00	54.81		H0
ANISOU10227 HB2 ASN D 42	6190	9090	5540	130	400	570	H0
ATOM 10228 HB3 ASN D 42	-19.555	7.270	40.107	1.00	54.93		H0
ANISOU10228 HB3 ASN D 42	6160	9080	5630	200	350	550	H0
ATOM 10229 HD21 ASN D 42	-20.789	4.517	42.211	1.00	58.55		H0
ANISOU10229 HD21 ASN D 42	6740	9620	5890	360	450	1150	H0
ATOM 10230 HD22 ASN D 42	-21.207	5.107	40.862	1.00	56.40		H0
ANISOU10230 HD22 ASN D 42	6510	9130	5790	230	480	960	H0
ATOM 10231 N GLU D 43	-17.849	9.145	43.051	1.00	59.35		N0

ANISOU10231	N	GLU D 43	6420	10430	5700	280	100	350	N0
ATOM 10232	CA	GLU D 43	-16.447	9.431	43.450	1.00	61.57		C0
ANISOU10232	CA	GLU D 43	6570	10920	5910	320	-20	300	C0
ATOM 10233	C	GLU D 43	-15.649	8.121	43.503	1.00	62.17		C0
ANISOU10233	C	GLU D 43	6600	11020	6000	480	-30	530	C0
ATOM 10234	O	GLU D 43	-14.426	8.178	43.285	1.00	64.16		O0
ANISOU10234	O	GLU D 43	6740	11360	6280	520	-90	510	O0
ATOM 10235	CB	GLU D 43	-16.422	10.178	44.786	1.00	64.52		C0
ANISOU10235	CB	GLU D 43	6870	11600	6040	310	-100	190	C0
ATOM 10236	CG	GLU D 43	-15.046	10.703	45.157	1.00	67.42		C0
ANISOU10236	CG	GLU D 43	7090	12210	6320	300	-240	90	C0
ATOM 10237	CD	GLU D 43	-15.023	11.783	46.227	1.00	69.93		C0
ANISOU10237	CD	GLU D 43	7360	12790	6430	230	-330	-110	C0
ATOM 10238	OE1	GLU D 43	-13.963	12.425	46.389	1.00	71.84		O0
ANISOU10238	OE1	GLU D 43	7480	13190	6630	170	-440	-250	O0
ATOM 10239	OE2	GLU D 43	-16.061	11.982	46.896	1.00	71.03		O0
ANISOU10239	OE2	GLU D 43	7580	12970	6440	230	-280	-130	O0
ATOM 10240	H	GLU D 43	-18.437	9.186	43.747	1.00	60.00		H0
ANISOU10240	H	GLU D 43	6520	10610	5670	280	110	370	H0
ATOM 10241	HA	GLU D 43	-16.046	10.007	42.762	1.00	60.74		H0
ANISOU10241	HA	GLU D 43	6440	10740	5900	250	-30	170	H0
ATOM 10242	HB2	GLU D 43	-17.049	10.929	44.736	1.00	63.84		H0
ANISOU10242	HB2	GLU D 43	6830	11470	5950	230	-80	50	H0
ATOM 10243	HB3	GLU D 43	-16.733	9.571	45.491	1.00	65.49		H0
ANISOU10243	HB3	GLU D 43	7010	11830	6050	390	-90	340	H0
ATOM 10244	HG2	GLU D 43	-14.496	9.953	45.469	1.00	68.43		H0
ANISOU10244	HG2	GLU D 43	7160	12440	6410	410	-270	240	H0
ATOM 10245	HG3	GLU D 43	-14.618	11.063	44.351	1.00	66.47		H0
ANISOU10245	HG3	GLU D 43	6940	11970	6340	240	-240	0	H0
ATOM 10246	N	ILE D 44	-16.307	6.988	43.762	1.00	61.37		N0
ANISOU10246	N	ILE D 44	6600	10830	5890	570	50	760	N0
ATOM 10247	CA	ILE D 44	-15.646	5.651	43.855	1.00	62.42		C0
ANISOU10247	CA	ILE D 44	6730	10940	6050	740	50	1010	C0
ATOM 10248	C	ILE D 44	-15.326	5.146	42.440	1.00	59.96		C0
ANISOU10248	C	ILE D 44	6470	10330	5980	750	120	1020	C0
ATOM 10249	O	ILE D 44	-14.195	4.673	42.252	1.00	60.42		O0
ANISOU10249	O	ILE D 44	6450	10420	6080	880	90	1090	O0
ATOM 10250	CB	ILE D 44	-16.491	4.651	44.680	1.00	64.26		C0
ANISOU10250	CB	ILE D 44	7060	11170	6190	810	110	1260	C0
ATOM 10251	CG1	ILE D 44	-16.269	4.823	46.188	1.00	67.02		C0
ANISOU10251	CG1	ILE D 44	7310	11890	6260	890	30	1330	C0
ATOM 10252	CG2	ILE D 44	-16.212	3.212	44.265	1.00	65.22		C0
ANISOU10252	CG2	ILE D 44	7270	11080	6440	950	180	1510	C0
ATOM 10253	CD1	ILE D 44	-16.553	6.212	46.717	1.00	66.87		C0
ANISOU10253	CD1	ILE D 44	7230	12090	6090	760	-30	1080	C0
ATOM 10254	H	ILE D 44	-17.206	6.961	43.903	1.00	61.15		H0
ANISOU10254	H	ILE D 44	6640	10750	5850	520	100	780	H0
ATOM 10255	HA	ILE D 44	-14.801	5.774	44.323	1.00	63.59		H0
ANISOU10255	HA	ILE D 44	6760	11290	6110	810	-30	1020	H0
ATOM 10256	HB	ILE D 44	-17.444	4.838	44.495	1.00	63.25		H0
ANISOU10256	HB	ILE D 44	7010	10940	6090	710	180	1220	H0
ATOM 10257	HG12	ILE D 44	-16.844	4.185	46.662	1.00	67.72		H0
ANISOU10257	HG12	ILE D 44	7470	11970	6290	920	80	1500	H0
ATOM 10258	HG13	ILE D 44	-15.338	4.595	46.394	1.00	68.11		H0

ANISOU10258	HG13 ILE D 44	7370	12150	6360	990	-40	1390	H0
ATOM 10259	HG21 ILE D 44	-16.626	3.033	43.403	1.00	63.94		H0
ANISOU10259	HG21 ILE D 44	7190	10670	6430	890	250	1470	H0
ATOM 10260	HG22 ILE D 44	-16.580	2.605	44.930	1.00	66.39		H0
ANISOU10260	HG22 ILE D 44	7460	11260	6500	1000	200	1680	H0
ATOM 10261	HG23 ILE D 44	-15.251	3.070	44.199	1.00	65.95		H0
ANISOU10261	HG23 ILE D 44	7280	11240	6540	1050	130	1530	H0
ATOM 10262	HD11 ILE D 44	-15.832	6.812	46.460	1.00	66.58		H0
ANISOU10262	HD11 ILE D 44	7110	12110	6080	730	-100	930	H0
ATOM 10263	HD12 ILE D 44	-16.619	6.183	47.687	1.00	68.25		H0
ANISOU10263	HD12 ILE D 44	7380	12480	6080	810	-70	1140	H0
ATOM 10264	HD13 ILE D 44	-17.392	6.536	46.346	1.00	65.47		H0
ANISOU10264	HD13 ILE D 44	7130	11770	5980	660	30	1000	H0
ATOM 10265	N THR D 45	-16.267	5.243	41.489	1.00	57.41		N0
ANISOU10265	N THR D 45	6280	9730	5810	630	210	940	N0
ATOM 10266	CA THR D 45	-16.125	4.702	40.106	1.00	55.81		C0
ANISOU10266	CA THR D 45	6160	9230	5820	630	280	940	C0
ATOM 10267	C THR D 45	-15.536	5.757	39.160	1.00	54.07		C0
ANISOU10267	C THR D 45	5860	9000	5690	540	260	710	C0
ATOM 10268	O THR D 45	-15.149	5.372	38.037	1.00	52.92		O0
ANISOU10268	O THR D 45	5760	8660	5690	560	310	700	O0
ATOM 10269	CB THR D 45	-17.454	4.180	39.537	1.00	54.76		C0
ANISOU10269	CB THR D 45	6190	8830	5780	540	390	980	C0
ATOM 10270	OG1 THR D 45	-18.319	5.282	39.268	1.00	53.26		O0
ANISOU10270	OG1 THR D 45	6010	8640	5590	370	390	800	O0
ATOM 10271	CG2 THR D 45	-18.151	3.203	40.457	1.00	56.35		C0
ANISOU10271	CG2 THR D 45	6470	9030	5910	590	420	1210	C0
ATOM 10272	H THR D 45	-17.071	5.649	41.624	1.00	56.75		H0
ANISOU10272	H THR D 45	6230	9640	5690	540	230	880	H0
ATOM 10273	HA THR D 45	-15.496	3.945	40.147	1.00	56.97		H0
ANISOU10273	HA THR D 45	6290	9370	5990	760	290	1060	H0
ATOM 10274	HB THR D 45	-17.258	3.720	38.686	1.00	54.48		H0
ANISOU10274	HB THR D 45	6220	8610	5880	550	430	990	H0
ATOM 10275	HG21 THR D 45	-17.534	2.491	40.704	1.00	57.61		H0
ANISOU10275	HG21 THR D 45	6630	9200	6060	710	420	1340	H0
ATOM 10276	HG22 THR D 45	-18.922	2.820	40.001	1.00	55.77		H0
ANISOU10276	HG22 THR D 45	6500	8770	5910	520	490	1240	H0
ATOM 10277	HG23 THR D 45	-18.448	3.667	41.260	1.00	56.60		H0
ANISOU10277	HG23 THR D 45	6460	9240	5810	560	390	1200	H0
ATOM 10278	N ASN D 46	-15.470	7.026	39.582	1.00	53.55		N0
ANISOU10278	N ASN D 46	5700	9120	5530	440	190	540	N0
ATOM 10279	CA ASN D 46	-15.005	8.165	38.743	1.00	52.27		C0
ANISOU10279	CA ASN D 46	5480	8930	5450	320	170	320	C0
ATOM 10280	C ASN D 46	-15.849	8.205	37.463	1.00	50.59		C0
ANISOU10280	C ASN D 46	5410	8420	5390	220	260	270	C0
ATOM 10281	O ASN D 46	-15.281	8.101	36.352	1.00	49.70		O0
ANISOU10281	O ASN D 46	5300	8180	5410	220	300	230	O0
ATOM 10282	CB ASN D 46	-13.505	8.081	38.446	1.00	53.38		C0
ANISOU10282	CB ASN D 46	5480	9180	5620	390	120	320	C0
ATOM 10283	CG ASN D 46	-12.647	8.824	39.450	1.00	54.73		C0
ANISOU10283	CG ASN D 46	5480	9670	5650	380	0	250	C0
ATOM 10284	OD1 ASN D 46	-12.950	9.958	39.823	1.00	54.10		O0
ANISOU10284	OD1 ASN D 46	5380	9670	5500	250	-50	80	O0
ATOM 10285	ND2 ASN D 46	-11.554	8.206	39.866	1.00	56.26		N0

ANISOU10285	ND2	ASN	D	46	5540	10050	5790	530	-50	370	N0
ATOM	10286	H	ASN	D	46	-15.712	7.275	40.423	1.00	54.15	H0
ANISOU10286	H	ASN	D	46	5750	9340	5480	430	150	540	H0
ATOM	10287	HA	ASN	D	46	-15.166	8.998	39.244	1.00	52.38	H0
ANISOU10287	HA	ASN	D	46	5460	9060	5380	250	120	220	H0
ATOM	10288	HB2	ASN	D	46	-13.240	7.140	38.439	1.00	54.05	H0
ANISOU10288	HB2	ASN	D	46	5580	9230	5730	520	150	460	H0
ATOM	10289	HB3	ASN	D	46	-13.334	8.447	37.556	1.00	52.43	H0
ANISOU10289	HB3	ASN	D	46	5370	8950	5610	330	150	230	H0
ATOM	10290	HD21	ASN	D	46	-11.164	8.457	40.619	1.00	57.50	H0
ANISOU10290	HD21	ASN	D	46	5600	10410	5840	540	-130	350	H0
ATOM	10291	HD22	ASN	D	46	-11.211	7.543	39.392	1.00	56.54	H0
ANISOU10291	HD22	ASN	D	46	5580	10000	5910	620	-10	450	H0
ATOM	10292	N	GLU	D	47	-17.167	8.308	37.634	1.00	50.17	N0
ANISOU10292	N	GLU	D	47	5450	8290	5310	150	300	270	N0
ATOM	10293	CA	GLU	D	47	-18.155	8.460	36.537	1.00	49.24	C0
ANISOU10293	CA	GLU	D	47	5450	7940	5320	50	370	210	C0
ATOM	10294	C	GLU	D	47	-19.037	9.668	36.860	1.00	48.51	C0
ANISOU10294	C	GLU	D	47	5360	7910	5160	-50	350	70	C0
ATOM	10295	O	GLU	D	47	-19.369	9.858	38.052	1.00	48.79	O0
ANISOU10295	O	GLU	D	47	5360	8120	5060	-30	320	80	O0
ATOM	10296	CB	GLU	D	47	-18.992	7.189	36.379	1.00	49.91	C0
ANISOU10296	CB	GLU	D	47	5660	7860	5450	80	440	370	C0
ATOM	10297	CG	GLU	D	47	-18.167	5.940	36.123	1.00	51.46	C0
ANISOU10297	CG	GLU	D	47	5880	7970	5710	210	470	510	C0
ATOM	10298	CD	GLU	D	47	-18.959	4.652	35.959	1.00	52.55	C0
ANISOU10298	CD	GLU	D	47	6160	7910	5900	220	540	670	C0
ATOM	10299	OE1	GLU	D	47	-20.201	4.722	35.838	1.00	53.05	O0
ANISOU10299	OE1	GLU	D	47	6290	7890	5980	100	570	660	O0
ATOM	10300	OE2	GLU	D	47	-18.329	3.577	35.937	1.00	54.52	O0
ANISOU10300	OE2	GLU	D	47	6450	8070	6200	340	560	800	O0
ATOM	10301	H	GLU	D	47	-17.550	8.290	38.461	1.00	50.81	H0
ANISOU10301	H	GLU	D	47	5530	8480	5300	170	280	310	H0
ATOM	10302	HA	GLU	D	47	-17.671	8.632	35.701	1.00	48.69	H0
ANISOU10302	HA	GLU	D	47	5380	7790	5330	30	380	150	H0
ATOM	10303	HB2	GLU	D	47	-19.520	7.060	37.194	1.00	50.44	H0
ANISOU10303	HB2	GLU	D	47	5720	8010	5430	90	440	430	H0
ATOM	10304	HB3	GLU	D	47	-19.615	7.317	35.633	1.00	48.94	H0
ANISOU10304	HB3	GLU	D	47	5600	7600	5400	0	480	320	H0
ATOM	10305	HG2	GLU	D	47	-17.636	6.077	35.309	1.00	51.03	H0
ANISOU10305	HG2	GLU	D	47	5820	7840	5730	200	480	440	H0
ATOM	10306	HG3	GLU	D	47	-17.538	5.820	36.864	1.00	52.54	H0
ANISOU10306	HG3	GLU	D	47	5940	8250	5770	290	420	570	H0
ATOM	10307	N	VAL	D	48	-19.373	10.454	35.839	1.00	47.22	N0
ANISOU10307	N	VAL	D	48	5240	7610	5100	-150	380	-60	N0
ATOM	10308	CA	VAL	D	48	-20.344	11.584	35.918	1.00	47.20	C0
ANISOU10308	CA	VAL	D	48	5260	7610	5070	-230	380	-190	C0
ATOM	10309	C	VAL	D	48	-21.416	11.378	34.844	1.00	46.52	C0
ANISOU10309	C	VAL	D	48	5270	7320	5080	-280	440	-170	C0
ATOM	10310	O	VAL	D	48	-21.106	10.772	33.802	1.00	45.93	O0
ANISOU10310	O	VAL	D	48	5240	7100	5110	-290	470	-130	O0
ATOM	10311	CB	VAL	D	48	-19.658	12.955	35.764	1.00	46.96	C0
ANISOU10311	CB	VAL	D	48	5190	7610	5050	-290	330	-370	C0
ATOM	10312	CG1	VAL	D	48	-18.579	13.159	36.809	1.00	49.06	C0

ANISOU10312	CG1 VAL D 48	5340	8090	5200	-260	260	-400	C0
ATOM 10313	CG2 VAL D 48	-19.092	13.163	34.370	1.00	46.45		C0
ANISOU10313	CG2 VAL D 48	5140	7390	5120	-350	360	-410	C0
ATOM 10314	H VAL D 48	-19.022	10.343	35.006	1.00	46.91		H0
ANISOU10314	H VAL D 48	5220	7460	5140	-160	400	-70	H0
ATOM 10315	HA VAL D 48	-20.775	11.554	36.789	1.00	47.73		H0
ANISOU10315	HA VAL D 48	5320	7780	5040	-210	370	-160	H0
ATOM 10316	HB VAL D 48	-20.350	13.646	35.911	1.00	46.98		H0
ANISOU10316	HB VAL D 48	5220	7610	5030	-330	340	-440	H0
ATOM 10317	HG11 VAL D 48	-18.944	12.982	37.693	1.00	49.49		H0
ANISOU10317	HG11 VAL D 48	5390	8260	5150	-220	240	-370	H0
ATOM 10318	HG12 VAL D 48	-18.258	14.077	36.769	1.00	48.96		H0
ANISOU10318	HG12 VAL D 48	5310	8100	5190	-320	230	-530	H0
ATOM 10319	HG13 VAL D 48	-17.839	12.551	36.636	1.00	49.15		H0
ANISOU10319	HG13 VAL D 48	5310	8120	5240	-220	250	-330	H0
ATOM 10320	HG21 VAL D 48	-18.493	12.429	34.149	1.00	46.55		H0
ANISOU10320	HG21 VAL D 48	5130	7390	5160	-300	360	-340	H0
ATOM 10321	HG22 VAL D 48	-18.600	14.001	34.344	1.00	46.54		H0
ANISOU10321	HG22 VAL D 48	5120	7430	5140	-400	330	-510	H0
ATOM 10322	HG23 VAL D 48	-19.818	13.195	33.723	1.00	45.55		H0
ANISOU10322	HG23 VAL D 48	5090	7150	5060	-370	400	-410	H0
ATOM 10323	N ASP D 49	-22.623	11.878	35.116	1.00	47.06		N0
ANISOU10323	N ASP D 49	5360	7410	5110	-320	460	-200	N0
ATOM 10324	CA ASP D 49	-23.793	11.899	34.203	1.00	46.90		C0
ANISOU10324	CA ASP D 49	5400	7250	5170	-370	510	-190	C0
ATOM 10325	C ASP D 49	-24.148	13.371	33.990	1.00	46.43		C0
ANISOU10325	C ASP D 49	5340	7190	5110	-400	500	-340	C0
ATOM 10326	O ASP D 49	-24.525	14.032	34.984	1.00	46.92		O0
ANISOU10326	O ASP D 49	5370	7380	5080	-370	490	-400	O0
ATOM 10327	CB ASP D 49	-24.944	11.094	34.810	1.00	48.93		C0
ANISOU10327	CB ASP D 49	5660	7560	5370	-370	550	-70	C0
ATOM 10328	CG ASP D 49	-25.975	10.577	33.824	1.00	49.56		C0
ANISOU10328	CG ASP D 49	5790	7500	5540	-440	590	-10	C0
ATOM 10329	OD1 ASP D 49	-26.164	11.223	32.769	1.00	51.02		O0
ANISOU10329	OD1 ASP D 49	6000	7590	5800	-490	580	-100	O0
ATOM 10330	OD2 ASP D 49	-26.603	9.541	34.134	1.00	50.77		O0
ANISOU10330	OD2 ASP D 49	5950	7650	5680	-470	620	120	O0
ATOM 10331	H ASP D 49	-22.808	12.256	35.924	1.00	47.58		H0
ANISOU10331	H ASP D 49	5390	7590	5090	-300	450	-220	H0
ATOM 10332	HA ASP D 49	-23.535	11.497	33.340	1.00	46.57		H0
ANISOU10332	HA ASP D 49	5390	7090	5210	-400	520	-170	H0
ATOM 10333	HB2 ASP D 49	-24.574	10.328	35.289	1.00	49.47		H0
ANISOU10333	HB2 ASP D 49	5720	7660	5410	-340	550	30	H0
ATOM 10334	HB3 ASP D 49	-25.413	11.655	35.459	1.00	49.17		H0
ANISOU10334	HB3 ASP D 49	5660	7690	5330	-360	550	-100	H0
ATOM 10335	N VAL D 50	-23.974	13.884	32.770	1.00	44.28		N0
ANISOU10335	N VAL D 50	5110	6780	4940	-450	500	-410	N0
ATOM 10336	CA VAL D 50	-24.122	15.337	32.472	1.00	43.73		C0
ANISOU10336	CA VAL D 50	5050	6670	4900	-470	500	-540	C0
ATOM 10337	C VAL D 50	-25.123	15.524	31.328	1.00	42.53		C0
ANISOU10337	C VAL D 50	4950	6390	4810	-500	520	-520	C0
ATOM 10338	O VAL D 50	-25.258	14.606	30.492	1.00	41.81		O0
ANISOU10338	O VAL D 50	4890	6230	4770	-530	540	-440	O0
ATOM 10339	CB VAL D 50	-22.763	15.996	32.160	1.00	44.40		C0

ANISOU10339	CB	VAL D 50	5130	6720	5020	-510	470	-630	C0
ATOM 10340	CG1	VAL D 50	-21.888	16.077	33.403	1.00	46.34		C0
ANISOU10340	CG1	VAL D 50	5310	7120	5180	-490	420	-670	C0
ATOM 10341	CG2	VAL D 50	-22.015	15.303	31.032	1.00	44.20		C0
ANISOU10341	CG2	VAL D 50	5120	6590	5080	-540	480	-570	C0
ATOM 10342	H	VAL D 50	-23.764	13.376	32.044	1.00	44.12		H0
ANISOU10342	H	VAL D 50	5110	6670	4980	-470	510	-370	H0
ATOM 10343	HA	VAL D 50	-24.490	15.770	33.262	1.00	44.34		H0
ANISOU10343	HA	VAL D 50	5110	6830	4910	-440	490	-580	H0
ATOM 10344	HB	VAL D 50	-22.949	16.922	31.868	1.00	44.50		H0
ANISOU10344	HB	VAL D 50	5170	6670	5060	-530	470	-710	H0
ATOM 10345	HG11	VAL D 50	-22.400	16.458	34.137	1.00	46.50		H0
ANISOU10345	HG11	VAL D 50	5330	7210	5130	-470	410	-720	H0
ATOM 10346	HG12	VAL D 50	-21.115	16.639	33.221	1.00	46.28		H0
ANISOU10346	HG12	VAL D 50	5290	7100	5200	-530	400	-750	H0
ATOM 10347	HG13	VAL D 50	-21.588	15.184	33.648	1.00	46.19		H0
ANISOU10347	HG13	VAL D 50	5260	7160	5130	-460	420	-590	H0
ATOM 10348	HG21	VAL D 50	-21.744	14.414	31.319	1.00	44.27		H0
ANISOU10348	HG21	VAL D 50	5100	6650	5070	-500	480	-500	H0
ATOM 10349	HG22	VAL D 50	-21.225	15.822	30.799	1.00	44.25		H0
ANISOU10349	HG22	VAL D 50	5110	6590	5120	-570	470	-630	H0
ATOM 10350	HG23	VAL D 50	-22.593	15.228	30.253	1.00	43.55		H0
ANISOU10350	HG23	VAL D 50	5080	6420	5040	-550	510	-550	H0
ATOM 10351	N	VAL D 51	-25.804	16.672	31.318	1.00	41.75		N0
ANISOU10351	N	VAL D 51	4870	6280	4710	-480	530	-600	N0
ATOM 10352	CA	VAL D 51	-26.591	17.177	30.156	1.00	41.12		C0
ANISOU10352	CA	VAL D 51	4830	6090	4700	-490	550	-600	C0
ATOM 10353	C	VAL D 51	-25.893	18.444	29.648	1.00	41.10		C0
ANISOU10353	C	VAL D 51	4880	5980	4750	-510	540	-700	C0
ATOM 10354	O	VAL D 51	-25.643	19.356	30.464	1.00	41.36		O0
ANISOU10354	O	VAL D 51	4920	6030	4760	-490	530	-800	O0
ATOM 10355	CB	VAL D 51	-28.063	17.439	30.521	1.00	41.04		C0
ANISOU10355	CB	VAL D 51	4790	6150	4650	-430	570	-580	C0
ATOM 10356	CG1	VAL D 51	-28.855	17.935	29.322	1.00	40.63		C0
ANISOU10356	CG1	VAL D 51	4770	6010	4660	-430	570	-560	C0
ATOM 10357	CG2	VAL D 51	-28.723	16.206	31.119	1.00	41.68		C0
ANISOU10357	CG2	VAL D 51	4810	6350	4670	-440	580	-470	C0
ATOM 10358	H	VAL D 51	-25.829	17.229	32.038	1.00	42.46		H0
ANISOU10358	H	VAL D 51	4950	6430	4760	-450	520	-660	H0
ATOM 10359	HA	VAL D 51	-26.564	16.507	29.455	1.00	40.59		H0
ANISOU10359	HA	VAL D 51	4780	5980	4670	-530	550	-540	H0
ATOM 10360	HB	VAL D 51	-28.076	18.151	31.208	1.00	41.75		H0
ANISOU10360	HB	VAL D 51	4880	6280	4700	-390	570	-650	H0
ATOM 10361	HG11	VAL D 51	-28.614	18.858	29.131	1.00	40.88		H0
ANISOU10361	HG11	VAL D 51	4840	5980	4710	-410	570	-620	H0
ATOM 10362	HG12	VAL D 51	-29.807	17.885	29.517	1.00	41.03		H0
ANISOU10362	HG12	VAL D 51	4780	6130	4680	-400	580	-520	H0
ATOM 10363	HG13	VAL D 51	-28.654	17.382	28.548	1.00	40.20		H0
ANISOU10363	HG13	VAL D 51	4730	5910	4640	-480	560	-510	H0
ATOM 10364	HG21	VAL D 51	-28.655	15.464	30.494	1.00	41.13		H0
ANISOU10364	HG21	VAL D 51	4760	6230	4640	-490	580	-410	H0
ATOM 10365	HG22	VAL D 51	-29.662	16.393	31.297	1.00	41.91		H0
ANISOU10365	HG22	VAL D 51	4810	6440	4680	-410	600	-450	H0
ATOM 10366	HG23	VAL D 51	-28.278	15.969	31.951	1.00	41.86		H0

ANISOU10366	HG23	VAL	D	51	4820	6440	4650	-430	580	-470	H0
ATOM	10367	N	PHE	D	52	-25.565	18.482	28.355	1.00	40.28	N0
ANISOU10367	N	PHE	D	52	4820	5760	4720	-560	540	-670	N0
ATOM	10368	CA	PHE	D	52	-24.830	19.601	27.715	1.00	40.70	C0
ANISOU10368	CA	PHE	D	52	4930	5700	4840	-600	550	-730	C0
ATOM	10369	C	PHE	D	52	-25.352	19.815	26.291	1.00	40.57	C0
ANISOU10369	C	PHE	D	52	4970	5580	4860	-610	560	-670	C0
ATOM	10370	O	PHE	D	52	-25.864	18.858	25.685	1.00	40.04	O0
ANISOU10370	O	PHE	D	52	4890	5540	4790	-610	560	-590	O0
ATOM	10371	CB	PHE	D	52	-23.323	19.326	27.738	1.00	40.85	C0
ANISOU10371	CB	PHE	D	52	4920	5720	4870	-660	540	-760	C0
ATOM	10372	CG	PHE	D	52	-22.893	18.051	27.057	1.00	40.20	C0
ANISOU10372	CG	PHE	D	52	4820	5650	4800	-680	550	-670	C0
ATOM	10373	CD1	PHE	D	52	-22.892	16.845	27.739	1.00	39.86	C0
ANISOU10373	CD1	PHE	D	52	4730	5700	4710	-650	540	-620	C0
ATOM	10374	CD2	PHE	D	52	-22.481	18.059	25.733	1.00	40.25	C0
ANISOU10374	CD2	PHE	D	52	4870	5570	4860	-720	580	-640	C0
ATOM	10375	CE1	PHE	D	52	-22.498	15.673	27.107	1.00	39.67	C0
ANISOU10375	CE1	PHE	D	52	4710	5660	4710	-650	560	-550	C0
ATOM	10376	CE2	PHE	D	52	-22.089	16.887	25.102	1.00	39.73	C0
ANISOU10376	CE2	PHE	D	52	4800	5510	4790	-730	600	-590	C0
ATOM	10377	CZ	PHE	D	52	-22.099	15.696	25.790	1.00	40.03	C0
ANISOU10377	CZ	PHE	D	52	4800	5610	4800	-690	590	-540	C0
ATOM	10378	H	PHE	D	52	-25.768	17.815	27.768	1.00	39.99	H0
ANISOU10378	H	PHE	D	52	4790	5710	4700	-580	550	-610	H0
ATOM	10379	HA	PHE	D	52	-25.005	20.424	28.234	1.00	41.31	H0
ANISOU10379	HA	PHE	D	52	5030	5760	4910	-570	550	-800	H0
ATOM	10380	HB2	PHE	D	52	-22.867	20.080	27.309	1.00	41.10	H0
ANISOU10380	HB2	PHE	D	52	4990	5680	4950	-700	550	-800	H0
ATOM	10381	HB3	PHE	D	52	-23.031	19.296	28.673	1.00	41.19	H0
ANISOU10381	HB3	PHE	D	52	4930	5850	4880	-650	520	-800	H0
ATOM	10382	HD1	PHE	D	52	-23.169	16.820	28.640	1.00	40.25	H0
ANISOU10382	HD1	PHE	D	52	4750	5820	4720	-620	530	-630	H0
ATOM	10383	HD2	PHE	D	52	-22.476	18.872	25.253	1.00	40.32	H0
ANISOU10383	HD2	PHE	D	52	4910	5510	4890	-750	590	-660	H0
ATOM	10384	HE1	PHE	D	52	-22.506	14.858	27.583	1.00	39.88	H0
ANISOU10384	HE1	PHE	D	52	4720	5730	4710	-620	560	-510	H0
ATOM	10385	HE2	PHE	D	52	-21.814	16.909	24.201	1.00	39.81	H0
ANISOU10385	HE2	PHE	D	52	4840	5470	4820	-750	620	-570	H0
ATOM	10386	HZ	PHE	D	52	-21.827	14.899	25.363	1.00	39.72	H0
ANISOU10386	HZ	PHE	D	52	4770	5560	4770	-680	610	-510	H0
ATOM	10387	N	TRP	D	53	-25.257	21.052	25.801	1.00	41.45	N0
ANISOU10387	N	TRP	D	53	5150	5580	5020	-610	580	-710	N0
ATOM	10388	CA	TRP	D	53	-25.411	21.397	24.366	1.00	42.47	C0
ANISOU10388	CA	TRP	D	53	5340	5610	5190	-630	590	-640	C0
ATOM	10389	C	TRP	D	53	-24.059	21.175	23.687	1.00	43.63	C0
ANISOU10389	C	TRP	D	53	5490	5720	5370	-720	610	-640	C0
ATOM	10390	O	TRP	D	53	-23.087	21.832	24.100	1.00	44.82	O0
ANISOU10390	O	TRP	D	53	5650	5830	5550	-780	620	-710	O0
ATOM	10391	CB	TRP	D	53	-25.886	22.841	24.175	1.00	42.91	C0
ANISOU10391	CB	TRP	D	53	5470	5550	5290	-580	610	-660	C0
ATOM	10392	CG	TRP	D	53	-27.202	23.168	24.809	1.00	43.00	C0
ANISOU10392	CG	TRP	D	53	5470	5600	5270	-460	600	-670	C0
ATOM	10393	CD1	TRP	D	53	-28.165	22.298	25.230	1.00	42.23	C0

ANISOU10393	CD1 TRP D	53	5290	5650	5110	-410	580	-630	C0
ATOM 10394	CD2 TRP D	53	-27.721	24.488	25.050	1.00	43.99		C0
ANISOU10394	CD2 TRP D	53	5660	5630	5430	-370	620	-720	C0
ATOM 10395	NE1 TRP D	53	-29.235	22.985	25.736	1.00	43.14		N0
ANISOU10395	NE1 TRP D	53	5390	5780	5210	-290	590	-650	N0
ATOM 10396	CE2 TRP D	53	-28.994	24.330	25.637	1.00	43.99		C0
ANISOU10396	CE2 TRP D	53	5600	5740	5380	-250	610	-700	C0
ATOM 10397	CE3 TRP D	53	-27.229	25.781	24.837	1.00	45.24		C0
ANISOU10397	CE3 TRP D	53	5930	5600	5660	-380	640	-760	C0
ATOM 10398	CZ2 TRP D	53	-29.780	25.419	26.012	1.00	45.24		C0
ANISOU10398	CZ2 TRP D	53	5800	5840	5550	-110	640	-740	C0
ATOM 10399	CZ3 TRP D	53	-28.002	26.858	25.213	1.00	46.69		C0
ANISOU10399	CZ3 TRP D	53	6180	5700	5860	-260	660	-800	C0
ATOM 10400	CH2 TRP D	53	-29.262	26.676	25.790	1.00	46.69		C0
ANISOU10400	CH2 TRP D	53	6120	5820	5810	-110	660	-800	C0
ATOM 10401	H TRP D	53	-25.087	21.777	26.326	1.00	42.17		H0
ANISOU10401	H TRP D	53	5260	5640	5120	-600	580	-780	H0
ATOM 10402	HA TRP D	53	-26.080	20.794	23.970	1.00	42.06		H0
ANISOU10402	HA TRP D	53	5270	5600	5110	-610	580	-590	H0
ATOM 10403	HB2 TRP D	53	-25.202	23.436	24.540	1.00	43.45		H0
ANISOU10403	HB2 TRP D	53	5560	5560	5380	-620	610	-730	H0
ATOM 10404	HB3 TRP D	53	-25.947	23.015	23.214	1.00	42.99		H0
ANISOU10404	HB3 TRP D	53	5520	5500	5310	-590	620	-610	H0
ATOM 10405	HD1 TRP D	53	-28.104	21.356	25.192	1.00	41.74		H0
ANISOU10405	HD1 TRP D	53	5180	5650	5030	-450	570	-600	H0
ATOM 10406	HE1 TRP D	53	-29.961	22.619	26.067	1.00	43.16		H0
ANISOU10406	HE1 TRP D	53	5340	5880	5180	-250	590	-630	H0
ATOM 10407	HE3 TRP D	53	-26.379	25.912	24.447	1.00	45.19		H0
ANISOU10407	HE3 TRP D	53	5960	5530	5680	-470	650	-760	H0
ATOM 10408	HZ2 TRP D	53	-30.626	25.298	26.406	1.00	45.66		H0
ANISOU10408	HZ2 TRP D	53	5800	5980	5570	-30	640	-730	H0
ATOM 10409	HZ3 TRP D	53	-27.680	27.735	25.071	1.00	47.47		H0
ANISOU10409	HZ3 TRP D	53	6370	5650	6020	-270	680	-830	H0
ATOM 10410	HH2 TRP D	53	-29.766	27.429	26.036	1.00	47.70		H0
ANISOU10410	HH2 TRP D	53	6290	5880	5950	-10	680	-830	H0
ATOM 10411	N GLN D	54	-23.992	20.252	22.728	1.00	44.38		N0
ANISOU10411	N GLN D	54	5590	5830	5440	-740	620	-570	N0
ATOM 10412	CA GLN D	54	-22.777	20.022	21.902	1.00	45.39		C0
ANISOU10412	CA GLN D	54	5720	5930	5590	-810	660	-560	C0
ATOM 10413	C GLN D	54	-22.882	20.952	20.687	1.00	45.84		C0
ANISOU10413	C GLN D	54	5860	5890	5660	-840	690	-510	C0
ATOM 10414	O GLN D	54	-23.321	20.492	19.617	1.00	45.53		O0
ANISOU10414	O GLN D	54	5850	5860	5580	-830	690	-450	O0
ATOM 10415	CB GLN D	54	-22.637	18.534	21.568	1.00	45.03		C0
ANISOU10415	CB GLN D	54	5650	5950	5510	-810	670	-530	C0
ATOM 10416	CG GLN D	54	-21.235	18.145	21.119	1.00	46.01		C0
ANISOU10416	CG GLN D	54	5750	6090	5650	-850	710	-530	C0
ATOM 10417	CD GLN D	54	-21.034	16.650	21.059	1.00	46.77		C0
ANISOU10417	CD GLN D	54	5830	6230	5720	-820	720	-520	C0
ATOM 10418	OE1 GLN D	54	-20.900	15.973	22.079	1.00	46.32		O0
ANISOU10418	OE1 GLN D	54	5720	6220	5660	-780	700	-530	O0
ATOM 10419	NE2 GLN D	54	-20.994	16.119	19.847	1.00	47.25		N0
ANISOU10419	NE2 GLN D	54	5940	6260	5750	-830	760	-490	N0
ATOM 10420	H GLN D	54	-24.690	19.705	22.519	1.00	44.00		H0

ANISOU10420	H	GLN D 54	5530	5820	5370	-720	610	-540	H0
ATOM 10421	HA	GLN D 54	-21.993	20.294	22.431	1.00	45.51		H0
ANISOU10421	HA	GLN D 54	5710	5960	5630	-840	660	-600	H0
ATOM 10422	HB2	GLN D 54	-22.875	18.013	22.363	1.00	44.93		H0
ANISOU10422	HB2	GLN D 54	5600	5990	5480	-780	640	-540	H0
ATOM 10423	HB3	GLN D 54	-23.276	18.309	20.860	1.00	45.04		H0
ANISOU10423	HB3	GLN D 54	5690	5940	5480	-800	660	-490	H0
ATOM 10424	HG2	GLN D 54	-21.065	18.526	20.231	1.00	46.33		H0
ANISOU10424	HG2	GLN D 54	5830	6090	5690	-880	740	-510	H0
ATOM 10425	HG3	GLN D 54	-20.581	18.529	21.738	1.00	46.36		H0
ANISOU10425	HG3	GLN D 54	5750	6150	5720	-870	710	-570	H0
ATOM 10426	HE21	GLN D 54	-20.446	15.447	19.676	1.00	47.27		H0
ANISOU10426	HE21	GLN D 54	5930	6280	5750	-810	780	-500	H0
ATOM 10427	HE22	GLN D 54	-21.516	16.437	19.207	1.00	47.15		H0
ANISOU10427	HE22	GLN D 54	5970	6220	5720	-840	750	-480	H0
ATOM 10428	N	GLN D 55	-22.539	22.232	20.871	1.00	46.89		N0
ANISOU10428	N	GLN D 55	6030	5940	5850	-870	700	-540	N0
ATOM 10429	CA	GLN D 55	-22.747	23.300	19.855	1.00	48.82		C0
ANISOU10429	CA	GLN D 55	6370	6060	6120	-870	730	-470	C0
ATOM 10430	C	GLN D 55	-21.697	23.146	18.753	1.00	47.97		C0
ANISOU10430	C	GLN D 55	6270	5950	6010	-960	790	-420	C0
ATOM 10431	O	GLN D 55	-20.503	23.348	19.039	1.00	49.38		O0
ANISOU10431	O	GLN D 55	6400	6130	6230	-1050	820	-470	O0
ATOM 10432	CB	GLN D 55	-22.687	24.693	20.483	1.00	50.94		C0
ANISOU10432	CB	GLN D 55	6690	6200	6460	-880	740	-530	C0
ATOM 10433	CG	GLN D 55	-23.703	24.910	21.594	1.00	52.21		C0
ANISOU10433	CG	GLN D 55	6850	6370	6610	-780	700	-590	C0
ATOM 10434	CD	GLN D 55	-23.696	26.331	22.101	1.00	54.79		C0
ANISOU10434	CD	GLN D 55	7270	6540	7010	-780	710	-650	C0
ATOM 10435	OE1	GLN D 55	-24.679	27.058	21.978	1.00	57.41		O0
ANISOU10435	OE1	GLN D 55	7670	6790	7350	-670	710	-620	O0
ATOM 10436	NE2	GLN D 55	-22.576	26.743	22.673	1.00	56.17		N0
ANISOU10436	NE2	GLN D 55	7440	6680	7230	-890	720	-750	N0
ATOM 10437	H	GLN D 55	-22.144	22.525	21.638	1.00	47.34		H0
ANISOU10437	H	GLN D 55	6060	5990	5930	-890	700	-600	H0
ATOM 10438	HA	GLN D 55	-23.638	23.172	19.460	1.00	48.44		H0
ANISOU10438	HA	GLN D 55	6340	6030	6040	-810	710	-430	H0
ATOM 10439	HB2	GLN D 55	-21.787	24.838	20.838	1.00	51.28		H0
ANISOU10439	HB2	GLN D 55	6710	6240	6540	-960	750	-580	H0
ATOM 10440	HB3	GLN D 55	-22.840	25.357	19.778	1.00	51.64		H0
ANISOU10440	HB3	GLN D 55	6850	6200	6570	-880	760	-470	H0
ATOM 10441	HG2	GLN D 55	-24.600	24.692	21.260	1.00	51.94		H0
ANISOU10441	HG2	GLN D 55	6820	6370	6550	-710	680	-530	H0
ATOM 10442	HG3	GLN D 55	-23.504	24.303	22.338	1.00	51.66		H0
ANISOU10442	HG3	GLN D 55	6710	6390	6520	-790	680	-640	H0
ATOM 10443	HE21	GLN D 55	-22.466	27.600	22.863	1.00	56.92		H0
ANISOU10443	HE21	GLN D 55	7600	6660	7370	-920	730	-790	H0
ATOM 10444	HE22	GLN D 55	-21.937	26.163	22.866	1.00	55.47		H0
ANISOU10444	HE22	GLN D 55	7280	6670	7130	-950	710	-770	H0
ATOM 10445	N	THR D 56	-22.137	22.805	17.540	1.00	46.98		N0
ANISOU10445	N	THR D 56	6180	5850	5820	-940	800	-340	N0
ATOM 10446	CA	THR D 56	-21.268	22.422	16.398	1.00	46.49		C0
ANISOU10446	CA	THR D 56	6130	5820	5720	-1000	860	-290	C0
ATOM 10447	C	THR D 56	-21.633	23.277	15.180	1.00	46.21		C0

ANISOU10447	C	THR D 56	6190	5720	5650	-990	890	-180	C0
ATOM 10448	O	THR D 56	-22.795	23.197	14.732	1.00	45.30		O0
ANISOU10448	O	THR D 56	6110	5620	5470	-920	840	-130	O0
ATOM 10449	CB	THR D 56	-21.388	20.917	16.131	1.00	46.34		C0
ANISOU10449	CB	THR D 56	6070	5910	5630	-960	850	-310	C0
ATOM 10450	OG1	THR D 56	-21.584	20.272	17.389	1.00	47.07		O0
ANISOU10450	OG1	THR D 56	6100	6040	5740	-930	800	-380	O0
ATOM 10451	CG2	THR D 56	-20.167	20.332	15.460	1.00	47.42		C0
ANISOU10451	CG2	THR D 56	6180	6100	5740	-1010	920	-310	C0
ATOM 10452	H	THR D 56	-23.022	22.783	17.324	1.00	46.93		H0
ANISOU10452	H	THR D 56	6200	5850	5780	-880	770	-300	H0
ATOM 10453	HA	THR D 56	-20.339	22.616	16.648	1.00	46.83		H0
ANISOU10453	HA	THR D 56	6130	5850	5800	-1060	890	-320	H0
ATOM 10454	HB	THR D 56	-22.178	20.760	15.560	1.00	46.62		H0
ANISOU10454	HB	THR D 56	6150	5960	5610	-930	830	-270	H0
ATOM 10455	HG21	THR D 56	-20.027	20.768	14.601	1.00	47.82		H0
ANISOU10455	HG21	THR D 56	6270	6140	5760	-1040	960	-260	H0
ATOM 10456	HG22	THR D 56	-20.299	19.377	15.321	1.00	46.80		H0
ANISOU10456	HG22	THR D 56	6090	6070	5620	-980	920	-330	H0
ATOM 10457	HG23	THR D 56	-19.387	20.472	16.025	1.00	47.30		H0
ANISOU10457	HG23	THR D 56	6110	6090	5770	-1040	940	-340	H0
ATOM 10458	N	THR D 57	-20.681	24.068	14.671	1.00	45.92		N0
ANISOU10458	N	THR D 57	6180	5620	5650	-1080	960	-130	N0
ATOM 10459	CA	THR D 57	-20.859	24.914	13.462	1.00	46.79		C0
ANISOU10459	CA	THR D 57	6390	5660	5720	-1090	1000	0	C0
ATOM 10460	C	THR D 57	-19.748	24.603	12.449	1.00	46.62		C0
ANISOU10460	C	THR D 57	6360	5710	5650	-1170	1090	50	C0
ATOM 10461	O	THR D 57	-18.624	24.281	12.876	1.00	46.45		O0
ANISOU10461	O	THR D 57	6240	5730	5670	-1250	1140	-20	O0
ATOM 10462	CB	THR D 57	-20.944	26.404	13.827	1.00	48.61		C0
ANISOU10462	CB	THR D 57	6710	5710	6060	-1110	1010	40	C0
ATOM 10463	OG1	THR D 57	-19.687	26.856	14.330	1.00	50.20		O0
ANISOU10463	OG1	THR D 57	6870	5850	6350	-1250	1070	-20	O0
ATOM 10464	CG2	THR D 57	-22.020	26.696	14.851	1.00	48.17		C0
ANISOU10464	CG2	THR D 57	6660	5590	6050	-1000	940	-20	C0
ATOM 10465	H	THR D 57	-19.848	24.145	15.033	1.00	46.32		H0
ANISOU10465	H	THR D 57	6190	5660	5750	-1140	990	-170	H0
ATOM 10466	HA	THR D 57	-21.714	24.659	13.053	1.00	46.62		H0
ANISOU10466	HA	THR D 57	6400	5680	5640	-1020	960	40	H0
ATOM 10467	HB	THR D 57	-21.152	26.907	13.003	1.00	49.55		H0
ANISOU10467	HB	THR D 57	6900	5780	6150	-1100	1040	140	H0
ATOM 10468	HG21	THR D 57	-22.860	26.297	14.564	1.00	47.76		H0
ANISOU10468	HG21	THR D 57	6610	5600	5930	-920	900	10	H0
ATOM 10469	HG22	THR D 57	-22.133	27.660	14.938	1.00	49.14		H0
ANISOU10469	HG22	THR D 57	6860	5580	6230	-1000	950	0	H0
ATOM 10470	HG23	THR D 57	-21.761	26.322	15.712	1.00	47.50		H0
ANISOU10470	HG23	THR D 57	6510	5540	5990	-1020	920	-120	H0
ATOM 10471	N	TRPD 58	-20.075	24.678	11.157	1.00	46.23		N0
ANISOU10471	N	TRPD 58	6380	5700	5490	-1150	1120	160	N0
ATOM 10472	CA	TRPD 58	-19.129	24.504	10.024	1.00	47.03		C0
ANISOU10472	CA	TRPD 58	6480	5880	5510	-1210	1220	220	C0
ATOM 10473	C	TRPD 58	-19.768	25.063	8.750	1.00	48.52		C0
ANISOU10473	C	TRPD 58	6790	6060	5590	-1180	1230	380	C0
ATOM 10474	O	TRPD 58	-20.957	25.406	8.793	1.00	48.23		O0

ANISOU10474	O	TRP D 58	6810	5980	5540	-1090	1150	420	O0
ATOM 10475	CB	TRP D 58	-18.738	23.030	9.865	1.00	45.61		C0
ANISOU10475	CB	TRP D 58	6230	5850	5250	-1190	1240	130	C0
ATOM 10476	CG	TRP D 58	-19.872	22.162	9.419	1.00	44.87		C0
ANISOU10476	CG	TRP D 58	6180	5830	5040	-1100	1160	110	C0
ATOM 10477	CD1	TRP D 58	-20.183	21.819	8.135	1.00	45.89		C0
ANISOU10477	CD1	TRP D 58	6370	6050	5010	-1070	1170	160	C0
ATOM 10478	CD2	TRP D 58	-20.868	21.545	10.254	1.00	43.26		C0
ANISOU10478	CD2	TRP D 58	5950	5630	4860	-1030	1050	30	C0
ATOM 10479	NE1	TRP D 58	-21.301	21.029	8.116	1.00	44.92		N0
ANISOU10479	NE1	TRP D 58	6270	5980	4820	-1010	1080	110	N0
ATOM 10480	CE2	TRP D 58	-21.746	20.848	9.398	1.00	43.35		C0
ANISOU10480	CE2	TRP D 58	6010	5730	4730	-990	1000	30	C0
ATOM 10481	CE3	TRP D 58	-21.112	21.523	11.633	1.00	42.46		C0
ANISOU10481	CE3	TRP D 58	5790	5470	4870	-1020	1000	-50	C0
ATOM 10482	CZ2	TRP D 58	-22.834	20.122	9.881	1.00	42.20		C0
ANISOU10482	CZ2	TRP D 58	5850	5610	4570	-940	900	-30	C0
ATOM 10483	CZ3	TRP D 58	-22.188	20.808	12.107	1.00	41.37		C0
ANISOU10483	CZ3	TRP D 58	5640	5370	4710	-960	910	-100	C0
ATOM 10484	CH2	TRP D 58	-23.038	20.119	11.240	1.00	41.15		C0
ANISOU10484	CH2	TRP D 58	5650	5420	4560	-930	860	-80	C0
ATOM 10485	H	TRP D 58	-20.928	24.844	10.882	1.00	46.55		H0
ANISOU10485	H	TRP D 58	6470	5720	5490	-1080	1080	210	H0
ATOM 10486	HA	TRP D 58	-18.312	25.019	10.225	1.00	47.62		H0
ANISOU10486	HA	TRP D 58	6530	5910	5660	-1300	1280	230	H0
ATOM 10487	HB2	TRP D 58	-18.011	22.971	9.211	1.00	46.49		H0
ANISOU10487	HB2	TRP D 58	6330	6020	5320	-1230	1320	160	H0
ATOM 10488	HB3	TRP D 58	-18.399	22.703	10.723	1.00	45.03		H0
ANISOU10488	HB3	TRP D 58	6080	5780	5250	-1200	1220	50	H0
ATOM 10489	HD1	TRP D 58	-19.701	22.083	7.367	1.00	46.68		H0
ANISOU10489	HD1	TRP D 58	6500	6190	5050	-1100	1240	220	H0
ATOM 10490	HE1	TRP D 58	-21.667	20.695	7.399	1.00	45.35		H0
ANISOU10490	HE1	TRP D 58	6360	6110	4760	-1000	1060	120	H0
ATOM 10491	HE3	TRP D 58	-20.543	21.983	12.227	1.00	42.39		H0
ANISOU10491	HE3	TRP D 58	5750	5410	4950	-1050	1020	-60	H0
ATOM 10492	HZ2	TRP D 58	-23.408	19.658	9.297	1.00	42.56		H0
ANISOU10492	HZ2	TRP D 58	5920	5720	4530	-930	870	-30	H0
ATOM 10493	HZ3	TRP D 58	-22.357	20.784	13.035	1.00	40.75		H0
ANISOU10493	HZ3	TRP D 58	5520	5260	4700	-940	870	-140	H0
ATOM 10494	HH2	TRP D 58	-23.766	19.639	11.594	1.00	40.82		H0
ANISOU10494	HH2	TRP D 58	5590	5400	4520	-910	800	-120	H0
ATOM 10495	N	SER D 59	-18.996	25.153	7.667	1.00	51.01		N0
ANISOU10495	N	SER D 59	7120	6440	5820	-1230	1340	470	N0
ATOM 10496	CA	SER D 59	-19.459	25.609	6.331	1.00	53.65		C0
ANISOU10496	CA	SER D 59	7560	6810	6010	-1200	1360	630	C0
ATOM 10497	C	SER D 59	-19.506	24.420	5.365	1.00	53.71		C0
ANISOU10497	C	SER D 59	7560	7020	5820	-1160	1370	590	C0
ATOM 10498	O	SER D 59	-18.565	23.605	5.367	1.00	52.27		O0
ANISOU10498	O	SER D 59	7310	6930	5620	-1200	1440	490	O0
ATOM 10499	CB	SER D 59	-18.592	26.719	5.800	1.00	56.12		C0
ANISOU10499	CB	SER D 59	7920	7050	6360	-1310	1480	780	C0
ATOM 10500	OG	SER D 59	-18.768	27.900	6.570	1.00	57.86		O0
ANISOU10500	OG	SER D 59	8190	7050	6740	-1340	1460	820	O0
ATOM 10501	H	SER D 59	-18.111	24.937	7.668	1.00	51.16		H0

ANISOU10501	H	SER D 59	7080	6500	5850	-1300	1400	440	H0
ATOM 10502	HA	SER D 59	-20.384	25.961	6.432	1.00	53.49		H0
ANISOU10502	HA	SER D 59	7590	6740	5990	-1130	1280	670	H0
ATOM 10503	HB2	SER D 59	-17.648	26.441	5.833	1.00	56.39		H0
ANISOU10503	HB2	SER D 59	7890	7130	6410	-1380	1550	730	H0
ATOM 10504	HB3	SER D 59	-18.827	26.899	4.862	1.00	57.32		H0
ANISOU10504	HB3	SER D 59	8140	7250	6390	-1280	1500	890	H0
ATOM 10505	N	ASP D 60	-20.594	24.329	4.599	1.00	55.28		N0
ANISOU10505	N	ASP D 60	7840	7290	5880	-1080	1290	650	N0
ATOM 10506	CA	ASP D 60	-20.765	23.413	3.443	1.00	56.95		C0
ANISOU10506	CA	ASP D 60	8080	7690	5870	-1050	1300	630	C0
ATOM 10507	C	ASP D 60	-21.319	24.255	2.292	1.00	59.65		C0
ANISOU10507	C	ASP D 60	8520	8080	6060	-1020	1290	830	C0
ATOM 10508	O	ASP D 60	-22.534	24.516	2.291	1.00	59.17		O0
ANISOU10508	O	ASP D 60	8490	8020	5970	-930	1170	880	O0
ATOM 10509	CB	ASP D 60	-21.669	22.233	3.813	1.00	56.12		C0
ANISOU10509	CB	ASP D 60	7940	7650	5720	-1000	1180	480	C0
ATOM 10510	CG	ASP D 60	-21.824	21.184	2.724	1.00	56.97		C0
ANISOU10510	CG	ASP D 60	8090	7940	5610	-990	1170	410	C0
ATOM 10511	OD1	ASP D 60	-21.255	21.373	1.632	1.00	57.78		O0
ANISOU10511	OD1	ASP D 60	8250	8130	5570	-1000	1260	490	O0
ATOM 10512	OD2	ASP D 60	-22.513	20.178	2.987	1.00	56.31		O0
ANISOU10512	OD2	ASP D 60	7990	7900	5500	-970	1080	280	O0
ATOM 10513	H	ASP D 60	-21.330	24.843	4.752	1.00	55.33		H0
ANISOU10513	H	ASP D 60	7880	7240	5910	-1030	1230	710	H0
ATOM 10514	HA	ASP D 60	-19.880	23.063	3.186	1.00	57.28		H0
ANISOU10514	HA	ASP D 60	8100	7780	5880	-1100	1390	600	H0
ATOM 10515	HB2	ASP D 60	-21.302	21.794	4.607	1.00	54.96		H0
ANISOU10515	HB2	ASP D 60	7740	7460	5680	-1020	1180	370	H0
ATOM 10516	HB3	ASP D 60	-22.558	22.574	4.039	1.00	55.87		H0
ANISOU10516	HB3	ASP D 60	7920	7590	5710	-950	1090	520	H0
ATOM 10517	N	ARG D 61	-20.446	24.671	1.369	1.00	63.03		N0
ANISOU10517	N	ARG D 61	8990	8550	6400	-1070	1420	940	N0
ATOM 10518	CA	ARG D 61	-20.751	25.646	0.286	1.00	66.52		C0
ANISOU10518	CA	ARG D 61	9540	9020	6710	-1050	1450	1170	C0
ATOM 10519	C	ARG D 61	-21.714	25.041	-0.745	1.00	66.91		C0
ANISOU10519	C	ARG D 61	9640	9280	6510	-960	1350	1180	C0
ATOM 10520	O	ARG D 61	-22.306	25.826	-1.506	1.00	68.78		O0
ANISOU10520	O	ARG D 61	9960	9540	6630	-910	1320	1380	O0
ATOM 10521	CB	ARG D 61	-19.459	26.112	-0.393	1.00	69.40		C0
ANISOU10521	CB	ARG D 61	9920	9410	7040	-1150	1630	1290	C0
ATOM 10522	CG	ARG D 61	-18.666	27.126	0.418	1.00	70.70		C0
ANISOU10522	CG	ARG D 61	10060	9360	7440	-1250	1710	1350	C0
ATOM 10523	CD	ARG D 61	-17.452	27.609	-0.353	1.00	74.16		C0
ANISOU10523	CD	ARG D 61	10500	9840	7830	-1360	1890	1490	C0
ATOM 10524	NE	ARG D 61	-16.544	28.401	0.468	1.00	75.03		N0
ANISOU10524	NE	ARG D 61	10560	9770	8180	-1500	1970	1500	N0
ATOM 10525	CZ	ARG D 61	-15.335	28.809	0.085	1.00	77.66		C0
ANISOU10525	CZ	ARG D 61	10850	10130	8520	-1640	2130	1600	C0
ATOM 10526	NH1	ARG D 61	-14.588	29.525	0.910	1.00	78.22		N0
ANISOU10526	NH1	ARG D 61	10870	10030	8810	-1790	2180	1590	N0
ATOM 10527	NH2	ARG D 61	-14.869	28.499	-1.115	1.00	79.34		N0
ANISOU10527	NH2	ARG D 61	11070	10550	8520	-1650	2240	1680	N0
ATOM 10528	H	ARG D 61	-19.588	24.368	1.349	1.00	62.97		H0

ANISOU10528	H	ARG D 61	8950	8580	6400	-1120	1510	900	H0
ATOM 10529	HA	ARG D 61	-21.187	26.428	0.695	1.00	66.49		H0
ANISOU10529	HA	ARG D 61	9560	8890	6810	-1020	1400	1260	H0
ATOM 10530	HB2	ARG D 61	-18.894	25.331	-0.563	1.00	69.11		H0
ANISOU10530	HB2	ARG D 61	9840	9480	6940	-1170	1680	1180	H0
ATOM 10531	HB3	ARG D 61	-19.688	26.512	-1.258	1.00	70.89		H0
ANISOU10531	HB3	ARG D 61	10180	9660	7090	-1120	1640	1430	H0
ATOM 10532	HG2	ARG D 61	-19.238	27.893	0.633	1.00	71.07		H0
ANISOU10532	HG2	ARG D 61	10170	9280	7560	-1220	1660	1440	H0
ATOM 10533	HG3	ARG D 61	-18.374	26.718	1.260	1.00	69.38		H0
ANISOU10533	HG3	ARG D 61	9810	9150	7400	-1270	1690	1210	H0
ATOM 10534	HD2	ARG D 61	-16.971	26.833	-0.708	1.00	73.91		H0
ANISOU10534	HD2	ARG D 61	10420	9960	7700	-1370	1940	1400	H0
ATOM 10535	HD3	ARG D 61	-17.751	28.151	-1.114	1.00	75.47		H0
ANISOU10535	HD3	ARG D 61	10760	10020	7890	-1340	1900	1650	H0
ATOM 10536	HE	ARG D 61	-16.812	28.626	1.267	1.00	74.26		H0
ANISOU10536	HE	ARG D 61	10460	9540	8210	-1500	1900	1450	H0
ATOM 10537	HH11	ARG D 61	-14.892	29.731	1.709	1.00	77.14		H0
ANISOU10537	HH11	ARG D 61	10740	9770	8810	-1780	2100	1530	H0
ATOM 10538	HH12	ARG D 61	-13.790	29.793	0.659	1.00	79.28		H0
ANISOU10538	HH12	ARG D 61	10970	10190	8960	-1890	2280	1660	H0
ATOM 10539	HH21	ARG D 61	-15.357	28.024	-1.672	1.00	79.21		H0
ANISOU10539	HH21	ARG D 61	11100	10650	8350	-1560	2210	1670	H0
ATOM 10540	HH22	ARG D 61	-14.068	28.773	-1.357	1.00	80.44		H0
ANISOU10540	HH22	ARG D 61	11180	10710	8670	-1740	2360	1750	H0
ATOM 10541	N	THR D 62	-21.866	23.714	-0.777	1.00	65.90		N0
ANISOU10541	N	THR D 62	9470	9280	6290	-960	1300	980	N0
ATOM 10542	CA	THR D 62	-22.802	22.999	-1.688	1.00	67.14		C0
ANISOU10542	CA	THR D 62	9670	9640	6200	-900	1200	950	C0
ATOM 10543	C	THR D 62	-24.250	23.213	-1.223	1.00	66.35		C0
ANISOU10543	C	THR D 62	9550	9520	6140	-830	1020	970	C0
ATOM 10544	O	THR D 62	-25.160	23.016	-2.048	1.00	68.34		O0
ANISOU10544	O	THR D 62	9830	9940	6190	-780	910	1010	O0
ATOM 10545	CB	THR D 62	-22.455	21.508	-1.796	1.00	66.86		C0
ANISOU10545	CB	THR D 62	9610	9710	6080	-940	1210	710	C0
ATOM 10546	OG1	THR D 62	-22.534	20.925	-0.495	1.00	65.40		O0
ANISOU10546	OG1	THR D 62	9350	9390	6100	-950	1160	550	O0
ATOM 10547	CG2	THR D 62	-21.082	21.267	-2.382	1.00	68.23		C0
ANISOU10547	CG2	THR D 62	9800	9940	6180	-980	1400	690	C0
ATOM 10548	H	THR D 62	-21.396	23.143	-0.246	1.00	64.96		H0
ANISOU10548	H	THR D 62	9300	9130	6250	-990	1330	860	H0
ATOM 10549	HA	THR D 62	-22.707	23.399	-2.583	1.00	68.69		H0
ANISOU10549	HA	THR D 62	9930	9920	6250	-900	1240	1070	H0
ATOM 10550	HB	THR D 62	-23.127	21.077	-2.377	1.00	67.68		H0
ANISOU10550	HB	THR D 62	9750	9940	6020	-920	1130	680	H0
ATOM 10551	HG21	THR D 62	-21.020	21.694	-3.255	1.00	69.67		H0
ANISOU10551	HG21	THR D 62	10040	10220	6210	-970	1440	810	H0
ATOM 10552	HG22	THR D 62	-20.933	20.309	-2.480	1.00	67.87		H0
ANISOU10552	HG22	THR D 62	9750	9960	6070	-980	1400	530	H0
ATOM 10553	HG23	THR D 62	-20.404	21.641	-1.791	1.00	67.50		H0
ANISOU10553	HG23	THR D 62	9660	9740	6240	-1010	1470	710	H0
ATOM 10554	N	LEU D 63	-24.451	23.595	0.043	1.00	64.12		N0
ANISOU10554	N	LEU D 63	9210	9050	6100	-820	980	950	N0
ATOM 10555	CA	LEU D 63	-25.783	23.929	0.619	1.00	62.98		C0

ANISOU10555	CA	LEU D 63	9020	8880	6030	-730	840	980	C0
ATOM 10556	C	LEU D 63	-26.189	25.358	0.238	1.00	63.98		C0
ANISOU10556	C	LEU D 63	9220	8940	6150	-640	830	1230	C0
ATOM 10557	O	LEU D 63	-27.394	25.652	0.309	1.00	65.28		O0
ANISOU10557	O	LEU D 63	9360	9150	6300	-540	710	1300	O0
ATOM 10558	CB	LEU D 63	-25.732	23.787	2.143	1.00	60.47		C0
ANISOU10558	CB	LEU D 63	8630	8390	5960	-740	820	850	C0
ATOM 10559	CG	LEU D 63	-25.405	22.395	2.680	1.00	58.97		C0
ANISOU10559	CG	LEU D 63	8370	8240	5790	-810	820	630	C0
ATOM 10560	CD1	LEU D 63	-25.356	22.406	4.200	1.00	57.00		C0
ANISOU10560	CD1	LEU D 63	8050	7840	5770	-820	810	540	C0
ATOM 10561	CD2	LEU D 63	-26.412	21.367	2.196	1.00	59.54		C0
ANISOU10561	CD2	LEU D 63	8430	8490	5700	-810	700	540	C0
ATOM 10562	H	LEU D 63	-23.773	23.661	0.646	1.00	63.29		H0
ANISOU10562	H	LEU D 63	9080	8840	6130	-860	1050	900	H0
ATOM 10563	HA	LEU D 63	-26.448	23.303	0.251	1.00	63.13		H0
ANISOU10563	HA	LEU D 63	9030	9040	5920	-720	750	930	H0
ATOM 10564	HB2	LEU D 63	-25.067	24.415	2.488	1.00	60.53		H0
ANISOU10564	HB2	LEU D 63	8650	8270	6080	-770	900	900	H0
ATOM 10565	HB3	LEU D 63	-26.601	24.056	2.503	1.00	60.48		H0
ANISOU10565	HB3	LEU D 63	8600	8380	6000	-680	740	880	H0
ATOM 10566	HG	LEU D 63	-24.512	22.136	2.344	1.00	59.17		H0
ANISOU10566	HG	LEU D 63	8420	8280	5780	-860	910	600	H0
ATOM 10567	HD11	LEU D 63	-24.808	23.150	4.503	1.00	57.11		H0
ANISOU10567	HD11	LEU D 63	8080	7740	5890	-820	880	590	H0
ATOM 10568	HD12	LEU D 63	-24.972	21.570	4.518	1.00	56.20		H0
ANISOU10568	HD12	LEU D 63	7920	7740	5690	-860	830	410	H0
ATOM 10569	HD13	LEU D 63	-26.258	22.502	4.553	1.00	56.84		H0
ANISOU10569	HD13	LEU D 63	8000	7820	5780	-770	720	550	H0
ATOM 10570	HD21	LEU D 63	-27.313	21.713	2.316	1.00	59.69		H0
ANISOU10570	HD21	LEU D 63	8420	8530	5720	-760	610	600	H0
ATOM 10571	HD22	LEU D 63	-26.309	20.546	2.707	1.00	58.40		H0
ANISOU10571	HD22	LEU D 63	8250	8330	5610	-850	690	400	H0
ATOM 10572	HD23	LEU D 63	-26.259	21.181	1.253	1.00	60.55		H0
ANISOU10572	HD23	LEU D 63	8610	8730	5670	-820	720	560	H0
ATOM 10573	N	ALA D 64	-25.229	26.216	-0.125	1.00	64.13		N0
ANISOU10573	N	ALA D 64	9310	8850	6200	-680	970	1370	N0
ATOM 10574	CA	ALA D 64	-25.422	27.679	-0.288	1.00	65.44		C0
ANISOU10574	CA	ALA D 64	9560	8870	6430	-610	1000	1620	C0
ATOM 10575	C	ALA D 64	-26.406	27.968	-1.428	1.00	66.80		C0
ANISOU10575	C	ALA D 64	9790	9230	6370	-490	900	1800	C0
ATOM 10576	O	ALA D 64	-26.240	27.393	-2.522	1.00	67.74		O0
ANISOU10576	O	ALA D 64	9930	9560	6250	-520	910	1810	O0
ATOM 10577	CB	ALA D 64	-24.098	28.363	-0.525	1.00	66.25		C0
ANISOU10577	CB	ALA D 64	9730	8850	6590	-720	1170	1710	C0
ATOM 10578	H	ALA D 64	-24.374	25.961	-0.302	1.00	64.22		H0
ANISOU10578	H	ALA D 64	9330	8870	6200	-750	1060	1330	H0
ATOM 10579	HA	ALA D 64	-25.808	28.029	0.548	1.00	64.59		H0
ANISOU10579	HA	ALA D 64	9430	8640	6470	-570	950	1590	H0
ATOM 10580	HB1	ALA D 64	-24.224	29.327	-0.517	1.00	67.38		H0
ANISOU10580	HB1	ALA D 64	9940	8860	6800	-680	1190	1860	H0
ATOM 10581	HB2	ALA D 64	-23.473	28.114	0.176	1.00	65.05		H0
ANISOU10581	HB2	ALA D 64	9530	8610	6570	-790	1220	1590	H0
ATOM 10582	HB3	ALA D 64	-23.741	28.092	-1.387	1.00	67.23		H0

ANISOU10582	HB3	ALA	D	64	9880	9110	6550	-750	1220	1750	H0
ATOM	10583	N	TRP	D	65	-27.389	28.833	-1.163	1.00	67.01	N0
ANISOU10583	N	TRP	D	65	9830	9170	6470	-350	820	1940	N0
ATOM	10584	CA	TRP	D	65	-28.430	29.283	-2.126	1.00	68.74	C0
ANISOU10584	CA	TRP	D	65	10080	9550	6490	-200	720	2150	C0
ATOM	10585	C	TRP	D	65	-28.510	30.811	-2.090	1.00	71.63	C0
ANISOU10585	C	TRP	D	65	10560	9680	6980	-90	770	2410	C0
ATOM	10586	O	TRP	D	65	-27.877	31.411	-1.197	1.00	70.40	O0
ANISOU10586	O	TRP	D	65	10440	9240	7070	-140	870	2380	O0
ATOM	10587	CB	TRP	D	65	-29.786	28.640	-1.803	1.00	67.20	C0
ANISOU10587	CB	TRP	D	65	9750	9530	6250	-110	530	2050	C0
ATOM	10588	CG	TRP	D	65	-30.458	29.206	-0.586	1.00	65.55	C0
ANISOU10588	CG	TRP	D	65	9490	9130	6280	0	490	2030	C0
ATOM	10589	CD1	TRP	D	65	-31.279	30.294	-0.536	1.00	66.79	C0
ANISOU10589	CD1	TRP	D	65	9680	9210	6490	190	450	2230	C0
ATOM	10590	CD2	TRP	D	65	-30.371	28.713	0.763	1.00	62.14	C0
ANISOU10590	CD2	TRP	D	65	8970	8580	6050	-60	490	1810	C0
ATOM	10591	NE1	TRP	D	65	-31.705	30.513	0.745	1.00	65.14	N0
ANISOU10591	NE1	TRP	D	65	9410	8840	6500	260	430	2130	N0
ATOM	10592	CE2	TRP	D	65	-31.166	29.560	1.565	1.00	62.30	C0
ANISOU10592	CE2	TRP	D	65	8970	8460	6230	100	450	1880	C0
ATOM	10593	CE3	TRP	D	65	-29.699	27.647	1.374	1.00	59.68	C0
ANISOU10593	CE3	TRP	D	65	8600	8270	5800	-210	530	1570	C0
ATOM	10594	CZ2	TRP	D	65	-31.303	29.370	2.941	1.00	60.04	C0
ANISOU10594	CZ2	TRP	D	65	8610	8050	6150	100	450	1700	C0
ATOM	10595	CZ3	TRP	D	65	-29.836	27.459	2.732	1.00	57.30	C0
ANISOU10595	CZ3	TRP	D	65	8230	7840	5700	-220	520	1410	C0
ATOM	10596	CH2	TRP	D	65	-30.627	28.312	3.504	1.00	57.61	C0
ANISOU10596	CH2	TRP	D	65	8250	7760	5880	-70	480	1480	C0
ATOM	10597	H	TRP	D	65	-27.489	29.215	-0.342	1.00	66.32	H0
ANISOU10597	H	TRP	D	65	9720	8920	6550	-320	820	1910	H0
ATOM	10598	HA	TRP	D	65	-28.161	28.997	-3.030	1.00	69.85	H0
ANISOU10598	HA	TRP	D	65	10250	9840	6450	-240	740	2190	H0
ATOM	10599	HB2	TRP	D	65	-30.375	28.758	-2.576	1.00	68.81	H0
ANISOU10599	HB2	TRP	D	65	9960	9890	6290	-30	460	2170	H0
ATOM	10600	HB3	TRP	D	65	-29.649	27.680	-1.675	1.00	65.94	H0
ANISOU10600	HB3	TRP	D	65	9540	9460	6060	-200	510	1870	H0
ATOM	10601	HD1	TRP	D	65	-31.524	30.823	-1.277	1.00	68.61	H0
ANISOU10601	HD1	TRP	D	65	9960	9490	6610	280	430	2420	H0
ATOM	10602	HE1	TRP	D	65	-32.238	31.159	0.996	1.00	65.95	H0
ANISOU10602	HE1	TRP	D	65	9520	8870	6670	390	400	2220	H0
ATOM	10603	HE3	TRP	D	65	-29.163	27.068	0.862	1.00	59.54	H0
ANISOU10603	HE3	TRP	D	65	8600	8340	5680	-300	560	1510	H0
ATOM	10604	HZ2	TRP	D	65	-31.838	29.945	3.461	1.00	60.52	H0
ANISOU10604	HZ2	TRP	D	65	8660	8030	6310	210	430	1740	H0
ATOM	10605	HZ3	TRP	D	65	-29.388	26.741	3.149	1.00	56.09	H0
ANISOU10605	HZ3	TRP	D	65	8040	7690	5590	-310	540	1260	H0
ATOM	10606	HH2	TRP	D	65	-30.704	28.157	4.428	1.00	56.55	H0
ANISOU10606	HH2	TRP	D	65	8060	7560	5870	-70	470	1370	H0
ATOM	10607	N	ASN	D	66	-29.282	31.396	-3.013	1.00	75.35	N0
ANISOU10607	N	ASN	D	66	11080	10270	7280	60	710	2650	N0
ATOM	10608	CA	ASN	D	66	-29.465	32.862	-3.187	1.00	78.78	C0
ANISOU10608	CA	ASN	D	66	11640	10490	7800	200	750	2940	C0
ATOM	10609	C	ASN	D	66	-30.604	33.343	-2.278	1.00	78.47	C0

ANISOU10609	C	ASN D 66	11550	10340	7930	390	650	2940	C0
ATOM 10610	O	ASN D 66	-31.768	33.016	-2.578	1.00	78.72		O0
ANISOU10610	O	ASN D 66	11480	10620	7810	540	490	2970	O0
ATOM 10611	CB	ASN D 66	-29.730	33.203	-4.657	1.00	82.89		C0
ANISOU10611	CB	ASN D 66	12240	11210	8040	290	730	3210	C0
ATOM 10612	CG	ASN D 66	-29.670	34.686	-4.949	1.00	86.72		C0
ANISOU10612	CG	ASN D 66	12900	11450	8600	400	820	3540	C0
ATOM 10613	OD1	ASN D 66	-30.115	35.503	-4.146	1.00	86.42		O0
ANISOU10613	OD1	ASN D 66	12890	11150	8790	530	810	3590	O0
ATOM 10614	ND2	ASN D 66	-29.125	35.035	-6.103	1.00	91.68		N0
ANISOU10614	ND2	ASN D 66	13640	12160	9040	370	900	3760	N0
ATOM 10615	H	ASN D 66	-29.763	30.906	-3.613	1.00	75.81		H0
ANISOU10615	H	ASN D 66	11090	10550	7160	90	620	2650	H0
ATOM 10616	HA	ASN D 66	-28.631	33.314	-2.918	1.00	78.67		H0
ANISOU10616	HA	ASN D 66	11710	10270	7920	110	870	2950	H0
ATOM 10617	HB2	ASN D 66	-29.066	32.743	-5.211	1.00	82.85		H0
ANISOU10617	HB2	ASN D 66	12250	11320	7900	170	790	3180	H0
ATOM 10618	HB3	ASN D 66	-30.614	32.865	-4.906	1.00	83.22		H0
ANISOU10618	HB3	ASN D 66	12210	11460	7950	390	600	3220	H0
ATOM 10619	N	SER D 67	-30.281	34.121	-1.237	1.00	78.42		N0
ANISOU10619	N	SER D 67	11610	9990	8200	400	730	2910	N0
ATOM 10620	CA	SER D 67	-31.221	34.559	-0.166	1.00	78.88		C0
ANISOU10620	CA	SER D 67	11620	9910	8450	570	660	2860	C0
ATOM 10621	C	SER D 67	-31.897	35.888	-0.539	1.00	82.04		C0
ANISOU10621	C	SER D 67	12140	10160	8870	820	660	3160	C0
ATOM 10622	O	SER D 67	-32.655	36.421	0.303	1.00	82.04		O0
ANISOU10622	O	SER D 67	12120	10010	9030	1000	620	3140	O0
ATOM 10623	CB	SER D 67	-30.524	34.643	1.179	1.00	76.86		C0
ANISOU10623	CB	SER D 67	11370	9370	8460	460	750	2640	C0
ATOM 10624	OG	SER D 67	-30.286	35.992	1.564	1.00	78.90		O0
ANISOU10624	OG	SER D 67	11800	9260	8920	520	840	2770	O0
ATOM 10625	H	SER D 67	-29.442	34.455	-1.113	1.00	78.49		H0
ANISOU10625	H	SER D 67	11700	9820	8300	290	840	2910	H0
ATOM 10626	HA	SER D 67	-31.934	33.868	-0.095	1.00	77.93		H0
ANISOU10626	HA	SER D 67	11370	10000	8240	620	550	2770	H0
ATOM 10627	HB2	SER D 67	-31.079	34.202	1.859	1.00	75.61		H0
ANISOU10627	HB2	SER D 67	11100	9280	8340	500	680	2500	H0
ATOM 10628	HB3	SER D 67	-29.668	34.165	1.129	1.00	75.79		H0
ANISOU10628	HB3	SER D 67	11230	9250	8310	280	810	2550	H0
ATOM 10629	N	SER D 68	-31.638	36.409	-1.744	1.00	84.81		N0
ANISOU10629	N	SER D 68	12620	10540	9070	840	700	3430	N0
ATOM 10630	CA	SER D 68	-32.419	37.515	-2.356	1.00	88.28		C0
ANISOU10630	CA	SER D 68	13160	10920	9460	1100	670	3760	C0
ATOM 10631	C	SER D 68	-33.845	37.013	-2.594	1.00	88.67		C0
ANISOU10631	C	SER D 68	13030	11320	9340	1310	480	3780	C0
ATOM 10632	O	SER D 68	-33.990	35.894	-3.130	1.00	87.62		O0
ANISOU10632	O	SER D 68	12760	11550	8980	1210	380	3670	O0
ATOM 10633	CB	SER D 68	-31.791	38.009	-3.636	1.00	91.06		C0
ANISOU10633	CB	SER D 68	13670	11280	9650	1050	760	4040	C0
ATOM 10634	OG	SER D 68	-30.394	38.204	-3.474	1.00	90.46		O0
ANISOU10634	OG	SER D 68	13710	10960	9700	800	930	3990	O0
ATOM 10635	H	SER D 68	-30.951	36.135	-2.274	1.00	84.68		H0
ANISOU10635	H	SER D 68	12630	10590	8960	700	760	3440	H0
ATOM 10636	HA	SER D 68	-32.452	38.267	-1.706	1.00	88.80		H0

ANISOU10636	HA	SER D 68	13310	10700	9730	1180	720	3780	H0
ATOM 10637	HB2	SER D 68	-31.950	37.354	-4.352	1.00	91.02		H0
ANISOU10637	HB2	SER D 68	13590	11580	9420	1030	690	4050	H0
ATOM 10638	HB3	SER D 68	-32.212	38.858	-3.898	1.00	93.34		H0
ANISOU10638	HB3	SER D 68	14050	11460	9950	1230	760	4260	H0
ATOM 10639	N	HIS D 69	-34.846	37.787	-2.166	1.00	90.17		N0
ANISOU10639	N	HIS D 69	13210	11410	9640	1590	420	3890	N0
ATOM 10640	CA	HIS D 69	-36.295	37.486	-2.324	1.00	91.18		C0
ANISOU10640	CA	HIS D 69	13150	11870	9630	1820	240	3940	C0
ATOM 10641	C	HIS D 69	-36.605	36.077	-1.796	1.00	87.46		C0
ANISOU10641	C	HIS D 69	12440	11690	9110	1670	130	3620	C0
ATOM 10642	O	HIS D 69	-37.545	35.450	-2.323	1.00	88.25		O0
ANISOU10642	O	HIS D 69	12360	12170	9000	1740	-30	3640	O0
ATOM 10643	CB	HIS D 69	-36.713	37.648	-3.795	1.00	94.70		C0
ANISOU10643	CB	HIS D 69	13610	12600	9780	1940	160	4240	C0
ATOM 10644	CG	HIS D 69	-36.348	38.965	-4.397	1.00	98.20		C0
ANISOU10644	CG	HIS D 69	14290	12760	10250	2070	270	4580	C0
ATOM 10645	ND1	HIS D 69	-35.092	39.216	-4.920	1.00	98.70		N0
ANISOU10645	ND1	HIS D 69	14550	12650	10300	1860	420	4660	N0
ATOM 10646	CD2	HIS D 69	-37.067	40.096	-4.578	1.00	101.76		C0
ANISOU10646	CD2	HIS D 69	14830	13080	10750	2380	260	4880	C0
ATOM 10647	CE1	HIS D 69	-35.052	40.448	-5.389	1.00	102.04		C0
ANISOU10647	CE1	HIS D 69	15170	12830	10760	2020	500	4990	C0
ATOM 10648	NE2	HIS D 69	-36.252	41.010	-5.192	1.00	103.89		N0
ANISOU10648	NE2	HIS D 69	15360	13080	11040	2350	400	5130	N0
ATOM 10649	H	HIS D 69	-34.706	38.578	-1.736	1.00	90.98		H0
ANISOU10649	H	HIS D 69	13430	11230	9910	1650	500	3950	H0
ATOM 10650	HA	HIS D 69	-36.801	38.135	-1.781	1.00	92.01		H0
ANISOU10650	HA	HIS D 69	13270	11820	9880	2000	240	3990	H0
ATOM 10651	HB2	HIS D 69	-36.292	36.933	-4.323	1.00	93.81		H0
ANISOU10651	HB2	HIS D 69	13460	12670	9500	1760	140	4170	H0
ATOM 10652	HB3	HIS D 69	-37.686	37.532	-3.861	1.00	95.50		H0
ANISOU10652	HB3	HIS D 69	13570	12910	9800	2100	30	4280	H0
ATOM 10653	HD2	HIS D 69	-37.961	40.234	-4.326	1.00	102.44		H0
ANISOU10653	HD2	HIS D 69	14820	13250	10850	2590	170	4910	H0
ATOM 10654	HE1	HIS D 69	-34.307	40.860	-5.793	1.00	102.98		H0
ANISOU10654	HE1	HIS D 69	15440	12800	10890	1920	610	5110	H0
ATOM 10655	N	SER D 70	-35.848	35.606	-0.796	1.00	83.96		N0
ANISOU10655	N	SER D 70	11990	11060	8840	1460	220	3340	N0
ATOM 10656	CA	SER D 70	-35.952	34.245	-0.201	1.00	80.18		C0
ANISOU10656	CA	SER D 70	11320	10800	8350	1290	150	3040	C0
ATOM 10657	C	SER D 70	-35.717	34.311	1.305	1.00	77.20		C0
ANISOU10657	C	SER D 70	10930	10150	8240	1260	220	2820	C0
ATOM 10658	O	SER D 70	-35.221	35.316	1.814	1.00	77.87		O0
ANISOU10658	O	SER D 70	11180	9880	8530	1300	340	2870	O0
ATOM 10659	CB	SER D 70	-34.983	33.281	-0.850	1.00	78.75		C0
ANISOU10659	CB	SER D 70	11160	10750	8010	1020	180	2920	C0
ATOM 10660	OG	SER D 70	-35.600	32.566	-1.910	1.00	79.90		O0
ANISOU10660	OG	SER D 70	11210	11290	7870	1020	40	2970	O0
ATOM 10661	H	SER D 70	-35.210	36.108	-0.383	1.00	83.64		H0
ANISOU10661	H	SER D 70	12070	10750	8960	1420	330	3330	H0
ATOM 10662	HA	SER D 70	-36.876	33.915	-0.358	1.00	80.70		H0
ANISOU10662	HA	SER D 70	11250	11100	8310	1390	30	3050	H0
ATOM 10663	HB2	SER D 70	-34.211	33.782	-1.199	1.00	79.45		H0

ANISOU10663	HB2 SER D 70	11390	10680	8120	970	280	3020	H0
ATOM 10664	HB3 SER D 70	-34.652	32.644	-0.176	1.00	76.61		H0
ANISOU10664	HB3 SER D 70	10840	10450	7830	890	200	2710	H0
ATOM 10665	N PROD 71	-36.081	33.245	2.057	1.00	73.96		N0
ANISOU10665	N PROD 71	10340	9910	7850	1170	150	2570	N0
ATOM 10666	CA PROD 71	-35.654	33.090	3.447	1.00	70.76		C0
ANISOU10666	CA PROD 71	9920	9290	7670	1080	230	2340	C0
ATOM 10667	C PROD 71	-34.131	32.915	3.550	1.00	68.07		C0
ANISOU10667	C PROD 71	9710	8750	7400	830	360	2230	C0
ATOM 10668	O PROD 71	-33.560	32.258	2.703	1.00	66.90		O0
ANISOU10668	O PROD 71	9570	8750	7100	680	360	2220	O0
ATOM 10669	CB PROD 71	-36.376	31.821	3.928	1.00	69.29		C0
ANISOU10669	CB PROD 71	9510	9400	7420	1010	110	2140	C0
ATOM 10670	CG PROD 71	-37.505	31.627	2.940	1.00	71.35		C0
ANISOU10670	CG PROD 71	9650	10000	7470	1140	-40	2300	C0
ATOM 10671	CD PROD 71	-36.970	32.155	1.627	1.00	73.46		C0
ANISOU10671	CD PROD 71	10070	10250	7590	1140	-10	2510	C0
ATOM 10672	HA PROD 71	-35.952	33.870	3.979	1.00	71.60		H0
ANISOU10672	HA PROD 71	10070	9230	7910	1230	260	2380	H0
ATOM 10673	HB2 PROD 71	-35.771	31.049	3.922	1.00	67.66		H0
ANISOU10673	HB2 PROD 71	9290	9230	7190	830	130	2010	H0
ATOM 10674	HB3 PROD 71	-36.726	31.941	4.837	1.00	68.69		H0
ANISOU10674	HB3 PROD 71	9380	9250	7470	1080	120	2060	H0
ATOM 10675	HG2 PROD 71	-37.740	30.680	2.862	1.00	70.46		H0
ANISOU10675	HG2 PROD 71	9420	10090	7260	1030	-110	2190	H0
ATOM 10676	HG3 PROD 71	-38.299	32.128	3.217	1.00	72.54		H0
ANISOU10676	HG3 PROD 71	9740	10160	7660	1330	-70	2380	H0
ATOM 10677	HD2 PROD 71	-36.476	31.469	1.142	1.00	72.72		H0
ANISOU10677	HD2 PROD 71	9990	10260	7380	980	-10	2440	H0
ATOM 10678	HD3 PROD 71	-37.692	32.489	1.064	1.00	75.42		H0
ANISOU10678	HD3 PROD 71	10280	10640	7730	1290	-80	2670	H0
ATOM 10679	N ASP D 72	-33.526	33.491	4.591	1.00	66.79		N0
ANISOU10679	N ASP D 72	9640	8280	7460	800	460	2130	N0
ATOM 10680	CA ASP D 72	-32.053	33.564	4.780	1.00	65.44		C0
ANISOU10680	CA ASP D 72	9590	7890	7390	580	590	2040	C0
ATOM 10681	C ASP D 72	-31.557	32.287	5.472	1.00	61.58		C0
ANISOU10681	C ASP D 72	8970	7520	6910	380	580	1770	C0
ATOM 10682	O ASP D 72	-30.377	31.938	5.270	1.00	60.40		O0
ANISOU10682	O ASP D 72	8870	7330	6760	190	660	1710	O0
ATOM 10683	CB ASP D 72	-31.664	34.838	5.537	1.00	67.03		C0
ANISOU10683	CB ASP D 72	9940	7700	7820	630	700	2070	C0
ATOM 10684	CG ASP D 72	-32.341	36.092	5.001	1.00	70.71		C0
ANISOU10684	CG ASP D 72	10540	8030	8300	870	700	2330	C0
ATOM 10685	OD1 ASP D 72	-33.522	36.308	5.349	1.00	72.12		O0
ANISOU10685	OD1 ASP D 72	10640	8270	8490	1100	630	2360	O0
ATOM 10686	OD2 ASP D 72	-31.694	36.834	4.224	1.00	72.60		O0
ANISOU10686	OD2 ASP D 72	10950	8110	8530	830	790	2520	O0
ATOM 10687	H ASP D 72	-33.997	33.873	5.272	1.00	67.04		H0
ANISOU10687	H ASP D 72	9650	8220	7600	920	460	2100	H0
ATOM 10688	HA ASP D 72	-31.637	33.608	3.889	1.00	66.26		H0
ANISOU10688	HA ASP D 72	9750	8030	7390	520	620	2150	H0
ATOM 10689	HB2 ASP D 72	-31.904	34.736	6.481	1.00	66.05		H0
ANISOU10689	HB2 ASP D 72	9760	7540	7790	660	690	1920	H0
ATOM 10690	HB3 ASP D 72	-30.694	34.962	5.480	1.00	66.81		H0

ANISOU10690	HB3	ASP	D	72	10000	7550	7840	480	780	2040	H0
ATOM 10691	N	GLN	D	73	-32.418	31.612	6.245	1.00	59.45		N0
ANISOU10691	N	GLN	D	73	8540	7390	6650	440	490	1640	N0
ATOM 10692	CA	GLN	D	73	-32.093	30.346	6.962	1.00	56.23		C0
ANISOU10692	CA	GLN	D	73	8020	7090	6250	280	480	1400	C0
ATOM 10693	C	GLN	D	73	-33.250	29.348	6.822	1.00	55.24		C0
ANISOU10693	C	GLN	D	73	7720	7280	6000	320	340	1360	C0
ATOM 10694	O	GLN	D	73	-34.380	29.783	6.512	1.00	56.73		O0
ANISOU10694	O	GLN	D	73	7850	7570	6130	510	260	1490	O0
ATOM 10695	CB	GLN	D	73	-31.845	30.597	8.451	1.00	55.12		C0
ANISOU10695	CB	GLN	D	73	7870	6760	6310	270	530	1240	C0
ATOM 10696	CG	GLN	D	73	-31.070	31.870	8.753	1.00	56.25		C0
ANISOU10696	CG	GLN	D	73	8180	6580	6610	280	640	1280	C0
ATOM 10697	CD	GLN	D	73	-30.631	31.954	10.195	1.00	55.09		C0
ANISOU10697	CD	GLN	D	73	8030	6270	6630	220	680	1090	C0
ATOM 10698	OE1	GLN	D	73	-30.759	31.003	10.970	1.00	53.13		O0
ANISOU10698	OE1	GLN	D	73	7650	6150	6380	170	640	920	O0
ATOM 10699	NE2	GLN	D	73	-30.090	33.103	10.562	1.00	56.01		N0
ANISOU10699	NE2	GLN	D	73	8290	6090	6900	220	770	1100	N0
ATOM 10700	H	GLN	D	73	-33.270	31.899	6.392	1.00	60.30		H0
ANISOU10700	H	GLN	D	73	8610	7540	6760	590	440	1690	H0
ATOM 10701	HA	GLN	D	73	-31.284	29.956	6.561	1.00	55.70		H0
ANISOU10701	HA	GLN	D	73	7980	7040	6140	140	520	1370	H0
ATOM 10702	HB2	GLN	D	73	-32.710	30.638	8.905	1.00	55.27		H0
ANISOU10702	HB2	GLN	D	73	7820	6830	6350	390	480	1220	H0
ATOM 10703	HB3	GLN	D	73	-31.354	29.831	8.814	1.00	53.56		H0
ANISOU10703	HB3	GLN	D	73	7620	6610	6120	150	540	1100	H0
ATOM 10704	HG2	GLN	D	73	-30.279	31.911	8.174	1.00	56.44		H0
ANISOU10704	HG2	GLN	D	73	8270	6560	6610	170	690	1330	H0
ATOM 10705	HG3	GLN	D	73	-31.633	32.647	8.546	1.00	57.85		H0
ANISOU10705	HG3	GLN	D	73	8440	6710	6830	420	630	1410	H0
ATOM 10706	HE21	GLN	D	73	-29.816	33.217	11.395	1.00	55.61		H0
ANISOU10706	HE21	GLN	D	73	8250	5950	6940	190	790	980	H0
ATOM 10707	HE22	GLN	D	73	-30.002	33.759	9.976	1.00	57.54		H0
ANISOU10707	HE22	GLN	D	73	8590	6180	7090	260	800	1230	H0
ATOM 10708	N	VAL	D	74	-32.967	28.061	7.056	1.00	52.36		N0
ANISOU10708	N	VAL	D	74	7260	7040	5590	160	320	1180	N0
ATOM 10709	CA	VAL	D	74	-33.985	26.974	7.184	1.00	51.29		C0
ANISOU10709	CA	VAL	D	74	6960	7160	5370	150	200	1100	C0
ATOM 10710	C	VAL	D	74	-33.515	25.977	8.247	1.00	48.50		C0
ANISOU10710	C	VAL	D	74	6540	6780	5100	10	230	890	C0
ATOM 10711	O	VAL	D	74	-32.292	25.880	8.477	1.00	47.16		O0
ANISOU10711	O	VAL	D	74	6460	6460	5000	-110	320	810	O0
ATOM 10712	CB	VAL	D	74	-34.257	26.256	5.846	1.00	52.06		C0
ANISOU10712	CB	VAL	D	74	7030	7510	5240	80	120	1150	C0
ATOM 10713	CG1	VAL	D	74	-35.105	27.107	4.909	1.00	54.58		C0
ANISOU10713	CG1	VAL	D	74	7360	7940	5440	260	50	1370	C0
ATOM 10714	CG2	VAL	D	74	-32.973	25.811	5.161	1.00	51.57		C0
ANISOU10714	CG2	VAL	D	74	7090	7400	5110	-80	200	1100	C0
ATOM 10715	H	VAL	D	74	-32.111	27.764	7.151	1.00	51.54		H0
ANISOU10715	H	VAL	D	74	7200	6870	5510	40	380	1110	H0
ATOM 10716	HA	VAL	D	74	-34.817	27.374	7.489	1.00	52.06		H0
ANISOU10716	HA	VAL	D	74	6990	7290	5490	280	160	1150	H0
ATOM 10717	HB	VAL	D	74	-34.777	25.441	6.055	1.00	51.57		H0

ANISOU10717 HB VAL D 74	6870	7590	5140	30	50	1060	H0
ATOM 10718 HG11 VAL D 74	-35.901	27.410	5.378	1.00	55.04		H0
ANISOU10718 HG11 VAL D 74	7330	8030	5550	380	10	1400	H0
ATOM 10719 HG12 VAL D 74	-35.366	26.577	4.136	1.00	55.17		H0
ANISOU10719 HG12 VAL D 74	7400	8200	5360	210	-20	1380	H0
ATOM 10720 HG13 VAL D 74	-34.590	27.878	4.614	1.00	55.28		H0
ANISOU10720 HG13 VAL D 74	7560	7890	5560	300	120	1470	H0
ATOM 10721 HG21 VAL D 74	-32.438	26.591	4.933	1.00	52.19		H0
ANISOU10721 HG21 VAL D 74	7260	7340	5220	-50	270	1190	H0
ATOM 10722 HG22 VAL D 74	-33.191	25.321	4.350	1.00	52.22		H0
ANISOU10722 HG22 VAL D 74	7160	7640	5040	-120	140	1120	H0
ATOM 10723 HG23 VAL D 74	-32.466	25.235	5.760	1.00	50.10		H0
ANISOU10723 HG23 VAL D 74	6890	7150	5000	-170	240	970	H0
ATOM 10724 N SER D 75	-34.464	25.269	8.865	1.00	47.29		N0
ANISOU10724 N SER D 75	6240	6780	4950	20	150	810	N0
ATOM 10725 CA SER D 75	-34.216	24.084	9.723	1.00	45.06		C0
ANISOU10725 CA SER D 75	5890	6520	4710	-130	160	630	C0
ATOM 10726 C SER D 75	-34.228	22.840	8.836	1.00	44.51		C0
ANISOU10726 C SER D 75	5800	6620	4490	-270	100	570	C0
ATOM 10727 O SER D 75	-35.179	22.695	8.048	1.00	45.91		O0
ANISOU10727 O SER D 75	5910	7000	4540	-250	-10	650	O0
ATOM 10728 CB SER D 75	-35.232	23.986	10.828	1.00	45.03		C0
ANISOU10728 CB SER D 75	5740	6590	4780	-50	120	590	C0
ATOM 10729 OG SER D 75	-35.121	25.095	11.702	1.00	45.58		O0
ANISOU10729 OG SER D 75	5850	6480	4980	80	190	610	O0
ATOM 10730 H SER D 75	-35.351	25.467	8.800	1.00	48.29		H0
ANISOU10730 H SER D 75	6290	7010	5040	110	90	870	H0
ATOM 10731 HA SER D 75	-33.313	24.176	10.128	1.00	44.19		H0
ANISOU10731 HA SER D 75	5850	6260	4680	-180	230	570	H0
ATOM 10732 HB2 SER D 75	-36.136	23.958	10.441	1.00	46.13		H0
ANISOU10732 HB2 SER D 75	5800	6880	4850	0	40	660	H0
ATOM 10733 HB3 SER D 75	-35.087	23.153	11.333	1.00	44.02		H0
ANISOU10733 HB3 SER D 75	5570	6480	4670	-150	120	490	H0
ATOM 10734 N VAL D 76	-33.217	21.982	8.968	1.00	43.03		N0
ANISOU10734 N VAL D 76	5660	6360	4320	-420	150	450	N0
ATOM 10735 CA VAL D 76	-32.975	20.825	8.057	1.00	43.32		C0
ANISOU10735 CA VAL D 76	5730	6510	4220	-560	120	370	C0
ATOM 10736 C VAL D 76	-32.706	19.584	8.899	1.00	41.66		C0
ANISOU10736 C VAL D 76	5480	6270	4080	-680	140	210	C0
ATOM 10737 O VAL D 76	-31.895	19.633	9.819	1.00	40.67		O0
ANISOU10737 O VAL D 76	5380	5990	4080	-680	220	160	O0
ATOM 10738 CB VAL D 76	-31.804	21.115	7.098	1.00	43.69		C0
ANISOU10738 CB VAL D 76	5910	6480	4200	-590	210	410	C0
ATOM 10739 CG1 VAL D 76	-31.499	19.928	6.194	1.00	44.00		C0
ANISOU10739 CG1 VAL D 76	6000	6630	4090	-710	190	310	C0
ATOM 10740 CG2 VAL D 76	-32.059	22.369	6.272	1.00	45.40		C0
ANISOU10740 CG2 VAL D 76	6180	6720	4350	-470	200	590	C0
ATOM 10741 H VAL D 76	-32.599	22.052	9.634	1.00	42.18		H0
ANISOU10741 H VAL D 76	5580	6130	4310	-440	220	400	H0
ATOM 10742 HA VAL D 76	-33.778	20.678	7.529	1.00	44.24		H0
ANISOU10742 HA VAL D 76	5790	6770	4240	-550	40	410	H0
ATOM 10743 HB VAL D 76	-31.003	21.281	7.655	1.00	42.81		H0
ANISOU10743 HB VAL D 76	5840	6240	4190	-600	290	370	H0
ATOM 10744 HG11 VAL D 76	-31.045	19.238	6.705	1.00	43.00		H0

ANISOU10744	HG11	VAL D	76	5870	6440	4030	-780	230	200	H0
ATOM	10745	HG12	VAL D	76	-30.927	20.216	5.462	1.00	44.58	H0
ANISOU10745	HG12	VAL D	76	6150	6700	4100	-710	240	350	H0
ATOM	10746	HG13	VAL D	76	-32.329	19.572	5.834	1.00	44.75	H0
ANISOU10746	HG13	VAL D	76	6040	6860	4100	-730	100	310	H0
ATOM	10747	HG21	VAL D	76	-32.916	22.290	5.818	1.00	46.36	H0
ANISOU10747	HG21	VAL D	76	6250	6980	4380	-440	110	640	H0
ATOM	10748	HG22	VAL D	76	-31.352	22.475	5.613	1.00	45.74	H0
ANISOU10748	HG22	VAL D	76	6310	6740	4330	-500	250	620	H0
ATOM	10749	HG23	VAL D	76	-32.074	23.147	6.857	1.00	45.27	H0
ANISOU10749	HG23	VAL D	76	6170	6590	4440	-390	230	640	H0
ATOM	10750	N	PROD	77	-33.362	18.437	8.611	1.00	42.19	N0
ANISOU10750	N	PROD	77	5500	6470	4060	-780	60	140	N0
ATOM	10751	CA	PROD	77	-33.039	17.188	9.300	1.00	41.37	C0
ANISOU10751	CA	PROD	77	5390	6310	4020	-900	80	0	C0
ATOM	10752	C	PROD	77	-31.589	16.798	8.981	1.00	41.27	C0
ANISOU10752	C	PROD	77	5510	6170	4010	-950	190	-80	C0
ATOM	10753	O	PROD	77	-31.179	16.965	7.850	1.00	41.48	O0
ANISOU10753	O	PROD	77	5610	6230	3920	-950	200	-50	O0
ATOM	10754	CB	PROD	77	-34.064	16.180	8.760	1.00	42.28	C0
ANISOU10754	CB	PROD	77	5450	6600	4020	-1020	-30	-50	C0
ATOM	10755	CG	PROD	77	-34.499	16.765	7.428	1.00	43.98	C0
ANISOU10755	CG	PROD	77	5680	6960	4070	-980	-100	40	C0
ATOM	10756	CD	PROD	77	-34.427	18.267	7.608	1.00	43.79	C0
ANISOU10756	CD	PROD	77	5650	6890	4100	-800	-60	190	C0
ATOM	10757	HA	PROD	77	-33.161	17.301	10.275	1.00	40.66	H0
ANISOU10757	HA	PROD	77	5240	6170	4030	-870	100	0	H0
ATOM	10758	HB2	PROD	77	-33.657	15.295	8.636	1.00	42.18	H0
ANISOU10758	HB2	PROD	77	5490	6540	4000	-1110	-10	-150	H0
ATOM	10759	HB3	PROD	77	-34.828	16.095	9.369	1.00	42.38	H0
ANISOU10759	HB3	PROD	77	5360	6660	4080	-1020	-80	-40	H0
ATOM	10760	HG2	PROD	77	-33.901	16.474	6.710	1.00	44.21	H0
ANISOU10760	HG2	PROD	77	5800	6980	4020	-1020	-80	-10	H0
ATOM	10761	HG3	PROD	77	-35.411	16.486	7.210	1.00	44.91	H0
ANISOU10761	HG3	PROD	77	5710	7230	4120	-1020	-200	40	H0
ATOM	10762	HD2	PROD	77	-34.196	18.707	6.770	1.00	44.63	H0
ANISOU10762	HD2	PROD	77	5810	7020	4120	-770	-60	250	H0
ATOM	10763	HD3	PROD	77	-35.274	18.624	7.933	1.00	44.29	H0
ANISOU10763	HD3	PROD	77	5610	7030	4190	-740	-120	240	H0
ATOM	10764	N	ILED	78	-30.847	16.311	9.979	1.00	40.72	N0
ANISOU10764	N	ILED	78	5440	5970	4060	-970	260	-150	N0
ATOM	10765	CA	ILED	78	-29.381	16.054	9.856	1.00	41.15	C0
ANISOU10765	CA	ILED	78	5590	5910	4140	-990	370	-210	C0
ATOM	10766	C	ILED	78	-29.123	14.904	8.872	1.00	42.16	C0
ANISOU10766	C	ILED	78	5800	6070	4150	-1070	370	-310	C0
ATOM	10767	O	ILED	78	-27.988	14.832	8.374	1.00	41.79	O0
ANISOU10767	O	ILED	78	5830	5970	4080	-1060	460	-340	O0
ATOM	10768	CB	ILED	78	-28.724	15.791	11.223	1.00	39.98	C0
ANISOU10768	CB	ILED	78	5410	5640	4150	-980	430	-260	C0
ATOM	10769	CG1	ILED	78	-29.257	14.521	11.890	1.00	40.21	C0
ANISOU10769	CG1	ILED	78	5400	5670	4210	-1050	390	-340	C0
ATOM	10770	CG2	ILED	78	-28.854	17.012	12.117	1.00	39.72	C0
ANISOU10770	CG2	ILED	78	5310	5570	4210	-890	430	-190	C0
ATOM	10771	CD1	ILED	78	-28.424	14.058	13.061	1.00	39.94	C0

ANISOU10771	CD1 ILE D 78	5350	5530	4290	-1030	450	-380	C0
ATOM 10772	H ILE D 78	-31.194	16.108	10.796	1.00	40.29		H0
ANISOU10772	H ILE D 78	5330	5900	4080	-970	240	-170	H0
ATOM 10773	HA ILE D 78	-28.974	16.857	9.485	1.00	41.24		H0
ANISOU10773	HA ILE D 78	5630	5900	4140	-940	400	-150	H0
ATOM 10774	HB ILE D 78	-27.761	15.648	11.059	1.00	39.92		H0
ANISOU10774	HB ILE D 78	5450	5580	4150	-980	490	-290	H0
ATOM 10775	HG12 ILE D 78	-30.172	14.687	12.201	1.00	40.42		H0
ANISOU10775	HG12 ILE D 78	5360	5760	4240	-1040	330	-300	H0
ATOM 10776	HG13 ILE D 78	-29.291	13.801	11.225	1.00	40.87		H0
ANISOU10776	HG13 ILE D 78	5530	5780	4220	-1100	370	-390	H0
ATOM 10777	HG21 ILE D 78	-28.598	17.809	11.621	1.00	40.04		H0
ANISOU10777	HG21 ILE D 78	5390	5590	4230	-860	460	-130	H0
ATOM 10778	HG22 ILE D 78	-28.272	16.913	12.889	1.00	38.95		H0
ANISOU10778	HG22 ILE D 78	5200	5400	4190	-890	480	-220	H0
ATOM 10779	HG23 ILE D 78	-29.775	17.101	12.417	1.00	39.80		H0
ANISOU10779	HG23 ILE D 78	5270	5630	4220	-870	380	-160	H0
ATOM 10780	HD11 ILE D 78	-27.493	13.977	12.787	1.00	39.63		H0
ANISOU10780	HD11 ILE D 78	5360	5440	4250	-1020	510	-410	H0
ATOM 10781	HD12 ILE D 78	-28.746	13.193	13.368	1.00	39.76		H0
ANISOU10781	HD12 ILE D 78	5330	5500	4280	-1080	430	-420	H0
ATOM 10782	HD13 ILE D 78	-28.492	14.704	13.786	1.00	39.21		H0
ANISOU10782	HD13 ILE D 78	5210	5430	4260	-990	460	-340	H0
ATOM 10783	N SER D 79	-30.112	14.040	8.605	1.00	43.89		N0
ANISOU10783	N SER D 79	6000	6370	4300	-1160	280	-360	N0
ATOM 10784	CA SER D 79	-30.003	12.934	7.611	1.00	45.97		C0
ANISOU10784	CA SER D 79	6370	6660	4440	-1250	260	-480	C0
ATOM 10785	C SER D 79	-29.902	13.490	6.181	1.00	47.55		C0
ANISOU10785	C SER D 79	6630	6980	4450	-1230	260	-440	C0
ATOM 10786	O SER D 79	-29.405	12.754	5.311	1.00	48.91		O0
ANISOU10786	O SER D 79	6910	7160	4510	-1280	290	-540	O0
ATOM 10787	CB SER D 79	-31.136	11.953	7.744	1.00	47.26		C0
ANISOU10787	CB SER D 79	6490	6880	4580	-1370	160	-550	C0
ATOM 10788	OG SER D 79	-32.330	12.476	7.187	1.00	49.44		O0
ANISOU10788	OG SER D 79	6690	7350	4750	-1390	40	-480	O0
ATOM 10789	H SER D 79	-30.921	14.055	9.022	1.00	43.88		H0
ANISOU10789	H SER D 79	5930	6420	4320	-1170	210	-340	H0
ATOM 10790	HA SER D 79	-29.156	12.447	7.803	1.00	45.52		H0
ANISOU10790	HA SER D 79	6370	6510	4420	-1250	340	-540	H0
ATOM 10791	HB2 SER D 79	-30.899	11.116	7.283	1.00	48.05		H0
ANISOU10791	HB2 SER D 79	6680	6950	4630	-1440	170	-650	H0
ATOM 10792	HB3 SER D 79	-31.281	11.747	8.695	1.00	46.60		H0
ANISOU10792	HB3 SER D 79	6360	6740	4610	-1370	170	-540	H0
ATOM 10793	N SER D 80	-30.340	14.735	5.943	1.00	47.89		N0
ANISOU10793	N SER D 80	6620	7110	4470	-1150	220	-290	N0
ATOM 10794	CA SER D 80	-30.242	15.439	4.633	1.00	49.42		C0
ANISOU10794	CA SER D 80	6870	7420	4490	-1110	220	-210	C0
ATOM 10795	C SER D 80	-28.873	16.118	4.469	1.00	48.72		C0
ANISOU10795	C SER D 80	6860	7230	4430	-1050	360	-160	C0
ATOM 10796	O SER D 80	-28.621	16.650	3.383	1.00	49.85		O0
ANISOU10796	O SER D 80	7060	7450	4430	-1020	390	-80	O0
ATOM 10797	CB SER D 80	-31.356	16.444	4.466	1.00	50.59		C0
ANISOU10797	CB SER D 80	6940	7690	4590	-1040	110	-60	C0
ATOM 10798	OG SER D 80	-32.605	15.797	4.264	1.00	52.31		O0

ANISOU10798	OG	SER D 80	7080	8070	4730	-1120	-30	-100	O0
ATOM 10799	H	SER D 80	-30.748	15.246	6.576	1.00	47.38		H0
ANISOU10799	H	SER D 80	6480	7040	4480	-1110	200	-230	H0
ATOM 10800	HA	SER D 80	-30.332	14.756	3.914	1.00	50.38		H0
ANISOU10800	HA	SER D 80	7050	7610	4480	-1180	190	-290	H0
ATOM 10801	HB2	SER D 80	-31.407	17.012	5.267	1.00	49.78		H0
ANISOU10801	HB2	SER D 80	6780	7520	4620	-980	130	0	H0
ATOM 10802	HB3	SER D 80	-31.161	17.023	3.695	1.00	51.51		H0
ANISOU10802	HB3	SER D 80	7100	7860	4610	-1000	130	20	H0
ATOM 10803	N	LEU D 81	-28.025	16.106	5.503	1.00	47.30		N0
ANISOU10803	N	LEU D 81	6660	6890	4430	-1030	450	-190	N0
ATOM 10804	CA	LEU D 81	-26.752	16.878	5.558	1.00	46.48		C0
ANISOU10804	CA	LEU D 81	6580	6690	4390	-990	580	-130	C0
ATOM 10805	C	LEU D 81	-25.571	15.954	5.862	1.00	44.92		C0
ANISOU10805	C	LEU D 81	6410	6410	4250	-1010	690	-250	C0
ATOM 10806	O	LEU D 81	-25.780	14.897	6.484	1.00	44.08		O0
ANISOU10806	O	LEU D 81	6290	6260	4200	-1040	660	-360	O0
ATOM 10807	CB	LEU D 81	-26.860	17.922	6.675	1.00	45.95		C0
ANISOU10807	CB	LEU D 81	6440	6520	4490	-930	580	-40	C0
ATOM 10808	CG	LEU D 81	-27.858	19.053	6.456	1.00	46.98		C0
ANISOU10808	CG	LEU D 81	6550	6700	4600	-860	510	110	C0
ATOM 10809	CD1	LEU D 81	-27.778	20.046	7.604	1.00	46.16		C0
ANISOU10809	CD1	LEU D 81	6400	6460	4670	-800	530	160	C0
ATOM 10810	CD2	LEU D 81	-27.617	19.752	5.124	1.00	48.56		C0
ANISOU10810	CD2	LEU D 81	6830	6970	4650	-840	540	230	C0
ATOM 10811	H	LEU D 81	-28.174	15.615	6.252	1.00	46.42		H0
ANISOU10811	H	LEU D 81	6510	6730	4400	-1050	440	-250	H0
ATOM 10812	HA	LEU D 81	-26.603	17.321	4.692	1.00	47.45		H0
ANISOU10812	HA	LEU D 81	6750	6870	4410	-970	610	-60	H0
ATOM 10813	HB2	LEU D 81	-27.100	17.458	7.502	1.00	45.06		H0
ANISOU10813	HB2	LEU D 81	6280	6370	4470	-940	560	-100	H0
ATOM 10814	HB3	LEU D 81	-25.975	18.317	6.809	1.00	45.68		H0
ANISOU10814	HB3	LEU D 81	6420	6420	4520	-920	670	-20	H0
ATOM 10815	HG	LEU D 81	-28.768	18.666	6.443	1.00	47.13		H0
ANISOU10815	HG	LEU D 81	6530	6800	4570	-870	420	90	H0
ATOM 10816	HD11	LEU D 81	-27.938	19.584	8.445	1.00	45.26		H0
ANISOU10816	HD11	LEU D 81	6240	6320	4640	-810	510	90	H0
ATOM 10817	HD12	LEU D 81	-28.451	20.739	7.483	1.00	46.76		H0
ANISOU10817	HD12	LEU D 81	6470	6560	4740	-740	490	250	H0
ATOM 10818	HD13	LEU D 81	-26.894	20.453	7.621	1.00	46.09		H0
ANISOU10818	HD13	LEU D 81	6430	6380	4710	-810	610	180	H0
ATOM 10819	HD21	LEU D 81	-26.661	19.874	4.990	1.00	48.51		H0
ANISOU10819	HD21	LEU D 81	6860	6910	4660	-860	630	230	H0
ATOM 10820	HD22	LEU D 81	-28.056	20.620	5.128	1.00	49.01		H0
ANISOU10820	HD22	LEU D 81	6880	7020	4720	-780	510	340	H0
ATOM 10821	HD23	LEU D 81	-27.979	19.210	4.402	1.00	49.31		H0
ANISOU10821	HD23	LEU D 81	6950	7180	4610	-870	490	200	H0
ATOM 10822	N	TRP D 82	-24.362	16.382	5.499	1.00	44.42		N0
ANISOU10822	N	TRP D 82	6370	6330	4180	-990	810	-220	N0
ATOM 10823	CA	TRP D 82	-23.115	15.864	6.114	1.00	43.45		C0
ANISOU10823	CA	TRP D 82	6220	6120	4160	-990	920	-300	C0
ATOM 10824	C	TRP D 82	-22.976	16.485	7.505	1.00	42.11		C0
ANISOU10824	C	TRP D 82	5960	5850	4190	-970	910	-260	C0
ATOM 10825	O	TRP D 82	-23.154	17.708	7.633	1.00	42.18		O0

ANISOU10825	O	TRP D 82	5950	5830	4240	-960	900	-140	O0
ATOM 10826	CB	TRP D 82	-21.877	16.141	5.258	1.00	44.17		C0
ANISOU10826	CB	TRP D 82	6350	6250	4180	-980	1060	-270	C0
ATOM 10827	CG	TRP D 82	-20.614	15.680	5.918	1.00	43.64		C0
ANISOU10827	CG	TRP D 82	6220	6130	4230	-960	1160	-330	C0
ATOM 10828	CD1	TRP D 82	-20.051	14.439	5.847	1.00	43.82		C0
ANISOU10828	CD1	TRP D 82	6270	6150	4230	-930	1220	-460	C0
ATOM 10829	CD2	TRP D 82	-19.772	16.450	6.794	1.00	43.07		C0
ANISOU10829	CD2	TRP D 82	6050	6000	4310	-970	1220	-270	C0
ATOM 10830	NE1	TRP D 82	-18.906	14.392	6.596	1.00	43.39		N0
ANISOU10830	NE1	TRP D 82	6120	6060	4300	-900	1300	-470	N0
ATOM 10831	CE2	TRP D 82	-18.710	15.610	7.189	1.00	42.96		C0
ANISOU10831	CE2	TRP D 82	5990	5980	4350	-930	1300	-360	C0
ATOM 10832	CE3	TRP D 82	-19.809	17.763	7.276	1.00	43.10		C0
ANISOU10832	CE3	TRP D 82	6020	5950	4410	-990	1200	-160	C0
ATOM 10833	CZ2	TRP D 82	-17.697	16.044	8.043	1.00	43.03		C0
ANISOU10833	CZ2	TRP D 82	5890	5970	4500	-940	1350	-340	C0
ATOM 10834	CZ3	TRP D 82	-18.802	18.195	8.113	1.00	43.06		C0
ANISOU10834	CZ3	TRP D 82	5920	5900	4540	-1020	1260	-160	C0
ATOM 10835	CH2	TRP D 82	-17.763	17.344	8.493	1.00	42.86		C0
ANISOU10835	CH2	TRP D 82	5820	5900	4560	-990	1330	-240	C0
ATOM 10836	H	TRP D 82	-24.225	17.015	4.858	1.00	45.28		H0
ANISOU10836	H	TRP D 82	6510	6480	4220	-980	840	-140	H0
ATOM 10837	HA	TRP D 82	-23.206	14.888	6.208	1.00	43.41		H0
ANISOU10837	HA	TRP D 82	6240	6110	4150	-1000	910	-400	H0
ATOM 10838	HB2	TRP D 82	-21.981	15.684	4.398	1.00	45.18		H0
ANISOU10838	HB2	TRP D 82	6540	6450	4170	-980	1060	-300	H0
ATOM 10839	HB3	TRP D 82	-21.823	17.103	5.087	1.00	44.50		H0
ANISOU10839	HB3	TRP D 82	6380	6300	4230	-980	1070	-160	H0
ATOM 10840	HD1	TRP D 82	-20.386	13.718	5.337	1.00	44.47		H0
ANISOU10840	HD1	TRP D 82	6420	6260	4220	-930	1200	-530	H0
ATOM 10841	HE1	TRP D 82	-18.385	13.696	6.679	1.00	43.70		H0
ANISOU10841	HE1	TRP D 82	6160	6090	4350	-860	1350	-530	H0
ATOM 10842	HE3	TRP D 82	-20.506	18.346	7.022	1.00	43.25		H0
ANISOU10842	HE3	TRP D 82	6070	5960	4400	-1000	1150	-100	H0
ATOM 10843	HZ2	TRP D 82	-16.994	15.470	8.297	1.00	43.03		H0
ANISOU10843	HZ2	TRP D 82	5840	5980	4530	-900	1410	-390	H0
ATOM 10844	HZ3	TRP D 82	-18.819	19.080	8.442	1.00	42.87		H0
ANISOU10844	HZ3	TRP D 82	5880	5820	4590	-1050	1250	-90	H0
ATOM 10845	HH2	TRP D 82	-17.091	17.665	9.069	1.00	42.71		H0
ANISOU10845	HH2	TRP D 82	5730	5870	4630	-1010	1360	-230	H0
ATOM 10846	N	VAL D 83	-22.670	15.657	8.499	1.00	41.48		N0
ANISOU10846	N	VAL D 83	5840	5710	4210	-970	920	-350	N0
ATOM 10847	CA	VAL D 83	-22.461	16.067	9.915	1.00	41.17		C0
ANISOU10847	CA	VAL D 83	5710	5590	4340	-950	910	-330	C0
ATOM 10848	C	VAL D 83	-21.125	15.480	10.354	1.00	40.78		C0
ANISOU10848	C	VAL D 83	5620	5520	4360	-940	1000	-390	C0
ATOM 10849	O	VAL D 83	-20.832	14.325	10.050	1.00	40.87		O0
ANISOU10849	O	VAL D 83	5670	5530	4320	-920	1030	-480	O0
ATOM 10850	CB	VAL D 83	-23.638	15.585	10.791	1.00	40.97		C0
ANISOU10850	CB	VAL D 83	5660	5550	4360	-950	800	-360	C0
ATOM 10851	CG1	VAL D 83	-23.378	15.775	12.277	1.00	40.55		C0
ANISOU10851	CG1	VAL D 83	5520	5440	4450	-930	800	-370	C0
ATOM 10852	CG2	VAL D 83	-24.930	16.273	10.385	1.00	41.37		C0

ANISOU10852	CG2 VAL D 83	5720	5650	4350	-950	710	-290	C0
ATOM 10853	H VAL D 83	-22.570	14.761	8.370	1.00	41.77		H0
ANISOU10853	H VAL D 83	5900	5740	4220	-970	930	-420	H0
ATOM 10854	HA VAL D 83	-22.413	17.037	9.956	1.00	41.13		H0
ANISOU10854	HA VAL D 83	5690	5570	4360	-950	910	-260	H0
ATOM 10855	HB VAL D 83	-23.749	14.616	10.626	1.00	41.14		H0
ANISOU10855	HB VAL D 83	5710	5570	4350	-970	790	-430	H0
ATOM 10856	HG11 VAL D 83	-22.726	15.120	12.581	1.00	40.25		H0
ANISOU10856	HG11 VAL D 83	5470	5380	4440	-920	840	-420	H0
ATOM 10857	HG12 VAL D 83	-24.208	15.655	12.771	1.00	40.03		H0
ANISOU10857	HG12 VAL D 83	5430	5370	4400	-930	730	-370	H0
ATOM 10858	HG13 VAL D 83	-23.035	16.671	12.436	1.00	40.36		H0
ANISOU10858	HG13 VAL D 83	5470	5390	4470	-930	820	-330	H0
ATOM 10859	HG21 VAL D 83	-24.789	17.235	10.353	1.00	41.48		H0
ANISOU10859	HG21 VAL D 83	5720	5650	4390	-930	730	-220	H0
ATOM 10860	HG22 VAL D 83	-25.624	16.069	11.034	1.00	40.91		H0
ANISOU10860	HG22 VAL D 83	5620	5590	4330	-950	650	-300	H0
ATOM 10861	HG23 VAL D 83	-25.205	15.957	9.507	1.00	42.07		H0
ANISOU10861	HG23 VAL D 83	5850	5800	4340	-970	700	-300	H0
ATOM 10862	N PROD 84	-20.249	16.246	11.041	1.00	40.67		N0
ANISOU10862	N PROD 84	5530	5480	4440	-940	1040	-360	N0
ATOM 10863	CA PROD 84	-19.002	15.677	11.545	1.00	40.80		C0
ANISOU10863	CA PROD 84	5470	5500	4520	-910	1120	-410	C0
ATOM 10864	C PROD 84	-19.287	14.471	12.457	1.00	40.30		C0
ANISOU10864	C PROD 84	5400	5410	4510	-870	1070	-480	C0
ATOM 10865	O PROD 84	-20.220	14.516	13.241	1.00	39.75		O0
ANISOU10865	O PROD 84	5320	5300	4480	-880	990	-480	O0
ATOM 10866	CB PROD 84	-18.312	16.845	12.271	1.00	40.72		C0
ANISOU10866	CB PROD 84	5370	5480	4620	-950	1140	-360	C0
ATOM 10867	CG PROD 84	-19.406	17.874	12.487	1.00	40.26		C0
ANISOU10867	CG PROD 84	5360	5360	4580	-980	1060	-310	C0
ATOM 10868	CD PROD 84	-20.379	17.678	11.344	1.00	40.79		C0
ANISOU10868	CD PROD 84	5520	5460	4520	-970	1030	-280	C0
ATOM 10869	HA PROD 84	-18.443	15.395	10.778	1.00	41.57		H0
ANISOU10869	HA PROD 84	5590	5640	4560	-900	1190	-420	H0
ATOM 10870	HB2 PROD 84	-17.937	16.551	13.127	1.00	40.32		H0
ANISOU10870	HB2 PROD 84	5260	5430	4630	-940	1130	-390	H0
ATOM 10871	HB3 PROD 84	-17.590	17.218	11.722	1.00	41.43		H0
ANISOU10871	HB3 PROD 84	5450	5600	4690	-980	1210	-330	H0
ATOM 10872	HG2 PROD 84	-19.851	17.729	13.347	1.00	39.63		H0
ANISOU10872	HG2 PROD 84	5250	5260	4550	-960	1000	-330	H0
ATOM 10873	HG3 PROD 84	-19.035	18.780	12.474	1.00	40.71		H0
ANISOU10873	HG3 PROD 84	5400	5400	4670	-1020	1080	-260	H0
ATOM 10874	HD2 PROD 84	-21.287	17.902	11.617	1.00	40.36		H0
ANISOU10874	HD2 PROD 84	5480	5380	4470	-960	960	-260	H0
ATOM 10875	HD3 PROD 84	-20.133	18.224	10.574	1.00	41.46		H0
ANISOU10875	HD3 PROD 84	5640	5560	4560	-990	1070	-220	H0
ATOM 10876	N ASP D 85	-18.485	13.415	12.304	1.00	40.67		N0
ANISOU10876	N ASP D 85	5450	5460	4540	-810	1140	-540	N0
ATOM 10877	CA ASP D 85	-18.519	12.180	13.130	1.00	40.11		C0
ANISOU10877	CA ASP D 85	5370	5340	4520	-750	1120	-590	C0
ATOM 10878	C ASP D 85	-17.811	12.447	14.465	1.00	39.98		C0
ANISOU10878	C ASP D 85	5230	5340	4620	-720	1110	-560	C0
ATOM 10879	O ASP D 85	-16.855	11.717	14.786	1.00	40.56		O0

ANISOU10879	O	ASPD	85	5250	5430	4720	-640	1170	-580	O0
ATOM 10880	CB	ASPD	85	-17.873	11.013	12.377	1.00	41.06		C0
ANISOU10880	CB	ASPD	85	5560	5450	4590	-680	1210	-660	C0
ATOM 10881	CG	ASPD	85	-16.419	11.243	11.990	1.00	41.86		C0
ANISOU10881	CG	ASPD	85	5580	5630	4690	-630	1330	-650	C0
ATOM 10882	OD1	ASPD	85	-15.993	12.420	11.955	1.00	41.39		O0
ANISOU10882	OD1	ASPD	85	5440	5640	4650	-680	1340	-590	O0
ATOM 10883	OD2	ASPD	85	-15.721	10.241	11.724	1.00	42.73		O0
ANISOU10883	OD2	ASPD	85	5710	5730	4790	-530	1410	-710	O0
ATOM 10884	H	ASPD	85	-17.846	13.393	11.657	1.00	41.34		H0
ANISOU10884	H	ASPD	85	5540	5580	4590	-800	1210	-540	H0
ATOM 10885	HA	ASPD	85	-19.461	11.952	13.311	1.00	39.81		H0
ANISOU10885	HA	ASPD	85	5380	5270	4480	-780	1050	-600	H0
ATOM 10886	HB2	ASPD	85	-17.918	10.210	12.934	1.00	41.04		H0
ANISOU10886	HB2	ASPD	85	5570	5390	4630	-640	1200	-680	H0
ATOM 10887	HB3	ASPD	85	-18.383	10.844	11.559	1.00	41.47		H0
ANISOU10887	HB3	ASPD	85	5700	5490	4560	-710	1200	-690	H0
ATOM 10888	N	LEUD	86	-18.250	13.463	15.213	1.00	39.80		N0
ANISOU10888	N	LEUD	86	5150	5330	4640	-770	1050	-520	N0
ATOM 10889	CA	LEUD	86	-17.666	13.799	16.539	1.00	39.71		C0
ANISOU10889	CA	LEUD	86	5030	5350	4710	-760	1020	-520	C0
ATOM 10890	C	LEUD	86	-18.045	12.699	17.533	1.00	39.36		C0
ANISOU10890	C	LEUD	86	4980	5280	4690	-700	980	-530	C0
ATOM 10891	O	LEUD	86	-19.181	12.210	17.483	1.00	38.75		O0
ANISOU10891	O	LEUD	86	4980	5150	4590	-710	930	-530	O0
ATOM 10892	CB	LEUD	86	-18.163	15.166	17.019	1.00	39.42		C0
ANISOU10892	CB	LEUD	86	4970	5300	4710	-830	970	-490	C0
ATOM 10893	CG	LEUD	86	-17.821	16.357	16.123	1.00	40.14		C0
ANISOU10893	CG	LEUD	86	5070	5390	4790	-900	1010	-460	C0
ATOM 10894	CD1	LEUD	86	-18.212	17.663	16.803	1.00	40.40		C0
ANISOU10894	CD1	LEUD	86	5090	5380	4870	-950	960	-450	C0
ATOM 10895	CD2	LEUD	86	-16.346	16.367	15.748	1.00	40.53		C0
ANISOU10895	CD2	LEUD	86	5040	5510	4850	-910	1110	-460	C0
ATOM 10896	H	LEUD	86	-18.946	13.994	14.968	1.00	39.48		H0
ANISOU10896	H	LEUD	86	5150	5270	4580	-820	1010	-510	H0
ATOM 10897	HA	LEUD	86	-16.686	13.818	16.449	1.00	40.25		H0
ANISOU10897	HA	LEUD	86	5030	5460	4790	-740	1080	-520	H0
ATOM 10898	HB2	LEUD	86	-19.135	15.121	17.114	1.00	38.97		H0
ANISOU10898	HB2	LEUD	86	4960	5210	4640	-830	920	-490	H0
ATOM 10899	HB3	LEUD	86	-17.789	15.332	17.907	1.00	39.33		H0
ANISOU10899	HB3	LEUD	86	4880	5320	4740	-830	950	-500	H0
ATOM 10900	HG	LEUD	86	-18.349	16.275	15.292	1.00	40.17		H0
ANISOU10900	HG	LEUD	86	5150	5380	4740	-900	1020	-440	H0
ATOM 10901	HD11	LEUD	86	-19.164	17.652	17.005	1.00	39.78		H0
ANISOU10901	HD11	LEUD	86	5060	5280	4780	-940	910	-440	H0
ATOM 10902	HD12	LEUD	86	-18.015	18.409	16.211	1.00	40.76		H0
ANISOU10902	HD12	LEUD	86	5160	5410	4920	-1000	1000	-410	H0
ATOM 10903	HD13	LEUD	86	-17.707	17.763	17.629	1.00	40.28		H0
ANISOU10903	HD13	LEUD	86	5010	5390	4900	-960	950	-470	H0
ATOM 10904	HD21	LEUD	86	-15.810	16.159	16.533	1.00	40.72		H0
ANISOU10904	HD21	LEUD	86	4980	5570	4910	-890	1100	-480	H0
ATOM 10905	HD22	LEUD	86	-16.101	17.247	15.413	1.00	41.13		H0
ANISOU10905	HD22	LEUD	86	5110	5580	4930	-970	1130	-430	H0
ATOM 10906	HD23	LEUD	86	-16.181	15.701	15.058	1.00	41.03		H0

ANISOU10906	HD23 LEU D 86	5140	5590	4860	-870	1150	-460	H0
ATOM 10907	N ALA D 87	-17.089	12.307	18.366	1.00	40.14		N0
ANISOU10907	N ALA D 87	4990	5430	4840	-640	990	-520	N0
ATOM 10908	CA ALA D 87	-17.265	11.366	19.488	1.00	40.53		C0
ANISOU10908	CA ALA D 87	5020	5470	4910	-570	960	-510	C0
ATOM 10909	C ALA D 87	-16.568	11.958	20.710	1.00	40.98		C0
ANISOU10909	C ALA D 87	4940	5630	5000	-560	920	-490	C0
ATOM 10910	O ALA D 87	-15.457	12.477	20.557	1.00	40.36		O0
ANISOU10910	O ALA D 87	4760	5630	4940	-560	960	-500	O0
ATOM 10911	CB ALA D 87	-16.691	10.021	19.122	1.00	41.42		C0
ANISOU10911	CB ALA D 87	5180	5540	5020	-460	1020	-510	C0
ATOM 10912	H ALA D 87	-16.228	12.598	18.298	1.00	40.59		H0
ANISOU10912	H ALA D 87	4980	5540	4910	-630	1030	-520	H0
ATOM 10913	HA ALA D 87	-18.227	11.269	19.681	1.00	40.04		H0
ANISOU10913	HA ALA D 87	5010	5360	4840	-600	910	-500	H0
ATOM 10914	HB1 ALA D 87	-16.807	9.405	19.864	1.00	41.49		H0
ANISOU10914	HB1 ALA D 87	5180	5530	5050	-420	1000	-490	H0
ATOM 10915	HB2 ALA D 87	-17.149	9.674	18.339	1.00	41.52		H0
ANISOU10915	HB2 ALA D 87	5280	5480	5010	-480	1040	-540	H0
ATOM 10916	HB3 ALA D 87	-15.743	10.115	18.926	1.00	41.99		H0
ANISOU10916	HB3 ALA D 87	5180	5670	5100	-420	1070	-510	H0
ATOM 10917	N ALA D 88	-17.212	11.896	21.872	1.00	42.19		N0
ANISOU10917	N ALA D 88	5080	5790	5160	-550	850	-470	N0
ATOM 10918	CA ALA D 88	-16.564	12.162	23.173	1.00	43.28		C0
ANISOU10918	CA ALA D 88	5090	6050	5310	-530	810	-460	C0
ATOM 10919	C ALA D 88	-15.674	10.959	23.495	1.00	44.66		C0
ANISOU10919	C ALA D 88	5220	6260	5490	-400	840	-420	C0
ATOM 10920	O ALA D 88	-16.214	9.850	23.657	1.00	45.33		O0
ANISOU10920	O ALA D 88	5390	6270	5570	-340	840	-370	O0
ATOM 10921	CB ALA D 88	-17.603	12.412	24.232	1.00	42.97		C0
ANISOU10921	CB ALA D 88	5070	6020	5240	-550	740	-460	C0
ATOM 10922	H ALA D 88	-18.094	11.681	21.952	1.00	41.57		H0
ANISOU10922	H ALA D 88	5060	5670	5070	-570	830	-460	H0
ATOM 10923	HA ALA D 88	-15.999	12.963	23.084	1.00	43.47		H0
ANISOU10923	HA ALA D 88	5050	6120	5340	-570	810	-490	H0
ATOM 10924	HB1 ALA D 88	-17.183	12.833	24.999	1.00	43.15		H0
ANISOU10924	HB1 ALA D 88	5010	6120	5260	-550	710	-470	H0
ATOM 10925	HB2 ALA D 88	-18.292	13.000	23.879	1.00	42.41		H0
ANISOU10925	HB2 ALA D 88	5040	5900	5170	-610	730	-480	H0
ATOM 10926	HB3 ALA D 88	-18.004	11.570	24.501	1.00	42.90		H0
ANISOU10926	HB3 ALA D 88	5090	5980	5230	-500	730	-420	H0
ATOM 10927	N TYR D 89	-14.358	11.171	23.544	1.00	46.17		N0
ANISOU10927	N TYR D 89	5280	6570	5690	-370	860	-420	N0
ATOM 10928	CA TYR D 89	-13.319	10.110	23.631	1.00	47.55		C0
ANISOU10928	CA TYR D 89	5390	6800	5880	-220	900	-370	C0
ATOM 10929	C TYR D 89	-13.474	9.294	24.925	1.00	46.72		C0
ANISOU10929	C TYR D 89	5270	6730	5760	-120	850	-300	C0
ATOM 10930	O TYR D 89	-13.245	8.071	24.867	1.00	47.56		O0
ANISOU10930	O TYR D 89	5420	6770	5880	20	890	-240	O0
ATOM 10931	CB TYR D 89	-11.921	10.728	23.495	1.00	49.85		C0
ANISOU10931	CB TYR D 89	5500	7250	6190	-220	930	-390	C0
ATOM 10932	CG TYR D 89	-11.538	11.230	22.119	1.00	51.05		C0
ANISOU10932	CG TYR D 89	5670	7380	6350	-290	1010	-430	C0
ATOM 10933	CD1 TYR D 89	-12.279	10.912	20.988	1.00	51.59		C0

ANISOU10933	CD1 TYR D 89	5900	7300	6400	-300	1070	-450	C0
ATOM 10934	CD2 TYR D 89	-10.384	11.980	21.935	1.00	53.02		C0
ANISOU10934	CD2 TYR D 89	5750	7780	6610	-340	1040	-440	C0
ATOM 10935	CE1 TYR D 89	-11.907	11.351	19.727	1.00	52.22		C0
ANISOU10935	CE1 TYR D 89	5990	7380	6470	-350	1160	-480	C0
ATOM 10936	CE2 TYR D 89	-9.994	12.422	20.680	1.00	53.58		C0
ANISOU10936	CE2 TYR D 89	5830	7840	6690	-400	1140	-460	C0
ATOM 10937	CZ TYR D 89	-10.762	12.111	19.571	1.00	53.57		C0
ANISOU10937	CZ TYR D 89	6010	7690	6660	-400	1190	-480	C0
ATOM 10938	OH TYR D 89	-10.395	12.533	18.324	1.00	56.83		O0
ANISOU10938	OH TYR D 89	6430	8110	7050	-450	1290	-490	O0
ATOM 10939	H TYR D 89	-13.995	12.007	23.528	1.00	46.13		H0
ANISOU10939	H TYR D 89	5210	6620	5690	-430	850	-450	H0
ATOM 10940	HA TYR D 89	-13.456	9.489	22.874	1.00	47.64		H0
ANISOU10940	HA TYR D 89	5490	6710	5900	-180	960	-380	H0
ATOM 10941	HB2 TYR D 89	-11.854	11.473	24.127	1.00	49.69		H0
ANISOU10941	HB2 TYR D 89	5410	7310	6160	-300	870	-410	H0
ATOM 10942	HB3 TYR D 89	-11.268	10.054	23.768	1.00	50.71		H0
ANISOU10942	HB3 TYR D 89	5550	7420	6300	-110	940	-350	H0
ATOM 10943	HD1 TYR D 89	-13.062	10.397	21.077	1.00	50.91		H0
ANISOU10943	HD1 TYR D 89	5920	7110	6310	-280	1050	-450	H0
ATOM 10944	HD2 TYR D 89	-9.854	12.198	22.684	1.00	53.41		H0
ANISOU10944	HD2 TYR D 89	5680	7940	6670	-350	1000	-440	H0
ATOM 10945	HE1 TYR D 89	-12.433	11.132	18.975	1.00	51.95		H0
ANISOU10945	HE1 TYR D 89	6070	7250	6410	-360	1190	-490	H0
ATOM 10946	HE2 TYR D 89	-9.212	12.941	20.582	1.00	54.44		H0
ANISOU10946	HE2 TYR D 89	5820	8060	6810	-450	1160	-460	H0
ATOM 10947	N ASN D 90	-13.861	9.925	26.042	1.00	45.74		N0
ANISOU10947	N ASN D 90	5090	6690	5600	-180	760	-300	N0
ATOM 10948	CA ASN D 90	-13.952	9.270	27.381	1.00	45.89		C0
ANISOU10948	CA ASN D 90	5080	6780	5580	-80	700	-220	C0
ATOM 10949	C ASN D 90	-15.419	9.015	27.773	1.00	44.77		C0
ANISOU10949	C ASN D 90	5070	6530	5410	-130	680	-200	C0
ATOM 10950	O ASN D 90	-15.693	8.906	28.984	1.00	44.80		O0
ANISOU10950	O ASN D 90	5040	6630	5360	-100	630	-140	O0
ATOM 10951	CB ASN D 90	-13.198	10.065	28.456	1.00	46.36		C0
ANISOU10951	CB ASN D 90	4970	7060	5590	-100	620	-240	C0
ATOM 10952	CG ASN D 90	-13.628	11.514	28.566	1.00	45.87		C0
ANISOU10952	CG ASN D 90	4890	7020	5510	-270	580	-350	C0
ATOM 10953	OD1 ASN D 90	-13.932	12.161	27.565	1.00	44.87		O0
ANISOU10953	OD1 ASN D 90	4830	6790	5430	-370	620	-410	O0
ATOM 10954	ND2 ASN D 90	-13.640	12.041	29.780	1.00	46.92		N0
ANISOU10954	ND2 ASN D 90	4960	7290	5570	-300	500	-380	N0
ATOM 10955	H ASN D 90	-14.101	10.803	26.047	1.00	45.28		H0
ANISOU10955	H ASN D 90	5020	6650	5530	-270	740	-350	H0
ATOM 10956	HA ASN D 90	-13.506	8.393	27.313	1.00	46.65		H0
ANISOU10956	HA ASN D 90	5180	6860	5690	30	740	-160	H0
ATOM 10957	HB2 ASN D 90	-13.332	9.628	29.321	1.00	46.89		H0
ANISOU10957	HB2 ASN D 90	5020	7180	5610	-40	590	-180	H0
ATOM 10958	HB3 ASN D 90	-12.241	10.035	28.251	1.00	47.27		H0
ANISOU10958	HB3 ASN D 90	4980	7260	5720	-60	640	-240	H0
ATOM 10959	HD21 ASN D 90	-14.180	12.716	29.963	1.00	46.25		H0
ANISOU10959	HD21 ASN D 90	4910	7190	5480	-370	480	-430	H0
ATOM 10960	HD22 ASN D 90	-13.108	11.718	30.408	1.00	47.55		H0

ANISOU10960	HD22	ASN	D	90	4960	7490	5620	-240	470	-340	H0
ATOM	10961	N	ALAD	91	-16.330	8.880	26.802	1.00	43.67		N0
ANISOU10961	N	ALAD	91	5060	6230	5300	-190	720	-220		N0
ATOM	10962	CA	ALAD	91	-17.741	8.485	27.042	1.00	43.00		C0
ANISOU10962	CA	ALAD	91	5090	6040	5210	-240	710	-190		C0
ATOM	10963	C	ALAD	91	-17.805	6.986	27.353	1.00	43.41		C0
ANISOU10963	C	ALAD	91	5210	6010	5270	-140	740	-80		C0
ATOM	10964	O	ALAD	91	-17.049	6.222	26.729	1.00	44.26		O0
ANISOU10964	O	ALAD	91	5360	6040	5420	-50	790	-70		O0
ATOM	10965	CB	ALAD	91	-18.609	8.823	25.854	1.00	42.24		C0
ANISOU10965	CB	ALAD	91	5090	5830	5130	-340	730	-250		C0
ATOM	10966	H	ALAD	91	-16.151	9.015	25.920	1.00	43.56		H0
ANISOU10966	H	ALAD	91	5070	6160	5320	-220	760	-260		H0
ATOM	10967	HA	ALAD	91	-18.073	8.981	27.826	1.00	42.75		H0
ANISOU10967	HA	ALAD	91	5010	6090	5130	-270	670	-190		H0
ATOM	10968	HB1	ALAD	91	-19.500	8.460	25.990	1.00	42.04		H0
ANISOU10968	HB1	ALAD	91	5130	5750	5100	-370	720	-220		H0
ATOM	10969	HB2	ALAD	91	-18.664	9.788	25.757	1.00	41.72		H0
ANISOU10969	HB2	ALAD	91	4990	5810	5050	-400	710	-300		H0
ATOM	10970	HB3	ALAD	91	-18.224	8.438	25.049	1.00	42.46		H0
ANISOU10970	HB3	ALAD	91	5160	5790	5180	-320	780	-270		H0
ATOM	10971	N	ILED	92	-18.675	6.590	28.286	1.00	43.36		N0
ANISOU10971	N	ILED	92	5240	6000	5230	-150	710	0		N0
ATOM	10972	CA	ILED	92	-18.929	5.159	28.639	1.00	44.94		C0
ANISOU10972	CA	ILED	92	5530	6090	5450	-90	740	120		C0
ATOM	10973	C	ILED	92	-20.405	4.811	28.401	1.00	44.71		C0
ANISOU10973	C	ILED	92	5620	5940	5440	-210	750	130		C0
ATOM	10974	O	ILED	92	-20.813	3.713	28.805	1.00	46.70		O0
ANISOU10974	O	ILED	92	5950	6090	5710	-200	770	240		O0
ATOM	10975	CB	ILED	92	-18.484	4.862	30.085	1.00	45.62		C0
ANISOU10975	CB	ILED	92	5540	6320	5480	20	710	240		C0
ATOM	10976	CG1	ILED	92	-19.275	5.666	31.123	1.00	44.76		C0
ANISOU10976	CG1	ILED	92	5360	6360	5280	-50	650	240		C0
ATOM	10977	CG2	ILED	92	-16.983	5.082	30.218	1.00	46.57		C0
ANISOU10977	CG2	ILED	92	5530	6570	5590	150	690	230		C0
ATOM	10978	CD1	ILED	92	-19.012	5.245	32.550	1.00	46.01		C0
ANISOU10978	CD1	ILED	92	5460	6670	5360	40	620	370		C0
ATOM	10979	H	ILED	92	-19.166	7.179	28.778	1.00	43.08		H0
ANISOU10979	H	ILED	92	5170	6040	5160	-210	680	-20		H0
ATOM	10980	HA	ILED	92	-18.394	4.604	28.046	1.00	45.33		H0
ANISOU10980	HA	ILED	92	5630	6050	5550	-30	780	110		H0
ATOM	10981	HB	ILED	92	-18.660	3.906	30.257	1.00	46.52		H0
ANISOU10981	HB	ILED	92	5730	6330	5610	70	740	330		H0
ATOM	10982	HG12	ILED	92	-19.046	6.615	31.028	1.00	44.22		H0
ANISOU10982	HG12	ILED	92	5220	6380	5200	-90	620	150		H0
ATOM	10983	HG13	ILED	92	-20.233	5.567	30.938	1.00	44.46		H0
ANISOU10983	HG13	ILED	92	5390	6250	5250	-140	670	240		H0
ATOM	10984	HG21	ILED	92	-16.517	4.575	29.530	1.00	46.90		H0
ANISOU10984	HG21	ILED	92	5610	6520	5690	200	740	220		H0
ATOM	10985	HG22	ILED	92	-16.684	4.784	31.094	1.00	47.35		H0
ANISOU10985	HG22	ILED	92	5580	6760	5650	220	670	310		H0
ATOM	10986	HG23	ILED	92	-16.781	6.028	30.114	1.00	45.84		H0
ANISOU10986	HG23	ILED	92	5360	6570	5480	90	670	140		H0
ATOM	10987	HD11	ILED	92	-19.056	4.275	32.616	1.00	46.84		H0

ANISOU10987 HD11 ILE D 92	5640	6670	5490	100	650	470	H0
ATOM 10988 HD12 ILE D 92	-19.681	5.638	33.135	1.00	45.79		H0
ANISOU10988 HD12 ILE D 92	5410	6710	5270	-10	600	370	H0
ATOM 10989 HD13 ILE D 92	-18.128	5.547	32.821	1.00	46.37		H0
ANISOU10989 HD13 ILE D 92	5420	6830	5370	110	590	350	H0
ATOM 10990 N SER D 93	-21.173	5.701	27.768	1.00	43.67		N0
ANISOU10990 N SER D 93	5480	5810	5300	-330	730	40	N0
ATOM 10991 CA SER D 93	-22.557	5.430	27.301	1.00	44.25		C0
ANISOU10991 CA SER D 93	5640	5790	5380	-460	730	30	C0
ATOM 10992 C SER D 93	-22.764	6.070	25.925	1.00	44.51		C0
ANISOU10992 C SER D 93	5700	5780	5430	-540	730	-90	C0
ATOM 10993 O SER D 93	-22.027	7.019	25.579	1.00	43.74		O0
ANISOU10993 O SER D 93	5540	5750	5320	-510	730	-160	O0
ATOM 10994 CB SER D 93	-23.596	5.886	28.307	1.00	43.34		C0
ANISOU10994 CB SER D 93	5450	5800	5210	-520	700	80	C0
ATOM 10995 OG SER D 93	-23.773	7.294	28.277	1.00	41.57		O0
ANISOU10995 OG SER D 93	5150	5700	4950	-550	670	-10	O0
ATOM 10996 H SER D 93	-20.905	6.549	27.574	1.00	43.22		H0
ANISOU10996 H SER D 93	5370	5830	5230	-350	720	-30	H0
ATOM 10997 HA SER D 93	-22.650	4.446	27.191	1.00	44.97		H0
ANISOU10997 HA SER D 93	5810	5770	5510	-460	760	80	H0
ATOM 10998 HB2 SER D 93	-24.454	5.446	28.109	1.00	43.55		H0
ANISOU10998 HB2 SER D 93	5530	5760	5250	-600	710	110	H0
ATOM 10999 HB3 SER D 93	-23.315	5.612	29.209	1.00	43.86		H0
ANISOU10999 HB3 SER D 93	5490	5920	5250	-460	700	150	H0
ATOM 11000 N LYS D 94	-23.703	5.523	25.156	1.00	47.01		N0
ANISOU11000 N LYS D 94	6110	5980	5770	-640	740	-100	N0
ATOM 11001 CA LYS D 94	-24.155	6.075	23.854	1.00	48.32		C0
ANISOU11001 CA LYS D 94	6310	6130	5920	-730	730	-200	C0
ATOM 11002 C LYS D 94	-24.709	7.470	24.123	1.00	46.77		C0
ANISOU11002 C LYS D 94	6010	6070	5690	-760	680	-220	C0
ATOM 11003 O LYS D 94	-25.349	7.683	25.146	1.00	46.29		O0
ANISOU11003 O LYS D 94	5880	6100	5600	-770	660	-170	O0
ATOM 11004 CB LYS D 94	-25.209	5.133	23.260	1.00	51.51		C0
ANISOU11004 CB LYS D 94	6820	6410	6340	-850	720	-200	C0
ATOM 11005 CG LYS D 94	-25.418	5.215	21.755	1.00	53.43		C0
ANISOU11005 CG LYS D 94	7140	6600	6560	-920	720	-310	C0
ATOM 11006 CD LYS D 94	-26.175	4.018	21.194	1.00	56.12		C0
ANISOU11006 CD LYS D 94	7600	6800	6920	-1040	720	-330	C0
ATOM 11007 CE LYS D 94	-27.543	3.804	21.821	1.00	58.12		C0
ANISOU11007 CE LYS D 94	7810	7100	7180	-1170	670	-260	C0
ATOM 11008 NZ LYS D 94	-27.514	2.855	22.965	1.00	59.24		N0
ANISOU11008 NZ LYS D 94	7980	7160	7370	-1160	710	-150	N0
ATOM 11009 H LYS D 94	-24.138	4.760	25.398	1.00	47.54		H0
ANISOU11009 H LYS D 94	6230	5980	5850	-670	750	-50	H0
ATOM 11010 HA LYS D 94	-23.385	6.133	23.246	1.00	48.30		H0
ANISOU11010 HA LYS D 94	6330	6090	5930	-680	750	-250	H0
ATOM 11011 HB2 LYS D 94	-24.956	4.213	23.482	1.00	52.17		H0
ANISOU11011 HB2 LYS D 94	6970	6400	6460	-830	750	-170	H0
ATOM 11012 HB3 LYS D 94	-26.065	5.318	23.699	1.00	51.27		H0
ANISOU11012 HB3 LYS D 94	6740	6440	6300	-910	690	-170	H0
ATOM 11013 HG2 LYS D 94	-25.915	6.035	21.548	1.00	52.70		H0
ANISOU11013 HG2 LYS D 94	6990	6600	6440	-960	680	-320	H0
ATOM 11014 HG3 LYS D 94	-24.543	5.275	21.316	1.00	53.28		H0

ANISOU11014	HG3 LYS D	94	7140	6550	6550	-850	750	-350	H0
ATOM 11015	HD2 LYS D	94	-26.288	4.141	20.228	1.00	56.25		H0
ANISOU11015	HD2 LYS D	94	7660	6800	6910	-1080	710	-400	H0
ATOM 11016	HD3 LYS D	94	-25.635	3.210	21.331	1.00	56.90		H0
ANISOU11016	HD3 LYS D	94	7780	6780	7060	-990	760	-310	H0
ATOM 11017	HE2 LYS D	94	-27.892	4.660	22.133	1.00	57.01		H0
ANISOU11017	HE2 LYS D	94	7570	7090	7010	-1170	640	-240	H0
ATOM 11018	HE3 LYS D	94	-28.157	3.459	21.145	1.00	58.40		H0
ANISOU11018	HE3 LYS D	94	7900	7090	7200	-1280	650	-300	H0
ATOM 11019	HZ1 LYS D	94	-27.095	2.089	22.720	1.00	59.92		H0
ANISOU11019	HZ1 LYS D	94	8170	7110	7490	-1140	740	-160	H0
ATOM 11020	HZ2 LYS D	94	-28.361	2.659	23.221	1.00	59.56		H0
ANISOU11020	HZ2 LYS D	94	7990	7220	7410	-1250	690	-110	H0
ATOM 11021	HZ3 LYS D	94	-27.074	3.225	23.665	1.00	58.60		H0
ANISOU11021	HZ3 LYS D	94	7830	7150	7280	-1070	720	-100	H0
ATOM 11022	N PROD	95	-24.469	8.476	23.255	1.00	45.91		N0
ANISOU11022	N PROD	95	5890	5990	5560	-770	680	-290	N0
ATOM 11023	CA PROD	95	-25.118	9.774	23.419	1.00	45.05		C0
ANISOU11023	CA PROD	95	5700	5990	5430	-790	640	-310	C0
ATOM 11024	C PROD	95	-26.649	9.624	23.394	1.00	45.28		C0
ANISOU11024	C PROD	95	5720	6040	5440	-870	600	-280	C0
ATOM 11025	O PROD	95	-27.171	9.060	22.448	1.00	45.72		O0
ANISOU11025	O PROD	95	5840	6040	5490	-950	590	-290	O0
ATOM 11026	CB PROD	95	-24.630	10.605	22.222	1.00	44.93		C0
ANISOU11026	CB PROD	95	5710	5950	5410	-790	650	-370	C0
ATOM 11027	CG PROD	95	-23.393	9.882	21.719	1.00	45.33		C0
ANISOU11027	CG PROD	95	5810	5930	5480	-750	700	-390	C0
ATOM 11028	CD PROD	95	-23.592	8.425	22.077	1.00	46.26		C0
ANISOU11028	CD PROD	95	5990	5970	5610	-750	710	-360	C0
ATOM 11029	HA PROD	95	-24.821	10.194	24.265	1.00	44.98		H0
ANISOU11029	HA PROD	95	5640	6040	5410	-740	630	-300	H0
ATOM 11030	HB2 PROD	95	-25.315	10.648	21.521	1.00	44.94		H0
ANISOU11030	HB2 PROD	95	5750	5940	5390	-840	630	-380	H0
ATOM 11031	HB3 PROD	95	-24.408	11.520	22.500	1.00	44.56		H0
ANISOU11031	HB3 PROD	95	5620	5950	5360	-770	640	-390	H0
ATOM 11032	HG2 PROD	95	-23.301	9.989	20.751	1.00	45.45		H0
ANISOU11032	HG2 PROD	95	5870	5920	5480	-770	710	-430	H0
ATOM 11033	HG3 PROD	95	-22.588	10.235	22.151	1.00	45.26		H0
ANISOU11033	HG3 PROD	95	5750	5960	5480	-700	710	-400	H0
ATOM 11034	HD2 PROD	95	-24.016	7.939	21.346	1.00	46.49		H0
ANISOU11034	HD2 PROD	95	6090	5940	5640	-800	710	-380	H0
ATOM 11035	HD3 PROD	95	-22.742	7.999	22.291	1.00	46.48		H0
ANISOU11035	HD3 PROD	95	6020	5980	5660	-680	740	-350	H0
ATOM 11036	N GLUD	96	-27.320	10.106	24.440	1.00	44.96		N0
ANISOU11036	N GLUD	96	5600	6110	5380	-860	580	-240	N0
ATOM 11037	CA GLUD	96	-28.799	10.194	24.523	1.00	45.24		C0
ANISOU11037	CA GLUD	96	5580	6220	5390	-920	560	-210	C0
ATOM 11038	C GLUD	96	-29.209	11.596	24.070	1.00	43.37		C0
ANISOU11038	C GLUD	96	5300	6040	5130	-880	530	-250	C0
ATOM 11039	O GLUD	96	-29.086	12.534	24.875	1.00	42.56		O0
ANISOU11039	O GLUD	96	5150	6010	5020	-810	540	-260	O0
ATOM 11040	CB GLUD	96	-29.276	9.880	25.942	1.00	47.02		C0
ANISOU11040	CB GLUD	96	5740	6530	5590	-900	570	-140	C0
ATOM 11041	CG GLUD	96	-30.785	9.774	26.065	1.00	49.43		C0

ANISOU11041	CG	GLU	D	96	5970	6930	5870	-980	550	-90	C0
ATOM 11042	CD	GLU	D	96	-31.293	9.452	27.463	1.00	51.88		C0
ANISOU11042	CD	GLU	D	96	6210	7350	6150	-970	580	0	C0
ATOM 11043	OE1	GLU	D	96	-32.533	9.484	27.668	1.00	53.01		O0
ANISOU11043	OE1	GLU	D	96	6260	7610	6270	-1020	580	40	O0
ATOM 11044	OE2	GLU	D	96	-30.449	9.171	28.348	1.00	53.38		O0
ANISOU11044	OE2	GLU	D	96	6420	7530	6330	-900	610	20	O0
ATOM 11045	H	GLU	D	96	-26.899	10.419	25.185	1.00	44.88		H0
ANISOU11045	H	GLU	D	96	5550	6140	5360	-800	590	-240	H0
ATOM 11046	HA	GLU	D	96	-29.188	9.533	23.904	1.00	45.60		H0
ANISOU11046	HA	GLU	D	96	5670	6220	5440	-990	550	-200	H0
ATOM 11047	HB2	GLU	D	96	-28.872	9.034	26.227	1.00	47.43		H0
ANISOU11047	HB2	GLU	D	96	5830	6530	5660	-910	590	-100	H0
ATOM 11048	HB3	GLU	D	96	-28.957	10.584	26.544	1.00	46.80		H0
ANISOU11048	HB3	GLU	D	96	5670	6560	5550	-830	570	-150	H0
ATOM 11049	HG2	GLU	D	96	-31.186	10.623	25.781	1.00	49.20		H0
ANISOU11049	HG2	GLU	D	96	5900	6960	5830	-950	530	-120	H0
ATOM 11050	HG3	GLU	D	96	-31.105	9.078	25.452	1.00	49.82		H0
ANISOU11050	HG3	GLU	D	96	6060	6930	5940	-1060	540	-80	H0
ATOM 11051	N	VAL	D	97	-29.660	11.731	22.819	1.00	42.49		N0
ANISOU11051	N	VAL	D	97	5220	5910	5010	-930	500	-270	N0
ATOM 11052	CA	VAL	D	97	-30.027	13.042	22.208	1.00	41.64		C0
ANISOU11052	CA	VAL	D	97	5090	5840	4880	-890	480	-290	C0
ATOM 11053	C	VAL	D	97	-31.461	13.383	22.617	1.00	41.13		C0
ANISOU11053	C	VAL	D	97	4930	5910	4790	-880	450	-240	C0
ATOM 11054	O	VAL	D	97	-32.367	12.595	22.308	1.00	41.83		O0
ANISOU11054	O	VAL	D	97	4980	6040	4870	-970	420	-210	O0
ATOM 11055	CB	VAL	D	97	-29.854	13.040	20.679	1.00	42.15		C0
ANISOU11055	CB	VAL	D	97	5230	5860	4930	-930	460	-310	C0
ATOM 11056	CG1	VAL	D	97	-30.251	14.385	20.086	1.00	42.54		C0
ANISOU11056	CG1	VAL	D	97	5270	5940	4960	-870	440	-300	C0
ATOM 11057	CG2	VAL	D	97	-28.430	12.671	20.278	1.00	41.54		C0
ANISOU11057	CG2	VAL	D	97	5240	5670	4870	-930	510	-350	C0
ATOM 11058	H	VAL	D	97	-29.773	11.022	22.258	1.00	42.86		H0
ANISOU11058	H	VAL	D	97	5310	5920	5060	-990	500	-270	H0
ATOM 11059	HA	VAL	D	97	-29.435	13.721	22.577	1.00	41.31		H0
ANISOU11059	HA	VAL	D	97	5050	5790	4860	-830	500	-310	H0
ATOM 11060	HB	VAL	D	97	-30.462	12.353	20.310	1.00	42.54		H0
ANISOU11060	HB	VAL	D	97	5290	5920	4960	-1000	440	-300	H0
ATOM 11061	HG11	VAL	D	97	-31.211	14.401	19.930	1.00	42.91		H0
ANISOU11061	HG11	VAL	D	97	5260	6060	4980	-890	400	-270	H0
ATOM 11062	HG12	VAL	D	97	-29.784	14.520	19.244	1.00	42.46		H0
ANISOU11062	HG12	VAL	D	97	5310	5890	4930	-880	450	-310	H0
ATOM 11063	HG13	VAL	D	97	-30.011	15.097	20.705	1.00	42.22		H0
ANISOU11063	HG13	VAL	D	97	5200	5900	4940	-810	460	-310	H0
ATOM 11064	HG21	VAL	D	97	-27.805	13.292	20.693	1.00	41.28		H0
ANISOU11064	HG21	VAL	D	97	5200	5630	4860	-880	530	-360	H0
ATOM 11065	HG22	VAL	D	97	-28.340	12.720	19.311	1.00	41.81		H0
ANISOU11065	HG22	VAL	D	97	5320	5690	4880	-950	500	-370	H0
ATOM 11066	HG23	VAL	D	97	-28.232	11.766	20.575	1.00	41.75		H0
ANISOU11066	HG23	VAL	D	97	5290	5670	4910	-950	520	-350	H0
ATOM 11067	N	LEU	D	98	-31.638	14.523	23.289	1.00	40.64		N0
ANISOU11067	N	LEU	D	98	4810	5900	4730	-780	460	-250	N0
ATOM 11068	CA	LEU	D	98	-32.897	14.930	23.963	1.00	41.57		C0

ANISOU11068	CA	LEU D 98	4820	6150	4820	-730	460	-210	C0
ATOM 11069	C	LEU D 98	-33.715	15.845	23.048	1.00	41.77		C0
ANISOU11069	C	LEU D 98	4810	6220	4830	-680	420	-190	C0
ATOM 11070	O	LEU D 98	-34.905	16.034	23.337	1.00	41.99		O0
ANISOU11070	O	LEU D 98	4730	6390	4840	-640	410	-150	O0
ATOM 11071	CB	LEU D 98	-32.546	15.651	25.268	1.00	41.72		C0
ANISOU11071	CB	LEU D 98	4820	6190	4840	-630	500	-250	C0
ATOM 11072	CG	LEU D 98	-31.667	14.866	26.242	1.00	41.49		C0
ANISOU11072	CG	LEU D 98	4810	6150	4810	-660	520	-260	C0
ATOM 11073	CD1	LEU D 98	-31.216	15.753	27.390	1.00	41.71		C0
ANISOU11073	CD1	LEU D 98	4830	6210	4810	-560	550	-320	C0
ATOM 11074	CD2	LEU D 98	-32.399	13.642	26.768	1.00	41.85		C0
ANISOU11074	CD2	LEU D 98	4790	6280	4830	-730	530	-180	C0
ATOM 11075	H	LEU D 98	-30.972	15.139	23.375	1.00	40.49		H0
ANISOU11075	H	LEU D 98	4830	5830	4730	-730	480	-280	H0
ATOM 11076	HA	LEU D 98	-33.425	14.122	24.162	1.00	41.86		H0
ANISOU11076	HA	LEU D 98	4810	6240	4850	-800	450	-170	H0
ATOM 11077	HB2	LEU D 98	-32.090	16.486	25.043	1.00	41.51		H0
ANISOU11077	HB2	LEU D 98	4830	6110	4830	-580	500	-290	H0
ATOM 11078	HB3	LEU D 98	-33.380	15.884	25.723	1.00	42.24		H0
ANISOU11078	HB3	LEU D 98	4810	6360	4880	-590	500	-230	H0
ATOM 11079	HG	LEU D 98	-30.862	14.559	25.755	1.00	41.02		H0
ANISOU11079	HG	LEU D 98	4810	6000	4770	-690	520	-270	H0
ATOM 11080	HD11	LEU D 98	-30.705	16.503	27.040	1.00	41.46		H0
ANISOU11080	HD11	LEU D 98	4840	6100	4810	-530	550	-370	H0
ATOM 11081	HD12	LEU D 98	-30.658	15.238	27.998	1.00	41.56		H0
ANISOU11081	HD12	LEU D 98	4810	6200	4780	-570	560	-310	H0
ATOM 11082	HD13	LEU D 98	-31.995	16.086	27.869	1.00	42.19		H0
ANISOU11082	HD13	LEU D 98	4830	6350	4850	-510	560	-310	H0
ATOM 11083	HD21	LEU D 98	-33.273	13.906	27.106	1.00	42.44		H0
ANISOU11083	HD21	LEU D 98	4790	6450	4880	-710	540	-150	H0
ATOM 11084	HD22	LEU D 98	-31.882	13.239	27.488	1.00	41.84		H0
ANISOU11084	HD22	LEU D 98	4800	6270	4820	-730	550	-170	H0
ATOM 11085	HD23	LEU D 98	-32.511	12.995	26.050	1.00	41.92		H0
ANISOU11085	HD23	LEU D 98	4830	6240	4860	-810	510	-150	H0
ATOM 11086	N	THR D 99	-33.098	16.390	21.997	1.00	41.04		N0
ANISOU11086	N	THR D 99	4810	6030	4750	-670	410	-210	N0
ATOM 11087	CA	THR D 99	-33.682	17.464	21.153	1.00	42.17		C0
ANISOU11087	CA	THR D 99	4950	6190	4880	-590	380	-180	C0
ATOM 11088	C	THR D 99	-33.989	16.928	19.760	1.00	42.44		C0
ANISOU11088	C	THR D 99	5000	6260	4870	-670	320	-150	C0
ATOM 11089	O	THR D 99	-33.400	15.941	19.326	1.00	42.77		O0
ANISOU11089	O	THR D 99	5110	6240	4900	-790	320	-180	O0
ATOM 11090	CB	THR D 99	-32.734	18.665	21.096	1.00	41.86		C0
ANISOU11090	CB	THR D 99	5010	6020	4880	-510	410	-220	C0
ATOM 11091	OG1	THR D 99	-31.433	18.150	20.826	1.00	40.70		O0
ANISOU11091	OG1	THR D 99	4950	5770	4750	-590	440	-260	O0
ATOM 11092	CG2	THR D 99	-32.719	19.464	22.379	1.00	42.04		C0
ANISOU11092	CG2	THR D 99	5010	6030	4930	-400	460	-260	C0
ATOM 11093	H	THR D 99	-32.270	16.139	21.714	1.00	40.79		H0
ANISOU11093	H	THR D 99	4850	5920	4730	-710	420	-240	H0
ATOM 11094	HA	THR D 99	-34.524	17.753	21.572	1.00	42.62		H0
ANISOU11094	HA	THR D 99	4920	6340	4930	-530	370	-160	H0
ATOM 11095	HB	THR D 99	-33.012	19.252	20.352	1.00	42.28		H0

ANISOU11095	HB THR D 99	5080	6060	4920	-470	400	-180	H0
ATOM 11096	HG21 THR D 99	-33.412	20.148	22.346	1.00	42.70		H0
ANISOU11096	HG21 THR D 99	5060	6150	5010	-320	450	-240	H0
ATOM 11097	HG22 THR D 99	-31.850	19.888	22.489	1.00	41.71		H0
ANISOU11097	HG22 THR D 99	5040	5890	4920	-400	480	-310	H0
ATOM 11098	HG23 THR D 99	-32.887	18.872	23.134	1.00	41.88		H0
ANISOU11098	HG23 THR D 99	4930	6080	4900	-430	460	-270	H0
ATOM 11099	N PRO D 100	-34.925	17.559	19.016	1.00	43.29		N0
ANISOU11099	N PRO D 100	5060	6450	4930	-620	270	-90	N0
ATOM 11100	CA PRO D 100	-35.129	17.232	17.606	1.00	43.59		C0
ANISOU11100	CA PRO D 100	5130	6530	4900	-690	210	-60	C0
ATOM 11101	C PRO D 100	-33.811	17.315	16.825	1.00	42.31		C0
ANISOU11101	C PRO D 100	5120	6220	4740	-720	240	-100	C0
ATOM 11102	O PRO D 100	-33.076	18.254	17.028	1.00	41.18		O0
ANISOU11102	O PRO D 100	5040	5970	4640	-640	300	-100	O0
ATOM 11103	CB PRO D 100	-36.132	18.294	17.141	1.00	45.05		C0
ANISOU11103	CB PRO D 100	5240	6820	5050	-560	170	20	C0
ATOM 11104	CG PRO D 100	-36.900	18.632	18.399	1.00	45.25		C0
ANISOU11104	CG PRO D 100	5140	6930	5120	-460	190	30	C0
ATOM 11105	CD PRO D 100	-35.854	18.594	19.491	1.00	44.13		C0
ANISOU11105	CD PRO D 100	5070	6650	5050	-460	270	-40	C0
ATOM 11106	HA PRO D 100	-35.529	16.330	17.524	1.00	43.81		H0
ANISOU11106	HA PRO D 100	5110	6620	4910	-790	180	-70	H0
ATOM 11107	HB2 PRO D 100	-35.672	19.086	16.788	1.00	44.96		H0
ANISOU11107	HB2 PRO D 100	5300	6730	5050	-490	190	40	H0
ATOM 11108	HB3 PRO D 100	-36.730	17.938	16.449	1.00	45.70		H0
ANISOU11108	HB3 PRO D 100	5280	7010	5080	-610	100	50	H0
ATOM 11109	HG2 PRO D 100	-37.305	19.520	18.335	1.00	45.92		H0
ANISOU11109	HG2 PRO D 100	5200	7040	5210	-340	190	80	H0
ATOM 11110	HG3 PRO D 100	-37.604	17.972	18.566	1.00	45.71		H0
ANISOU11110	HG3 PRO D 100	5100	7110	5160	-520	160	50	H0
ATOM 11111	HD2 PRO D 100	-35.405	19.455	19.581	1.00	44.01		H0
ANISOU11111	HD2 PRO D 100	5120	6540	5060	-380	300	-50	H0
ATOM 11112	HD3 PRO D 100	-36.250	18.348	20.347	1.00	44.17		H0
ANISOU11112	HD3 PRO D 100	5000	6720	5060	-460	290	-50	H0
ATOM 11113	N GLN D 101	-33.547	16.326	15.969	1.00	42.82		N0
ANISOU11113	N GLN D 101	5240	6280	4750	-840	220	-130	N0
ATOM 11114	CA GLN D 101	-32.282	16.199	15.197	1.00	42.68		C0
ANISOU11114	CA GLN D 101	5350	6150	4720	-870	270	-170	C0
ATOM 11115	C GLN D 101	-32.356	17.106	13.956	1.00	42.78		C0
ANISOU11115	C GLN D 101	5410	6190	4650	-820	240	-110	C0
ATOM 11116	O GLN D 101	-32.318	16.592	12.816	1.00	43.53		O0
ANISOU11116	O GLN D 101	5560	6330	4650	-890	210	-120	O0
ATOM 11117	CB GLN D 101	-32.027	14.722	14.883	1.00	43.73		C0
ANISOU11117	CB GLN D 101	5530	6260	4820	-1010	260	-250	C0
ATOM 11118	CG GLN D 101	-31.638	13.892	16.103	1.00	44.16		C0
ANISOU11118	CG GLN D 101	5570	6250	4960	-1040	310	-290	C0
ATOM 11119	CD GLN D 101	-30.193	14.095	16.497	1.00	45.43		C0
ANISOU11119	CD GLN D 101	5800	6290	5180	-990	390	-320	C0
ATOM 11120	OE1 GLN D 101	-29.733	15.220	16.709	1.00	46.16		O0
ANISOU11120	OE1 GLN D 101	5890	6350	5300	-910	420	-300	O0
ATOM 11121	NE2 GLN D 101	-29.452	13.000	16.594	1.00	46.20		N0
ANISOU11121	NE2 GLN D 101	5950	6310	5290	-1040	430	-370	N0
ATOM 11122	H GLN D 101	-34.144	15.658	15.801	1.00	43.26		H0

ANISOU11122	H	GLN D 101	5250	6410	4770	-910	180	-140	H0
ATOM 11123	HA	GLN D 101	-31.550	16.524	15.766	1.00	42.04		H0
ANISOU11123	HA	GLN D 101	5300	5980	4690	-840	320	-190	H0
ATOM 11124	HB2	GLN D 101	-32.837	14.344	14.482	1.00	44.49		H0
ANISOU11124	HB2	GLN D 101	5590	6450	4860	-1060	200	-240	H0
ATOM 11125	HB3	GLN D 101	-31.310	14.665	14.218	1.00	43.74		H0
ANISOU11125	HB3	GLN D 101	5610	6210	4790	-1020	290	-270	H0
ATOM 11126	HG2	GLN D 101	-32.214	14.138	16.858	1.00	44.32		H0
ANISOU11126	HG2	GLN D 101	5510	6320	5010	-1010	290	-260	H0
ATOM 11127	HG3	GLN D 101	-31.789	12.942	15.908	1.00	44.73		H0
ANISOU11127	HG3	GLN D 101	5670	6320	5010	-1120	290	-320	H0
ATOM 11128	HE21	GLN D 101	-28.628	12.994	16.274	1.00	45.77		H0
ANISOU11128	HE21	GLN D 101	5950	6200	5240	-1020	470	-400	H0
ATOM 11129	HE22	GLN D 101	-29.782	12.276	16.980	1.00	46.04		H0
ANISOU11129	HE22	GLN D 101	5920	6290	5290	-1080	420	-380	H0
ATOM 11130	N	LEU D 102	-32.455	18.417	14.179	1.00	42.18		N0
ANISOU11130	N	LEU D 102	5330	6090	4610	-700	260	-40	N0
ATOM 11131	CA	LEU D 102	-32.529	19.448	13.112	1.00	43.19		C0
ANISOU11131	CA	LEU D 102	5510	6220	4680	-630	250	50	C0
ATOM 11132	C	LEU D 102	-31.309	20.367	13.212	1.00	42.47		C0
ANISOU11132	C	LEU D 102	5520	5960	4660	-590	340	60	C0
ATOM 11133	O	LEU D 102	-30.980	20.805	14.337	1.00	41.03		O0
ANISOU11133	O	LEU D 102	5320	5680	4590	-550	380	20	O0
ATOM 11134	CB	LEU D 102	-33.820	20.258	13.261	1.00	44.36		C0
ANISOU11134	CB	LEU D 102	5560	6470	4830	-500	190	140	C0
ATOM 11135	CG	LEU D 102	-35.126	19.488	13.074	1.00	44.95		C0
ANISOU11135	CG	LEU D 102	5500	6750	4830	-540	90	150	C0
ATOM 11136	CD1	LEU D 102	-36.313	20.419	13.257	1.00	46.20		C0
ANISOU11136	CD1	LEU D 102	5550	7020	4980	-380	50	260	C0
ATOM 11137	CD2	LEU D 102	-35.175	18.815	11.712	1.00	45.63		C0
ANISOU11137	CD2	LEU D 102	5630	6930	4770	-650	30	150	C0
ATOM 11138	H	LEU D 102	-32.470	18.768	15.018	1.00	42.02		H0
ANISOU11138	H	LEU D 102	5280	6030	4660	-650	280	-50	H0
ATOM 11139	HA	LEU D 102	-32.519	18.999	12.238	1.00	43.56		H0
ANISOU11139	HA	LEU D 102	5580	6320	4650	-680	220	50	H0
ATOM 11140	HB2	LEU D 102	-33.826	20.660	14.152	1.00	43.91		H0
ANISOU11140	HB2	LEU D 102	5480	6360	4850	-440	220	130	H0
ATOM 11141	HB3	LEU D 102	-33.799	20.988	12.611	1.00	45.01		H0
ANISOU11141	HB3	LEU D 102	5690	6530	4880	-440	190	210	H0
ATOM 11142	HG	LEU D 102	-35.174	18.786	13.769	1.00	44.36		H0
ANISOU11142	HG	LEU D 102	5390	6680	4790	-610	100	90	H0
ATOM 11143	HD11	LEU D 102	-36.258	20.850	14.127	1.00	45.80		H0
ANISOU11143	HD11	LEU D 102	5490	6900	5010	-310	90	240	H0
ATOM 11144	HD12	LEU D 102	-37.139	19.908	13.200	1.00	46.77		H0
ANISOU11144	HD12	LEU D 102	5520	7240	5010	-420	-20	260	H0
ATOM 11145	HD13	LEU D 102	-36.304	21.098	12.559	1.00	46.95		H0
ANISOU11145	HD13	LEU D 102	5690	7110	5040	-310	30	330	H0
ATOM 11146	HD21	LEU D 102	-34.778	19.400	11.044	1.00	46.03		H0
ANISOU11146	HD21	LEU D 102	5760	6950	4790	-600	40	200	H0
ATOM 11147	HD22	LEU D 102	-36.101	18.632	11.472	1.00	46.60		H0
ANISOU11147	HD22	LEU D 102	5660	7200	4840	-650	-50	180	H0
ATOM 11148	HD23	LEU D 102	-34.679	17.979	11.746	1.00	45.04		H0
ANISOU11148	HD23	LEU D 102	5600	6820	4700	-750	50	70	H0
ATOM 11149	N	ALA D 103	-30.676	20.634	12.068	1.00	42.94		N0

ANISOU11149	N	ALA D 103	5670	5990	4660	-610	360	100	N0
ATOM 11150	CA	ALA D 103	-29.615	21.653	11.901	1.00	43.15		C0
ANISOU11150	CA	ALA D 103	5790	5870	4740	-590	450	140	C0
ATOM 11151	C	ALA D 103	-30.245	22.943	11.370	1.00	44.47		C0
ANISOU11151	C	ALA D 103	5990	6020	4890	-470	430	280	C0
ATOM 11152	O	ALA D 103	-31.224	22.855	10.603	1.00	45.38		O0
ANISOU11152	O	ALA D 103	6080	6270	4890	-430	350	360	O0
ATOM 11153	CB	ALA D 103	-28.549	21.147	10.963	1.00	42.77		C0
ANISOU11153	CB	ALA D 103	5810	5820	4620	-680	500	120	C0
ATOM 11154	H	ALA D 103	-30.858	20.199	11.289	1.00	43.42		H0
ANISOU11154	H	ALA D 103	5740	6130	4630	-650	330	110	H0
ATOM 11155	HA	ALA D 103	-29.208	21.836	12.780	1.00	42.43		H0
ANISOU11155	HA	ALA D 103	5690	5700	4740	-590	480	90	H0
ATOM 11156	HB1	ALA D 103	-27.832	21.800	10.902	1.00	43.09		H0
ANISOU11156	HB1	ALA D 103	5900	5770	4700	-680	560	150	H0
ATOM 11157	HB2	ALA D 103	-28.192	20.307	11.298	1.00	42.17		H0
ANISOU11157	HB2	ALA D 103	5720	5750	4550	-740	510	40	H0
ATOM 11158	HB3	ALA D 103	-28.932	21.005	10.081	1.00	43.64		H0
ANISOU11158	HB3	ALA D 103	5940	6010	4620	-680	470	170	H0
ATOM 11159	N	ARG D 104	-29.703	24.090	11.781	1.00	44.01		N0
ANISOU11159	N	ARG D 104	6000	5790	4930	-430	500	310	N0
ATOM 11160	CA	ARG D 104	-29.969	25.409	11.157	1.00	45.39		C0
ANISOU11160	CA	ARG D 104	6250	5880	5110	-320	510	460	C0
ATOM 11161	C	ARG D 104	-28.924	25.626	10.056	1.00	45.91		C0
ANISOU11161	C	ARG D 104	6420	5900	5120	-410	570	530	C0
ATOM 11162	O	ARG D 104	-27.719	25.614	10.369	1.00	45.83		O0
ANISOU11162	O	ARG D 104	6450	5790	5180	-510	660	470	O0
ATOM 11163	CB	ARG D 104	-29.941	26.505	12.224	1.00	45.59		C0
ANISOU11163	CB	ARG D 104	6320	5730	5280	-240	550	450	C0
ATOM 11164	CG	ARG D 104	-30.676	27.777	11.837	1.00	47.19		C0
ANISOU11164	CG	ARG D 104	6590	5850	5500	-80	540	590	C0
ATOM 11165	CD	ARG D 104	-32.178	27.603	11.748	1.00	47.80		C0
ANISOU11165	CD	ARG D 104	6560	6100	5500	70	450	650	C0
ATOM 11166	NE	ARG D 104	-32.802	28.870	11.394	1.00	49.84		N0
ANISOU11166	NE	ARG D 104	6880	6270	5780	250	450	800	N0
ATOM 11167	CZ	ARG D 104	-34.064	29.025	11.009	1.00	50.95		C0
ANISOU11167	CZ	ARG D 104	6940	6560	5850	410	370	920	C0
ATOM 11168	NH1	ARG D 104	-34.876	27.983	10.927	1.00	50.26		N0
ANISOU11168	NH1	ARG D 104	6700	6740	5660	390	280	880	N0
ATOM 11169	NH2	ARG D 104	-34.508	30.232	10.705	1.00	52.85		N0
ANISOU11169	NH2	ARG D 104	7270	6690	6120	600	390	1060	N0
ATOM 11170	H	ARG D 104	-29.123	24.131	12.482	1.00	43.50		H0
ANISOU11170	H	ARG D 104	5940	5650	4940	-460	540	250	H0
ATOM 11171	HA	ARG D 104	-30.862	25.384	10.746	1.00	46.07		H0
ANISOU11171	HA	ARG D 104	6310	6080	5120	-250	440	530	H0
ATOM 11172	HB2	ARG D 104	-30.339	26.150	13.046	1.00	44.87		H0
ANISOU11172	HB2	ARG D 104	6150	5680	5220	-220	520	370	H0
ATOM 11173	HB3	ARG D 104	-29.008	26.729	12.416	1.00	45.32		H0
ANISOU11173	HB3	ARG D 104	6330	5580	5310	-320	610	410	H0
ATOM 11174	HG2	ARG D 104	-30.478	28.475	12.498	1.00	47.53		H0
ANISOU11174	HG2	ARG D 104	6670	5740	5640	-50	580	560	H0
ATOM 11175	HG3	ARG D 104	-30.342	28.088	10.968	1.00	48.04		H0
ANISOU11175	HG3	ARG D 104	6760	5930	5560	-100	560	690	H0
ATOM 11176	HD2	ARG D 104	-32.392	26.930	11.068	1.00	47.71		H0

ANISOU11176	HD2 ARG D 104	6500	6240	5390	20	400	680	H0
ATOM 11177	HD3 ARG D 104	-32.527	27.292	12.611	1.00	47.12		H0
ANISOU11177	HD3 ARG D 104	6390	6050	5460	80	430	560	H0
ATOM 11178	HE ARG D 104	-32.305	29.586	11.429	1.00	50.33		H0
ANISOU11178	HE ARG D 104	7050	6160	5910	260	510	830	H0
ATOM 11179	HH11 ARG D 104	-34.586	27.179	11.126	1.00	49.11		H0
ANISOU11179	HH11 ARG D 104	6510	6650	5500	270	270	790	H0
ATOM 11180	HH12 ARG D 104	-35.709	28.098	10.672	1.00	51.30		H0
ANISOU11180	HH12 ARG D 104	6760	6980	5750	490	220	960	H0
ATOM 11181	HH21 ARG D 104	-33.970	30.927	10.762	1.00	53.40		H0
ANISOU11181	HH21 ARG D 104	7450	6570	6270	600	450	1090	H0
ATOM 11182	HH22 ARG D 104	-35.342	30.342	10.452	1.00	53.86		H0
ANISOU11182	HH22 ARG D 104	7330	6930	6200	720	330	1140	H0
ATOM 11183	N VAL D 105	-29.372	25.753	8.808	1.00	46.97		N0
ANISOU11183	N VAL D 105	6590	6140	5110	-370	540	660	N0
ATOM 11184	CA VAL D 105	-28.513	26.045	7.625	1.00	47.80		C0
ANISOU11184	CA VAL D 105	6800	6230	5130	-430	610	760	C0
ATOM 11185	C VAL D 105	-28.780	27.489	7.201	1.00	49.59		C0
ANISOU11185	C VAL D 105	7120	6330	5380	-320	630	950	C0
ATOM 11186	O VAL D 105	-29.957	27.822	6.998	1.00	51.19		O0
ANISOU11186	O VAL D 105	7300	6610	5540	-180	550	1050	O0
ATOM 11187	CB VAL D 105	-28.787	25.059	6.474	1.00	48.05		C0
ANISOU11187	CB VAL D 105	6810	6490	4960	-470	560	760	C0
ATOM 11188	CG1 VAL D 105	-27.884	25.320	5.279	1.00	49.39		C0
ANISOU11188	CG1 VAL D 105	7080	6660	5020	-530	640	860	C0
ATOM 11189	CG2 VAL D 105	-28.652	23.616	6.934	1.00	46.58		C0
ANISOU11189	CG2 VAL D 105	6550	6390	4760	-570	530	580	C0
ATOM 11190	H VAL D 105	-30.254	25.667	8.596	1.00	47.45		H0
ANISOU11190	H VAL D 105	6610	6300	5110	-300	470	700	H0
ATOM 11191	HA VAL D 105	-27.581	25.962	7.890	1.00	47.23		H0
ANISOU11191	HA VAL D 105	6750	6080	5120	-510	680	700	H0
ATOM 11192	HB VAL D 105	-29.722	25.197	6.182	1.00	48.89		H0
ANISOU11192	HB VAL D 105	6890	6680	5000	-390	480	830	H0
ATOM 11193	HG11 VAL D 105	-28.063	26.207	4.921	1.00	50.56		H0
ANISOU11193	HG11 VAL D 105	7290	6760	5160	-460	650	1000	H0
ATOM 11194	HG12 VAL D 105	-28.055	24.654	4.591	1.00	49.60		H0
ANISOU11194	HG12 VAL D 105	7100	6840	4910	-550	610	840	H0
ATOM 11195	HG13 VAL D 105	-26.953	25.266	5.557	1.00	48.76		H0
ANISOU11195	HG13 VAL D 105	7020	6500	5010	-600	720	810	H0
ATOM 11196	HG21 VAL D 105	-27.796	23.495	7.379	1.00	45.77		H0
ANISOU11196	HG21 VAL D 105	6450	6200	4740	-620	600	510	H0
ATOM 11197	HG22 VAL D 105	-28.703	23.023	6.164	1.00	46.94		H0
ANISOU11197	HG22 VAL D 105	6600	6550	4680	-600	510	570	H0
ATOM 11198	HG23 VAL D 105	-29.372	23.403	7.553	1.00	46.06		H0
ANISOU11198	HG23 VAL D 105	6410	6350	4740	-530	470	540	H0
ATOM 11199	N VAL D 106	-27.726	28.300	7.084	1.00	49.96		N0
ANISOU11199	N VAL D 106	7270	6200	5510	-380	740	1010	N0
ATOM 11200	CA VAL D 106	-27.780	29.697	6.559	1.00	52.02		C0
ANISOU11200	CA VAL D 106	7670	6300	5800	-300	790	1210	C0
ATOM 11201	C VAL D 106	-27.475	29.642	5.057	1.00	53.29		C0
ANISOU11201	C VAL D 106	7890	6580	5780	-340	820	1370	C0
ATOM 11202	O VAL D 106	-26.855	28.653	4.628	1.00	52.13		O0
ANISOU11202	O VAL D 106	7700	6580	5520	-450	840	1280	O0
ATOM 11203	CB VAL D 106	-26.809	30.615	7.331	1.00	52.28		C0

ANISOU11203	CB	VAL D 106	7780	6050	6030	-380	890	1180	C0
ATOM 11204	CG1	VAL D 106	-26.911	32.070	6.892	1.00	54.36		C0
ANISOU11204	CG1	VAL D 106	8200	6110	6350	-310	940	1380	C0
ATOM 11205	CG2	VAL D 106	-27.017	30.498	8.836	1.00	50.91		C0
ANISOU11205	CG2	VAL D 106	7540	5800	6000	-370	860	990	C0
ATOM 11206	H	VAL D 106	-26.885	28.042	7.322	1.00	49.31		H0
ANISOU11206	H	VAL D 106	7190	6080	5470	-490	800	930	H0
ATOM 11207	HA	VAL D 106	-28.685	30.036	6.678	1.00	52.60		H0
ANISOU11207	HA	VAL D 106	7730	6380	5880	-170	730	1260	H0
ATOM 11208	HB	VAL D 106	-25.891	30.306	7.131	1.00	51.87		H0
ANISOU11208	HB	VAL D 106	7730	6020	5960	-510	950	1150	H0
ATOM 11209	HG11	VAL D 106	-26.479	32.180	6.028	1.00	55.39		H0
ANISOU11209	HG11	VAL D 106	8380	6260	6400	-360	990	1500	H0
ATOM 11210	HG12	VAL D 106	-26.473	32.640	7.547	1.00	54.65		H0
ANISOU11210	HG12	VAL D 106	8290	5950	6530	-350	990	1340	H0
ATOM 11211	HG13	VAL D 106	-27.848	32.322	6.819	1.00	55.12		H0
ANISOU11211	HG13	VAL D 106	8300	6230	6420	-160	880	1450	H0
ATOM 11212	HG21	VAL D 106	-27.958	30.633	9.045	1.00	51.12		H0
ANISOU11212	HG21	VAL D 106	7540	5850	6020	-240	800	1010	H0
ATOM 11213	HG22	VAL D 106	-26.485	31.172	9.292	1.00	51.35		H0
ANISOU11213	HG22	VAL D 106	7660	5680	6170	-410	920	980	H0
ATOM 11214	HG23	VAL D 106	-26.743	29.614	9.135	1.00	49.47		H0
ANISOU11214	HG23	VAL D 106	7270	5730	5800	-440	850	880	H0
ATOM 11215	N	SER D 107	-27.910	30.656	4.299	1.00	55.57		N0
ANISOU11215	N	SER D 107	8280	6820	6020	-230	820	1590	N0
ATOM 11216	CA	SER D 107	-27.882	30.713	2.809	1.00	57.56		C0
ANISOU11216	CA	SER D 107	8590	7220	6060	-220	830	1780	C0
ATOM 11217	C	SER D 107	-26.445	30.791	2.266	1.00	58.11		C0
ANISOU11217	C	SER D 107	8730	7230	6110	-390	970	1810	C0
ATOM 11218	O	SER D 107	-26.265	30.512	1.068	1.00	58.63		O0
ANISOU11218	O	SER D 107	8830	7480	5970	-420	990	1910	O0
ATOM 11219	CB	SER D 107	-28.717	31.864	2.304	1.00	59.86		C0
ANISOU11219	CB	SER D 107	8980	7440	6330	-30	800	2020	C0
ATOM 11220	OG	SER D 107	-28.307	33.086	2.897	1.00	60.99		O0
ANISOU11220	OG	SER D 107	9240	7250	6680	-20	890	2090	O0
ATOM 11221	H	SER D 107	-28.279	31.408	4.657	1.00	56.33		H0
ANISOU11221	H	SER D 107	8420	6780	6210	-140	820	1650	H0
ATOM 11222	HA	SER D 107	-28.286	29.870	2.471	1.00	56.99		H0
ANISOU11222	HA	SER D 107	8450	7350	5850	-220	760	1720	H0
ATOM 11223	HB2	SER D 107	-28.630	31.927	1.326	1.00	61.24		H0
ANISOU11223	HB2	SER D 107	9200	7720	6350	-30	810	2160	H0
ATOM 11224	HB3	SER D 107	-29.662	31.699	2.517	1.00	59.82		H0
ANISOU11224	HB3	SER D 107	8900	7530	6300	80	700	2010	H0
ATOM 11225	N	ASP D 108	-25.468	31.153	3.107	1.00	57.98		N0
ANISOU11225	N	ASP D 108	8730	7000	6290	-510	1070	1720	N0
ATOM 11226	CA	ASP D 108	-24.017	31.169	2.768	1.00	58.75		C0
ANISOU11226	CA	ASP D 108	8860	7070	6400	-700	1210	1730	C0
ATOM 11227	C	ASP D 108	-23.397	29.781	2.994	1.00	57.13		C0
ANISOU11227	C	ASP D 108	8520	7040	6140	-800	1220	1510	C0
ATOM 11228	O	ASP D 108	-22.184	29.638	2.759	1.00	57.01		O0
ANISOU11228	O	ASP D 108	8490	7040	6130	-940	1330	1490	O0
ATOM 11229	CB	ASP D 108	-23.273	32.232	3.580	1.00	59.35		C0
ANISOU11229	CB	ASP D 108	9000	6840	6710	-790	1300	1730	C0
ATOM 11230	CG	ASP D 108	-23.405	32.074	5.086	1.00	57.57		C0

ANISOU11230	CG	ASP D 108	8700	6500	6670	-790	1250	1520	C0
ATOM 11231	OD1	ASP D 108	-23.738	30.958	5.541	1.00	55.43		O0
ANISOU11231	OD1	ASP D 108	8310	6400	6360	-770	1170	1350	O0
ATOM 11232	OD2	ASP D 108	-23.194	33.074	5.792	1.00	58.70		O0
ANISOU11232	OD2	ASP D 108	8920	6380	7000	-820	1290	1520	O0
ATOM 11233	H	ASP D 108	-25.641	31.432	3.954	1.00	57.39		H0
ANISOU11233	H	ASP D 108	8650	6800	6350	-490	1050	1650	H0
ATOM 11234	HA	ASP D 108	-23.928	31.398	1.813	1.00	60.21		H0
ANISOU11234	HA	ASP D 108	9100	7320	6460	-690	1250	1880	H0
ATOM 11235	HB2	ASP D 108	-22.321	32.201	3.351	1.00	59.67		H0
ANISOU11235	HB2	ASP D 108	9030	6880	6760	-920	1390	1740	H0
ATOM 11236	HB3	ASP D 108	-23.616	33.115	3.335	1.00	60.95		H0
ANISOU11236	HB3	ASP D 108	9300	6910	6940	-730	1310	1890	H0
ATOM 11237	N	GLY D 109	-24.186	28.805	3.457	1.00	56.42		N0
ANISOU11237	N	GLY D 109	8340	7080	6020	-730	1100	1350	N0
ATOM 11238	CA	GLY D 109	-23.760	27.404	3.631	1.00	55.34		C0
ANISOU11238	CA	GLY D 109	8100	7100	5820	-810	1100	1150	C0
ATOM 11239	C	GLY D 109	-23.323	27.090	5.053	1.00	54.26		C0
ANISOU11239	C	GLY D 109	7880	6860	5880	-860	1100	970	C0
ATOM 11240	O	GLY D 109	-22.897	25.943	5.282	1.00	53.65		O0
ANISOU11240	O	GLY D 109	7720	6890	5780	-910	1100	810	O0
ATOM 11241	H	GLY D 109	-25.046	28.955	3.708	1.00	56.24		H0
ANISOU11241	H	GLY D 109	8310	7050	6010	-640	1020	1360	H0
ATOM 11242	HA2	GLY D 109	-24.513	26.810	3.385	1.00	55.07		H0
ANISOU11242	HA2	GLY D 109	8040	7200	5690	-750	1010	1120	H0
ATOM 11243	HA3	GLY D 109	-23.012	27.215	3.011	1.00	55.92		H0
ANISOU11243	HA3	GLY D 109	8180	7240	5820	-880	1170	1170	H0
ATOM 11244	N	GLU D 110	-23.418	28.048	5.984	1.00	55.09		N0
ANISOU11244	N	GLU D 110	8010	6760	6170	-850	1100	980	N0
ATOM 11245	CA	GLU D 110	-23.107	27.811	7.420	1.00	54.19		C0
ANISOU11245	CA	GLU D 110	7810	6560	6220	-890	1080	800	C0
ATOM 11246	C	GLU D 110	-24.170	26.870	7.994	1.00	52.03		C0
ANISOU11246	C	GLU D 110	7460	6400	5910	-800	960	680	C0
ATOM 11247	O	GLU D 110	-25.369	27.083	7.725	1.00	51.98		O0
ANISOU11247	O	GLU D 110	7470	6430	5850	-670	880	760	O0
ATOM 11248	CB	GLU D 110	-23.046	29.109	8.233	1.00	56.60		C0
ANISOU11248	CB	GLU D 110	8180	6620	6710	-890	1100	830	C0
ATOM 11249	CG	GLU D 110	-22.552	28.897	9.663	1.00	56.53		C0
ANISOU11249	CG	GLU D 110	8100	6540	6840	-960	1100	640	C0
ATOM 11250	CD	GLU D 110	-22.578	30.110	10.587	1.00	58.49		C0
ANISOU11250	CD	GLU D 110	8420	6550	7260	-960	1110	620	C0
ATOM 11251	OE1	GLU D 110	-22.770	31.243	10.094	1.00	60.70		O0
ANISOU11251	OE1	GLU D 110	8830	6660	7580	-930	1140	770	O0
ATOM 11252	OE2	GLU D 110	-22.399	29.915	11.809	1.00	58.69		O0
ANISOU11252	OE2	GLU D 110	8380	6540	7380	-980	1080	460	O0
ATOM 11253	H	GLU D 110	-23.678	28.900	5.796	1.00	56.20		H0
ANISOU11253	H	GLU D 110	8220	6800	6330	-810	1100	1090	H0
ATOM 11254	HA	GLU D 110	-22.231	27.366	7.473	1.00	53.80		H0
ANISOU11254	HA	GLU D 110	7720	6550	6180	-980	1140	730	H0
ATOM 11255	HB2	GLU D 110	-22.448	29.738	7.777	1.00	57.73		H0
ANISOU11255	HB2	GLU D 110	8390	6680	6870	-960	1180	920	H0
ATOM 11256	HB3	GLU D 110	-23.941	29.506	8.259	1.00	56.89		H0
ANISOU11256	HB3	GLU D 110	8260	6610	6740	-780	1050	880	H0
ATOM 11257	HG2	GLU D 110	-23.092	28.192	10.078	1.00	55.29		H0

ANISOU11257	HG2	GLU	D	110	7880	6470	6660	-900	1030	560	H0
ATOM	11258	HG3	GLU	D	110	-21.629	28.568	9.625	1.00	56.28	H0
ANISOU11258	HG3	GLU	D	110	8020	6550	6820	-1060	1150	600	H0
ATOM	11259	N	VAL	D	111	-23.728	25.866	8.751	1.00	49.79	N0
ANISOU11259	N	VAL	D	111	7080	6170	5660	-850	960	520	N0
ATOM	11260	CA	VAL	D	111	-24.599	24.868	9.433	1.00	47.87	C0
ANISOU11260	CA	VAL	D	111	6750	6030	5410	-800	860	400	C0
ATOM	11261	C	VAL	D	111	-24.419	25.036	10.943	1.00	46.95	C0
ANISOU11261	C	VAL	D	111	6580	5810	5450	-800	850	290	C0
ATOM	11262	O	VAL	D	111	-23.265	25.079	11.402	1.00	46.11	O0
ANISOU11262	O	VAL	D	111	6460	5640	5420	-900	920	230	O0
ATOM	11263	CB	VAL	D	111	-24.267	23.439	8.973	1.00	47.05	C0
ANISOU11263	CB	VAL	D	111	6610	6080	5190	-850	860	310	C0
ATOM	11264	CG1	VAL	D	111	-25.171	22.414	9.643	1.00	46.08	C0
ANISOU11264	CG1	VAL	D	111	6410	6030	5060	-810	770	200	C0
ATOM	11265	CG2	VAL	D	111	-24.333	23.315	7.455	1.00	47.92	C0
ANISOU11265	CG2	VAL	D	111	6780	6300	5130	-850	880	400	C0
ATOM	11266	H	VAL	D	111	-22.840	25.725	8.903	1.00	49.64	H0
ANISOU11266	H	VAL	D	111	7040	6140	5680	-930	1020	470	H0
ATOM	11267	HA	VAL	D	111	-25.524	25.059	9.206	1.00	48.35	H0
ANISOU11267	HA	VAL	D	111	6830	6120	5430	-720	800	460	H0
ATOM	11268	HB	VAL	D	111	-23.337	23.248	9.250	1.00	46.70	H0
ANISOU11268	HB	VAL	D	111	6540	6010	5200	-910	920	260	H0
ATOM	11269	HG11	VAL	D	111	-24.850	22.235	10.543	1.00	45.19	H0
ANISOU11269	HG11	VAL	D	111	6250	5870	5040	-830	780	130	H0
ATOM	11270	HG12	VAL	D	111	-25.166	21.588	9.128	1.00	45.95	H0
ANISOU11270	HG12	VAL	D	111	6390	6110	4960	-830	760	170	H0
ATOM	11271	HG13	VAL	D	111	-26.079	22.762	9.686	1.00	46.28	H0
ANISOU11271	HG13	VAL	D	111	6430	6070	5080	-750	710	250	H0
ATOM	11272	HG21	VAL	D	111	-25.200	23.627	7.141	1.00	48.59	H0
ANISOU11272	HG21	VAL	D	111	6890	6410	5160	-790	820	470	H0
ATOM	11273	HG22	VAL	D	111	-24.212	22.385	7.199	1.00	47.68	H0
ANISOU11273	HG22	VAL	D	111	6730	6360	5030	-870	880	330	H0
ATOM	11274	HG23	VAL	D	111	-23.631	23.855	7.053	1.00	48.79	H0
ANISOU11274	HG23	VAL	D	111	6930	6370	5240	-880	950	470	H0
ATOM	11275	N	LEU	D	112	-25.522	25.170	11.678	1.00	47.14	N0
ANISOU11275	N	LEU	D	112	6580	5820	5510	-710	780	260	N0
ATOM	11276	CA	LEU	D	112	-25.534	25.162	13.164	1.00	46.74	C0
ANISOU11276	CA	LEU	D	112	6470	5720	5570	-700	760	140	C0
ATOM	11277	C	LEU	D	112	-26.282	23.906	13.615	1.00	45.38	C0
ANISOU11277	C	LEU	D	112	6200	5690	5350	-670	690	70	C0
ATOM	11278	O	LEU	D	112	-27.492	23.818	13.355	1.00	45.52	O0
ANISOU11278	O	LEU	D	112	6200	5790	5300	-590	620	120	O0
ATOM	11279	CB	LEU	D	112	-26.192	26.445	13.685	1.00	48.36	C0
ANISOU11279	CB	LEU	D	112	6730	5780	5860	-600	750	180	C0
ATOM	11280	CG	LEU	D	112	-25.457	27.746	13.350	1.00	50.82	C0
ANISOU11280	CG	LEU	D	112	7160	5900	6250	-640	820	260	C0
ATOM	11281	CD1	LEU	D	112	-25.877	28.287	11.988	1.00	52.43	C0
ANISOU11281	CD1	LEU	D	112	7450	6100	6370	-580	830	440	C0
ATOM	11282	CD2	LEU	D	112	-25.686	28.799	14.429	1.00	52.11	C0
ANISOU11282	CD2	LEU	D	112	7370	5890	6540	-590	830	200	C0
ATOM	11283	H	LEU	D	112	-26.347	25.276	11.307	1.00	47.56	H0
ANISOU11283	H	LEU	D	112	6640	5920	5510	-640	730	320	H0
ATOM	11284	HA	LEU	D	112	-24.606	25.114	13.487	1.00	46.47	H0

ANISOU11284 HA LEU D 112	6430	5640	5580	-780	810	90	H0
ATOM 11285 HB2 LEU D 112	-27.097	26.496	13.320	1.00	48.80		H0
ANISOU11285 HB2 LEU D 112	6790	5890	5860	-510	710	250	H0
ATOM 11286 HB3 LEU D 112	-26.271	26.375	14.657	1.00	47.89		H0
ANISOU11286 HB3 LEU D 112	6630	5710	5850	-590	740	100	H0
ATOM 11287 HG LEU D 112	-24.488	27.550	13.315	1.00	50.56		H0
ANISOU11287 HG LEU D 112	7120	5860	6230	-750	870	220	H0
ATOM 11288 HD11 LEU D 112	-25.557	27.693	11.288	1.00	52.13		H0
ANISOU11288 HD11 LEU D 112	7390	6160	6250	-640	840	460	H0
ATOM 11289 HD12 LEU D 112	-25.495	29.172	11.859	1.00	53.47		H0
ANISOU11289 HD12 LEU D 112	7670	6090	6560	-610	880	500	H0
ATOM 11290 HD13 LEU D 112	-26.847	28.345	11.946	1.00	52.59		H0
ANISOU11290 HD13 LEU D 112	7460	6160	6360	-470	780	480	H0
ATOM 11291 HD21 LEU D 112	-26.642	28.924	14.564	1.00	52.12		H0
ANISOU11291 HD21 LEU D 112	7370	5910	6520	-470	790	220	H0
ATOM 11292 HD22 LEU D 112	-25.286	29.642	14.152	1.00	53.08		H0
ANISOU11292 HD22 LEU D 112	7590	5870	6710	-620	880	260	H0
ATOM 11293 HD23 LEU D 112	-25.277	28.506	15.261	1.00	51.21		H0
ANISOU11293 HD23 LEU D 112	7210	5780	6460	-640	830	90	H0
ATOM 11294 N TYR D 113	-25.566	22.949	14.204	1.00	44.15		N0
ANISOU11294 N TYR D 113	5990	5580	5210	-740	710	-40	N0
ATOM 11295 CA TYR D 113	-26.139	21.709	14.780	1.00	44.01		C0
ANISOU11295 CA TYR D 113	5890	5670	5160	-730	650	-110	C0
ATOM 11296 C TYR D 113	-25.811	21.676	16.272	1.00	43.70		C0
ANISOU11296 C TYR D 113	5800	5600	5210	-730	660	-200	C0
ATOM 11297 O TYR D 113	-24.640	21.481	16.615	1.00	42.37		O0
ANISOU11297 O TYR D 113	5610	5400	5080	-800	700	-250	O0
ATOM 11298 CB TYR D 113	-25.630	20.472	14.038	1.00	43.74		C0
ANISOU11298 CB TYR D 113	5860	5710	5050	-800	670	-140	C0
ATOM 11299 CG TYR D 113	-26.100	19.167	14.626	1.00	43.05		C0
ANISOU11299 CG TYR D 113	5710	5690	4950	-810	620	-210	C0
ATOM 11300 CD1 TYR D 113	-27.443	18.929	14.881	1.00	43.30		C0
ANISOU11300 CD1 TYR D 113	5700	5800	4950	-780	550	-190	C0
ATOM 11301 CD2 TYR D 113	-25.192	18.174	14.949	1.00	43.18		C0
ANISOU11301 CD2 TYR D 113	5710	5710	4980	-850	660	-280	C0
ATOM 11302 CE1 TYR D 113	-27.868	17.735	15.443	1.00	43.44		C0
ANISOU11302 CE1 TYR D 113	5670	5870	4970	-810	520	-250	C0
ATOM 11303 CE2 TYR D 113	-25.600	16.975	15.506	1.00	42.64		C0
ANISOU11303 CE2 TYR D 113	5610	5680	4910	-860	630	-330	C0
ATOM 11304 CZ TYR D 113	-26.941	16.752	15.747	1.00	42.88		C0
ANISOU11304 CZ TYR D 113	5610	5760	4920	-850	560	-310	C0
ATOM 11305 OH TYR D 113	-27.312	15.560	16.291	1.00	43.81		O0
ANISOU11305 OH TYR D 113	5700	5910	5040	-890	540	-350	O0
ATOM 11306 H TYR D 113	-24.660	22.988	14.295	1.00	44.34		H0
ANISOU11306 H TYR D 113	6020	5560	5260	-800	750	-60	H0
ATOM 11307 HA TYR D 113	-27.124	21.745	14.681	1.00	44.18		H0
ANISOU11307 HA TYR D 113	5900	5740	5150	-680	600	-80	H0
ATOM 11308 HB2 TYR D 113	-25.926	20.525	13.106	1.00	44.33		H0
ANISOU11308 HB2 TYR D 113	5970	5820	5050	-800	660	-90	H0
ATOM 11309 HB3 TYR D 113	-24.650	20.489	14.043	1.00	43.71		H0
ANISOU11309 HB3 TYR D 113	5860	5670	5070	-840	720	-160	H0
ATOM 11310 HD1 TYR D 113	-28.078	19.594	14.676	1.00	43.91		H0
ANISOU11310 HD1 TYR D 113	5780	5880	5020	-730	520	-140	H0
ATOM 11311 HD2 TYR D 113	-24.274	18.317	14.788	1.00	43.11		H0

ANISOU11311	HD2 TYR D 113	5720	5670	4990	-870	710	-290	H0
ATOM 11312	HE1 TYR D 113	-28.785	17.585	15.603	1.00	43.42		H0
ANISOU11312	HE1 TYR D 113	5630	5920	4950	-800	470	-230	H0
ATOM 11313	HE2 TYR D 113	-24.966	16.308	15.713	1.00	42.48		H0
ANISOU11313	HE2 TYR D 113	5590	5650	4910	-880	660	-370	H0
ATOM 11314	N MET D 114	-26.832	21.867	17.115	1.00	45.65		N0
ANISOU11314	N MET D 114	6000	5870	5480	-660	610	-210	N0
ATOM 11315	CA MET D 114	-26.693	22.090	18.579	1.00	46.43		C0
ANISOU11315	CA MET D 114	6060	5940	5640	-640	610	-300	C0
ATOM 11316	C MET D 114	-27.569	21.089	19.327	1.00	44.16		C0
ANISOU11316	C MET D 114	5690	5770	5320	-610	570	-320	C0
ATOM 11317	O MET D 114	-28.567	21.471	19.931	1.00	44.71		O0
ANISOU11317	O MET D 114	5720	5880	5390	-530	550	-320	O0
ATOM 11318	CB MET D 114	-27.125	23.510	18.969	1.00	50.29		C0
ANISOU11318	CB MET D 114	6600	6330	6180	-560	620	-290	C0
ATOM 11319	CG MET D 114	-26.828	24.584	17.929	1.00	53.75		C0
ANISOU11319	CG MET D 114	7140	6640	6640	-560	650	-210	C0
ATOM 11320	SD MET D 114	-25.063	24.817	17.618	1.00	57.84		S0
ANISOU11320	SD MET D 114	7700	7070	7210	-710	720	-240	S0
ATOM 11321	CE MET D 114	-24.954	26.607	17.610	1.00	59.48		C0
ANISOU11321	CE MET D 114	8030	7060	7510	-690	760	-210	C0
ATOM 11322	H MET D 114	-27.698	21.872	16.833	1.00	45.67		H0
ANISOU11322	H MET D 114	6000	5910	5440	-610	580	-170	H0
ATOM 11323	HA MET D 114	-25.753	21.947	18.835	1.00	46.15		H0
ANISOU11323	HA MET D 114	6020	5880	5630	-700	640	-340	H0
ATOM 11324	HB2 MET D 114	-28.085	23.507	19.144	1.00	50.23		H0
ANISOU11324	HB2 MET D 114	6560	6370	6160	-480	590	-270	H0
ATOM 11325	HB3 MET D 114	-26.676	23.750	19.804	1.00	50.08		H0
ANISOU11325	HB3 MET D 114	6560	6270	6200	-570	630	-360	H0
ATOM 11326	HG2 MET D 114	-27.268	24.348	17.085	1.00	54.16		H0
ANISOU11326	HG2 MET D 114	7190	6740	6640	-540	640	-140	H0
ATOM 11327	HG3 MET D 114	-27.206	25.437	18.234	1.00	54.75		H0
ANISOU11327	HG3 MET D 114	7300	6690	6810	-490	660	-210	H0
ATOM 11328	HE1 MET D 114	-24.073	26.874	17.321	1.00	59.87		H0
ANISOU11328	HE1 MET D 114	8100	7050	7590	-780	800	-200	H0
ATOM 11329	HE2 MET D 114	-25.615	26.966	17.005	1.00	60.03		H0
ANISOU11329	HE2 MET D 114	8140	7110	7560	-620	760	-120	H0
ATOM 11330	HE3 MET D 114	-25.117	26.942	18.501	1.00	59.62		H0
ANISOU11330	HE3 MET D 114	8040	7040	7570	-660	750	-280	H0
ATOM 11331	N PRO D 115	-27.234	19.781	19.326	1.00	41.43		N0
ANISOU11331	N PRO D 115	5310	5490	4940	-670	570	-340	N0
ATOM 11332	CA PRO D 115	-27.995	18.808	20.104	1.00	40.82		C0
ANISOU11332	CA PRO D 115	5160	5510	4850	-670	540	-350	C0
ATOM 11333	C PRO D 115	-27.776	18.993	21.615	1.00	40.14		C0
ANISOU11333	C PRO D 115	5020	5440	4790	-640	550	-410	C0
ATOM 11334	O PRO D 115	-26.669	19.291	22.020	1.00	40.07		O0
ANISOU11334	O PRO D 115	5030	5380	4820	-660	570	-460	O0
ATOM 11335	CB PRO D 115	-27.437	17.457	19.631	1.00	40.52		C0
ANISOU11335	CB PRO D 115	5130	5480	4780	-740	540	-360	C0
ATOM 11336	CG PRO D 115	-26.025	17.774	19.189	1.00	40.24		C0
ANISOU11336	CG PRO D 115	5140	5370	4770	-770	590	-380	C0
ATOM 11337	CD PRO D 115	-26.119	19.165	18.591	1.00	41.54		C0
ANISOU11337	CD PRO D 115	5360	5480	4950	-750	600	-350	C0
ATOM 11338	HA PRO D 115	-28.957	18.874	19.880	1.00	41.13		H0

ANISOU11338	HA	PRO D 115	5170	5600	4860	-640	510	-310	H0
ATOM 11339	HB2	PRO D 115	-27.435	16.800	20.360	1.00	40.19		H0
ANISOU11339	HB2	PRO D 115	5060	5470	4750	-750	540	-380	H0
ATOM 11340	HB3	PRO D 115	-27.964	17.101	18.884	1.00	40.66		H0
ANISOU11340	HB3	PRO D 115	5160	5530	4760	-770	520	-330	H0
ATOM 11341	HG2	PRO D 115	-25.411	17.764	19.951	1.00	40.28		H0
ANISOU11341	HG2	PRO D 115	5120	5370	4810	-770	610	-420	H0
ATOM 11342	HG3	PRO D 115	-25.715	17.129	18.522	1.00	40.47		H0
ANISOU11342	HG3	PRO D 115	5200	5400	4770	-800	610	-380	H0
ATOM 11343	HD2	PRO D 115	-25.293	19.662	18.726	1.00	41.41		H0
ANISOU11343	HD2	PRO D 115	5350	5410	4970	-760	630	-370	H0
ATOM 11344	HD3	PRO D 115	-26.312	19.123	17.636	1.00	41.57		H0
ANISOU11344	HD3	PRO D 115	5390	5490	4910	-760	600	-310	H0
ATOM 11345	N	SER D 116	-28.837	18.839	22.402	1.00	38.94		N0
ANISOU11345	N	SER D 116	4810	5370	4620	-590	530	-400	N0
ATOM 11346	CA	SER D 116	-28.743	18.609	23.860	1.00	38.73		C0
ANISOU11346	CA	SER D 116	4730	5400	4590	-560	540	-440	C0
ATOM 11347	C	SER D 116	-28.546	17.110	24.079	1.00	38.08		C0
ANISOU11347	C	SER D 116	4610	5370	4480	-630	530	-410	C0
ATOM 11348	O	SER D 116	-29.378	16.337	23.588	1.00	37.86		O0
ANISOU11348	O	SER D 116	4570	5380	4430	-670	510	-360	O0
ATOM 11349	CB	SER D 116	-29.937	19.128	24.611	1.00	39.20		C0
ANISOU11349	CB	SER D 116	4730	5540	4620	-480	530	-440	C0
ATOM 11350	OG	SER D 116	-29.664	19.103	26.005	1.00	38.60		O0
ANISOU11350	OG	SER D 116	4620	5520	4520	-450	550	-490	O0
ATOM 11351	H	SER D 116	-29.698	18.863	22.104	1.00	39.52		H0
ANISOU11351	H	SER D 116	4860	5490	4670	-560	510	-360	H0
ATOM 11352	HA	SER D 116	-27.936	19.082	24.194	1.00	38.70		H0
ANISOU11352	HA	SER D 116	4750	5350	4600	-560	550	-490	H0
ATOM 11353	HB2	SER D 116	-30.133	20.049	24.326	1.00	39.49		H0
ANISOU11353	HB2	SER D 116	4800	5530	4680	-420	540	-450	H0
ATOM 11354	HB3	SER D 116	-30.721	18.567	24.415	1.00	39.15		H0
ANISOU11354	HB3	SER D 116	4670	5610	4590	-490	520	-390	H0
ATOM 11355	N	ILE D 117	-27.466	16.736	24.768	1.00	38.22		N0
ANISOU11355	N	ILE D 117	4630	5380	4510	-640	550	-450	N0
ATOM 11356	CA	ILE D 117	-27.030	15.325	24.964	1.00	38.09		C0
ANISOU11356	CA	ILE D 117	4610	5380	4490	-680	550	-410	C0
ATOM 11357	C	ILE D 117	-26.950	15.036	26.464	1.00	38.38		C0
ANISOU11357	C	ILE D 117	4590	5500	4490	-650	560	-410	C0
ATOM 11358	O	ILE D 117	-26.377	15.848	27.203	1.00	38.75		O0
ANISOU11358	O	ILE D 117	4620	5580	4530	-610	550	-470	O0
ATOM 11359	CB	ILE D 117	-25.691	15.070	24.248	1.00	38.03		C0
ANISOU11359	CB	ILE D 117	4650	5290	4510	-710	570	-430	C0
ATOM 11360	CG1	ILE D 117	-25.832	15.262	22.736	1.00	38.54		C0
ANISOU11360	CG1	ILE D 117	4770	5290	4580	-750	580	-430	C0
ATOM 11361	CG2	ILE D 117	-25.139	13.693	24.592	1.00	38.10		C0
ANISOU11361	CG2	ILE D 117	4660	5300	4520	-710	590	-400	C0
ATOM 11362	CD1	ILE D 117	-24.530	15.176	21.972	1.00	38.88		C0
ANISOU11362	CD1	ILE D 117	4850	5280	4640	-770	620	-450	C0
ATOM 11363	H	ILE D 117	-26.916	17.338	25.173	1.00	38.24		H0
ANISOU11363	H	ILE D 117	4640	5370	4520	-620	550	-490	H0
ATOM 11364	HA	ILE D 117	-27.701	14.739	24.572	1.00	38.18		H0
ANISOU11364	HA	ILE D 117	4620	5400	4490	-710	550	-370	H0
ATOM 11365	HB	ILE D 117	-25.045	15.744	24.575	1.00	38.16		H0

ANISOU11365 HB ILE D 117	4650	5310	4540	-700	580	-470	H0
ATOM 11366 HG12 ILE D 117	-26.444	14.577	22.389	1.00	38.56		H0
ANISOU11366 HG12 ILE D 117	4790	5300	4560	-770	570	-400	H0
ATOM 11367 HG13 ILE D 117	-26.237	16.139	22.566	1.00	38.59		H0
ANISOU11367 HG13 ILE D 117	4780	5290	4590	-730	570	-430	H0
ATOM 11368 HG21 ILE D 117	-24.889	13.666	25.532	1.00	38.22		H0
ANISOU11368 HG21 ILE D 117	4630	5370	4520	-680	580	-400	H0
ATOM 11369 HG22 ILE D 117	-24.354	13.508	24.048	1.00	38.09		H0
ANISOU11369 HG22 ILE D 117	4680	5260	4530	-720	610	-410	H0
ATOM 11370 HG23 ILE D 117	-25.817	13.017	24.419	1.00	38.19		H0
ANISOU11370 HG23 ILE D 117	4680	5310	4520	-740	580	-370	H0
ATOM 11371 HD11 ILE D 117	-23.833	15.644	22.464	1.00	38.81		H0
ANISOU11371 HD11 ILE D 117	4820	5280	4650	-750	620	-480	H0
ATOM 11372 HD12 ILE D 117	-24.639	15.588	21.097	1.00	38.86		H0
ANISOU11372 HD12 ILE D 117	4890	5240	4630	-780	620	-450	H0
ATOM 11373 HD13 ILE D 117	-24.278	14.244	21.860	1.00	38.80		H0
ANISOU11373 HD13 ILE D 117	4860	5260	4630	-770	630	-440	H0
ATOM 11374 N ARG D 118	-27.512	13.906	26.884	1.00	38.54		N0
ANISOU11374 N ARG D 118	4590	5570	4490	-670	560	-340	N0
ATOM 11375 CA ARG D 118	-27.217	13.293	28.198	1.00	39.01		C0
ANISOU11375 CA ARG D 118	4610	5710	4510	-640	570	-310	C0
ATOM 11376 C ARG D 118	-26.275	12.113	27.962	1.00	38.51		C0
ANISOU11376 C ARG D 118	4580	5570	4470	-650	580	-270	C0
ATOM 11377 O ARG D 118	-26.614	11.242	27.139	1.00	38.07		O0
ANISOU11377 O ARG D 118	4580	5440	4450	-710	590	-230	O0
ATOM 11378 CB ARG D 118	-28.492	12.841	28.907	1.00	39.94		C0
ANISOU11378 CB ARG D 118	4670	5920	4580	-640	580	-240	C0
ATOM 11379 CG ARG D 118	-28.195	12.138	30.218	1.00	40.78		C0
ANISOU11379 CG ARG D 118	4750	6120	4630	-610	590	-180	C0
ATOM 11380 CD ARG D 118	-29.438	11.858	31.008	1.00	41.55		C0
ANISOU11380 CD ARG D 118	4780	6330	4670	-620	610	-100	C0
ATOM 11381 NE ARG D 118	-29.078	11.191	32.241	1.00	42.58		N0
ANISOU11381 NE ARG D 118	4890	6550	4740	-590	630	-30	N0
ATOM 11382 CZ ARG D 118	-29.897	11.028	33.273	1.00	43.73		C0
ANISOU11382 CZ ARG D 118	4970	6840	4800	-580	660	40	C0
ATOM 11383 NH1 ARG D 118	-31.136	11.492	33.219	1.00	44.17		N0
ANISOU11383 NH1 ARG D 118	4960	6980	4840	-590	680	30	N0
ATOM 11384 NH2 ARG D 118	-29.468	10.404	34.357	1.00	43.76		N0
ANISOU11384 NH2 ARG D 118	4970	6930	4730	-540	680	120	N0
ATOM 11385 H ARG D 118	-28.116	13.441	26.386	1.00	38.63		H0
ANISOU11385 H ARG D 118	4610	5570	4500	-700	550	-310	H0
ATOM 11386 HA ARG D 118	-26.762	13.957	28.759	1.00	39.04		H0
ANISOU11386 HA ARG D 118	4590	5750	4490	-600	560	-360	H0
ATOM 11387 HB2 ARG D 118	-29.055	13.623	29.080	1.00	40.02		H0
ANISOU11387 HB2 ARG D 118	4650	5990	4570	-610	570	-270	H0
ATOM 11388 HB3 ARG D 118	-28.985	12.231	28.319	1.00	39.96		H0
ANISOU11388 HB3 ARG D 118	4690	5890	4600	-700	580	-200	H0
ATOM 11389 HG2 ARG D 118	-27.737	11.291	30.037	1.00	40.80		H0
ANISOU11389 HG2 ARG D 118	4790	6060	4660	-640	600	-130	H0
ATOM 11390 HG3 ARG D 118	-27.594	12.697	30.756	1.00	40.76		H0
ANISOU11390 HG3 ARG D 118	4730	6150	4600	-570	580	-230	H0
ATOM 11391 HD2 ARG D 118	-29.895	12.703	31.207	1.00	41.69		H0
ANISOU11391 HD2 ARG D 118	4760	6420	4660	-580	610	-150	H0
ATOM 11392 HD3 ARG D 118	-30.045	11.291	30.486	1.00	41.73		H0

ANISOU11392	HD3 ARG D 118	4810	6320	4720	-690	620	-50	H0
ATOM 11393	HE ARG D 118	-28.270	10.873	32.311	1.00	42.52		H0
ANISOU11393	HE ARG D 118	4910	6500	4740	-570	620	-20	H0
ATOM 11394	HH11 ARG D 118	-31.424	11.907	32.502	1.00	43.68		H0
ANISOU11394	HH11 ARG D 118	4900	6870	4820	-600	670	-10	H0
ATOM 11395	HH12 ARG D 118	-31.673	11.381	33.906	1.00	44.76		H0
ANISOU11395	HH12 ARG D 118	4990	7160	4860	-580	710	80	H0
ATOM 11396	HH21 ARG D 118	-28.645	10.095	34.391	1.00	43.95		H0
ANISOU11396	HH21 ARG D 118	5030	6910	4770	-520	660	130	H0
ATOM 11397	HH22 ARG D 118	-30.010	10.294	35.043	1.00	44.70		H0
ANISOU11397	HH22 ARG D 118	5040	7150	4790	-540	700	170	H0
ATOM 11398	N GLN D 119	-25.134	12.094	28.650	1.00	38.29		N0
ANISOU11398	N GLN D 119	4540	5580	4430	-600	580	-280	N0
ATOM 11399	CA GLN D 119	-24.077	11.079	28.420	1.00	39.17		C0
ANISOU11399	CA GLN D 119	4680	5630	4570	-580	590	-240	C0
ATOM 11400	C GLN D 119	-23.211	10.914	29.666	1.00	40.32		C0
ANISOU11400	C GLN D 119	4760	5890	4670	-510	580	-210	C0
ATOM 11401	O GLN D 119	-22.978	11.912	30.375	1.00	40.94		O0
ANISOU11401	O GLN D 119	4780	6070	4700	-490	550	-280	O0
ATOM 11402	CB GLN D 119	-23.203	11.478	27.229	1.00	38.11		C0
ANISOU11402	CB GLN D 119	4570	5420	4490	-590	600	-300	C0
ATOM 11403	CG GLN D 119	-22.378	10.325	26.682	1.00	37.75		C0
ANISOU11403	CG GLN D 119	4570	5290	4480	-560	640	-270	C0
ATOM 11404	CD GLN D 119	-21.745	10.692	25.364	1.00	37.37		C0
ANISOU11404	CD GLN D 119	4560	5170	4470	-580	660	-330	C0
ATOM 11405	OE1 GLN D 119	-21.534	11.863	25.068	1.00	36.52		O0
ANISOU11405	OE1 GLN D 119	4420	5090	4360	-610	650	-390	O0
ATOM 11406	NE2 GLN D 119	-21.441	9.688	24.560	1.00	37.18		N0
ANISOU11406	NE2 GLN D 119	4600	5050	4470	-570	700	-320	N0
ATOM 11407	H GLN D 119	-24.937	12.702	29.300	1.00	38.67		H0
ANISOU11407	H GLN D 119	4550	5700	4450	-570	560	-310	H0
ATOM 11408	HA GLN D 119	-24.511	10.218	28.221	1.00	39.23		H0
ANISOU11408	HA GLN D 119	4720	5590	4590	-600	610	-180	H0
ATOM 11409	HB2 GLN D 119	-23.782	11.825	26.519	1.00	37.76		H0
ANISOU11409	HB2 GLN D 119	4560	5330	4460	-630	600	-330	H0
ATOM 11410	HB3 GLN D 119	-22.602	12.200	27.509	1.00	38.09		H0
ANISOU11410	HB3 GLN D 119	4530	5460	4480	-580	590	-350	H0
ATOM 11411	HG2 GLN D 119	-21.676	10.090	27.326	1.00	38.29		H0
ANISOU11411	HG2 GLN D 119	4600	5410	4540	-510	630	-240	H0
ATOM 11412	HG3 GLN D 119	-22.954	9.540	26.560	1.00	38.09		H0
ANISOU11412	HG3 GLN D 119	4660	5280	4530	-580	650	-220	H0
ATOM 11413	HE21 GLN D 119	-20.939	9.829	23.847	1.00	37.39		H0
ANISOU11413	HE21 GLN D 119	4640	5050	4510	-570	730	-350	H0
ATOM 11414	HE22 GLN D 119	-21.739	8.873	24.735	1.00	37.70		H0
ANISOU11414	HE22 GLN D 119	4710	5070	4540	-560	710	-280	H0
ATOM 11415	N ARG D 120	-22.736	9.688	29.872	1.00	42.31		N0
ANISOU11415	N ARG D 120	5030	6110	4930	-460	590	-120	N0
ATOM 11416	CA ARG D 120	-21.923	9.264	31.035	1.00	44.35		C0
ANISOU11416	CA ARG D 120	5230	6480	5140	-370	580	-60	C0
ATOM 11417	C ARG D 120	-20.450	9.253	30.608	1.00	44.09		C0
ANISOU11417	C ARG D 120	5160	6440	5140	-320	580	-90	C0
ATOM 11418	O ARG D 120	-20.172	8.890	29.444	1.00	43.00		O0
ANISOU11418	O ARG D 120	5090	6180	5080	-330	610	-110	O0
ATOM 11419	CB ARG D 120	-22.441	7.905	31.516	1.00	47.36		C0

ANISOU11419	CB	ARG D 120	5670	6810	5510	-350	610	90	C0
ATOM 11420	CG	ARG D 120	-22.133	7.594	32.973	1.00	50.70		C0
ANISOU11420	CG	ARG D 120	6030	7390	5840	-270	580	190	C0
ATOM 11421	CD	ARG D 120	-23.142	6.636	33.586	1.00	53.03		C0
ANISOU11421	CD	ARG D 120	6370	7670	6110	-290	620	330	C0
ATOM 11422	NE	ARG D 120	-22.755	6.196	34.923	1.00	56.01		N0
ANISOU11422	NE	ARG D 120	6710	8190	6380	-190	600	450	N0
ATOM 11423	CZ	ARG D 120	-22.763	6.958	36.020	1.00	57.76		C0
ANISOU11423	CZ	ARG D 120	6840	8630	6480	-170	570	420	C0
ATOM 11424	NH1	ARG D 120	-23.125	8.230	35.960	1.00	56.79		N0
ANISOU11424	NH1	ARG D 120	6670	8580	6320	-220	540	270	N0
ATOM 11425	NH2	ARG D 120	-22.398	6.442	37.182	1.00	60.14		N0
ANISOU11425	NH2	ARG D 120	7110	9070	6670	-80	550	550	N0
ATOM 11426	H	ARG D 120	-22.885	9.011	29.281	1.00	42.28		H0
ANISOU11426	H	ARG D 120	5090	6010	4970	-480	620	-90	H0
ATOM 11427	HA	ARG D 120	-22.041	9.923	31.754	1.00	44.51		H0
ANISOU11427	HA	ARG D 120	5200	6610	5100	-370	550	-90	H0
ATOM 11428	HB2	ARG D 120	-23.412	7.879	31.387	1.00	47.12		H0
ANISOU11428	HB2	ARG D 120	5670	6760	5480	-410	620	100	H0
ATOM 11429	HB3	ARG D 120	-22.045	7.205	30.954	1.00	47.56		H0
ANISOU11429	HB3	ARG D 120	5750	6730	5590	-330	630	120	H0
ATOM 11430	HG2	ARG D 120	-21.239	7.198	33.036	1.00	51.00		H0
ANISOU11430	HG2	ARG D 120	6060	7430	5890	-200	580	220	H0
ATOM 11431	HG3	ARG D 120	-22.130	8.427	33.487	1.00	50.36		H0
ANISOU11431	HG3	ARG D 120	5930	7470	5740	-270	550	120	H0
ATOM 11432	HD2	ARG D 120	-24.017	7.076	33.632	1.00	52.69		H0
ANISOU11432	HD2	ARG D 120	6320	7660	6040	-350	620	300	H0
ATOM 11433	HD3	ARG D 120	-23.232	5.851	33.004	1.00	53.24		H0
ANISOU11433	HD3	ARG D 120	6480	7550	6200	-310	650	380	H0
ATOM 11434	HE	ARG D 120	-22.511	5.364	35.016	1.00	56.77		H0
ANISOU11434	HE	ARG D 120	6840	8230	6500	-150	620	550	H0
ATOM 11435	HH11	ARG D 120	-23.373	8.583	35.199	1.00	55.92		H0
ANISOU11435	HH11	ARG D 120	6580	8390	6280	-270	550	200	H0
ATOM 11436	HH12	ARG D 120	-23.124	8.719	36.690	1.00	57.13		H0
ANISOU11436	HH12	ARG D 120	6660	8760	6280	-200	520	240	H0
ATOM 11437	HH21	ARG D 120	-22.151	5.597	37.231	1.00	60.39		H0
ANISOU11437	HH21	ARG D 120	7180	9040	6730	-30	570	660	H0
ATOM 11438	HH22	ARG D 120	-22.397	6.945	37.906	1.00	60.01		H0
ANISOU11438	HH22	ARG D 120	7040	9210	6560	-60	530	520	H0
ATOM 11439	N	PHE D 121	-19.550	9.655	31.511	1.00	44.00		N0
ANISOU11439	N	PHE D 121	5050	6590	5070	-260	530	-100	N0
ATOM 11440	CA	PHE D 121	-18.106	9.858	31.232	1.00	44.13		C0
ANISOU11440	CA	PHE D 121	4990	6660	5110	-220	520	-140	C0
ATOM 11441	C	PHE D 121	-17.246	9.252	32.340	1.00	45.93		C0
ANISOU11441	C	PHE D 121	5130	7050	5280	-110	480	-50	C0
ATOM 11442	O	PHE D 121	-17.648	9.299	33.514	1.00	46.08		O0
ANISOU11442	O	PHE D 121	5120	7190	5200	-90	440	-10	O0
ATOM 11443	CB	PHE D 121	-17.797	11.347	31.090	1.00	43.37		C0
ANISOU11443	CB	PHE D 121	4830	6630	5010	-310	490	-280	C0
ATOM 11444	CG	PHE D 121	-18.411	11.971	29.867	1.00	42.23		C0
ANISOU11444	CG	PHE D 121	4770	6340	4940	-400	530	-350	C0
ATOM 11445	CD1	PHE D 121	-17.850	11.760	28.619	1.00	41.79		C0
ANISOU11445	CD1	PHE D 121	4740	6180	4960	-410	570	-360	C0
ATOM 11446	CD2	PHE D 121	-19.559	12.741	29.959	1.00	41.69		C0

ANISOU11446	CD2 PHE D 121	4750	6240	4850	-460	520	-400	C0
ATOM 11447	CE1 PHE D 121	-18.422	12.317	27.487	1.00	40.74		C0
ANISOU11447	CE1 PHE D 121	4680	5930	4870	-490	610	-410	C0
ATOM 11448	CE2 PHE D 121	-20.129	13.294	28.822	1.00	41.15		C0
ANISOU11448	CE2 PHE D 121	4750	6050	4840	-530	550	-440	C0
ATOM 11449	CZ PHE D 121	-19.561	13.077	27.588	1.00	40.01		C0
ANISOU11449	CZ PHE D 121	4630	5810	4760	-540	590	-440	C0
ATOM 11450	H PHE D 121	-19.764	9.838	32.377	1.00	44.43		H0
ANISOU11450	H PHE D 121	5070	6750	5060	-250	510	-90	H0
ATOM 11451	HA PHE D 121	-17.882	9.406	30.379	1.00	44.08		H0
ANISOU11451	HA PHE D 121	5020	6550	5170	-210	560	-130	H0
ATOM 11452	HB2 PHE D 121	-18.127	11.812	31.886	1.00	43.61		H0
ANISOU11452	HB2 PHE D 121	4840	6750	4980	-330	450	-310	H0
ATOM 11453	HB3 PHE D 121	-16.824	11.463	31.053	1.00	43.97		H0
ANISOU11453	HB3 PHE D 121	4830	6770	5100	-290	480	-300	H0
ATOM 11454	HD1 PHE D 121	-17.072	11.233	28.541	1.00	42.35		H0
ANISOU11454	HD1 PHE D 121	4770	6280	5040	-350	590	-330	H0
ATOM 11455	HD2 PHE D 121	-19.958	12.887	30.802	1.00	41.93		H0
ANISOU11455	HD2 PHE D 121	4760	6340	4830	-450	490	-400	H0
ATOM 11456	HE1 PHE D 121	-18.031	12.167	26.649	1.00	40.81		H0
ANISOU11456	HE1 PHE D 121	4710	5890	4910	-490	640	-410	H0
ATOM 11457	HE2 PHE D 121	-20.908	13.820	28.896	1.00	40.58		H0
ANISOU11457	HE2 PHE D 121	4700	5960	4760	-550	540	-470	H0
ATOM 11458	HZ PHE D 121	-19.945	13.461	26.816	1.00	39.87		H0
ANISOU11458	HZ PHE D 121	4670	5720	4760	-590	600	-470	H0
ATOM 11459	N SER D 122	-16.089	8.714	31.949	1.00	47.17		N0
ANISOU11459	N SER D 122	5230	7220	5480	-20	500	-20	N0
ATOM 11460	CA SER D 122	-14.948	8.393	32.841	1.00	49.15		C0
ANISOU11460	CA SER D 122	5350	7660	5670	100	450	50	C0
ATOM 11461	C SER D 122	-14.044	9.625	32.938	1.00	49.67		C0
ANISOU11461	C SER D 122	5270	7900	5710	20	390	-80	C0
ATOM 11462	O SER D 122	-13.445	9.994	31.917	1.00	49.21		O0
ANISOU11462	O SER D 122	5180	7790	5730	-20	430	-140	O0
ATOM 11463	CB SER D 122	-14.193	7.202	32.340	1.00	50.10		C0
ANISOU11463	CB SER D 122	5480	7700	5850	250	500	160	C0
ATOM 11464	OG SER D 122	-13.146	6.868	33.234	1.00	52.09		O0
ANISOU11464	OG SER D 122	5590	8160	6040	380	450	240	O0
ATOM 11465	H SER D 122	-15.913	8.501	31.081	1.00	46.90		H0
ANISOU11465	H SER D 122	5230	7080	5510	-20	540	-30	H0
ATOM 11466	HA SER D 122	-15.305	8.188	33.746	1.00	49.56		H0
ANISOU11466	HA SER D 122	5400	7790	5640	130	420	110	H0
ATOM 11467	HB2 SER D 122	-14.808	6.439	32.253	1.00	50.11		H0
ANISOU11467	HB2 SER D 122	5590	7570	5880	270	540	230	H0
ATOM 11468	HB3 SER D 122	-13.819	7.399	31.451	1.00	49.84		H0
ANISOU11468	HB3 SER D 122	5440	7610	5880	220	540	90	H0
ATOM 11469	N CYS D 123	-13.984	10.258	34.109	1.00	51.13		N0
ANISOU11469	N CYS D 123	5370	8270	5780	-10	310	-110	N0
ATOM 11470	CA CYS D 123	-13.148	11.462	34.358	1.00	52.67		C0
ANISOU11470	CA CYS D 123	5430	8630	5950	-110	240	-250	C0
ATOM 11471	C CYS D 123	-12.901	11.620	35.859	1.00	53.50		C0
ANISOU11471	C CYS D 123	5440	8990	5900	-80	140	-250	C0
ATOM 11472	O CYS D 123	-13.557	10.906	36.643	1.00	53.41		O0
ANISOU11472	O CYS D 123	5480	9010	5800	10	130	-140	O0
ATOM 11473	CB CYS D 123	-13.793	12.712	33.771	1.00	52.58		C0

ANISOU11473	CB	CYS D 123	5500	8500	5990	-270	260	-400	C0
ATOM 11474	SG	CYS D 123	-15.407	13.114	34.486	1.00	54.23		S0
ANISOU11474	SG	CYS D 123	5830	8650	6120	-310	250	-440	S0
ATOM 11475	H	CYS D 123	-14.457	10.001	34.845	1.00	51.40		H0
ANISOU11475	H	CYS D 123	5430	8350	5750	30	290	-60	H0
ATOM 11476	HA	CYS D 123	-12.280	11.323	33.913	1.00	53.09		H0
ANISOU11476	HA	CYS D 123	5400	8720	6050	-80	250	-240	H0
ATOM 11477	HB2	CYS D 123	-13.197	13.474	33.911	1.00	53.48		H0
ANISOU11477	HB2	CYS D 123	5530	8700	6090	-350	220	-490	H0
ATOM 11478	HB3	CYS D 123	-13.903	12.591	32.805	1.00	52.12		H0
ANISOU11478	HB3	CYS D 123	5490	8300	6010	-290	320	-400	H0
ATOM 11479	N	ASP D 124	-11.964	12.502	36.226	1.00	54.44		N0
ANISOU11479	N	ASP D 124	5410	9300	5970	-160	60	-360	N0
ATOM 11480	CA	ASP D 124	-11.508	12.718	37.624	1.00	55.33		C0
ANISOU11480	CA	ASP D 124	5400	9700	5920	-140	-60	-380	C0
ATOM 11481	C	ASP D 124	-12.636	13.390	38.413	1.00	54.77		C0
ANISOU11481	C	ASP D 124	5440	9620	5750	-210	-80	-480	C0
ATOM 11482	O	ASP D 124	-12.869	14.597	38.200	1.00	55.02		O0
ANISOU11482	O	ASP D 124	5510	9580	5810	-360	-80	-660	O0
ATOM 11483	CB	ASP D 124	-10.227	13.555	37.686	1.00	56.40		C0
ANISOU11483	CB	ASP D 124	5350	10030	6050	-250	-140	-500	C0
ATOM 11484	CG	ASP D 124	-9.554	13.553	39.050	1.00	58.31		C0
ANISOU11484	CG	ASP D 124	5440	10600	6110	-210	-270	-500	C0
ATOM 11485	OD1	ASP D 124	-10.147	13.004	40.005	1.00	58.05		O0
ANISOU11485	OD1	ASP D 124	5460	10650	5940	-110	-300	-410	O0
ATOM 11486	OD2	ASP D 124	-8.442	14.106	39.148	1.00	59.61		O0
ANISOU11486	OD2	ASP D 124	5430	10960	6260	-300	-350	-590	O0
ATOM 11487	H	ASP D 124	-11.541	13.037	35.621	1.00	54.13		H0
ANISOU11487	H	ASP D 124	5340	9230	6000	-240	70	-430	H0
ATOM 11488	HA	ASP D 124	-11.322	11.837	38.026	1.00	56.08		H0
ANISOU11488	HA	ASP D 124	5470	9870	5970	-10	-70	-250	H0
ATOM 11489	HB2	ASP D 124	-9.590	13.217	37.027	1.00	56.49		H0
ANISOU11489	HB2	ASP D 124	5300	10020	6140	-210	-110	-450	H0
ATOM 11490	HB3	ASP D 124	-10.439	14.481	37.452	1.00	55.97		H0
ANISOU11490	HB3	ASP D 124	5340	9900	6030	-390	-140	-640	H0
ATOM 11491	N	VAL D 125	-13.287	12.626	39.293	1.00	54.14		N0
ANISOU11491	N	VAL D 125	5410	9610	5550	-100	-80	-350	N0
ATOM 11492	CA	VAL D 125	-14.408	13.076	40.168	1.00	53.39		C0
ANISOU11492	CA	VAL D 125	5400	9550	5330	-130	-80	-410	C0
ATOM 11493	C	VAL D 125	-13.864	13.429	41.561	1.00	54.90		C0
ANISOU11493	C	VAL D 125	5490	10060	5310	-120	-200	-470	C0
ATOM 11494	O	VAL D 125	-14.629	14.003	42.351	1.00	54.52		O0
ANISOU11494	O	VAL D 125	5500	10080	5140	-150	-210	-570	O0
ATOM 11495	CB	VAL D 125	-15.499	11.990	40.232	1.00	53.06		C0
ANISOU11495	CB	VAL D 125	5480	9400	5290	-20	0	-230	C0
ATOM 11496	CG1	VAL D 125	-16.570	12.298	41.265	1.00	53.95		C0
ANISOU11496	CG1	VAL D 125	5650	9600	5240	-20	0	-260	C0
ATOM 11497	CG2	VAL D 125	-16.128	11.759	38.867	1.00	51.41		C0
ANISOU11497	CG2	VAL D 125	5380	8890	5260	-60	100	-210	C0
ATOM 11498	H	VAL D 125	-13.079	11.747	39.414	1.00	54.63		H0
ANISOU11498	H	VAL D 125	5450	9710	5600	10	-70	-210	H0
ATOM 11499	HA	VAL D 125	-14.797	13.880	39.778	1.00	52.71		H0
ANISOU11499	HA	VAL D 125	5380	9360	5300	-220	-60	-540	H0
ATOM 11500	HB	VAL D 125	-15.060	11.148	40.504	1.00	53.93		H0

ANISOU11500 HB VAL D 125	5540	9580	5370	80	-10	-90	H0
ATOM 11501 HG11 VAL D 125	-16.206	12.179	42.159	1.00	55.16		H0
ANISOU11501 HG11 VAL D 125	5740	9960	5260	20	-60	-230	H0
ATOM 11502 HG12 VAL D 125	-17.321	11.693	41.143	1.00	53.26		H0
ANISOU11502 HG12 VAL D 125	5630	9420	5180	10	60	-150	H0
ATOM 11503 HG13 VAL D 125	-16.871	13.217	41.157	1.00	53.41		H0
ANISOU11503 HG13 VAL D 125	5610	9500	5180	-110	0	-410	H0
ATOM 11504 HG21 VAL D 125	-16.408	12.611	38.491	1.00	50.64		H0
ANISOU11504 HG21 VAL D 125	5320	8720	5210	-150	110	-340	H0
ATOM 11505 HG22 VAL D 125	-16.902	11.175	38.958	1.00	51.01		H0
ANISOU11505 HG22 VAL D 125	5400	8770	5210	-20	150	-110	H0
ATOM 11506 HG23 VAL D 125	-15.478	11.343	38.276	1.00	51.30		H0
ANISOU11506 HG23 VAL D 125	5340	8820	5330	-30	110	-160	H0
ATOM 11507 N SER D 126	-12.594	13.116	41.851	1.00	56.29		N0
ANISOU11507 N SER D 126	5500	10450	5440	-70	-290	-420	N0
ATOM 11508 CA SER D 126	-11.934	13.398	43.156	1.00	58.51		C0
ANISOU11508 CA SER D 126	5650	11070	5510	-70	-420	-470	C0
ATOM 11509 C SER D 126	-12.038	14.896	43.470	1.00	58.52		C0
ANISOU11509 C SER D 126	5670	11110	5460	-250	-480	-760	C0
ATOM 11510 O SER D 126	-11.782	15.713	42.562	1.00	57.78		O0
ANISOU11510 O SER D 126	5590	10850	5520	-400	-450	-900	O0
ATOM 11511 CB SER D 126	-10.496	12.916	43.181	1.00	60.10		C0
ANISOU11511 CB SER D 126	5650	11480	5700	0	-500	-390	C0
ATOM 11512 OG SER D 126	-9.669	13.699	42.334	1.00	59.75		O0
ANISOU11512 OG SER D 126	5510	11390	5800	-140	-520	-530	O0
ATOM 11513 H SER D 126	-12.034	12.701	41.266	1.00	56.17		H0
ANISOU11513 H SER D 126	5430	10390	5520	-30	-270	-360	H0
ATOM 11514 HA SER D 126	-12.436	12.903	43.858	1.00	58.89		H0
ANISOU11514 HA SER D 126	5740	11200	5440	20	-420	-380	H0
ATOM 11515 HB2 SER D 126	-10.155	12.962	44.103	1.00	61.72		H0
ANISOU11515 HB2 SER D 126	5770	11930	5750	30	-600	-390	H0
ATOM 11516 HB3 SER D 126	-10.464	11.976	42.891	1.00	59.78		H0
ANISOU11516 HB3 SER D 126	5620	11380	5720	130	-450	-210	H0
ATOM 11517 N GLY D 127	-12.446	15.231	44.696	1.00	59.60		N0
ANISOU11517 N GLY D 127	5820	11440	5380	-250	-540	-830	N0
ATOM 11518 CA GLY D 127	-12.520	16.614	45.206	1.00	60.60		C0
ANISOU11518 CA GLY D 127	5980	11630	5420	-410	-600	-1120	C0
ATOM 11519 C GLY D 127	-13.834	17.301	44.861	1.00	58.91		C0
ANISOU11519 C GLY D 127	5960	11150	5270	-460	-490	-1230	C0
ATOM 11520 O GLY D 127	-13.940	18.513	45.127	1.00	59.28		O0
ANISOU11520 O GLY D 127	6070	11170	5280	-590	-520	-1480	O0
ATOM 11521 H GLY D 127	-12.708	14.604	45.303	1.00	60.19		H0
ANISOU11521 H GLY D 127	5900	11630	5340	-140	-540	-710	H0
ATOM 11522 HA2 GLY D 127	-12.409	16.597	46.188	1.00	62.17		H0
ANISOU11522 HA2 GLY D 127	6140	12060	5430	-380	-670	-1140	H0
ATOM 11523 HA3 GLY D 127	-11.770	17.136	44.825	1.00	60.97		H0
ANISOU11523 HA3 GLY D 127	5960	11670	5540	-520	-640	-1220	H0
ATOM 11524 N VAL D 128	-14.808	16.567	44.309	1.00	57.01		N0
ANISOU11524 N VAL D 128	5820	10710	5130	-360	-370	-1060	N0
ATOM 11525 CA VAL D 128	-16.172	17.091	43.987	1.00	56.01		C0
ANISOU11525 CA VAL D 128	5860	10360	5060	-370	-260	-1140	C0
ATOM 11526 C VAL D 128	-16.783	17.700	45.258	1.00	57.98		C0
ANISOU11526 C VAL D 128	6160	10790	5080	-360	-280	-1280	C0
ATOM 11527 O VAL D 128	-17.485	18.721	45.143	1.00	57.71		O0

ANISOU11527 O VAL D 128	6230 10610 5080 -410 -240 -1460	O O
ATOM 11528 CB VAL D 128	-17.087 16.010 43.371 1.00 54.06	C O
ANISOU11528 CB VAL D 128	5680 9950 4910 -260 -140 -910	C O
ATOM 11529 CG1 VAL D 128	-17.337 14.838 44.309 1.00 54.77	C O
ANISOU11529 CG1 VAL D 128	5740 10230 4840 -130 -140 -690	C O
ATOM 11530 CG2 VAL D 128	-18.405 16.601 42.901 1.00 52.80	C O
ANISOU11530 CG2 VAL D 128	5660 9580 4830 -290 -40 -980	C O
ATOM 11531 H VAL D 128	-14.695 15.694 44.082 1.00 56.66	H O
ANISOU11531 H VAL D 128	5750 10660 5120 -270 -340 -890	H O
ATOM 11532 HA VAL D 128	-16.069 17.805 43.333 1.00 55.43	H O
ANISOU11532 HA VAL D 128	5820 10140 5100 -460 -250 -1250	H O
ATOM 11533 HB VAL D 128	-16.621 15.657 42.574 1.00 53.27	H O
ANISOU11533 HB VAL D 128	5550 9740 4940 -270 -130 -840	H O
ATOM 11534 HG11 VAL D 128	-16.488 14.495 44.639 1.00 55.84	H O
ANISOU11534 HG11 VAL D 128	5780 10520 4910 -100 -210 -640	H O
ATOM 11535 HG12 VAL D 128	-17.804 14.132 43.828 1.00 53.80	H O
ANISOU11535 HG12 VAL D 128	5660 9980 4800 -80 -70 -550	H O
ATOM 11536 HG13 VAL D 128	-17.881 15.131 45.060 1.00 55.58	H O
ANISOU11536 HG13 VAL D 128	5870 10440 4800 -110 -140 -750	H O
ATOM 11537 HG21 VAL D 128	-18.956 16.824 43.671 1.00 53.57	H O
ANISOU11537 HG21 VAL D 128	5780 9780 4790 -260 -40 -1030	H O
ATOM 11538 HG22 VAL D 128	-18.873 15.954 42.347 1.00 51.67	H O
ANISOU11538 HG22 VAL D 128	5550 9320 4770 -250 20 -850	H O
ATOM 11539 HG23 VAL D 128	-18.233 17.406 42.382 1.00 52.48	H O
ANISOU11539 HG23 VAL D 128	5640 9420 4880 -370 -50 -1110	H O
ATOM 11540 N ASP D 129	-16.505 17.108 46.422 1.00 60.44	N O
ANISOU11540 N ASP D 129	6390 11400 5170 -270 -350 -1190	N O
ATOM 11541 CA ASP D 129	-17.010 17.561 47.745 1.00 63.23	C O
ANISOU11541 CA ASP D 129	6780 11990 5260 -240 -370 -1310	C O
ATOM 11542 C ASP D 129	-15.901 18.338 48.474 1.00 65.76	C O
ANISOU11542 C ASP D 129	7010 12540 5430 -350 -530 -1530	C O
ATOM 11543 O ASP D 129	-15.559 17.957 49.614 1.00 68.46	O O
ANISOU11543 O ASP D 129	7280 13210 5520 -280 -610 -1490	O O
ATOM 11544 CB ASP D 129	-17.530 16.359 48.542 1.00 64.12	C O
ANISOU11544 CB ASP D 129	6870 12290 5200 -80 -340 -1060	C O
ATOM 11545 CG ASP D 129	-18.337 16.709 49.785 1.00 66.14	C O
ANISOU11545 CG ASP D 129	7180 12760 5190 -30 -320 -1140	C O
ATOM 11546 OD1 ASP D 129	-18.346 17.900 50.178 1.00 66.91	O O
ANISOU11546 OD1 ASP D 129	7320 12890 5210 -110 -350 -1430	O O
ATOM 11547 OD2 ASP D 129	-18.947 15.777 50.355 1.00 66.89	O O
ANISOU11547 OD2 ASP D 129	7270 12980 5160 90 -260 -920	O O
ATOM 11548 H ASP D 129	-15.987 16.361 46.475 1.00 60.71	H O
ANISOU11548 H ASP D 129	6350 11530 5190 -220 -380 -1050	H O
ATOM 11549 HA ASP D 129	-17.767 18.173 47.592 1.00 62.64	H O
ANISOU11549 HA ASP D 129	6800 11780 5220 -260 -310 -1420	H O
ATOM 11550 HB2 ASP D 129	-18.099 15.819 47.956 1.00 62.65	H O
ANISOU11550 HB2 ASP D 129	6730 11940 5140 -40 -250 -920	H O
ATOM 11551 HB3 ASP D 129	-16.771 15.808 48.818 1.00 65.00	H O
ANISOU11551 HB3 ASP D 129	6890 12550 5260 -50 -410 -950	H O
ATOM 11552 N THR D 130	-15.370 19.397 47.849 1.00 65.67	N O
ANISOU11552 N THR D 130	7020 12370 5570 -510 -560 -1750	N O
ATOM 11553 CA THR D 130	-14.365 20.326 48.439 1.00 68.14	C O
ANISOU11553 CA THR D 130	7260 12860 5770 -660 -700 -2000	C O
ATOM 11554 C THR D 130	-14.593 21.749 47.917 1.00 68.75	C O

ANISOU11554	C	THR D 130	7480	12660	5980	-820	-670	-2280	C0
ATOM 11555	O	THR D 130	-15.374	21.913	46.960	1.00	66.15		O0
ANISOU11555	O	THR D 130	7260	12010	5860	-800	-550	-2240	O0
ATOM 11556	CB	THR D 130	-12.927	19.893	48.123	1.00	68.54		C0
ANISOU11556	CB	THR D 130	7120	13050	5880	-720	-820	-1910	C0
ATOM 11557	OG1	THR D 130	-12.679	20.082	46.728	1.00	66.02		O0
ANISOU11557	OG1	THR D 130	6810	12420	5850	-810	-750	-1890	O0
ATOM 11558	CG2	THR D 130	-12.639	18.457	48.504	1.00	68.53		C0
ANISOU11558	CG2	THR D 130	6990	13270	5770	-540	-840	-1610	C0
ATOM 11559	H	THR D 130	-15.593	19.626	46.996	1.00	64.25		H0
ANISOU11559	H	THR D 130	6890	11960	5560	-550	-500	-1760	H0
ATOM 11560	HA	THR D 130	-14.485	20.327	49.417	1.00	69.80		H0
ANISOU11560	HA	THR D 130	7470	13290	5770	-620	-750	-2050	H0
ATOM 11561	HB	THR D 130	-12.319	20.479	48.630	1.00	70.29		H0
ANISOU11561	HB	THR D 130	7290	13420	6000	-830	-920	-2080	H0
ATOM 11562	HG21	THR D 130	-12.916	18.303	49.424	1.00	69.80		H0
ANISOU11562	HG21	THR D 130	7160	13630	5730	-470	-870	-1600	H0
ATOM 11563	HG22	THR D 130	-11.684	18.283	48.420	1.00	69.37		H0
ANISOU11563	HG22	THR D 130	6960	13500	5900	-570	-920	-1580	H0
ATOM 11564	HG23	THR D 130	-13.130	17.859	47.914	1.00	66.81		H0
ANISOU11564	HG23	THR D 130	6820	12890	5680	-460	-740	-1450	H0
ATOM 11565	N	GLU D 131	-13.911	22.731	48.515	1.00	72.37		N0
ANISOU11565	N	GLU D 131	7920	13230	6340	-980	-790	-2550	N0
ATOM 11566	CA	GLU D 131	-13.941	24.155	48.082	1.00	73.71		C0
ANISOU11566	CA	GLU D 131	8230	13130	6650	-1160	-770	-2840	C0
ATOM 11567	C	GLU D 131	-13.432	24.260	46.638	1.00	71.58		C0
ANISOU11567	C	GLU D 131	7930	12590	6680	-1270	-730	-2760	C0
ATOM 11568	O	GLU D 131	-14.089	24.946	45.834	1.00	69.99		O0
ANISOU11568	O	GLU D 131	7890	12040	6660	-1300	-620	-2820	O0
ATOM 11569	CB	GLU D 131	-13.103	25.032	49.016	1.00	78.03		C0
ANISOU11569	CB	GLU D 131	8740	13890	7020	-1340	-920	-3130	C0
ATOM 11570	CG	GLU D 131	-13.739	25.250	50.379	1.00	81.08		C0
ANISOU11570	CG	GLU D 131	9210	14490	7100	-1250	-940	-3290	C0
ATOM 11571	CD	GLU D 131	-13.169	26.412	51.178	1.00	85.20		C0
ANISOU11571	CD	GLU D 131	9780	15110	7480	-1450	-1070	-3650	C0
ATOM 11572	OE1	GLU D 131	-13.957	27.096	51.864	1.00	87.03		O0
ANISOU11572	OE1	GLU D 131	10190	15310	7570	-1410	-1020	-3870	O0
ATOM 11573	OE2	GLU D 131	-11.939	26.633	51.119	1.00	87.11		O0
ANISOU11573	OE2	GLU D 131	9880	15470	7750	-1650	-1210	-3730	O0
ATOM 11574	H	GLU D 131	-13.379	22.581	49.238	1.00	73.92		H0
ANISOU11574	H	GLU D 131	8030	13680	6380	-990	-880	-2580	H0
ATOM 11575	HA	GLU D 131	-14.874	24.465	48.110	1.00	73.17		H0
ANISOU11575	HA	GLU D 131	8300	12930	6580	-1090	-680	-2890	H0
ATOM 11576	HB2	GLU D 131	-12.225	24.614	49.136	1.00	78.72		H0
ANISOU11576	HB2	GLU D 131	8670	14170	7070	-1380	-1020	-3060	H0
ATOM 11577	HB3	GLU D 131	-12.965	25.903	48.587	1.00	78.39		H0
ANISOU11577	HB3	GLU D 131	8870	13730	7190	-1480	-910	-3290	H0
ATOM 11578	HG2	GLU D 131	-14.701	25.401	50.259	1.00	80.04		H0
ANISOU11578	HG2	GLU D 131	9210	14200	7000	-1160	-830	-3290	H0
ATOM 11579	HG3	GLU D 131	-13.635	24.431	50.910	1.00	81.22		H0
ANISOU11579	HG3	GLU D 131	9130	14760	6970	-1150	-980	-3130	H0
ATOM 11580	N	SER D 132	-12.311	23.601	46.326	1.00	71.71		N0
ANISOU11580	N	SER D 132	7750	12760	6740	-1310	-810	-2610	N0
ATOM 11581	CA	SER D 132	-11.603	23.696	45.021	1.00	70.90		C0

ANISOU11581	CA	SER D 132	7580	12460	6900	-1430	-780	-2540	C0
ATOM 11582	C	SER D 132	-12.419	22.986	43.935	1.00	67.31		C0
ANISOU11582	C	SER D 132	7200	11750	6620	-1280	-630	-2310	C0
ATOM 11583	O	SER D 132	-12.335	23.409	42.767	1.00	65.27		O0
ANISOU11583	O	SER D 132	6990	11220	6580	-1370	-560	-2310	O0
ATOM 11584	CB	SER D 132	-10.200	23.136	45.102	1.00	72.84		C0
ANISOU11584	CB	SER D 132	7570	12990	7120	-1490	-900	-2450	C0
ATOM 11585	OG	SER D 132	-10.217	21.713	45.104	1.00	72.43		O0
ANISOU11585	OG	SER D 132	7420	13080	7020	-1270	-880	-2170	O0
ATOM 11586	H	SER D 132	-11.899	23.028	46.899	1.00	72.61		H0
ANISOU11586	H	SER D 132	7750	13120	6720	-1260	-880	-2540	H0
ATOM 11587	HA	SER D 132	-11.540	24.659	44.778	1.00	71.53		H0
ANISOU11587	HA	SER D 132	7740	12370	7060	-1580	-770	-2720	H0
ATOM 11588	HB2	SER D 132	-9.679	23.454	44.330	1.00	72.63		H0
ANISOU11588	HB2	SER D 132	7510	12840	7250	-1610	-880	-2470	H0
ATOM 11589	HB3	SER D 132	-9.764	23.463	45.918	1.00	74.95		H0
ANISOU11589	HB3	SER D 132	7780	13460	7240	-1560	-1000	-2590	H0
ATOM 11590	N	GLY D 133	-13.168	21.948	44.324	1.00	65.96		N0
ANISOU11590	N	GLY D 133	7040	11670	6350	-1070	-580	-2130	N0
ATOM 11591	CA	GLY D 133	-14.024	21.147	43.431	1.00	63.07		C0
ANISOU11591	CA	GLY D 133	6740	11100	6120	-930	-450	-1910	C0
ATOM 11592	C	GLY D 133	-13.230	20.081	42.695	1.00	61.95		C0
ANISOU11592	C	GLY D 133	6460	10990	6080	-890	-450	-1680	C0
ATOM 11593	O	GLY D 133	-11.995	20.021	42.880	1.00	63.56		O0
ANISOU11593	O	GLY D 133	6500	11390	6260	-950	-550	-1700	O0
ATOM 11594	H	GLY D 133	-13.184	21.663	45.188	1.00	67.02		H0
ANISOU11594	H	GLY D 133	7140	12010	6310	-1010	-630	-2120	H0
ATOM 11595	HA2	GLY D 133	-14.736	20.716	43.967	1.00	62.89		H0
ANISOU11595	HA2	GLY D 133	6760	11150	5990	-820	-420	-1840	H0
ATOM 11596	HA3	GLY D 133	-14.455	21.747	42.773	1.00	62.23		H0
ANISOU11596	HA3	GLY D 133	6740	10760	6140	-990	-390	-1970	H0
ATOM 11597	N	ALA D 134	-13.925	19.254	41.910	1.00	58.98		N0
ANISOU11597	N	ALA D 134	6150	10450	5820	-770	-340	-1490	N0
ATOM 11598	CA	ALA D 134	-13.347	18.253	40.985	1.00	57.84		C0
ANISOU11598	CA	ALA D 134	5920	10260	5800	-710	-310	-1290	C0
ATOM 11599	C	ALA D 134	-13.233	18.883	39.595	1.00	55.97		C0
ANISOU11599	C	ALA D 134	5740	9750	5780	-820	-240	-1340	C0
ATOM 11600	O	ALA D 134	-14.009	19.811	39.312	1.00	55.87		O0
ANISOU11600	O	ALA D 134	5860	9540	5830	-890	-190	-1470	O0
ATOM 11601	CB	ALA D 134	-14.210	17.015	40.959	1.00	56.35		C0
ANISOU11601	CB	ALA D 134	5790	10020	5600	-530	-230	-1070	C0
ATOM 11602	H	ALA D 134	-14.836	19.255	41.885	1.00	58.32		H0
ANISOU11602	H	ALA D 134	6170	10260	5730	-720	-280	-1480	H0
ATOM 11603	HA	ALA D 134	-12.444	18.011	41.300	1.00	58.86		H0
ANISOU11603	HA	ALA D 134	5920	10560	5880	-710	-380	-1270	H0
ATOM 11604	HB1	ALA D 134	-13.853	16.384	40.310	1.00	55.78		H0
ANISOU11604	HB1	ALA D 134	5680	9890	5620	-490	-200	-960	H0
ATOM 11605	HB2	ALA D 134	-14.216	16.603	41.838	1.00	57.35		H0
ANISOU11605	HB2	ALA D 134	5880	10330	5590	-460	-270	-1020	H0
ATOM 11606	HB3	ALA D 134	-15.118	17.255	40.708	1.00	55.42		H0
ANISOU11606	HB3	ALA D 134	5780	9750	5520	-530	-160	-1100	H0
ATOM 11607	N	THR D 135	-12.301	18.410	38.768	1.00	55.70		N0
ANISOU11607	N	THR D 135	5590	9710	5860	-830	-230	-1250	N0
ATOM 11608	CA	THR D 135	-12.162	18.844	37.353	1.00	55.07		C0

ANISOU11608	CA	THR D 135	5560	9390	5980	-930	-150	-1260	C0
ATOM 11609	C	THR D 135	-12.333	17.626	36.438	1.00	53.78		C0
ANISOU11609	C	THR D 135	5410	9120	5900	-790	-60	-1060	C0
ATOM 11610	O	THR D 135	-11.398	16.811	36.342	1.00	54.20		O0
ANISOU11610	O	THR D 135	5320	9310	5960	-720	-70	-950	O0
ATOM 11611	CB	THR D 135	-10.852	19.603	37.127	1.00	56.45		C0
ANISOU11611	CB	THR D 135	5600	9650	6200	-1100	-200	-1360	C0
ATOM 11612	OG1	THR D 135	-10.830	20.686	38.058	1.00	57.74		O0
ANISOU11612	OG1	THR D 135	5780	9890	6280	-1230	-290	-1570	O0
ATOM 11613	CG2	THR D 135	-10.729	20.141	35.719	1.00	55.68		C0
ANISOU11613	CG2	THR D 135	5550	9310	6290	-1210	-110	-1370	C0
ATOM 11614	H	THR D 135	-11.680	17.789	39.010	1.00	56.48		H0
ANISOU11614	H	THR D 135	5580	9960	5920	-770	-260	-1160	H0
ATOM 11615	HA	THR D 135	-12.899	19.465	37.165	1.00	54.37		H0
ANISOU11615	HA	THR D 135	5590	9140	5920	-970	-110	-1330	H0
ATOM 11616	HB	THR D 135	-10.097	18.996	37.313	1.00	57.18		H0
ANISOU11616	HB	THR D 135	5550	9910	6260	-1050	-240	-1290	H0
ATOM 11617	HG21	THR D 135	-10.557	19.407	35.103	1.00	54.89		H0
ANISOU11617	HG21	THR D 135	5420	9190	6240	-1130	-60	-1250	H0
ATOM 11618	HG22	THR D 135	-9.993	20.778	35.677	1.00	56.83		H0
ANISOU11618	HG22	THR D 135	5620	9500	6470	-1340	-150	-1460	H0
ATOM 11619	HG23	THR D 135	-11.557	20.588	35.467	1.00	54.78		H0
ANISOU11619	HG23	THR D 135	5580	9020	6210	-1220	-70	-1410	H0
ATOM 11620	N	CYS D 136	-13.504	17.514	35.812	1.00	53.03		N0
ANISOU11620	N	CYS D 136	5470	8800	5870	-750	30	-1010	N0
ATOM 11621	CA	CYS D 136	-13.850	16.471	34.813	1.00	52.48		C0
ANISOU11621	CA	CYS D 136	5460	8590	5890	-650	120	-860	C0
ATOM 11622	C	CYS D 136	-13.451	16.966	33.419	1.00	51.60		C0
ANISOU11622	C	CYS D 136	5360	8320	5930	-740	180	-880	C0
ATOM 11623	O	CYS D 136	-13.989	18.005	32.986	1.00	51.23		O0
ANISOU11623	O	CYS D 136	5420	8120	5930	-850	210	-980	O0
ATOM 11624	CB	CYS D 136	-15.338	16.145	34.865	1.00	52.32		C0
ANISOU11624	CB	CYS D 136	5580	8440	5850	-580	170	-810	C0
ATOM 11625	SG	CYS D 136	-15.851	14.916	33.637	1.00	53.29		S0
ANISOU11625	SG	CYS D 136	5790	8380	6080	-490	270	-640	S0
ATOM 11626	H	CYS D 136	-14.196	18.090	35.957	1.00	52.74		H0
ANISOU11626	H	CYS D 136	5530	8690	5820	-780	40	-1090	H0
ATOM 11627	HA	CYS D 136	-13.339	15.655	35.024	1.00	52.91		H0
ANISOU11627	HA	CYS D 136	5430	8750	5920	-560	110	-760	H0
ATOM 11628	HB2	CYS D 136	-15.561	15.806	35.755	1.00	53.11		H0
ANISOU11628	HB2	CYS D 136	5670	8660	5850	-520	140	-780	H0
ATOM 11629	HB3	CYS D 136	-15.852	16.965	34.717	1.00	52.31		H0
ANISOU11629	HB3	CYS D 136	5650	8350	5870	-650	180	-900	H0
ATOM 11630	N	ARG D 137	-12.545	16.247	32.752	1.00	51.52		N0
ANISOU11630	N	ARG D 137	5260	8340	5970	-700	210	-790	N0
ATOM 11631	CA	ARG D 137	-12.026	16.590	31.400	1.00	51.56		C0
ANISOU11631	CA	ARG D 137	5260	8230	6100	-770	280	-800	C0
ATOM 11632	C	ARG D 137	-12.699	15.693	30.353	1.00	48.71		C0
ANISOU11632	C	ARG D 137	5020	7690	5800	-680	380	-700	C0
ATOM 11633	O	ARG D 137	-12.497	14.463	30.398	1.00	48.55		O0
ANISOU11633	O	ARG D 137	4970	7720	5760	-540	400	-590	O0
ATOM 11634	CB	ARG D 137	-10.499	16.476	31.380	1.00	54.22		C0
ANISOU11634	CB	ARG D 137	5400	8760	6450	-790	260	-790	C0
ATOM 11635	CG	ARG D 137	-9.813	17.369	32.405	1.00	56.99		C0

ANISOU11635	CG ARG D 137	5620	9300	6730	-920	150	-910	C0
ATOM 11636	CD ARG D 137	-8.310	17.459	32.213	1.00	60.27		C0
ANISOU11636	CD ARG D 137	5820	9910	7180	-980	130	-910	C0
ATOM 11637	NE ARG D 137	-7.621	17.759	33.462	1.00	63.98		N0
ANISOU11637	NE ARG D 137	6130	10640	7540	-1030	0	-980	N0
ATOM 11638	CZ ARG D 137	-7.491	18.970	34.009	1.00	66.12		C0
ANISOU11638	CZ ARG D 137	6390	10950	7790	-1230	-70	-1140	C0
ATOM 11639	NH1 ARG D 137	-8.006	20.041	33.423	1.00	66.09		N0
ANISOU11639	NH1 ARG D 137	6530	10710	7870	-1390	-20	-1250	N0
ATOM 11640	NH2 ARG D 137	-6.839	19.105	35.153	1.00	67.86		N0
ANISOU11640	NH2 ARG D 137	6460	11430	7890	-1270	-200	-1210	N0
ATOM 11641	H ARG D 137	-12.182	15.485	33.094	1.00	52.13		H0
ANISOU11641	H ARG D 137	5270	8520	6010	-600	200	-720	H0
ATOM 11642	HA ARG D 137	-12.267	17.524	31.210	1.00	51.31		H0
ANISOU11642	HA ARG D 137	5280	8120	6100	-880	290	-890	H0
ATOM 11643	HB2 ARG D 137	-10.251	15.544	31.554	1.00	54.41		H0
ANISOU11643	HB2 ARG D 137	5370	8860	6450	-670	260	-700	H0
ATOM 11644	HB3 ARG D 137	-10.177	16.714	30.486	1.00	54.09		H0
ANISOU11644	HB3 ARG D 137	5380	8670	6500	-850	320	-790	H0
ATOM 11645	HG2 ARG D 137	-10.192	18.272	32.349	1.00	56.94		H0
ANISOU11645	HG2 ARG D 137	5690	9190	6750	-1030	150	-1000	H0
ATOM 11646	HG3 ARG D 137	-9.996	17.025	33.305	1.00	57.46		H0
ANISOU11646	HG3 ARG D 137	5660	9460	6700	-850	100	-890	H0
ATOM 11647	HD2 ARG D 137	-7.979	16.607	31.858	1.00	60.25		H0
ANISOU11647	HD2 ARG D 137	5760	9940	7190	-860	170	-800	H0
ATOM 11648	HD3 ARG D 137	-8.109	18.158	31.556	1.00	60.39		H0
ANISOU11648	HD3 ARG D 137	5840	9840	7270	-1100	170	-960	H0
ATOM 11649	HE ARG D 137	-7.263	17.089	33.890	1.00	64.45		H0
ANISOU11649	HE ARG D 137	6090	10850	7550	-920	-30	-910	H0
ATOM 11650	HH11 ARG D 137	-8.442	19.965	32.666	1.00	64.63		H0
ANISOU11650	HH11 ARG D 137	6440	10360	7750	-1360	60	-1200	H0
ATOM 11651	HH12 ARG D 137	-7.912	20.831	33.797	1.00	66.70		H0
ANISOU11651	HH12 ARG D 137	6620	10790	7940	-1510	-70	-1360	H0
ATOM 11652	HH21 ARG D 137	-6.493	18.398	35.548	1.00	68.39		H0
ANISOU11652	HH21 ARG D 137	6420	11660	7900	-1150	-230	-1130	H0
ATOM 11653	HH22 ARG D 137	-6.751	19.902	35.518	1.00	68.75		H0
ANISOU11653	HH22 ARG D 137	6570	11560	7990	-1400	-250	-1330	H0
ATOM 11654	N ILE D 138	-13.481	16.300	29.457	1.00	46.51		N0
ANISOU11654	N ILE D 138	4870	7220	5570	-750	430	-730	N0
ATOM 11655	CA ILE D 138	-14.206	15.618	28.344	1.00	45.46		C0
ANISOU11655	CA ILE D 138	4860	6920	5490	-690	510	-660	C0
ATOM 11656	C ILE D 138	-13.499	15.985	27.035	1.00	45.25		C0
ANISOU11656	C ILE D 138	4820	6840	5530	-760	580	-660	C0
ATOM 11657	O ILE D 138	-13.435	17.188	26.734	1.00	45.18		O0
ANISOU11657	O ILE D 138	4830	6780	5560	-890	580	-730	O0
ATOM 11658	CB ILE D 138	-15.696	16.025	28.344	1.00	43.92		C0
ANISOU11658	CB ILE D 138	4810	6590	5280	-710	510	-680	C0
ATOM 11659	CG1 ILE D 138	-16.422	15.527	29.597	1.00	43.93		C0
ANISOU11659	CG1 ILE D 138	4820	6670	5200	-640	460	-650	C0
ATOM 11660	CG2 ILE D 138	-16.393	15.561	27.077	1.00	42.75		C0
ANISOU11660	CG2 ILE D 138	4780	6290	5180	-690	580	-620	C0
ATOM 11661	CD1 ILE D 138	-17.670	16.307	29.929	1.00	43.46		C0
ANISOU11661	CD1 ILE D 138	4850	6550	5120	-670	450	-710	C0
ATOM 11662	H ILE D 138	-13.624	17.199	29.471	1.00	46.91		H0

ANISOU11662	H	ILE D 138	4950	7230	5640	-840	420	-800	H0
ATOM 11663	HA	ILE D 138	-14.148	14.655	28.475	1.00	45.29		H0
ANISOU11663	HA	ILE D 138	4830	6930	5450	-600	520	-590	H0
ATOM 11664	HB	ILE D 138	-15.731	17.013	28.357	1.00	44.16		H0
ANISOU11664	HB	ILE D 138	4850	6600	5330	-790	500	-750	H0
ATOM 11665	HG12	ILE D 138	-16.665	14.585	29.467	1.00	43.64		H0
ANISOU11665	HG12	ILE D 138	4810	6610	5160	-570	480	-570	H0
ATOM 11666	HG13	ILE D 138	-15.808	15.576	30.360	1.00	44.73		H0
ANISOU11666	HG13	ILE D 138	4840	6900	5260	-630	420	-670	H0
ATOM 11667	HG21	ILE D 138	-16.206	16.185	26.354	1.00	42.80		H0
ANISOU11667	HG21	ILE D 138	4800	6240	5220	-760	610	-650	H0
ATOM 11668	HG22	ILE D 138	-17.353	15.522	27.226	1.00	42.27		H0
ANISOU11668	HG22	ILE D 138	4780	6180	5100	-680	570	-610	H0
ATOM 11669	HG23	ILE D 138	-16.070	14.677	26.831	1.00	42.89		H0
ANISOU11669	HG23	ILE D 138	4780	6320	5200	-630	600	-570	H0
ATOM 11670	HD11	ILE D 138	-17.455	17.254	29.992	1.00	43.83		H0
ANISOU11670	HD11	ILE D 138	4890	6590	5180	-740	430	-790	H0
ATOM 11671	HD12	ILE D 138	-18.030	16.000	30.779	1.00	43.64		H0
ANISOU11671	HD12	ILE D 138	4860	6640	5080	-620	420	-690	H0
ATOM 11672	HD13	ILE D 138	-18.334	16.173	29.230	1.00	42.75		H0
ANISOU11672	HD13	ILE D 138	4830	6350	5060	-670	490	-680	H0
ATOM 11673	N	LYS D 139	-12.968	14.996	26.309	1.00	45.51		N0
ANISOU11673	N	LYS D 139	4830	6880	5590	-670	640	-590	N0
ATOM 11674	CA	LYS D 139	-12.302	15.202	24.992	1.00	46.28		C0
ANISOU11674	CA	LYS D 139	4910	6940	5730	-720	730	-590	C0
ATOM 11675	C	LYS D 139	-13.279	14.838	23.870	1.00	44.79		C0
ANISOU11675	C	LYS D 139	4890	6570	5550	-690	790	-560	C0
ATOM 11676	O	LYS D 139	-13.814	13.713	23.895	1.00	44.41		O0
ANISOU11676	O	LYS D 139	4910	6470	5480	-580	800	-510	O0
ATOM 11677	CB	LYS D 139	-11.011	14.383	24.901	1.00	48.62		C0
ANISOU11677	CB	LYS D 139	5060	7380	6040	-620	770	-540	C0
ATOM 11678	CG	LYS D 139	-9.844	14.953	25.699	1.00	50.97		C0
ANISOU11678	CG	LYS D 139	5160	7880	6330	-680	710	-570	C0
ATOM 11679	CD	LYS D 139	-8.495	14.351	25.358	1.00	53.19		C0
ANISOU11679	CD	LYS D 139	5260	8320	6630	-590	760	-520	C0
ATOM 11680	CE	LYS D 139	-7.395	14.851	26.274	1.00	55.25		C0
ANISOU11680	CE	LYS D 139	5300	8820	6870	-660	690	-550	C0
ATOM 11681	NZ	LYS D 139	-6.061	14.374	25.844	1.00	57.30		N0
ANISOU11681	NZ	LYS D 139	5360	9260	7150	-580	750	-490	N0
ATOM 11682	H	LYS D 139	-12.984	14.127	26.579	1.00	45.64		H0
ANISOU11682	H	LYS D 139	4840	6920	5580	-570	640	-540	H0
ATOM 11683	HA	LYS D 139	-12.072	16.155	24.910	1.00	46.63		H0
ANISOU11683	HA	LYS D 139	4930	6990	5800	-830	720	-630	H0
ATOM 11684	HB2	LYS D 139	-11.194	13.475	25.220	1.00	48.47		H0
ANISOU11684	HB2	LYS D 139	5060	7360	6000	-500	760	-490	H0
ATOM 11685	HB3	LYS D 139	-10.746	14.322	23.960	1.00	48.67		H0
ANISOU11685	HB3	LYS D 139	5080	7350	6060	-620	840	-530	H0
ATOM 11686	HG2	LYS D 139	-9.805	15.921	25.546	1.00	51.03		H0
ANISOU11686	HG2	LYS D 139	5160	7870	6360	-810	700	-620	H0
ATOM 11687	HG3	LYS D 139	-10.020	14.811	26.654	1.00	51.00		H0
ANISOU11687	HG3	LYS D 139	5140	7940	6300	-650	640	-570	H0
ATOM 11688	HD2	LYS D 139	-8.551	13.374	25.428	1.00	53.09		H0
ANISOU11688	HD2	LYS D 139	5270	8300	6600	-450	780	-460	H0
ATOM 11689	HD3	LYS D 139	-8.266	14.577	24.431	1.00	53.20		H0

ANISOU11689	HD3 LYS D 139	5270	8280	6660	-640	840	-520	H0
ATOM 11690	HE2 LYS D 139	-7.396	15.826	26.280	1.00	55.36		H0
ANISOU11690	HE2 LYS D 139	5300	8830	6900	-810	660	-610	H0
ATOM 11691	HE3 LYS D 139	-7.564	14.542	27.184	1.00	55.32		H0
ANISOU11691	HE3 LYS D 139	5290	8890	6840	-600	610	-540	H0
ATOM 11692	HZ1 LYS D 139	-6.041	13.468	25.854	1.00	57.22		H0
ANISOU11692	HZ1 LYS D 139	5360	9260	7130	-420	770	-440	H0
ATOM 11693	HZ2 LYS D 139	-5.425	14.692	26.407	1.00	58.26		H0
ANISOU11693	HZ2 LYS D 139	5330	9540	7260	-630	690	-510	H0
ATOM 11694	HZ3 LYS D 139	-5.887	14.666	25.003	1.00	57.21		H0
ANISOU11694	HZ3 LYS D 139	5360	9210	7170	-640	820	-500	H0
ATOM 11695	N ILE D 140	-13.512	15.762	22.933	1.00	44.13		N0
ANISOU11695	N ILE D 140	4870	6400	5490	-800	830	-580	N0
ATOM 11696	CA ILE D 140	-14.364	15.541	21.726	1.00	42.68		C0
ANISOU11696	CA ILE D 140	4840	6080	5290	-790	880	-560	C0
ATOM 11697	C ILE D 140	-13.544	15.834	20.464	1.00	42.49		C0
ANISOU11697	C ILE D 140	4800	6070	5280	-830	970	-540	C0
ATOM 11698	O ILE D 140	-12.990	16.940	20.353	1.00	42.68		O0
ANISOU11698	O ILE D 140	4760	6120	5340	-950	990	-560	O0
ATOM 11699	CB ILE D 140	-15.644	16.393	21.781	1.00	42.75		C0
ANISOU11699	CB ILE D 140	4960	5980	5300	-850	840	-580	C0
ATOM 11700	CG1 ILE D 140	-16.479	16.051	23.019	1.00	43.12		C0
ANISOU11700	CG1 ILE D 140	5020	6040	5320	-800	760	-580	C0
ATOM 11701	CG2 ILE D 140	-16.445	16.231	20.492	1.00	42.46		C0
ANISOU11701	CG2 ILE D 140	5050	5850	5240	-850	880	-550	C0
ATOM 11702	CD1 ILE D 140	-17.586	17.029	23.311	1.00	43.02		C0
ANISOU11702	CD1 ILE D 140	5070	5960	5310	-850	720	-610	C0
ATOM 11703	H ILE D 140	-13.157	16.601	22.973	1.00	44.49		H0
ANISOU11703	H ILE D 140	4880	6470	5560	-880	820	-610	H0
ATOM 11704	HA ILE D 140	-14.628	14.606	21.708	1.00	42.56		H0
ANISOU11704	HA ILE D 140	4860	6050	5260	-710	890	-540	H0
ATOM 11705	HB ILE D 140	-15.372	17.341	21.853	1.00	43.16		H0
ANISOU11705	HB ILE D 140	4990	6030	5380	-930	830	-600	H0
ATOM 11706	HG12 ILE D 140	-16.872	15.161	22.896	1.00	42.66		H0
ANISOU11706	HG12 ILE D 140	5000	5970	5250	-740	770	-550	H0
ATOM 11707	HG13 ILE D 140	-15.886	16.011	23.799	1.00	43.42		H0
ANISOU11707	HG13 ILE D 140	4970	6170	5360	-790	740	-600	H0
ATOM 11708	HG21 ILE D 140	-15.978	16.668	19.758	1.00	42.85		H0
ANISOU11708	HG21 ILE D 140	5100	5890	5290	-890	930	-540	H0
ATOM 11709	HG22 ILE D 140	-17.323	16.636	20.598	1.00	41.96		H0
ANISOU11709	HG22 ILE D 140	5040	5730	5170	-870	840	-550	H0
ATOM 11710	HG23 ILE D 140	-16.549	15.285	20.290	1.00	42.28		H0
ANISOU11710	HG23 ILE D 140	5050	5820	5190	-790	890	-530	H0
ATOM 11711	HD11 ILE D 140	-17.209	17.917	23.439	1.00	43.40		H0
ANISOU11711	HD11 ILE D 140	5100	6010	5380	-910	710	-650	H0
ATOM 11712	HD12 ILE D 140	-18.055	16.757	24.118	1.00	42.72		H0
ANISOU11712	HD12 ILE D 140	5030	5950	5250	-810	680	-620	H0
ATOM 11713	HD13 ILE D 140	-18.211	17.048	22.566	1.00	42.56		H0
ANISOU11713	HD13 ILE D 140	5090	5830	5250	-850	740	-590	H0
ATOM 11714	N GLY D 141	-13.496	14.868	19.547	1.00	41.65		N0
ANISOU11714	N GLY D 141	4740	5940	5140	-750	1040	-520	N0
ATOM 11715	CA GLY D 141	-12.922	15.022	18.198	1.00	42.14		C0
ANISOU11715	CA GLY D 141	4810	6010	5180	-780	1150	-510	C0
ATOM 11716	C GLY D 141	-13.521	14.021	17.229	1.00	41.27		C0

ANISOU11716	C	GLY D 141	4840	5830	5020	-690	1190	-510	C0
ATOM 11717	O	GLY D 141	-14.341	13.199	17.669	1.00	40.54		O0
ANISOU11717	O	GLY D 141	4830	5660	4910	-630	1140	-520	O0
ATOM 11718	H	GLY D 141	-13.820	14.032	19.713	1.00	41.55		H0
ANISOU11718	H	GLY D 141	4770	5900	5120	-670	1030	-520	H0
ATOM 11719	HA2	GLY D 141	-13.098	15.941	17.874	1.00	42.04		H0
ANISOU11719	HA2	GLY D 141	4830	5970	5180	-870	1150	-500	H0
ATOM 11720	HA3	GLY D 141	-11.942	14.891	18.245	1.00	42.90		H0
ANISOU11720	HA3	GLY D 141	4800	6200	5300	-750	1190	-500	H0
ATOM 11721	N	SER D 142	-13.125	14.087	15.957	1.00	41.76		N0
ANISOU11721	N	SER D 142	4930	5900	5030	-710	1290	-500	N0
ATOM 11722	CA	SER D 142	-13.626	13.214	14.863	1.00	42.41		C0
ANISOU11722	CA	SER D 142	5160	5920	5030	-640	1340	-520	C0
ATOM 11723	C	SER D 142	-13.173	11.771	15.103	1.00	42.89		C0
ANISOU11723	C	SER D 142	5210	5980	5100	-490	1370	-560	C0
ATOM 11724	O	SER D 142	-12.033	11.567	15.560	1.00	43.90		O0
ANISOU11724	O	SER D 142	5200	6210	5270	-420	1410	-540	O0
ATOM 11725	CB	SER D 142	-13.176	13.708	13.510	1.00	43.59		C0
ANISOU11725	CB	SER D 142	5330	6120	5110	-690	1440	-510	C0
ATOM 11726	OG	SER D 142	-13.389	12.711	12.522	1.00	44.65		O0
ANISOU11726	OG	SER D 142	5580	6230	5160	-610	1490	-550	O0
ATOM 11727	H	SER D 142	-12.506	14.687	15.663	1.00	42.55		H0
ANISOU11727	H	SER D 142	4970	6060	5140	-760	1330	-480	H0
ATOM 11728	HA	SER D 142	-14.621	13.234	14.888	1.00	41.59		H0
ANISOU11728	HA	SER D 142	5140	5740	4910	-670	1280	-530	H0
ATOM 11729	HB2	SER D 142	-13.679	14.520	13.273	1.00	43.32		H0
ANISOU11729	HB2	SER D 142	5330	6060	5070	-770	1410	-480	H0
ATOM 11730	HB3	SER D 142	-12.220	13.936	13.544	1.00	44.44		H0
ANISOU11730	HB3	SER D 142	5320	6320	5240	-690	1490	-490	H0
ATOM 11731	N	TRP D 143	-14.030	10.802	14.790	1.00	43.33		N0
ANISOU11731	N	TRP D 143	5420	5930	5120	-450	1360	-600	N0
ATOM 11732	CA	TRP D 143	-13.697	9.362	14.936	1.00	44.43		C0
ANISOU11732	CA	TRP D 143	5600	6010	5270	-300	1400	-630	C0
ATOM 11733	C	TRP D 143	-12.825	8.894	13.762	1.00	44.99		C0
ANISOU11733	C	TRP D 143	5690	6120	5280	-210	1530	-670	C0
ATOM 11734	O	TRP D 143	-11.924	8.078	14.011	1.00	46.93		O0
ANISOU11734	O	TRP D 143	5880	6390	5560	-70	1600	-680	O0
ATOM 11735	CB	TRP D 143	-14.963	8.514	15.081	1.00	44.94		C0
ANISOU11735	CB	TRP D 143	5830	5930	5330	-310	1330	-660	C0
ATOM 11736	CG	TRP D 143	-14.668	7.134	15.584	1.00	47.08		C0
ANISOU11736	CG	TRP D 143	6140	6110	5640	-180	1360	-670	C0
ATOM 11737	CD1	TRP D 143	-14.853	5.953	14.924	1.00	48.35		C0
ANISOU11737	CD1	TRP D 143	6460	6140	5770	-110	1410	-740	C0
ATOM 11738	CD2	TRP D 143	-14.088	6.798	16.856	1.00	47.48		C0
ANISOU11738	CD2	TRP D 143	6080	6190	5770	-80	1330	-600	C0
ATOM 11739	NE1	TRP D 143	-14.442	4.906	15.703	1.00	49.29		N0
ANISOU11739	NE1	TRP D 143	6580	6180	5960	30	1430	-710	N0
ATOM 11740	CE2	TRP D 143	-13.969	5.392	16.895	1.00	48.81		C0
ANISOU11740	CE2	TRP D 143	6350	6230	5960	60	1380	-620	C0
ATOM 11741	CE3	TRP D 143	-13.672	7.545	17.964	1.00	47.09		C0
ANISOU11741	CE3	TRP D 143	5860	6270	5760	-90	1280	-540	C0
ATOM 11742	CZ2	TRP D 143	-13.447	4.723	18.002	1.00	49.97		C0
ANISOU11742	CZ2	TRP D 143	6440	6380	6170	190	1370	-550	C0
ATOM 11743	CZ3	TRP D 143	-13.155	6.883	19.056	1.00	48.35		C0

ANISOU11743	CZ3 TRP D 143	5950	6460	5970	30	1260	-480	C0
ATOM 11744	CH2 TRP D 143	-13.048	5.490	19.073	1.00	49.56		C0
ANISOU11744	CH2 TRP D 143	6200	6480	6140	180	1310	-470	C0
ATOM 11745	H TRP D 143	-14.867	10.957	14.467	1.00	42.75		H0
ANISOU11745	H TRP D 143	5430	5800	5010	-510	1320	-600	H0
ATOM 11746	HA TRP D 143	-13.176	9.263	15.766	1.00	44.48		H0
ANISOU11746	HA TRP D 143	5510	6060	5330	-250	1380	-600	H0
ATOM 11747	HB2 TRP D 143	-15.572	8.964	15.701	1.00	44.07		H0
ANISOU11747	HB2 TRP D 143	5690	5810	5240	-380	1250	-630	H0
ATOM 11748	HB3 TRP D 143	-15.404	8.456	14.209	1.00	45.18		H0
ANISOU11748	HB3 TRP D 143	5950	5920	5290	-350	1350	-700	H0
ATOM 11749	HD1 TRP D 143	-15.217	5.864	14.056	1.00	48.67		H0
ANISOU11749	HD1 TRP D 143	6600	6140	5750	-150	1430	-800	H0
ATOM 11750	HE1 TRP D 143	-14.481	4.062	15.476	1.00	50.16		H0
ANISOU11750	HE1 TRP D 143	6800	6190	6080	90	1460	-750	H0
ATOM 11751	HE3 TRP D 143	-13.740	8.486	17.960	1.00	46.56		H0
ANISOU11751	HE3 TRP D 143	5740	6270	5690	-180	1250	-540	H0
ATOM 11752	HZ2 TRP D 143	-13.376	3.786	18.017	1.00	50.75		H0
ANISOU11752	HZ2 TRP D 143	6620	6370	6290	290	1410	-550	H0
ATOM 11753	HZ3 TRP D 143	-12.870	7.378	19.807	1.00	47.88		H0
ANISOU11753	HZ3 TRP D 143	5770	6490	5930	20	1210	-440	H0
ATOM 11754	HH2 TRP D 143	-12.692	5.066	19.834	1.00	49.90		H0
ANISOU11754	HH2 TRP D 143	6190	6550	6220	270	1290	-420	H0
ATOM 11755	N THR D 144	-13.064	9.377	12.537	1.00	43.92		N0
ANISOU11755	N THR D 144	5630	6010	5050	-290	1580	-700	N0
ATOM 11756	CA THR D 144	-12.440	8.806	11.310	1.00	44.95		C0
ANISOU11756	CA THR D 144	5820	6170	5090	-200	1710	-760	C0
ATOM 11757	C THR D 144	-11.732	9.857	10.435	1.00	45.10		C0
ANISOU11757	C THR D 144	5750	6340	5040	-270	1800	-720	C0
ATOM 11758	O THR D 144	-11.277	9.462	9.338	1.00	46.61		O0
ANISOU11758	O THR D 144	5990	6580	5130	-200	1920	-770	O0
ATOM 11759	CB THR D 144	-13.479	8.047	10.476	1.00	44.86		C0
ANISOU11759	CB THR D 144	6030	6030	4980	-220	1690	-850	C0
ATOM 11760	OG1 THR D 144	-14.390	8.996	9.919	1.00	43.69		O0
ANISOU11760	OG1 THR D 144	5930	5910	4760	-370	1630	-820	O0
ATOM 11761	CG2 THR D 144	-14.209	6.996	11.282	1.00	44.41		C0
ANISOU11761	CG2 THR D 144	6070	5810	4990	-180	1610	-880	C0
ATOM 11762	H THR D 144	-13.632	10.067	12.362	1.00	43.41		H0
ANISOU11762	H THR D 144	5590	5940	4960	-390	1530	-680	H0
ATOM 11763	HA THR D 144	-11.763	8.158	11.600	1.00	45.68		H0
ANISOU11763	HA THR D 144	5870	6270	5220	-80	1760	-770	H0
ATOM 11764	HB THR D 144	-13.006	7.597	9.736	1.00	46.07		H0
ANISOU11764	HB THR D 144	6230	6210	5070	-150	1790	-900	H0
ATOM 11765	HG21 THR D 144	-13.565	6.458	11.777	1.00	44.95		H0
ANISOU11765	HG21 THR D 144	6090	5870	5120	-70	1650	-880	H0
ATOM 11766	HG22 THR D 144	-14.718	6.420	10.683	1.00	44.96		H0
ANISOU11766	HG22 THR D 144	6270	5800	5000	-190	1620	-960	H0
ATOM 11767	HG23 THR D 144	-14.818	7.428	11.908	1.00	43.27		H0
ANISOU11767	HG23 THR D 144	5900	5650	4890	-260	1520	-840	H0
ATOM 11768	N HIS D 145	-11.627	11.121	10.866	1.00	43.74		N0
ANISOU11768	N HIS D 145	5460	6240	4920	-390	1750	-630	N0
ATOM 11769	CA HIS D 145	-11.019	12.222	10.065	1.00	44.19		C0
ANISOU11769	CA HIS D 145	5450	6420	4930	-480	1840	-570	C0
ATOM 11770	C HIS D 145	-9.835	12.855	10.807	1.00	44.23		C0

ANISOU11770	C	HIS D 145	5220	6550	5030	-510	1870	-510	C0
ATOM 11771	O	HIS D 145	-10.040	13.456	11.873	1.00	43.04		O0
ANISOU11771	O	HIS D 145	5010	6370	4980	-590	1760	-480	O0
ATOM 11772	CB	HIS D 145	-12.065	13.281	9.693	1.00	43.30		C0
ANISOU11772	CB	HIS D 145	5430	6250	4770	-630	1760	-520	C0
ATOM 11773	CG	HIS D 145	-13.142	12.776	8.795	1.00	43.23		C0
ANISOU11773	CG	HIS D 145	5610	6170	4640	-620	1730	-570	C0
ATOM 11774	ND1	HIS D 145	-12.915	12.472	7.473	1.00	44.29		N0
ANISOU11774	ND1	HIS D 145	5830	6370	4630	-590	1840	-600	N0
ATOM 11775	CD2	HIS D 145	-14.451	12.532	9.020	1.00	42.33		C0
ANISOU11775	CD2	HIS D 145	5620	5940	4520	-650	1610	-600	C0
ATOM 11776	CE1	HIS D 145	-14.037	12.059	6.922	1.00	44.39		C0
ANISOU11776	CE1	HIS D 145	6000	6310	4550	-600	1770	-660	C0
ATOM 11777	NE2	HIS D 145	-14.995	12.090	7.849	1.00	42.71		N0
ANISOU11777	NE2	HIS D 145	5810	6000	4420	-640	1630	-650	N0
ATOM 11778	H	HIS D 145	-11.913	11.401	11.684	1.00	42.91		H0
ANISOU11778	H	HIS D 145	5320	6100	4880	-430	1670	-610	H0
ATOM 11779	HA	HIS D 145	-10.675	11.830	9.228	1.00	45.26		H0
ANISOU11779	HA	HIS D 145	5620	6600	4980	-420	1930	-600	H0
ATOM 11780	HB2	HIS D 145	-12.473	13.628	10.516	1.00	42.30		H0
ANISOU11780	HB2	HIS D 145	5280	6070	4720	-670	1670	-500	H0
ATOM 11781	HB3	HIS D 145	-11.610	14.031	9.249	1.00	43.95		H0
ANISOU11781	HB3	HIS D 145	5460	6400	4840	-690	1820	-460	H0
ATOM 11782	HD2	HIS D 145	-14.908	12.649	9.831	1.00	41.21		H0
ANISOU11782	HD2	HIS D 145	5460	5750	4450	-670	1530	-590	H0
ATOM 11783	HE1	HIS D 145	-14.144	11.790	6.027	1.00	45.23		H0
ANISOU11783	HE1	HIS D 145	6200	6450	4540	-590	1810	-690	H0
ATOM 11784	N	HIS D 146	-8.640	12.754	10.227	1.00	45.84		N0
ANISOU11784	N	HIS D 146	5310	6900	5200	-450	2010	-500	N0
ATOM 11785	CA	HIS D 146	-7.403	13.429	10.699	1.00	46.82		C0
ANISOU11785	CA	HIS D 146	5190	7190	5400	-510	2050	-440	C0
ATOM 11786	C	HIS D 146	-7.449	14.932	10.346	1.00	46.82		C0
ANISOU11786	C	HIS D 146	5170	7210	5410	-720	2050	-350	C0
ATOM 11787	O	HIS D 146	-8.387	15.382	9.587	1.00	46.31		O0
ANISOU11787	O	HIS D 146	5280	7040	5270	-800	2040	-330	O0
ATOM 11788	CB	HIS D 146	-6.158	12.738	10.119	1.00	49.16		C0
ANISOU11788	CB	HIS D 146	5360	7660	5660	-360	2220	-450	C0
ATOM 11789	CG	HIS D 146	-6.156	12.632	8.631	1.00	50.11		C0
ANISOU11789	CG	HIS D 146	5590	7820	5630	-340	2350	-460	C0
ATOM 11790	ND1	HIS D 146	-6.057	13.735	7.808	1.00	50.65		N0
ANISOU11790	ND1	HIS D 146	5650	7950	5640	-500	2420	-380	N0
ATOM 11791	CD2	HIS D 146	-6.243	11.557	7.817	1.00	51.15		C0
ANISOU11791	CD2	HIS D 146	5850	7930	5660	-180	2440	-540	C0
ATOM 11792	CE1	HIS D 146	-6.077	13.344	6.550	1.00	52.06		C0
ANISOU11792	CE1	HIS D 146	5940	8170	5670	-430	2540	-410	C0
ATOM 11793	NE2	HIS D 146	-6.194	12.011	6.528	1.00	52.33		N0
ANISOU11793	NE2	HIS D 146	6060	8150	5670	-240	2550	-520	N0
ATOM 11794	H	HIS D 146	-8.498	12.246	9.486	1.00	46.70		H0
ANISOU11794	H	HIS D 146	5470	7040	5240	-380	2090	-530	H0
ATOM 11795	HA	HIS D 146	-7.372	13.346	11.685	1.00	46.27		H0
ANISOU11795	HA	HIS D 146	5050	7110	5420	-500	1970	-440	H0
ATOM 11796	HB2	HIS D 146	-5.359	13.236	10.399	1.00	49.84		H0
ANISOU11796	HB2	HIS D 146	5270	7870	5790	-420	2240	-400	H0
ATOM 11797	HB3	HIS D 146	-6.092	11.834	10.501	1.00	49.09		H0

ANISOU11797	HB3 HIS D 146	5360	7630	5670	-220	2210	-490	H0
ATOM 11798	HD2 HIS D 146	-6.322	10.660	8.085	1.00	51.13		H0
ANISOU11798	HD2 HIS D 146	5890	7860	5670	-40	2430	-600	H0
ATOM 11799	HE1 HIS D 146	-6.026	13.907	5.797	1.00	52.74		H0
ANISOU11799	HE1 HIS D 146	6050	8320	5680	-510	2600	-350	H0
ATOM 11800	N SER D 147	-6.448	15.670	10.865	1.00	48.18		N0
ANISOU11800	N SER D 147	5130	7510	5670	-830	2070	-300	N0
ATOM 11801	CA SER D 147	-6.389	17.156	10.938	1.00	49.20		C0
ANISOU11801	CA SER D 147	5220	7620	5850	-1050	2050	-230	C0
ATOM 11802	C SER D 147	-6.478	17.818	9.554	1.00	50.99		C0
ANISOU11802	C SER D 147	5550	7850	5980	-1140	2160	-150	C0
ATOM 11803	O SER D 147	-6.738	19.035	9.526	1.00	51.39		O0
ANISOU11803	O SER D 147	5640	7820	6070	-1320	2140	-80	O0
ATOM 11804	CB SER D 147	-5.137	17.597	11.643	1.00	50.21		C0
ANISOU11804	CB SER D 147	5090	7910	6070	-1140	2070	-200	C0
ATOM 11805	OG SER D 147	-3.986	17.092	10.982	1.00	51.87		O0
ANISOU11805	OG SER D 147	5140	8330	6240	-1060	2220	-180	O0
ATOM 11806	H SER D 147	-5.695	15.291	11.230	1.00	49.00		H0
ANISOU11806	H SER D 147	5100	7720	5800	-760	2100	-310	H0
ATOM 11807	HA SER D 147	-7.168	17.462	11.474	1.00	47.88		H0
ANISOU11807	HA SER D 147	5140	7330	5720	-1100	1940	-240	H0
ATOM 11808	HB2 SER D 147	-5.101	18.581	11.661	1.00	50.57		H0
ANISOU11808	HB2 SER D 147	5120	7930	6160	-1310	2060	-160	H0
ATOM 11809	HB3 SER D 147	-5.153	17.273	12.571	1.00	49.62		H0
ANISOU11809	HB3 SER D 147	4960	7840	6050	-1090	1980	-250	H0
ATOM 11810	N ARG D 148	-6.244	17.085	8.460	1.00	52.57		N0
ANISOU11810	N ARG D 148	5790	8140	6050	-1020	2290	-160	N0
ATOM 11811	CA ARG D 148	-6.303	17.638	7.077	1.00	55.17		C0
ANISOU11811	CA ARG D 148	6210	8500	6250	-1090	2410	-70	C0
ATOM 11812	C ARG D 148	-7.715	17.490	6.489	1.00	53.38		C0
ANISOU11812	C ARG D 148	6240	8120	5920	-1060	2330	-90	C0
ATOM 11813	O ARG D 148	-7.972	18.105	5.438	1.00	53.81		O0
ANISOU11813	O ARG D 148	6400	8180	5870	-1130	2400	-10	O0
ATOM 11814	CB ARG D 148	-5.255	16.979	6.171	1.00	58.52		C0
ANISOU11814	CB ARG D 148	6530	9130	6570	-990	2600	-80	C0
ATOM 11815	CG ARG D 148	-3.809	17.233	6.576	1.00	61.66		C0
ANISOU11815	CG ARG D 148	6640	9730	7060	-1040	2690	-30	C0
ATOM 11816	CD ARG D 148	-3.497	18.689	6.902	1.00	63.87		C0
ANISOU11816	CD ARG D 148	6820	10000	7440	-1300	2660	80	C0
ATOM 11817	NE ARG D 148	-3.887	19.613	5.840	1.00	65.91		N0
ANISOU11817	NE ARG D 148	7220	10210	7610	-1440	2730	190	N0
ATOM 11818	CZ ARG D 148	-4.074	20.929	5.979	1.00	66.66		C0
ANISOU11818	CZ ARG D 148	7350	10190	7790	-1660	2690	290	C0
ATOM 11819	NH1 ARG D 148	-4.425	21.653	4.929	1.00	68.16		N0
ANISOU11819	NH1 ARG D 148	7680	10340	7880	-1750	2770	420	N0
ATOM 11820	NH2 ARG D 148	-3.921	21.521	7.153	1.00	66.34		N0
ANISOU11820	NH2 ARG D 148	7210	10080	7920	-1790	2580	270	N0
ATOM 11821	H ARG D 148	-6.014	16.207	8.493	1.00	52.89		H0
ANISOU11821	H ARG D 148	5800	8220	6070	-890	2320	-210	H0
ATOM 11822	HA ARG D 148	-6.101	18.599	7.130	1.00	55.50		H0
ANISOU11822	HA ARG D 148	6210	8540	6340	-1240	2410	0	H0
ATOM 11823	HB2 ARG D 148	-5.413	16.014	6.168	1.00	58.20		H0
ANISOU11823	HB2 ARG D 148	6540	9080	6490	-830	2590	-160	H0
ATOM 11824	HB3 ARG D 148	-5.387	17.306	5.256	1.00	59.29		H0

ANISOU11824 HB3 ARG D 148	6710	9260	6570	-1030	2670	-20	H0
ATOM 11825 HG2 ARG D 148	-3.598	16.685	7.362	1.00	61.23		H0
ANISOU11825 HG2 ARG D 148	6500	9690	7070	-950	2630	-90	H0
ATOM 11826 HG3 ARG D 148	-3.219	16.944	5.847	1.00	63.19		H0
ANISOU11826 HG3 ARG D 148	6780	10070	7170	-980	2820	-20	H0
ATOM 11827 HD2 ARG D 148	-3.959	18.935	7.731	1.00	62.46		H0
ANISOU11827 HD2 ARG D 148	6670	9700	7350	-1350	2540	50	H0
ATOM 11828 HD3 ARG D 148	-2.533	18.778	7.063	1.00	65.13		H0
ANISOU11828 HD3 ARG D 148	6780	10320	7650	-1340	2730	100	H0
ATOM 11829 HE ARG D 148	-4.001	19.279	5.042	1.00	66.25		H0
ANISOU11829 HE ARG D 148	7340	10290	7540	-1360	2810	200	H0
ATOM 11830 HH11 ARG D 148	-4.531	21.269	4.146	1.00	68.34		H0
ANISOU11830 HH11 ARG D 148	7760	10420	7780	-1660	2840	430	H0
ATOM 11831 HH12 ARG D 148	-4.552	22.519	5.016	1.00	68.16		H0
ANISOU11831 HH12 ARG D 148	7710	10250	7940	-1890	2750	490	H0
ATOM 11832 HH21 ARG D 148	-3.687	21.053	7.860	1.00	65.75		H0
ANISOU11832 HH21 ARG D 148	7040	10040	7890	-1730	2530	200	H0
ATOM 11833 HH22 ARG D 148	-4.051	22.390	7.225	1.00	66.53		H0
ANISOU11833 HH22 ARG D 148	7270	10010	7990	-1930	2560	330	H0
ATOM 11834 N GLU D 149	-8.600	16.732	7.142	1.00	51.59		N0
ANISOU11834 N GLU D 149	6110	7770	5720	-960	2210	-190	N0
ATOM 11835 CA GLU D 149	-10.007	16.529	6.701	1.00	50.60		C0
ANISOU11835 CA GLU D 149	6210	7510	5510	-940	2110	-220	C0
ATOM 11836 C GLU D 149	-10.966	17.269	7.644	1.00	48.61		C0
ANISOU11836 C GLU D 149	6000	7100	5360	-1020	1960	-190	C0
ATOM 11837 O GLU D 149	-11.899	17.919	7.140	1.00	47.97		O0
ANISOU11837 O GLU D 149	6050	6950	5230	-1080	1910	-130	O0
ATOM 11838 CB GLU D 149	-10.303	15.033	6.624	1.00	50.48		C0
ANISOU11838 CB GLU D 149	6270	7480	5430	-770	2110	-350	C0
ATOM 11839 CG GLU D 149	-9.463	14.328	5.582	1.00	52.62		C0
ANISOU11839 CG GLU D 149	6530	7890	5570	-660	2270	-390	C0
ATOM 11840 CD GLU D 149	-9.694	12.832	5.494	1.00	53.23		C0
ANISOU11840 CD GLU D 149	6710	7920	5600	-490	2280	-530	C0
ATOM 11841 OE1 GLU D 149	-10.516	12.306	6.285	1.00	51.89		O0
ANISOU11841 OE1 GLU D 149	6620	7600	5500	-470	2150	-590	O0
ATOM 11842 OE2 GLU D 149	-9.049	12.192	4.636	1.00	55.09		O0
ANISOU11842 OE2 GLU D 149	6960	8250	5720	-380	2420	-590	O0
ATOM 11843 H GLU D 149	-8.389	16.275	7.899	1.00	51.15		H0
ANISOU11843 H GLU D 149	5990	7710	5740	-910	2170	-240	H0
ATOM 11844 HA GLU D 149	-10.106	16.911	5.799	1.00	51.36		H0
ANISOU11844 HA GLU D 149	6370	7640	5500	-970	2170	-160	H0
ATOM 11845 HB2 GLU D 149	-10.130	14.633	7.502	1.00	49.88		H0
ANISOU11845 HB2 GLU D 149	6130	7370	5450	-720	2060	-390	H0
ATOM 11846 HB3 GLU D 149	-11.251	14.908	6.414	1.00	49.82		H0
ANISOU11846 HB3 GLU D 149	6320	7310	5290	-770	2030	-370	H0
ATOM 11847 HG2 GLU D 149	-9.652	14.721	4.703	1.00	53.37		H0
ANISOU11847 HG2 GLU D 149	6700	8020	5560	-710	2320	-350	H0
ATOM 11848 HG3 GLU D 149	-8.516	14.483	5.777	1.00	53.48		H0
ANISOU11848 HG3 GLU D 149	6500	8100	5730	-660	2350	-360	H0
ATOM 11849 N ILE D 150	-10.756	17.166	8.958	1.00	47.64		N0
ANISOU11849 N ILE D 150	5770	6950	5380	-1020	1880	-240	N0
ATOM 11850 CA ILE D 150	-11.525	17.936	9.980	1.00	46.68		C0
ANISOU11850 CA ILE D 150	5680	6700	5370	-1100	1740	-220	C0
ATOM 11851 C ILE D 150	-10.534	18.579	10.950	1.00	47.42		C0

ANISOU11851	C	ILE D 150	5590	6840	5590	-1190	1740	-210	C0
ATOM 11852	O	ILE D 150	-9.656	17.859	11.468	1.00	47.50		O0
ANISOU11852	O	ILE D 150	5460	6950	5640	-1120	1770	-260	O0
ATOM 11853	CB	ILE D 150	-12.551	17.040	10.706	1.00	45.46		C0
ANISOU11853	CB	ILE D 150	5600	6450	5220	-1000	1620	-310	C0
ATOM 11854	CG1	ILE D 150	-13.584	16.483	9.724	1.00	45.06		C0
ANISOU11854	CG1	ILE D 150	5720	6360	5040	-950	1610	-320	C0
ATOM 11855	CG2	ILE D 150	-13.210	17.783	11.865	1.00	44.60		C0
ANISOU11855	CG2	ILE D 150	5490	6240	5220	-1060	1500	-300	C0
ATOM 11856	CD1	ILE D 150	-14.666	15.651	10.361	1.00	43.89		C0
ANISOU11856	CD1	ILE D 150	5650	6120	4910	-890	1490	-400	C0
ATOM 11857	H	ILE D 150	-10.133	16.606	9.317	1.00	48.00		H0
ANISOU11857	H	ILE D 150	5730	7050	5460	-960	1910	-280	H0
ATOM 11858	HA	ILE D 150	-12.012	18.645	9.526	1.00	46.83		H0
ANISOU11858	HA	ILE D 150	5780	6660	5360	-1160	1730	-170	H0
ATOM 11859	HB	ILE D 150	-12.057	16.271	11.085	1.00	45.47		H0
ANISOU11859	HB	ILE D 150	5530	6500	5250	-930	1640	-350	H0
ATOM 11860	HG12	ILE D 150	-14.003	17.233	9.250	1.00	45.30		H0
ANISOU11860	HG12	ILE D 150	5810	6370	5040	-1010	1600	-260	H0
ATOM 11861	HG13	ILE D 150	-13.118	15.931	9.060	1.00	45.99		H0
ANISOU11861	HG13	ILE D 150	5840	6540	5090	-900	1690	-350	H0
ATOM 11862	HG21	ILE D 150	-12.532	18.063	12.504	1.00	44.76		H0
ANISOU11862	HG21	ILE D 150	5400	6300	5310	-1100	1500	-310	H0
ATOM 11863	HG22	ILE D 150	-13.845	17.197	12.311	1.00	43.62		H0
ANISOU11863	HG22	ILE D 150	5400	6070	5100	-1010	1430	-350	H0
ATOM 11864	HG23	ILE D 150	-13.676	18.567	11.527	1.00	44.56		H0
ANISOU11864	HG23	ILE D 150	5550	6180	5200	-1130	1480	-250	H0
ATOM 11865	HD11	ILE D 150	-14.275	15.065	11.032	1.00	43.63		H0
ANISOU11865	HD11	ILE D 150	5550	6100	4930	-830	1490	-440	H0
ATOM 11866	HD12	ILE D 150	-15.106	15.113	9.680	1.00	44.05		H0
ANISOU11866	HD12	ILE D 150	5760	6140	4840	-850	1500	-420	H0
ATOM 11867	HD13	ILE D 150	-15.321	16.234	10.783	1.00	43.14		H0
ANISOU11867	HD13	ILE D 150	5570	5970	4850	-930	1420	-370	H0
ATOM 11868	N	SER D 151	-10.664	19.892	11.150	1.00	48.61		N0
ANISOU11868	N	SER D 151	5750	6910	5810	-1340	1710	-150	N0
ATOM 11869	CA	SER D 151	-10.083	20.636	12.294	1.00	49.71		C0
ANISOU11869	CA	SER D 151	5770	7040	6080	-1450	1660	-170	C0
ATOM 11870	C	SER D 151	-11.217	20.970	13.262	1.00	48.88		C0
ANISOU11870	C	SER D 151	5760	6780	6030	-1450	1520	-220	C0
ATOM 11871	O	SER D 151	-12.354	21.207	12.794	1.00	48.37		O0
ANISOU11871	O	SER D 151	5860	6600	5920	-1420	1490	-180	O0
ATOM 11872	CB	SER D 151	-9.337	21.867	11.851	1.00	51.86		C0
ANISOU11872	CB	SER D 151	5990	7320	6400	-1640	1740	-80	C0
ATOM 11873	OG	SER D 151	-10.177	22.731	11.108	1.00	52.91		O0
ANISOU11873	OG	SER D 151	6300	7300	6500	-1690	1750	0	O0
ATOM 11874	H	SER D 151	-11.125	20.438	10.584	1.00	48.74		H0
ANISOU11874	H	SER D 151	5870	6860	5790	-1380	1720	-100	H0
ATOM 11875	HA	SER D 151	-9.447	20.033	12.759	1.00	49.88		H0
ANISOU11875	HA	SER D 151	5670	7160	6120	-1400	1670	-210	H0
ATOM 11876	HB2	SER D 151	-8.995	22.344	12.639	1.00	52.24		H0
ANISOU11876	HB2	SER D 151	5960	7360	6530	-1720	1700	-110	H0
ATOM 11877	HB3	SER D 151	-8.571	21.601	11.297	1.00	53.04		H0
ANISOU11877	HB3	SER D 151	6050	7590	6510	-1640	1840	-50	H0
ATOM 11878	N	VAL D 152	-10.933	20.922	14.562	1.00	49.31		N0

ANISOU11878 N VAL D 152	5710	6860	6160	-1460	1440	-290	N0
ATOM 11879 CA VAL D 152	-11.908	21.267	15.637	1.00	48.47		C0
ANISOU11879 CA VAL D 152	5680	6630	6100	-1450	1320	-350	C0
ATOM 11880 C VAL D 152	-11.265	22.344	16.511	1.00	49.74		C0
ANISOU11880 C VAL D 152	5750	6780	6360	-1610	1280	-380	C0
ATOM 11881 O VAL D 152	-10.117	22.142	16.940	1.00	50.29		O0
ANISOU11881 O VAL D 152	5640	7000	6460	-1650	1300	-410	O0
ATOM 11882 CB VAL D 152	-12.359	20.038	16.454	1.00	47.40		C0
ANISOU11882 CB VAL D 152	5520	6540	5940	-1300	1240	-410	C0
ATOM 11883 CG1 VAL D 152	-13.225	19.103	15.624	1.00	46.63		C0
ANISOU11883 CG1 VAL D 152	5550	6410	5760	-1180	1260	-390	C0
ATOM 11884 CG2 VAL D 152	-11.193	19.279	17.067	1.00	48.43		C0
ANISOU11884 CG2 VAL D 152	5470	6840	6090	-1260	1250	-450	C0
ATOM 11885 H VAL D 152	-10.111	20.686	14.877	1.00	49.79		H0
ANISOU11885 H VAL D 152	5640	7030	6250	-1470	1460	-310	H0
ATOM 11886 HA VAL D 152	-12.694	21.650	15.216	1.00	48.18		H0
ANISOU11886 HA VAL D 152	5760	6500	6050	-1450	1310	-310	H0
ATOM 11887 HB VAL D 152	-12.916	20.374	17.198	1.00	46.91		H0
ANISOU11887 HB VAL D 152	5490	6420	5910	-1310	1170	-450	H0
ATOM 11888 HG11 VAL D 152	-14.009	19.584	15.306	1.00	46.29		H0
ANISOU11888 HG11 VAL D 152	5610	6280	5700	-1200	1240	-370	H0
ATOM 11889 HG12 VAL D 152	-13.507	18.350	16.172	1.00	45.92		H0
ANISOU11889 HG12 VAL D 152	5450	6340	5660	-1100	1210	-430	H0
ATOM 11890 HG13 VAL D 152	-12.715	18.777	14.863	1.00	47.22		H0
ANISOU11890 HG13 VAL D 152	5600	6540	5790	-1170	1330	-370	H0
ATOM 11891 HG21 VAL D 152	-10.549	19.054	16.374	1.00	49.04		H0
ANISOU11891 HG21 VAL D 152	5500	6990	6150	-1250	1330	-410	H0
ATOM 11892 HG22 VAL D 152	-11.521	18.461	17.479	1.00	47.56		H0
ANISOU11892 HG22 VAL D 152	5370	6740	5960	-1160	1220	-470	H0
ATOM 11893 HG23 VAL D 152	-10.763	19.830	17.743	1.00	48.79		H0
ANISOU11893 HG23 VAL D 152	5440	6920	6190	-1340	1220	-470	H0
ATOM 11894 N ASP D 153	-11.973	23.457	16.709	1.00	50.69		N0
ANISOU11894 N ASP D 153	6000	6730	6530	-1680	1240	-380	N0
ATOM 11895 CA ASP D 153	-11.504	24.630	17.490	1.00	52.58		C0
ANISOU11895 CA ASP D 153	6200	6910	6870	-1850	1210	-430	C0
ATOM 11896 C ASP D 153	-12.594	25.019	18.479	1.00	51.84		C0
ANISOU11896 C ASP D 153	6220	6680	6800	-1800	1100	-510	C0
ATOM 11897 O ASP D 153	-13.779	24.991	18.146	1.00	50.39		O0
ANISOU11897 O ASP D 153	6180	6390	6580	-1690	1090	-480	O0
ATOM 11898 CB ASP D 153	-11.151	25.807	16.580	1.00	55.28		C0
ANISOU11898 CB ASP D 153	6610	7130	7260	-2010	1300	-340	C0
ATOM 11899 CG ASP D 153	-10.077	25.477	15.558	1.00	57.02		C0
ANISOU11899 CG ASP D 153	6720	7500	7440	-2060	1420	-260	C0
ATOM 11900 OD1 ASP D 153	-10.433	24.946	14.489	1.00	57.64		O0
ANISOU11900 OD1 ASP D 153	6860	7600	7430	-1960	1480	-170	O0
ATOM 11901 OD2 ASP D 153	-8.892	25.731	15.851	1.00	59.27		O0
ANISOU11901 OD2 ASP D 153	6840	7900	7780	-2210	1440	-280	O0
ATOM 11902 H ASP D 153	-12.810	23.566	16.366	1.00	50.06		H0
ANISOU11902 H ASP D 153	6030	6560	6430	-1630	1230	-350	H0
ATOM 11903 HA ASP D 153	-10.697	24.368	17.989	1.00	53.14		H0
ANISOU11903 HA ASP D 153	6140	7100	6960	-1890	1200	-480	H0
ATOM 11904 HB2 ASP D 153	-11.955	26.095	16.101	1.00	54.83		H0
ANISOU11904 HB2 ASP D 153	6690	6960	7180	-1960	1300	-290	H0
ATOM 11905 HB3 ASP D 153	-10.837	26.554	17.129	1.00	56.13		H0

ANISOU11905	HB3 ASP D 153	6710	7180	7440	-2130	1270	-390	H0
ATOM 11906	N PRO D 154	-12.225	25.369	19.730	1.00	52.26		N0
ANISOU11906	N PRO D 154	6200	6760	6900	-1870	1030	-630	N0
ATOM 11907	CA PRO D 154	-13.195	25.881	20.691	1.00	51.51		C0
ANISOU11907	CA PRO D 154	6210	6540	6810	-1830	950	-710	C0
ATOM 11908	C PRO D 154	-13.591	27.318	20.330	1.00	52.30		C0
ANISOU11908	C PRO D 154	6480	6400	6990	-1930	970	-700	C0
ATOM 11909	O PRO D 154	-12.735	28.092	19.981	1.00	53.75		O0
ANISOU11909	O PRO D 154	6640	6540	7240	-2100	1020	-680	O0
ATOM 11910	CB PRO D 154	-12.446	25.808	22.028	1.00	52.55		C0
ANISOU11910	CB PRO D 154	6200	6810	6950	-1900	870	-840	C0
ATOM 11911	CG PRO D 154	-10.988	25.955	21.643	1.00	54.24		C0
ANISOU11911	CG PRO D 154	6260	7140	7210	-2060	920	-820	C0
ATOM 11912	CD PRO D 154	-10.864	25.300	20.282	1.00	53.58		C0
ANISOU11912	CD PRO D 154	6170	7100	7090	-1990	1020	-680	C0
ATOM 11913	HA PRO D 154	-13.988	25.292	20.717	1.00	50.34		H0
ANISOU11913	HA PRO D 154	6110	6400	6620	-1700	920	-700	H0
ATOM 11914	HB2 PRO D 154	-12.725	26.533	22.628	1.00	53.03		H0
ANISOU11914	HB2 PRO D 154	6330	6780	7040	-1950	830	-920	H0
ATOM 11915	HB3 PRO D 154	-12.605	24.949	22.472	1.00	51.55		H0
ANISOU11915	HB3 PRO D 154	6020	6790	6770	-1790	830	-850	H0
ATOM 11916	HG2 PRO D 154	-10.736	26.900	21.595	1.00	55.44		H0
ANISOU11916	HG2 PRO D 154	6450	7190	7420	-2200	930	-840	H0
ATOM 11917	HG3 PRO D 154	-10.411	25.508	22.295	1.00	54.39		H0
ANISOU11917	HG3 PRO D 154	6140	7310	7210	-2060	880	-870	H0
ATOM 11918	HD2 PRO D 154	-10.233	25.785	19.718	1.00	54.77		H0
ANISOU11918	HD2 PRO D 154	6290	7240	7280	-2110	1080	-640	H0
ATOM 11919	HD3 PRO D 154	-10.569	24.375	20.364	1.00	53.06		H0
ANISOU11919	HD3 PRO D 154	6010	7170	6980	-1900	1020	-670	H0
ATOM 11920	N THR D 155	-14.888	27.606	20.370	1.00	52.06		N0
ANISOU11920	N THR D 155	6600	6230	6950	-1810	950	-690	N0
ATOM 11921	CA THR D 155	-15.454	28.977	20.378	1.00	54.16		C0
ANISOU11921	CA THR D 155	7040	6250	7290	-1850	960	-700	C0
ATOM 11922	C THR D 155	-16.194	29.151	21.709	1.00	53.47		C0
ANISOU11922	C THR D 155	6990	6130	7190	-1770	870	-840	C0
ATOM 11923	O THR D 155	-16.691	28.142	22.236	1.00	51.56		O0
ANISOU11923	O THR D 155	6680	6040	6870	-1630	820	-870	O0
ATOM 11924	CB THR D 155	-16.325	29.221	19.138	1.00	54.38		C0
ANISOU11924	CB THR D 155	7210	6150	7300	-1750	1010	-540	C0
ATOM 11925	OG1 THR D 155	-16.433	30.634	18.970	1.00	57.68		O0
ANISOU11925	OG1 THR D 155	7780	6320	7810	-1840	1040	-520	O0
ATOM 11926	CG2 THR D 155	-17.706	28.610	19.236	1.00	53.13		C0
ANISOU11926	CG2 THR D 155	7090	6030	7070	-1540	960	-530	C0
ATOM 11927	H THR D 155	-15.535	26.965	20.395	1.00	50.96		H0
ANISOU11927	H THR D 155	6470	6140	6750	-1680	930	-680	H0
ATOM 11928	HA THR D 155	-14.704	29.613	20.357	1.00	55.38		H0
ANISOU11928	HA THR D 155	7190	6350	7510	-2000	980	-720	H0
ATOM 11929	HB THR D 155	-15.863	28.839	18.354	1.00	54.57		H0
ANISOU11929	HB THR D 155	7180	6250	7290	-1790	1060	-460	H0
ATOM 11930	HG21 THR D 155	-17.646	27.730	19.649	1.00	51.95		H0
ANISOU11930	HG21 THR D 155	6850	6020	6870	-1500	930	-570	H0
ATOM 11931	HG22 THR D 155	-18.087	28.522	18.343	1.00	52.85		H0
ANISOU11931	HG22 THR D 155	7100	5980	7000	-1490	990	-430	H0
ATOM 11932	HG23 THR D 155	-18.279	29.183	19.776	1.00	53.38		H0

ANISOU11932	HG23	THR D 155	7200	5960	7130	-1500	930	-580	H0
ATOM 11933	N	THR D 156	-16.228	30.365	22.253	1.00	55.22		N0
ANISOU11933	N	THR D 156	7320	6160	7490	-1850	870	-940	N0
ATOM 11934	CA	THR D 156	-16.939	30.681	23.521	1.00	56.19		C0
ANISOU11934	CA	THR D 156	7500	6240	7600	-1770	800	-1090	C0
ATOM 11935	C	THR D 156	-17.824	31.909	23.291	1.00	57.97		C0
ANISOU11935	C	THR D 156	7940	6180	7900	-1710	830	-1080	C0
ATOM 11936	O	THR D 156	-17.472	32.735	22.430	1.00	58.46		O0
ANISOU11936	O	THR D 156	8100	6060	8050	-1820	900	-990	O0
ATOM 11937	CB	THR D 156	-15.950	30.846	24.685	1.00	57.28		C0
ANISOU11937	CB	THR D 156	7550	6470	7750	-1920	740	-1270	C0
ATOM 11938	OG1	THR D 156	-15.047	31.918	24.411	1.00	58.92		O0
ANISOU11938	OG1	THR D 156	7800	6520	8060	-2150	780	-1290	O0
ATOM 11939	CG2	THR D 156	-15.142	29.594	24.949	1.00	56.38		C0
ANISOU11939	CG2	THR D 156	7210	6650	7560	-1940	700	-1260	C0
ATOM 11940	H	THR D 156	-15.814	31.091	21.890	1.00	56.69		H0
ANISOU11940	H	THR D 156	7560	6230	7750	-1960	900	-920	H0
ATOM 11941	HA	THR D 156	-17.528	29.920	23.730	1.00	54.73		H0
ANISOU11941	HA	THR D 156	7270	6170	7350	-1630	770	-1080	H0
ATOM 11942	HB	THR D 156	-16.465	31.066	25.498	1.00	57.41		H0
ANISOU11942	HB	THR D 156	7610	6460	7740	-1860	700	-1370	H0
ATOM 11943	HG21	THR D 156	-15.744	28.845	25.107	1.00	54.93		H0
ANISOU11943	HG21	THR D 156	7000	6560	7300	-1790	680	-1230	H0
ATOM 11944	HG22	THR D 156	-14.579	29.728	25.732	1.00	57.16		H0
ANISOU11944	HG22	THR D 156	7250	6820	7650	-2030	660	-1370	H0
ATOM 11945	HG23	THR D 156	-14.581	29.399	24.177	1.00	56.31		H0
ANISOU11945	HG23	THR D 156	7150	6680	7570	-2000	750	-1170	H0
ATOM 11946	N	GLU D 157	-18.954	31.990	23.997	1.00	59.09		N0
ANISOU11946	N	GLU D 157	8150	6290	8000	-1530	800	-1150	N0
ATOM 11947	CA	GLU D 157	-19.760	33.234	24.116	1.00	62.04		C0
ANISOU11947	CA	GLU D 157	8730	6400	8450	-1450	830	-1190	C0
ATOM 11948	C	GLU D 157	-19.273	33.963	25.373	1.00	63.22		C0
ANISOU11948	C	GLU D 157	8920	6470	8630	-1570	790	-1420	C0
ATOM 11949	O	GLU D 157	-18.863	33.281	26.333	1.00	62.11		O0
ANISOU11949	O	GLU D 157	8650	6550	8410	-1600	730	-1540	O0
ATOM 11950	CB	GLU D 157	-21.265	32.943	24.093	1.00	62.89		C0
ANISOU11950	CB	GLU D 157	8870	6530	8490	-1190	820	-1130	C0
ATOM 11951	CG	GLU D 157	-21.774	32.075	25.234	1.00	63.80		C0
ANISOU11951	CG	GLU D 157	8870	6870	8500	-1080	770	-1240	C0
ATOM 11952	CD	GLU D 157	-23.209	31.588	25.064	1.00	64.26		C0
ANISOU11952	CD	GLU D 157	8910	7010	8490	-840	770	-1140	C0
ATOM 11953	OE1	GLU D 157	-24.120	32.444	24.996	1.00	66.28		O0
ANISOU11953	OE1	GLU D 157	9290	7100	8780	-700	800	-1140	O0
ATOM 11954	OE2	GLU D 157	-23.415	30.353	24.987	1.00	63.64		O0
ANISOU11954	OE2	GLU D 157	8690	7160	8330	-800	740	-1080	O0
ATOM 11955	H	GLU D 157	-19.293	31.281	24.454	1.00	57.91		H0
ANISOU11955	H	GLU D 157	7930	6290	7780	-1440	770	-1170	H0
ATOM 11956	HA	GLU D 157	-19.551	33.801	23.339	1.00	62.92		H0
ANISOU11956	HA	GLU D 157	8920	6360	8630	-1510	880	-1100	H0
ATOM 11957	HB2	GLU D 157	-21.744	33.798	24.112	1.00	64.22		H0
ANISOU11957	HB2	GLU D 157	9170	6520	8710	-1130	850	-1140	H0
ATOM 11958	HB3	GLU D 157	-21.480	32.503	23.244	1.00	62.02		H0
ANISOU11958	HB3	GLU D 157	8730	6470	8360	-1140	840	-990	H0
ATOM 11959	HG2	GLU D 157	-21.192	31.292	25.325	1.00	62.61		H0

ANISOU11959	HG2	GLU D 157	8600	6890	8310	-1150	740	-1230	H0
ATOM 11960	HG3	GLU D 157	-21.718	32.584	26.070	1.00	64.67		H0
ANISOU11960	HG3	GLU D 157	9030	6930	8620	-1090	750	-1370	H0
ATOM 11961	N	ASN D 158	-19.276	35.297	25.338	1.00	65.69		N0
ANISOU11961	N	ASN D 158	9430	6470	9050	-1630	830	-1470	N0
ATOM 11962	CA	ASN D 158	-18.727	36.179	26.403	1.00	68.11		C0
ANISOU11962	CA	ASN D 158	9820	6650	9410	-1780	810	-1710	C0
ATOM 11963	C	ASN D 158	-19.500	35.969	27.715	1.00	68.72		C0
ANISOU11963	C	ASN D 158	9890	6840	9380	-1610	760	-1890	C0
ATOM 11964	O	ASN D 158	-18.908	36.195	28.792	1.00	70.33		O0
ANISOU11964	O	ASN D 158	10080	7090	9550	-1740	700	-2100	O0
ATOM 11965	CB	ASN D 158	-18.754	37.647	25.973	1.00	70.02		C0
ANISOU11965	CB	ASN D 158	10310	6490	9800	-1850	870	-1710	C0
ATOM 11966	CG	ASN D 158	-18.102	38.564	26.983	1.00	72.40		C0
ANISOU11966	CG	ASN D 158	10710	6640	10160	-2050	850	-1970	C0
ATOM 11967	OD1	ASN D 158	-17.102	38.204	27.598	1.00	72.22		O0
ANISOU11967	OD1	ASN D 158	10540	6810	10090	-2250	780	-2090	O0
ATOM 11968	ND2	ASN D 158	-18.663	39.748	27.164	1.00	74.80		N0
ANISOU11968	ND2	ASN D 158	11270	6600	10550	-1990	890	-2050	N0
ATOM 11969	H	ASN D 158	-19.629	35.760	24.636	1.00	66.22		H0
ANISOU11969	H	ASN D 158	9600	6380	9170	-1580	880	-1370	H0
ATOM 11970	HA	ASN D 158	-17.785	35.928	26.552	1.00	68.17		H0
ANISOU11970	HA	ASN D 158	9720	6770	9410	-1950	780	-1750	H0
ATOM 11971	HB2	ASN D 158	-18.290	37.734	25.116	1.00	70.31		H0
ANISOU11971	HB2	ASN D 158	10340	6480	9890	-1950	910	-1580	H0
ATOM 11972	HB3	ASN D 158	-19.685	37.922	25.844	1.00	70.22		H0
ANISOU11972	HB3	ASN D 158	10440	6410	9830	-1660	900	-1670	H0
ATOM 11973	HD21	ASN D 158	-18.550	40.179	27.928	1.00	76.19		H0
ANISOU11973	HD21	ASN D 158	11510	6710	10730	-2040	870	-2230	H0
ATOM 11974	HD22	ASN D 158	-19.149	40.112	26.521	1.00	75.11		H0
ANISOU11974	HD22	ASN D 158	11410	6470	10650	-1890	940	-1930	H0
ATOM 11975	N	SER D 159	-20.766	35.551	27.627	1.00	68.36		N0
ANISOU11975	N	SER D 159	9850	6850	9270	-1340	770	-1800	N0
ATOM 11976	CA	SER D 159	-21.689	35.350	28.777	1.00	69.67		C0
ANISOU11976	CA	SER D 159	10010	7130	9330	-1150	750	-1940	C0
ATOM 11977	C	SER D 159	-21.135	34.311	29.765	1.00	68.62		C0
ANISOU11977	C	SER D 159	9680	7330	9060	-1210	670	-2040	C0
ATOM 11978	O	SER D 159	-20.229	33.540	29.387	1.00	66.18		O0
ANISOU11978	O	SER D 159	9220	7180	8740	-1360	640	-1960	O0
ATOM 11979	CB	SER D 159	-23.067	34.982	28.297	1.00	68.81		C0
ANISOU11979	CB	SER D 159	9900	7060	9180	-880	780	-1790	C0
ATOM 11980	OG	SER D 159	-23.722	36.120	27.753	1.00	71.56		O0
ANISOU11980	OG	SER D 159	10450	7110	9640	-760	850	-1740	O0
ATOM 11981	H	SER D 159	-21.172	35.374	26.832	1.00	67.66		H0
ANISOU11981	H	SER D 159	9770	6750	9200	-1260	800	-1650	H0
ATOM 11982	HA	SER D 159	-21.756	36.217	29.260	1.00	71.37		H0
ANISOU11982	HA	SER D 159	10360	7170	9580	-1150	760	-2080	H0
ATOM 11983	HB2	SER D 159	-23.001	34.279	27.612	1.00	67.39		H0
ANISOU11983	HB2	SER D 159	9620	7000	8990	-880	780	-1640	H0
ATOM 11984	HB3	SER D 159	-23.593	34.629	29.050	1.00	68.56		H0
ANISOU11984	HB3	SER D 159	9810	7170	9060	-760	760	-1860	H0
ATOM 11985	N	ASP D 160	-21.674	34.320	30.991	1.00	70.39		N0
ANISOU11985	N	ASP D 160	9910	7650	9180	-1100	640	-2210	N0
ATOM 11986	CA	ASP D 160	-21.225	33.509	32.157	1.00	70.70		C0

ANISOU11986	CA	ASP D 160	9800	7990	9070	-1150	570	-2320	C0
ATOM 11987	C	ASP D 160	-21.404	32.020	31.836	1.00	68.88		C0
ANISOU11987	C	ASP D 160	9370	8030	8760	-1070	550	-2130	C0
ATOM 11988	O	ASP D 160	-22.402	31.674	31.171	1.00	68.84		O0
ANISOU11988	O	ASP D 160	9370	8020	8770	-900	590	-1980	O0
ATOM 11989	CB	ASP D 160	-21.981	33.922	33.426	1.00	72.38		C0
ANISOU11989	CB	ASP D 160	10090	8230	9180	-1000	570	-2520	C0
ATOM 11990	CG	ASP D 160	-21.522	33.217	34.691	1.00	72.55		C0
ANISOU11990	CG	ASP D 160	9970	8560	9030	-1050	490	-2650	C0
ATOM 11991	OD1	ASP D 160	-21.708	31.987	34.774	1.00	70.93		O0
ANISOU11991	OD1	ASP D 160	9600	8620	8730	-970	470	-2510	O0
ATOM 11992	OD2	ASP D 160	-20.983	33.904	35.588	1.00	75.32		O0
ANISOU11992	OD2	ASP D 160	10390	8880	9340	-1160	450	-2880	O0
ATOM 11993	H	ASP D 160	-22.387	34.852	31.191	1.00	71.16		H0
ANISOU11993	H	ASP D 160	10120	7630	9290	-980	680	-2260	H0
ATOM 11994	HA	ASP D 160	-20.265	33.684	32.300	1.00	71.56		H0
ANISOU11994	HA	ASP D 160	9880	8100	9200	-1330	530	-2400	H0
ATOM 11995	HB2	ASP D 160	-21.875	34.887	33.557	1.00	74.25		H0
ANISOU11995	HB2	ASP D 160	10470	8260	9480	-1050	580	-2650	H0
ATOM 11996	HB3	ASP D 160	-22.934	33.736	33.300	1.00	71.67		H0
ANISOU11996	HB3	ASP D 160	10010	8150	9070	-820	610	-2450	H0
ATOM 11997	N	ASP D 161	-20.480	31.181	32.320	1.00	68.66		N0
ANISOU11997	N	ASP D 161	9180	8250	8660	-1180	480	-2150	N0
ATOM 11998	CA	ASP D 161	-20.375	29.732	31.988	1.00	66.92		C0
ANISOU11998	CA	ASP D 161	8790	8260	8380	-1140	460	-1970	C0
ATOM 11999	C	ASP D 161	-21.647	28.984	32.418	1.00	65.87		C0
ANISOU11999	C	ASP D 161	8620	8270	8140	-930	480	-1910	C0
ATOM 12000	O	ASP D 161	-21.970	27.972	31.760	1.00	64.61		O0
ANISOU12000	O	ASP D 161	8370	8200	7970	-860	490	-1730	O0
ATOM 12001	CB	ASP D 161	-19.128	29.104	32.623	1.00	67.33		C0
ANISOU12001	CB	ASP D 161	8680	8540	8360	-1280	390	-2020	C0
ATOM 12002	CG	ASP D 161	-17.817	29.488	31.952	1.00	68.39		C0
ANISOU12002	CG	ASP D 161	8780	8600	8600	-1500	380	-2020	C0
ATOM 12003	OD1	ASP D 161	-17.786	29.543	30.703	1.00	67.93		O0
ANISOU12003	OD1	ASP D 161	8750	8410	8650	-1520	440	-1880	O0
ATOM 12004	OD2	ASP D 161	-16.834	29.727	32.684	1.00	69.09		O0
ANISOU12004	OD2	ASP D 161	8800	8790	8650	-1650	310	-2150	O0
ATOM 12005	H	ASP D 161	-19.839	31.461	32.904	1.00	69.82		H0
ANISOU12005	H	ASP D 161	9320	8430	8780	-1290	440	-2270	H0
ATOM 12006	HA	ASP D 161	-20.290	29.653	31.010	1.00	66.19		H0
ANISOU12006	HA	ASP D 161	8700	8090	8360	-1160	500	-1850	H0
ATOM 12007	HB2	ASP D 161	-19.081	29.371	33.564	1.00	68.42		H0
ANISOU12007	HB2	ASP D 161	8830	8740	8420	-1290	350	-2160	H0
ATOM 12008	HB3	ASP D 161	-19.213	28.129	32.589	1.00	66.00		H0
ANISOU12008	HB3	ASP D 161	8410	8520	8140	-1220	380	-1920	H0
ATOM 12009	N	SER D 162	-22.333	29.450	33.471	1.00	65.95		N0
ANISOU12009	N	SER D 162	8690	8300	8070	-820	480	-2050	N0
ATOM 12010	CA	SER D 162	-23.506	28.773	34.088	1.00	64.66		C0
ANISOU12010	CA	SER D 162	8470	8310	7780	-630	510	-2010	C0
ATOM 12011	C	SER D 162	-24.788	29.596	33.890	1.00	64.71		C0
ANISOU12011	C	SER D 162	8600	8150	7830	-460	580	-2020	C0
ATOM 12012	O	SER D 162	-25.676	29.512	34.759	1.00	64.24		O0
ANISOU12012	O	SER D 162	8530	8220	7660	-310	600	-2070	O0
ATOM 12013	CB	SER D 162	-23.253	28.498	35.553	1.00	64.99		C0

ANISOU12013	CB	SER D 162	8460	8570	7660	-630	460	-2140	C0
ATOM 12014	OG	SER D 162	-23.262	29.702	36.300	1.00	67.11		O0
ANISOU12014	OG	SER D 162	8860	8730	7910	-640	460	-2370	O0
ATOM 12015	H	SER D 162	-22.120	30.223	33.901	1.00	67.54		H0
ANISOU12015	H	SER D 162	8970	8420	8280	-870	480	-2190	H0
ATOM 12016	HA	SER D 162	-23.631	27.900	33.630	1.00	63.07		H0
ANISOU12016	HA	SER D 162	8190	8200	7580	-610	510	-1860	H0
ATOM 12017	HB2	SER D 162	-23.946	27.892	35.898	1.00	64.45		H0
ANISOU12017	HB2	SER D 162	8330	8640	7510	-520	470	-2080	H0
ATOM 12018	HB3	SER D 162	-22.380	28.055	35.656	1.00	64.82		H0
ANISOU12018	HB3	SER D 162	8360	8650	7620	-740	410	-2130	H0
ATOM 12019	N	GLU D 163	-24.899	30.335	32.780	1.00	64.56		N0
ANISOU12019	N	GLU D 163	8690	7890	7950	-470	620	-1960	N0
ATOM 12020	CA	GLU D 163	-26.108	31.140	32.452	1.00	65.16		C0
ANISOU12020	CA	GLU D 163	8880	7800	8080	-280	680	-1940	C0
ATOM 12021	C	GLU D 163	-27.253	30.204	32.031	1.00	61.65		C0
ANISOU12021	C	GLU D 163	8320	7520	7590	-120	700	-1760	C0
ATOM 12022	O	GLU D 163	-28.411	30.633	32.129	1.00	61.81		O0
ANISOU12022	O	GLU D 163	8370	7510	7600	70	750	-1750	O0
ATOM 12023	CB	GLU D 163	-25.802	32.190	31.377	1.00	67.59		C0
ANISOU12023	CB	GLU D 163	9340	7790	8550	-340	710	-1910	C0
ATOM 12024	CG	GLU D 163	-25.597	31.616	29.982	1.00	67.07		C0
ANISOU12024	CG	GLU D 163	9220	7710	8550	-400	710	-1690	C0
ATOM 12025	CD	GLU D 163	-25.582	32.635	28.850	1.00	69.41		C0
ANISOU12025	CD	GLU D 163	9660	7720	8990	-410	750	-1610	C0
ATOM 12026	OE1	GLU D 163	-26.251	33.683	28.979	1.00	70.38		O0
ANISOU12026	OE1	GLU D 163	9930	7650	9160	-280	800	-1670	O0
ATOM 12027	OE2	GLU D 163	-24.903	32.372	27.831	1.00	70.51		O0
ANISOU12027	OE2	GLU D 163	9780	7830	9180	-540	750	-1490	O0
ATOM 12028	H	GLU D 163	-24.240	30.385	32.154	1.00	64.31		H0
ANISOU12028	H	GLU D 163	8660	7780	7990	-580	600	-1920	H0
ATOM 12029	HA	GLU D 163	-26.386	31.613	33.271	1.00	66.43		H0
ANISOU12029	HA	GLU D 163	9090	7960	8190	-210	700	-2080	H0
ATOM 12030	HB2	GLU D 163	-26.543	32.830	31.351	1.00	68.53		H0
ANISOU12030	HB2	GLU D 163	9550	7790	8700	-200	760	-1930	H0
ATOM 12031	HB3	GLU D 163	-24.994	32.677	31.640	1.00	68.50		H0
ANISOU12031	HB3	GLU D 163	9510	7820	8700	-470	700	-2020	H0
ATOM 12032	HG2	GLU D 163	-24.747	31.127	29.964	1.00	66.38		H0
ANISOU12032	HG2	GLU D 163	9060	7710	8460	-540	680	-1690	H0
ATOM 12033	HG3	GLU D 163	-26.309	30.970	29.797	1.00	65.99		H0
ANISOU12033	HG3	GLU D 163	9000	7700	8370	-300	710	-1590	H0
ATOM 12034	N	TYR D 164	-26.945	28.982	31.575	1.00	57.95		N0
ANISOU12034	N	TYR D 164	7710	7210	7100	-200	670	-1610	N0
ATOM 12035	CA	TYR D 164	-27.941	27.967	31.136	1.00	55.05		C0
ANISOU12035	CA	TYR D 164	7230	7000	6690	-110	680	-1440	C0
ATOM 12036	C	TYR D 164	-27.905	26.727	32.040	1.00	51.34		C0
ANISOU12036	C	TYR D 164	6620	6790	6100	-120	650	-1430	C0
ATOM 12037	O	TYR D 164	-28.603	25.748	31.727	1.00	50.15		O0
ANISOU12037	O	TYR D 164	6370	6770	5920	-80	650	-1280	O0
ATOM 12038	CB	TYR D 164	-27.702	27.596	29.670	1.00	55.44		C0
ANISOU12038	CB	TYR D 164	7270	6970	6820	-180	670	-1280	C0
ATOM 12039	CG	TYR D 164	-27.816	28.757	28.714	1.00	58.00		C0
ANISOU12039	CG	TYR D 164	7730	7050	7260	-150	700	-1250	C0
ATOM 12040	CD1	TYR D 164	-28.865	29.659	28.813	1.00	60.99		C0

ANISOU12040	CD1 TYR D 164	8180	7330	7660	30	740	-1270	C0
ATOM 12041	CD2 TYR D 164	-26.874	28.968	27.720	1.00	58.85		C0
ANISOU12041	CD2 TYR D 164	7890	7020	7450	-290	690	-1200	C0
ATOM 12042	CE1 TYR D 164	-28.977	30.738	27.951	1.00	62.97		C0
ANISOU12042	CE1 TYR D 164	8570	7340	8010	80	770	-1230	C0
ATOM 12043	CE2 TYR D 164	-26.973	30.040	26.846	1.00	60.97		C0
ANISOU12043	CE2 TYR D 164	8300	7050	7820	-260	730	-1150	C0
ATOM 12044	CZ TYR D 164	-28.029	30.928	26.962	1.00	62.61		C0
ANISOU12044	CZ TYR D 164	8590	7150	8050	-80	760	-1160	C0
ATOM 12045	OH TYR D 164	-28.146	31.991	26.117	1.00	65.53		O0
ANISOU12045	OH TYR D 164	9100	7280	8510	-40	800	-1100	O0
ATOM 12046	H TYR D 164	-26.089	28.687	31.480	1.00	57.50		H0
ANISOU12046	H TYR D 164	7630	7170	7050	-330	640	-1620	H0
ATOM 12047	HA TYR D 164	-28.844	28.365	31.211	1.00	55.80		H0
ANISOU12047	HA TYR D 164	7340	7080	6780	30	710	-1440	H0
ATOM 12048	HB2 TYR D 164	-26.807	27.206	29.591	1.00	54.83		H0
ANISOU12048	HB2 TYR D 164	7170	6910	6750	-300	640	-1280	H0
ATOM 12049	HB3 TYR D 164	-28.352	26.910	29.412	1.00	54.61		H0
ANISOU12049	HB3 TYR D 164	7090	6970	6690	-130	670	-1180	H0
ATOM 12050	HD1 TYR D 164	-29.515	29.540	29.483	1.00	61.08		H0
ANISOU12050	HD1 TYR D 164	8150	7450	7610	130	750	-1310	H0
ATOM 12051	HD2 TYR D 164	-26.153	28.371	27.634	1.00	58.06		H0
ANISOU12051	HD2 TYR D 164	7740	6980	7340	-400	670	-1180	H0
ATOM 12052	HE1 TYR D 164	-29.700	31.338	28.034	1.00	63.78		H0
ANISOU12052	HE1 TYR D 164	8720	7380	8130	220	800	-1240	H0
ATOM 12053	HE2 TYR D 164	-26.323	30.166	26.175	1.00	60.67		H0
ANISOU12053	HE2 TYR D 164	8290	6930	7830	-360	730	-1100	H0
ATOM 12054	N PHE D 165	-27.139	26.760	33.132	1.00	49.34		N0
ANISOU12054	N PHE D 165	6360	6610	5770	-190	620	-1560	N0
ATOM 12055	CA PHE D 165	-27.004	25.625	34.080	1.00	47.37		C0
ANISOU12055	CA PHE D 165	5990	6620	5390	-200	600	-1540	C0
ATOM 12056	C PHE D 165	-28.184	25.625	35.061	1.00	47.23		C0
ANISOU12056	C PHE D 165	5940	6750	5250	-40	640	-1570	C0
ATOM 12057	O PHE D 165	-28.531	26.693	35.601	1.00	47.88		O0
ANISOU12057	O PHE D 165	6110	6770	5320	50	680	-1720	O0
ATOM 12058	CB PHE D 165	-25.672	25.684	34.826	1.00	47.43		C0
ANISOU12058	CB PHE D 165	6000	6680	5350	-330	540	-1660	C0
ATOM 12059	CG PHE D 165	-25.354	24.417	35.577	1.00	46.63		C0
ANISOU12059	CG PHE D 165	5770	6820	5130	-340	500	-1590	C0
ATOM 12060	CD1 PHE D 165	-25.028	23.256	34.891	1.00	44.54		C0
ANISOU12060	CD1 PHE D 165	5420	6600	4900	-390	490	-1420	C0
ATOM 12061	CD2 PHE D 165	-25.424	24.372	36.963	1.00	47.40		C0
ANISOU12061	CD2 PHE D 165	5840	7110	5070	-300	490	-1680	C0
ATOM 12062	CE1 PHE D 165	-24.746	22.087	35.578	1.00	44.36		C0
ANISOU12062	CE1 PHE D 165	5300	6770	4780	-390	460	-1340	C0
ATOM 12063	CE2 PHE D 165	-25.139	23.200	37.648	1.00	46.88		C0
ANISOU12063	CE2 PHE D 165	5660	7260	4890	-300	460	-1590	C0
ATOM 12064	CZ PHE D 165	-24.799	22.061	36.956	1.00	45.33		C0
ANISOU12064	CZ PHE D 165	5390	7080	4750	-340	450	-1410	C0
ATOM 12065	H PHE D 165	-26.651	27.485	33.384	1.00	50.62		H0
ANISOU12065	H PHE D 165	6600	6680	5950	-230	620	-1680	H0
ATOM 12066	HA PHE D 165	-27.032	24.782	33.561	1.00	46.13		H0
ANISOU12066	HA PHE D 165	5770	6510	5250	-230	590	-1410	H0
ATOM 12067	HB2 PHE D 165	-24.957	25.861	34.179	1.00	47.23		H0

ANISOU12067	HB2 PHE D 165	5990	6550	5410	-420	520	-1650	H0
ATOM 12068	HB3 PHE D 165	-25.700	26.433	35.458	1.00	48.85		H0
ANISOU12068	HB3 PHE D 165	6230	6830	5490	-300	540	-1800	H0
ATOM 12069	HD1 PHE D 165	-24.984	23.269	33.949	1.00	43.99		H0
ANISOU12069	HD1 PHE D 165	5380	6410	4930	-420	500	-1360	H0
ATOM 12070	HD2 PHE D 165	-25.650	25.153	37.444	1.00	48.65		H0
ANISOU12070	HD2 PHE D 165	6060	7240	5190	-260	500	-1810	H0
ATOM 12071	HE1 PHE D 165	-24.515	21.307	35.101	1.00	43.40		H0
ANISOU12071	HE1 PHE D 165	5140	6660	4690	-420	460	-1230	H0
ATOM 12072	HE2 PHE D 165	-25.179	23.186	38.588	1.00	47.86		H0
ANISOU12072	HE2 PHE D 165	5770	7530	4890	-270	450	-1650	H0
ATOM 12073	HZ PHE D 165	-24.611	21.262	37.422	1.00	45.32		H0
ANISOU12073	HZ PHE D 165	5330	7210	4680	-340	430	-1340	H0
ATOM 12074	N SER D 166	-28.775	24.447	35.278	1.00	45.90		N0
ANISOU12074	N SER D 166	5650	6770	5010	-10	650	-1430	N0
ATOM 12075	CA SER D 166	-29.916	24.209	36.201	1.00	46.59		C0
ANISOU12075	CA SER D 166	5670	7050	4980	120	710	-1420	C0
ATOM 12076	C SER D 166	-29.542	24.655	37.618	1.00	48.21		C0
ANISOU12076	C SER D 166	5910	7370	5040	150	700	-1590	C0
ATOM 12077	O SER D 166	-28.491	24.215	38.121	1.00	48.11		O0
ANISOU12077	O SER D 166	5870	7440	4970	50	650	-1620	O0
ATOM 12078	CB SER D 166	-30.338	22.759	36.190	1.00	45.35		C0
ANISOU12078	CB SER D 166	5390	7070	4770	100	710	-1230	C0
ATOM 12079	OG SER D 166	-31.406	22.532	37.101	1.00	46.47		O0
ANISOU12079	OG SER D 166	5450	7410	4790	210	770	-1210	O0
ATOM 12080	H SER D 166	-28.509	23.681	34.862	1.00	44.93		H0
ANISOU12080	H SER D 166	5480	6680	4910	-70	630	-1330	H0
ATOM 12081	HA SER D 166	-30.682	24.762	35.891	1.00	47.07		H0
ANISOU12081	HA SER D 166	5750	7060	5070	220	750	-1420	H0
ATOM 12082	HB2 SER D 166	-30.623	22.510	35.282	1.00	44.58		H0
ANISOU12082	HB2 SER D 166	5270	6900	4760	80	710	-1130	H0
ATOM 12083	HB3 SER D 166	-29.571	22.194	36.436	1.00	44.99		H0
ANISOU12083	HB3 SER D 166	5320	7070	4700	20	670	-1210	H0
ATOM 12084	N GLN D 167	-30.391	25.482	38.230	1.00	50.18		N0
ANISOU12084	N GLN D 167	6190	7650	5230	300	770	-1710	N0
ATOM 12085	CA GLN D 167	-30.287	25.910	39.649	1.00	52.44		C0
ANISOU12085	CA GLN D 167	6510	8070	5340	360	780	-1890	C0
ATOM 12086	C GLN D 167	-30.728	24.766	40.578	1.00	52.07		C0
ANISOU12086	C GLN D 167	6330	8340	5120	390	810	-1780	C0
ATOM 12087	O GLN D 167	-30.530	24.901	41.799	1.00	53.22		O0
ANISOU12087	O GLN D 167	6480	8650	5090	420	810	-1900	O0
ATOM 12088	CB GLN D 167	-31.132	27.165	39.881	1.00	55.03		C0
ANISOU12088	CB GLN D 167	6940	8300	5670	530	860	-2050	C0
ATOM 12089	CG GLN D 167	-32.633	26.907	39.870	1.00	56.10		C0
ANISOU12089	CG GLN D 167	6970	8580	5770	700	960	-1930	C0
ATOM 12090	CD GLN D 167	-33.447	28.174	39.970	1.00	58.94		C0
ANISOU12090	CD GLN D 167	7420	8820	6150	900	1040	-2070	C0
ATOM 12091	OE1 GLN D 167	-34.265	28.479	39.103	1.00	60.07		O0
ANISOU12091	OE1 GLN D 167	7550	8860	6410	1010	1080	-1970	O0
ATOM 12092	NE2 GLN D 167	-33.233	28.923	41.039	1.00	61.10		N0
ANISOU12092	NE2 GLN D 167	7800	9110	6300	970	1060	-2300	N0
ATOM 12093	H GLN D 167	-31.102	25.847	37.795	1.00	50.38		H0
ANISOU12093	H GLN D 167	6230	7610	5300	380	810	-1680	H0
ATOM 12094	HA GLN D 167	-29.344	26.123	39.839	1.00	52.63		H0

ANISOU12094	HA	GLN D 167	6580	8050	5360	260	730	-1980	H0
ATOM 12095	HB2	GLN D 167	-30.880	27.554	40.744	1.00	56.41		H0
ANISOU12095	HB2	GLN D 167	7160	8540	5740	540	860	-2200	H0
ATOM 12096	HB3	GLN D 167	-30.915	27.819	39.183	1.00	55.02		H0
ANISOU12096	HB3	GLN D 167	7020	8090	5790	510	850	-2080	H0
ATOM 12097	HG2	GLN D 167	-32.875	26.435	39.047	1.00	54.84		H0
ANISOU12097	HG2	GLN D 167	6750	8380	5700	670	940	-1770	H0
ATOM 12098	HG3	GLN D 167	-32.861	26.327	40.624	1.00	56.39		H0
ANISOU12098	HG3	GLN D 167	6920	8820	5680	720	980	-1900	H0
ATOM 12099	HE21	GLN D 167	-33.476	29.773	41.040	1.00	62.36		H0
ANISOU12099	HE21	GLN D 167	8050	9140	6500	1060	1100	-2410	H0
ATOM 12100	HE22	GLN D 167	-32.847	28.574	41.755	1.00	61.28		H0
ANISOU12100	HE22	GLN D 167	7800	9270	6210	910	1040	-2340	H0
ATOM 12101	N	TYR D 168	-31.300	23.685	40.032	1.00	50.33		N0
ANISOU12101	N	TYR D 168	5990	8190	4940	370	820	-1550	N0
ATOM 12102	CA	TYR D 168	-31.896	22.566	40.812	1.00	50.50		C0
ANISOU12102	CA	TYR D 168	5880	8480	4820	400	860	-1400	C0
ATOM 12103	C	TYR D 168	-30.936	21.369	40.848	1.00	49.72		C0
ANISOU12103	C	TYR D 168	5740	8440	4710	260	790	-1270	C0
ATOM 12104	O	TYR D 168	-31.214	20.417	41.592	1.00	50.90		O0
ANISOU12104	O	TYR D 168	5810	8800	4730	260	820	-1150	O0
ATOM 12105	CB	TYR D 168	-33.295	22.254	40.267	1.00	49.73		C0
ANISOU12105	CB	TYR D 168	5690	8430	4770	470	940	-1250	C0
ATOM 12106	CG	TYR D 168	-34.195	23.464	40.261	1.00	50.76		C0
ANISOU12106	CG	TYR D 168	5860	8510	4920	640	1010	-1380	C0
ATOM 12107	CD1	TYR D 168	-34.437	24.163	41.434	1.00	53.02		C0
ANISOU12107	CD1	TYR D 168	6170	8920	5050	770	1070	-1550	C0
ATOM 12108	CD2	TYR D 168	-34.755	23.951	39.090	1.00	49.90		C0
ANISOU12108	CD2	TYR D 168	5760	8240	4960	690	1020	-1340	C0
ATOM 12109	CE1	TYR D 168	-35.233	25.297	41.453	1.00	54.46		C0
ANISOU12109	CE1	TYR D 168	6400	9050	5240	960	1140	-1670	C0
ATOM 12110	CE2	TYR D 168	-35.553	25.085	39.090	1.00	51.50		C0
ANISOU12110	CE2	TYR D 168	6000	8380	5180	880	1080	-1440	C0
ATOM 12111	CZ	TYR D 168	-35.791	25.761	40.276	1.00	53.70		C0
ANISOU12111	CZ	TYR D 168	6320	8770	5320	1010	1150	-1610	C0
ATOM 12112	OH	TYR D 168	-36.574	26.877	40.307	1.00	55.55		O0
ANISOU12112	OH	TYR D 168	6600	8940	5570	1220	1230	-1720	O0
ATOM 12113	H	TYR D 168	-31.389	23.564	39.136	1.00	49.38		H0
ANISOU12113	H	TYR D 168	5870	7960	4940	340	810	-1470	H0
ATOM 12114	HA	TYR D 168	-32.005	22.877	41.746	1.00	51.83		H0
ANISOU12114	HA	TYR D 168	6060	8780	4860	460	890	-1500	H0
ATOM 12115	HB2	TYR D 168	-33.209	21.910	39.354	1.00	48.51		H0
ANISOU12115	HB2	TYR D 168	5530	8170	4740	400	910	-1160	H0
ATOM 12116	HB3	TYR D 168	-33.701	21.553	40.820	1.00	50.10		H0
ANISOU12116	HB3	TYR D 168	5650	8660	4730	480	970	-1160	H0
ATOM 12117	HD1	TYR D 168	-34.056	23.856	42.241	1.00	53.39		H0
ANISOU12117	HD1	TYR D 168	6220	9100	4970	750	1060	-1570	H0
ATOM 12118	HD2	TYR D 168	-34.594	23.501	38.277	1.00	48.74		H0
ANISOU12118	HD2	TYR D 168	5590	8010	4910	600	970	-1230	H0
ATOM 12119	HE1	TYR D 168	-35.393	25.751	42.264	1.00	55.96		H0
ANISOU12119	HE1	TYR D 168	6620	9320	5320	1050	1190	-1800	H0
ATOM 12120	HE2	TYR D 168	-35.934	25.397	38.286	1.00	51.35		H0
ANISOU12120	HE2	TYR D 168	5980	8260	5270	920	1080	-1400	H0
ATOM 12121	N	SER D 169	-29.837	21.419	40.091	1.00	48.68		N0

ANISOU12121	N	SER D 169	5670	8130	4700	140	710	-1290	NO
ATOM 12122	CA	SER D 169	-28.705	20.459	40.192	1.00	48.14		CO
ANISOU12122	CA	SER D 169	5570	8110	4610	40	640	-1210	CO
ATOM 12123	C	SER D 169	-28.137	20.483	41.617	1.00	49.74		CO
ANISOU12123	C	SER D 169	5760	8530	4620	60	610	-1300	CO
ATOM 12124	O	SER D 169	-28.161	21.559	42.238	1.00	50.21		OO
ANISOU12124	O	SER D 169	5880	8600	4600	100	620	-1500	OO
ATOM 12125	CB	SER D 169	-27.629	20.774	39.184	1.00	46.88		CO
ANISOU12125	CB	SER D 169	5460	7740	4610	-70	580	-1250	CO
ATOM 12126	OG	SER D 169	-26.517	19.900	39.340	1.00	46.54		OO
ANISOU12126	OG	SER D 169	5380	7760	4540	-150	510	-1180	OO
ATOM 12127	H	SER D 169	-29.702	22.043	39.443	1.00	48.41		HO
ANISOU12127	H	SER D 169	5690	7940	4760	130	700	-1360	HO
ATOM 12128	HA	SER D 169	-29.056	19.547	40.008	1.00	47.44		HO
ANISOU12128	HA	SER D 169	5420	8070	4530	20	660	-1050	HO
ATOM 12129	HB2	SER D 169	-27.994	20.685	38.277	1.00	46.02		HO
ANISOU12129	HB2	SER D 169	5360	7520	4610	-80	590	-1180	HO
ATOM 12130	HB3	SER D 169	-27.333	21.705	39.305	1.00	47.65		HO
ANISOU12130	HB3	SER D 169	5620	7770	4710	-70	560	-1400	HO
ATOM 12131	N	ARG D 170	-27.626	19.341	42.090	1.00	50.08		NO
ANISOU12131	N	ARG D 170	5730	8720	4580	20	580	-1150	NO
ATOM 12132	CA	ARG D 170	-26.922	19.202	43.394	1.00	52.45		CO
ANISOU12132	CA	ARG D 170	6010	9250	4670	30	530	-1200	CO
ATOM 12133	C	ARG D 170	-25.565	19.909	43.331	1.00	52.90		CO
ANISOU12133	C	ARG D 170	6100	9240	4760	-50	430	-1380	CO
ATOM 12134	O	ARG D 170	-24.991	20.189	44.399	1.00	54.57		OO
ANISOU12134	O	ARG D 170	6310	9630	4800	-50	370	-1490	OO
ATOM 12135	CB	ARG D 170	-26.675	17.730	43.733	1.00	52.71		CO
ANISOU12135	CB	ARG D 170	5960	9420	4640	30	520	-970	CO
ATOM 12136	CG	ARG D 170	-27.859	17.028	44.376	1.00	54.25		CO
ANISOU12136	CG	ARG D 170	6110	9780	4720	100	610	-810	CO
ATOM 12137	CD	ARG D 170	-27.563	15.560	44.586	1.00	54.75		CO
ANISOU12137	CD	ARG D 170	6120	9920	4760	80	600	-560	CO
ATOM 12138	NE	ARG D 170	-27.408	14.860	43.316	1.00	53.46		NO
ANISOU12138	NE	ARG D 170	5970	9530	4810	0	590	-430	NO
ATOM 12139	CZ	ARG D 170	-27.153	13.561	43.194	1.00	53.78		CO
ANISOU12139	CZ	ARG D 170	6000	9550	4880	-20	590	-220	CO
ATOM 12140	NH1	ARG D 170	-27.008	12.803	44.271	1.00	55.08		NO
ANISOU12140	NH1	ARG D 170	6130	9910	4880	30	600	-80	NO
ATOM 12141	NH2	ARG D 170	-27.042	13.028	41.987	1.00	52.39		NO
ANISOU12141	NH2	ARG D 170	5850	9150	4900	-80	590	-140	NO
ATOM 12142	H	ARG D 170	-27.682	18.560	41.625	1.00	49.26		HO
ANISOU12142	H	ARG D 170	5600	8580	4540	-10	580	-1010	HO
ATOM 12143	HA	ARG D 170	-27.471	19.614	44.101	1.00	53.57		HO
ANISOU12143	HA	ARG D 170	6160	9500	4700	100	570	-1280	HO
ATOM 12144	HB2	ARG D 170	-26.433	17.257	42.911	1.00	51.58		HO
ANISOU12144	HB2	ARG D 170	5820	9140	4640	-20	500	-870	HO
ATOM 12145	HB3	ARG D 170	-25.910	17.675	44.345	1.00	53.61		HO
ANISOU12145	HB3	ARG D 170	6060	9650	4660	20	460	-1000	HO
ATOM 12146	HG2	ARG D 170	-28.059	17.445	45.240	1.00	55.53		HO
ANISOU12146	HG2	ARG D 170	6270	10090	4730	150	630	-900	HO
ATOM 12147	HG3	ARG D 170	-28.648	17.120	43.799	1.00	53.55		HO
ANISOU12147	HG3	ARG D 170	6020	9600	4730	100	660	-780	HO
ATOM 12148	HD2	ARG D 170	-26.739	15.467	45.111	1.00	55.38		HO

ANISOU12148	HD2 ARG D 170	6200	10100	4750	80	540	-580	H0
ATOM 12149	HD3 ARG D 170	-28.294	15.151	45.096	1.00	55.42		H0
ANISOU12149	HD3 ARG D 170	6180	10130	4750	110	660	-460	H0
ATOM 12150	HE ARG D 170	-27.503	15.322	42.583	1.00	52.64		H0
ANISOU12150	HE ARG D 170	5900	9290	4820	-20	590	-510	H0
ATOM 12151	HH11 ARG D 170	-27.082	13.153	45.073	1.00	56.16		H0
ANISOU12151	HH11 ARG D 170	6250	10210	4880	70	600	-130	H0
ATOM 12152	HH12 ARG D 170	-26.836	11.945	44.182	1.00	55.07		H0
ANISOU12152	HH12 ARG D 170	6130	9880	4910	20	600	70	H0
ATOM 12153	HH21 ARG D 170	-27.138	13.533	41.272	1.00	51.49		H0
ANISOU12153	HH21 ARG D 170	5760	8920	4890	-110	590	-230	H0
ATOM 12154	HH22 ARG D 170	-26.868	12.168	41.901	1.00	52.32		H0
ANISOU12154	HH22 ARG D 170	5840	9110	4920	-90	590	-10	H0
ATOM 12155	N PHE D 171	-25.065	20.151	42.118	1.00	51.26		N0
ANISOU12155	N PHE D 171	5930	8800	4750	-130	400	-1380	N0
ATOM 12156	CA PHE D 171	-23.709	20.681	41.845	1.00	51.60		C0
ANISOU12156	CA PHE D 171	5980	8770	4860	-240	310	-1510	C0
ATOM 12157	C PHE D 171	-23.829	22.120	41.335	1.00	52.46		C0
ANISOU12157	C PHE D 171	6200	8660	5070	-280	330	-1710	C0
ATOM 12158	O PHE D 171	-24.922	22.519	40.882	1.00	52.67		O0
ANISOU12158	O PHE D 171	6280	8560	5170	-210	410	-1710	O0
ATOM 12159	CB PHE D 171	-22.997	19.734	40.875	1.00	49.76		C0
ANISOU12159	CB PHE D 171	5690	8450	4760	-300	280	-1330	C0
ATOM 12160	CG PHE D 171	-23.092	18.284	41.281	1.00	49.31		C0
ANISOU12160	CG PHE D 171	5560	8550	4630	-240	290	-1110	C0
ATOM 12161	CD1 PHE D 171	-24.164	17.505	40.880	1.00	48.33		C0
ANISOU12161	CD1 PHE D 171	5440	8370	4550	-200	370	-940	C0
ATOM 12162	CD2 PHE D 171	-22.133	17.709	42.100	1.00	50.63		C0
ANISOU12162	CD2 PHE D 171	5650	8910	4670	-240	220	-1070	C0
ATOM 12163	CE1 PHE D 171	-24.266	16.179	41.270	1.00	48.67		C0
ANISOU12163	CE1 PHE D 171	5430	8530	4530	-160	390	-740	C0
ATOM 12164	CE2 PHE D 171	-22.233	16.381	42.487	1.00	50.77		C0
ANISOU12164	CE2 PHE D 171	5620	9050	4620	-170	230	-850	C0
ATOM 12165	CZ PHE D 171	-23.299	15.618	42.071	1.00	49.84		C0
ANISOU12165	CZ PHE D 171	5530	8850	4560	-140	320	-680	C0
ATOM 12166	H PHE D 171	-25.526	19.991	41.351	1.00	50.30		H0
ANISOU12166	H PHE D 171	5810	8550	4740	-130	440	-1310	H0
ATOM 12167	HA PHE D 171	-23.202	20.696	42.695	1.00	52.80		H0
ANISOU12167	HA PHE D 171	6100	9080	4880	-250	260	-1570	H0
ATOM 12168	HB2 PHE D 171	-23.390	19.844	39.985	1.00	48.73		H0
ANISOU12168	HB2 PHE D 171	5600	8160	4760	-310	320	-1300	H0
ATOM 12169	HB3 PHE D 171	-22.053	19.991	40.823	1.00	50.12		H0
ANISOU12169	HB3 PHE D 171	5720	8490	4830	-370	230	-1400	H0
ATOM 12170	HD1 PHE D 171	-24.832	17.883	40.331	1.00	47.84		H0
ANISOU12170	HD1 PHE D 171	5420	8200	4570	-190	410	-970	H0
ATOM 12171	HD2 PHE D 171	-21.398	18.226	42.390	1.00	51.39		H0
ANISOU12171	HD2 PHE D 171	5730	9060	4730	-280	160	-1180	H0
ATOM 12172	HE1 PHE D 171	-24.998	15.658	40.980	1.00	48.12		H0
ANISOU12172	HE1 PHE D 171	5370	8410	4500	-140	440	-630	H0
ATOM 12173	HE2 PHE D 171	-21.567	16.000	43.037	1.00	51.56		H0
ANISOU12173	HE2 PHE D 171	5670	9290	4640	-150	180	-810	H0
ATOM 12174	HZ PHE D 171	-23.368	14.714	42.334	1.00	49.99		H0
ANISOU12174	HZ PHE D 171	5520	8930	4550	-100	330	-530	H0
ATOM 12175	N GLU D 172	-22.737	22.878	41.452	1.00	54.13		N0

ANISOU12175 N GLU D 172	6430	8840	5300	-390	250	-1880	N0
ATOM 12176 CA GLU D 172	-22.566	24.227	40.853	1.00	54.82		C0
ANISOU12176 CA GLU D 172	6640	8680	5520	-470	250	-2060	C0
ATOM 12177 C GLU D 172	-21.276	24.231	40.035	1.00	54.07		C0
ANISOU12177 C GLU D 172	6500	8490	5560	-620	190	-2040	C0
ATOM 12178 O GLU D 172	-20.342	23.493	40.402	1.00	53.59		O0
ANISOU12178 O GLU D 172	6320	8610	5430	-670	120	-1980	O0
ATOM 12179 CB GLU D 172	-22.527	25.311	41.929	1.00	57.35		C0
ANISOU12179 CB GLU D 172	7040	9050	5710	-470	230	-2320	C0
ATOM 12180 CG GLU D 172	-21.324	25.227	42.849	1.00	59.09		C0
ANISOU12180 CG GLU D 172	7190	9480	5790	-580	120	-2430	C0
ATOM 12181 CD GLU D 172	-21.346	26.241	43.975	1.00	62.24		C0
ANISOU12181 CD GLU D 172	7670	9950	6030	-590	90	-2710	C0
ATOM 12182 OE1 GLU D 172	-22.246	27.104	43.969	1.00	63.68		O0
ANISOU12182 OE1 GLU D 172	7990	9970	6230	-510	170	-2830	O0
ATOM 12183 OE2 GLU D 172	-20.474	26.159	44.860	1.00	64.30		O0
ANISOU12183 OE2 GLU D 172	7870	10430	6130	-670	-10	-2800	O0
ATOM 12184 H GLU D 172	-22.007	22.599	41.919	1.00	54.58		H0
ANISOU12184 H GLU D 172	6430	9030	5280	-430	190	-1890	H0
ATOM 12185 HA GLU D 172	-23.325	24.403	40.250	1.00	54.03		H0
ANISOU12185 HA GLU D 172	6590	8440	5500	-410	320	-2010	H0
ATOM 12186 HB2 GLU D 172	-22.529	26.187	41.488	1.00	57.77		H0
ANISOU12186 HB2 GLU D 172	7180	8900	5860	-510	250	-2430	H0
ATOM 12187 HB3 GLU D 172	-23.343	25.244	42.467	1.00	57.78		H0
ANISOU12187 HB3 GLU D 172	7110	9190	5660	-360	280	-2330	H0
ATOM 12188 HG2 GLU D 172	-21.279	24.329	43.240	1.00	58.79		H0
ANISOU12188 HG2 GLU D 172	7050	9630	5650	-530	100	-2300	H0
ATOM 12189 HG3 GLU D 172	-20.506	25.365	42.325	1.00	58.95		H0
ANISOU12189 HG3 GLU D 172	7150	9390	5870	-700	70	-2430	H0
ATOM 12190 N ILE D 173	-21.243	25.039	38.974	1.00	54.37		N0
ANISOU12190 N ILE D 173	6630	8260	5770	-690	220	-2080	N0
ATOM 12191 CA ILE D 173	-20.078	25.181	38.053	1.00	54.46		C0
ANISOU12191 CA ILE D 173	6610	8160	5930	-850	190	-2060	C0
ATOM 12192 C ILE D 173	-19.186	26.317	38.559	1.00	56.40		C0
ANISOU12192 C ILE D 173	6900	8370	6160	-1000	120	-2290	C0
ATOM 12193 O ILE D 173	-19.699	27.438	38.719	1.00	57.72		O0
ANISOU12193 O ILE D 173	7210	8370	6350	-1000	160	-2450	O0
ATOM 12194 CB ILE D 173	-20.553	25.420	36.609	1.00	53.50		C0
ANISOU12194 CB ILE D 173	6560	7780	5990	-840	260	-1950	C0
ATOM 12195 CG1 ILE D 173	-21.253	24.179	36.051	1.00	51.97		C0
ANISOU12195 CG1 ILE D 173	6310	7630	5800	-730	310	-1730	C0
ATOM 12196 CG2 ILE D 173	-19.395	25.874	35.728	1.00	54.09		C0
ANISOU12196 CG2 ILE D 173	6630	7720	6200	-1010	240	-1970	C0
ATOM 12197 CD1 ILE D 173	-21.663	24.299	34.600	1.00	51.02		C0
ANISOU12197 CD1 ILE D 173	6250	7300	5840	-730	370	-1620	C0
ATOM 12198 H ILE D 173	-21.947	25.571	38.747	1.00	54.37		H0
ANISOU12198 H ILE D 173	6710	8130	5810	-640	280	-2110	H0
ATOM 12199 HA ILE D 173	-19.567	24.352	38.072	1.00	53.86		H0
ANISOU12199 HA ILE D 173	6430	8210	5820	-860	160	-1960	H0
ATOM 12200 HB ILE D 173	-21.218	26.152	36.631	1.00	54.11		H0
ANISOU12200 HB ILE D 173	6740	7740	6080	-800	300	-2030	H0
ATOM 12201 HG12 ILE D 173	-20.651	23.410	36.144	1.00	51.57		H0
ANISOU12201 HG12 ILE D 173	6170	7700	5720	-750	270	-1660	H0
ATOM 12202 HG13 ILE D 173	-22.053	24.001	36.589	1.00	51.99		H0

ANISOU12202 HG13 ILE D 173	6320	7710	5730	-630	330	-1730	H0
ATOM 12203 HG21 ILE D 173	-19.048	26.722	36.052	1.00	55.37		H0
ANISOU12203 HG21 ILE D 173	6840	7830	6370	-1100	220	-2110	H0
ATOM 12204 HG22 ILE D 173	-19.703	25.985	34.812	1.00	53.16		H0
ANISOU12204 HG22 ILE D 173	6560	7460	6180	-1000	290	-1890	H0
ATOM 12205 HG23 ILE D 173	-18.687	25.206	35.751	1.00	53.66		H0
ANISOU12205 HG23 ILE D 173	6470	7800	6130	-1050	210	-1900	H0
ATOM 12206 HD11 ILE D 173	-22.041	25.181	34.440	1.00	51.51		H0
ANISOU12206 HD11 ILE D 173	6400	7230	5940	-720	390	-1700	H0
ATOM 12207 HD12 ILE D 173	-22.327	23.620	34.393	1.00	49.95		H0
ANISOU12207 HD12 ILE D 173	6090	7200	5690	-650	390	-1510	H0
ATOM 12208 HD13 ILE D 173	-20.885	24.172	34.030	1.00	50.62		H0
ANISOU12208 HD13 ILE D 173	6170	7220	5850	-810	350	-1590	H0
ATOM 12209 N LEU D 174	-17.902	26.028	38.782	1.00	57.22		N0
ANISOU12209 N LEU D 174	6870	8630	6240	-1130	40	-2300	N0
ATOM 12210 CA LEU D 174	-16.876	27.016	39.211	1.00	60.45		C0
ANISOU12210 CA LEU D 174	7290	9040	6640	-1320	-40	-2520	C0
ATOM 12211 C LEU D 174	-16.213	27.643	37.978	1.00	60.89		C0
ANISOU12211 C LEU D 174	7370	8860	6910	-1490	-20	-2500	C0
ATOM 12212 O LEU D 174	-15.994	28.867	37.989	1.00	62.81		O0
ANISOU12212 O LEU D 174	7730	8920	7220	-1630	-20	-2680	O0
ATOM 12213 CB LEU D 174	-15.851	26.313	40.108	1.00	61.42		C0
ANISOU12213 CB LEU D 174	7230	9500	6610	-1370	-160	-2520	C0
ATOM 12214 CG LEU D 174	-16.419	25.670	41.373	1.00	61.92		C0
ANISOU12214 CG LEU D 174	7260	9820	6450	-1220	-190	-2520	C0
ATOM 12215 CD1 LEU D 174	-15.300	25.105	42.236	1.00	63.82		C0
ANISOU12215 CD1 LEU D 174	7320	10400	6530	-1270	-310	-2520	C0
ATOM 12216 CD2 LEU D 174	-17.251	26.667	42.168	1.00	63.20		C0
ANISOU12216 CD2 LEU D 174	7580	9920	6510	-1180	-160	-2740	C0
ATOM 12217 H LEU D 174	-17.570	25.186	38.677	1.00	56.61		H0
ANISOU12217 H LEU D 174	6690	8670	6140	-1110	20	-2180	H0
ATOM 12218 HA LEU D 174	-17.325	27.728	39.722	1.00	61.52		H0
ANISOU12218 HA LEU D 174	7530	9110	6730	-1310	-40	-2670	H0
ATOM 12219 HB2 LEU D 174	-15.404	25.621	39.581	1.00	60.40		H0
ANISOU12219 HB2 LEU D 174	7000	9420	6540	-1370	-160	-2370	H0
ATOM 12220 HB3 LEU D 174	-15.173	26.968	40.371	1.00	63.07		H0
ANISOU12220 HB3 LEU D 174	7430	9720	6820	-1510	-220	-2670	H0
ATOM 12221 HG LEU D 174	-17.007	24.923	41.102	1.00	60.40		H0
ANISOU12221 HG LEU D 174	7050	9630	6260	-1090	-130	-2350	H0
ATOM 12222 HD11 LEU D 174	-14.790	24.455	41.722	1.00	62.76		H0
ANISOU12222 HD11 LEU D 174	7080	10300	6460	-1270	-320	-2370	H0
ATOM 12223 HD12 LEU D 174	-15.680	24.671	43.019	1.00	63.95		H0
ANISOU12223 HD12 LEU D 174	7320	10580	6400	-1170	-330	-2500	H0
ATOM 12224 HD13 LEU D 174	-14.712	25.826	42.519	1.00	65.31		H0
ANISOU12224 HD13 LEU D 174	7510	10600	6710	-1410	-380	-2680	H0
ATOM 12225 HD21 LEU D 174	-16.798	27.529	42.185	1.00	64.67		H0
ANISOU12225 HD21 LEU D 174	7820	10010	6740	-1310	-200	-2900	H0
ATOM 12226 HD22 LEU D 174	-17.365	26.344	43.079	1.00	64.05		H0
ANISOU12226 HD22 LEU D 174	7650	10230	6450	-1120	-200	-2770	H0
ATOM 12227 HD23 LEU D 174	-18.124	26.769	41.751	1.00	62.29		H0
ANISOU12227 HD23 LEU D 174	7560	9650	6460	-1090	-80	-2690	H0
ATOM 12228 N ASP D 175	-15.904	26.840	36.957	1.00	59.95		N0
ANISOU12228 N ASP D 175	7160	8730	6890	-1470	20	-2290	N0
ATOM 12229 CA ASP D 175	-15.307	27.321	35.682	1.00	60.67		C0

ANISOU12229	CA	ASP D 175	7270	8620	7160	-1610	60	-2240	C0
ATOM 12230	C	ASP D 175	-15.407	26.218	34.622	1.00	58.65		C0
ANISOU12230	C	ASP D 175	6940	8370	6970	-1520	120	-2000	C0
ATOM 12231	O	ASP D 175	-15.331	25.026	34.987	1.00	56.57		O0
ANISOU12231	O	ASP D 175	6560	8320	6610	-1410	90	-1890	O0
ATOM 12232	CB	ASP D 175	-13.857	27.776	35.887	1.00	63.33		C0
ANISOU12232	CB	ASP D 175	7490	9050	7520	-1850	-20	-2350	C0
ATOM 12233	CG	ASP D 175	-13.286	28.650	34.776	1.00	64.54		C0
ANISOU12233	CG	ASP D 175	7700	8970	7860	-2030	30	-2350	C0
ATOM 12234	OD1	ASP D 175	-13.997	28.901	33.775	1.00	64.30		O0
ANISOU12234	OD1	ASP D 175	7800	8700	7940	-1970	130	-2250	O0
ATOM 12235	OD2	ASP D 175	-12.125	29.074	34.918	1.00	66.29		O0
ANISOU12235	OD2	ASP D 175	7820	9270	8100	-2240	-30	-2440	O0
ATOM 12236	H	ASP D 175	-16.034	25.938	36.985	1.00	58.87		H0
ANISOU12236	H	ASP D 175	6950	8720	6700	-1380	20	-2170	H0
ATOM 12237	HA	ASP D 175	-15.832	28.097	35.375	1.00	60.96		H0
ANISOU12237	HA	ASP D 175	7440	8450	7270	-1620	110	-2300	H0
ATOM 12238	HB2	ASP D 175	-13.795	28.278	36.724	1.00	64.80		H0
ANISOU12238	HB2	ASP D 175	7710	9280	7630	-1900	-70	-2510	H0
ATOM 12239	HB3	ASP D 175	-13.288	26.983	35.968	1.00	62.94		H0
ANISOU12239	HB3	ASP D 175	7290	9200	7420	-1830	-50	-2260	H0
ATOM 12240	N	VAL D 176	-15.599	26.627	33.365	1.00	58.73		N0
ANISOU12240	N	VAL D 176	7040	8150	7130	-1550	200	-1920	N0
ATOM 12241	CA	VAL D 176	-15.494	25.772	32.148	1.00	57.89		C0
ANISOU12241	CA	VAL D 176	6880	8030	7090	-1500	260	-1720	C0
ATOM 12242	C	VAL D 176	-14.438	26.404	31.233	1.00	59.57		C0
ANISOU12242	C	VAL D 176	7060	8140	7430	-1690	290	-1720	C0
ATOM 12243	O	VAL D 176	-14.677	27.534	30.766	1.00	62.02		O0
ANISOU12243	O	VAL D 176	7510	8220	7830	-1780	330	-1770	O0
ATOM 12244	CB	VAL D 176	-16.853	25.635	31.434	1.00	56.92		C0
ANISOU12244	CB	VAL D 176	6880	7740	7000	-1350	340	-1620	C0
ATOM 12245	CG1	VAL D 176	-16.752	24.759	30.193	1.00	55.61		C0
ANISOU12245	CG1	VAL D 176	6670	7570	6890	-1320	390	-1440	C0
ATOM 12246	CG2	VAL D 176	-17.937	25.112	32.367	1.00	56.08		C0
ANISOU12246	CG2	VAL D 176	6790	7740	6780	-1190	320	-1630	C0
ATOM 12247	H	VAL D 176	-15.816	27.490	33.169	1.00	59.44		H0
ANISOU12247	H	VAL D 176	7240	8070	7280	-1600	220	-1990	H0
ATOM 12248	HA	VAL D 176	-15.190	24.889	32.413	1.00	57.47		H0
ANISOU12248	HA	VAL D 176	6710	8140	6980	-1450	230	-1660	H0
ATOM 12249	HB	VAL D 176	-17.124	26.540	31.140	1.00	57.41		H0
ANISOU12249	HB	VAL D 176	7050	7630	7130	-1390	360	-1670	H0
ATOM 12250	HG11	VAL D 176	-16.301	25.249	29.484	1.00	55.94		H0
ANISOU12250	HG11	VAL D 176	6730	7510	7010	-1410	420	-1430	H0
ATOM 12251	HG12	VAL D 176	-17.645	24.511	29.896	1.00	54.59		H0
ANISOU12251	HG12	VAL D 176	6600	7380	6760	-1220	420	-1380	H0
ATOM 12252	HG13	VAL D 176	-16.247	23.955	30.404	1.00	55.26		H0
ANISOU12252	HG13	VAL D 176	6520	7670	6800	-1300	370	-1390	H0
ATOM 12253	HG21	VAL D 176	-17.655	24.263	32.749	1.00	55.78		H0
ANISOU12253	HG21	VAL D 176	6660	7860	6670	-1150	290	-1580	H0
ATOM 12254	HG22	VAL D 176	-18.762	24.984	31.868	1.00	55.24		H0
ANISOU12254	HG22	VAL D 176	6750	7550	6690	-1100	370	-1550	H0
ATOM 12255	HG23	VAL D 176	-18.089	25.755	33.082	1.00	57.21		H0
ANISOU12255	HG23	VAL D 176	6980	7870	6880	-1200	300	-1750	H0
ATOM 12256	N	THR D 177	-13.304	25.724	31.025	1.00	59.26		N0

ANISOU12256	N	THR D 177	6840	8280	7390	-1750	270	-1650	N0
ATOM 12257	CA	THR D 177	-12.233	26.122	30.071	1.00	60.21		C0
ANISOU12257	CA	THR D 177	6900	8360	7620	-1920	310	-1610	C0
ATOM 12258	C	THR D 177	-12.150	25.081	28.948	1.00	58.29		C0
ANISOU12258	C	THR D 177	6600	8150	7400	-1810	380	-1420	C0
ATOM 12259	O	THR D 177	-12.282	23.876	29.236	1.00	56.54		O0
ANISOU12259	O	THR D 177	6300	8090	7100	-1660	370	-1350	O0
ATOM 12260	CB	THR D 177	-10.881	26.301	30.773	1.00	62.65		C0
ANISOU12260	CB	THR D 177	7020	8880	7900	-2090	230	-1710	C0
ATOM 12261	OG1	THR D 177	-10.632	25.136	31.561	1.00	63.04		O0
ANISOU12261	OG1	THR D 177	6920	9210	7830	-1950	160	-1670	O0
ATOM 12262	CG2	THR D 177	-10.824	27.534	31.648	1.00	64.47		C0
ANISOU12262	CG2	THR D 177	7330	9040	8130	-2250	160	-1920	C0
ATOM 12263	H	THR D 177	-13.104	24.953	31.466	1.00	59.07		H0
ANISOU12263	H	THR D 177	6720	8430	7290	-1680	230	-1620	H0
ATOM 12264	HA	THR D 177	-12.489	26.986	29.673	1.00	60.70		H0
ANISOU12264	HA	THR D 177	7080	8240	7750	-1990	350	-1640	H0
ATOM 12265	HB	THR D 177	-10.180	26.372	30.081	1.00	63.12		H0
ANISOU12265	HB	THR D 177	7010	8940	8030	-2180	260	-1650	H0
ATOM 12266	HG21	THR D 177	-10.986	28.327	31.105	1.00	64.99		H0
ANISOU12266	HG21	THR D 177	7510	8900	8290	-2340	210	-1930	H0
ATOM 12267	HG22	THR D 177	-9.945	27.600	32.062	1.00	65.92		H0
ANISOU12267	HG22	THR D 177	7380	9370	8290	-2370	100	-1980	H0
ATOM 12268	HG23	THR D 177	-11.505	27.473	32.342	1.00	64.23		H0
ANISOU12268	HG23	THR D 177	7370	9010	8020	-2150	130	-1980	H0
ATOM 12269	N	GLN D 178	-11.949	25.542	27.714	1.00	58.81		N0
ANISOU12269	N	GLN D 178	6710	8070	7560	-1900	470	-1350	N0
ATOM 12270	CA	GLN D 178	-11.864	24.690	26.501	1.00	58.90		C0
ANISOU12270	CA	GLN D 178	6690	8090	7590	-1810	550	-1190	C0
ATOM 12271	C	GLN D 178	-10.467	24.822	25.885	1.00	60.42		C0
ANISOU12271	C	GLN D 178	6730	8380	7840	-1960	600	-1150	C0
ATOM 12272	O	GLN D 178	-10.051	25.961	25.602	1.00	63.12		O0
ANISOU12272	O	GLN D 178	7110	8610	8260	-2150	620	-1190	O0
ATOM 12273	CB	GLN D 178	-12.961	25.091	25.518	1.00	58.46		C0
ANISOU12273	CB	GLN D 178	6830	7800	7580	-1760	620	-1120	C0
ATOM 12274	CG	GLN D 178	-14.359	24.881	26.075	1.00	57.97		C0
ANISOU12274	CG	GLN D 178	6890	7680	7460	-1600	590	-1140	C0
ATOM 12275	CD	GLN D 178	-15.392	24.824	24.980	1.00	57.82		C0
ANISOU12275	CD	GLN D 178	7000	7510	7460	-1510	650	-1030	C0
ATOM 12276	OE1	GLN D 178	-16.264	23.955	24.965	1.00	56.95		O0
ANISOU12276	OE1	GLN D 178	6910	7440	7290	-1360	650	-980	O0
ATOM 12277	NE2	GLN D 178	-15.282	25.746	24.037	1.00	58.69		N0
ANISOU12277	NE2	GLN D 178	7200	7460	7640	-1600	710	-990	N0
ATOM 12278	H	GLN D 178	-11.847	26.430	27.537	1.00	59.97		H0
ANISOU12278	H	GLN D 178	6920	8090	7770	-2010	480	-1400	H0
ATOM 12279	HA	GLN D 178	-12.005	23.753	26.766	1.00	57.87		H0
ANISOU12279	HA	GLN D 178	6510	8070	7400	-1690	540	-1150	H0
ATOM 12280	HB2	GLN D 178	-12.844	26.035	25.284	1.00	59.50		H0
ANISOU12280	HB2	GLN D 178	7030	7810	7770	-1870	640	-1150	H0
ATOM 12281	HB3	GLN D 178	-12.856	24.561	24.701	1.00	57.89		H0
ANISOU12281	HB3	GLN D 178	6740	7750	7510	-1720	680	-1020	H0
ATOM 12282	HG2	GLN D 178	-14.384	24.044	26.586	1.00	57.41		H0
ANISOU12282	HG2	GLN D 178	6750	7740	7330	-1520	560	-1130	H0
ATOM 12283	HG3	GLN D 178	-14.578	25.616	26.687	1.00	58.76		H0

ANISOU12283	HG3	GLN	D	178	7050	7710	7570	-1640	560	-1230	H0
ATOM	12284	HE21	GLN	D	178	-15.395	25.527	23.188	1.00	58.23	H0
ANISOU12284	HE21	GLN	D	178	7170	7370	7580	-1580	760	-910	H0
ATOM	12285	HE22	GLN	D	178	-15.095	26.582	24.256	1.00	59.70	H0
ANISOU12285	HE22	GLN	D	178	7370	7500	7810	-1690	710	-1050	H0
ATOM	12286	N	LYS	D	179	-9.771	23.697	25.704	1.00	59.93	N0
ANISOU12286	N	LYS	D	179	6510	8520	7740	-1870	610	-1070	N0
ATOM	12287	CA	LYS	D	179	-8.420	23.638	25.090	1.00	61.33	C0
ANISOU12287	CA	LYS	D	179	6500	8840	7960	-1980	670	-1020	C0
ATOM	12288	C	LYS	D	179	-8.475	22.800	23.805	1.00	58.84	C0
ANISOU12288	C	LYS	D	179	6200	8510	7640	-1850	780	-890	C0
ATOM	12289	O	LYS	D	179	-9.106	21.729	23.809	1.00	54.80	O0
ANISOU12289	O	LYS	D	179	5740	8010	7070	-1660	780	-840	O0
ATOM	12290	CB	LYS	D	179	-7.406	23.044	26.070	1.00	63.96	C0
ANISOU12290	CB	LYS	D	179	6600	9460	8240	-1970	580	-1060	C0
ATOM	12291	CG	LYS	D	179	-5.955	23.170	25.625	1.00	67.79	C0
ANISOU12291	CG	LYS	D	179	6860	10130	8770	-2100	620	-1030	C0
ATOM	12292	CD	LYS	D	179	-5.045	22.090	26.169	1.00	69.67	C0
ANISOU12292	CD	LYS	D	179	6850	10670	8950	-1970	580	-990	C0
ATOM	12293	CE	LYS	D	179	-4.787	22.220	27.654	1.00	71.56	C0
ANISOU12293	CE	LYS	D	179	6980	11090	9120	-2010	430	-1100	C0
ATOM	12294	NZ	LYS	D	179	-3.437	21.719	28.007	1.00	73.87	N0
ANISOU12294	NZ	LYS	D	179	6970	11710	9390	-2010	390	-1070	N0
ATOM	12295	H	LYS	D	179	-10.091	22.880	25.951	1.00	59.03	H0
ANISOU12295	H	LYS	D	179	6380	8470	7580	-1740	590	-1040	H0
ATOM	12296	HA	LYS	D	179	-8.140	24.553	24.859	1.00	62.41	H0
ANISOU12296	HA	LYS	D	179	6660	8900	8150	-2140	680	-1050	H0
ATOM	12297	HB2	LYS	D	179	-7.509	23.493	26.935	1.00	64.57	H0
ANISOU12297	HB2	LYS	D	179	6680	9550	8300	-2030	500	-1150	H0
ATOM	12298	HB3	LYS	D	179	-7.614	22.095	26.197	1.00	63.09	H0
ANISOU12298	HB3	LYS	D	179	6470	9420	8080	-1800	580	-1010	H0
ATOM	12299	HG2	LYS	D	179	-5.921	23.146	24.646	1.00	67.34	H0
ANISOU12299	HG2	LYS	D	179	6830	10000	8750	-2100	720	-950	H0
ATOM	12300	HG3	LYS	D	179	-5.615	24.044	25.912	1.00	68.93	H0
ANISOU12300	HG3	LYS	D	179	6980	10260	8950	-2280	590	-1100	H0
ATOM	12301	HD2	LYS	D	179	-5.448	21.214	25.993	1.00	68.30	H0
ANISOU12301	HD2	LYS	D	179	6720	10490	8740	-1790	610	-920	H0
ATOM	12302	HD3	LYS	D	179	-4.187	22.128	25.694	1.00	70.74	H0
ANISOU12302	HD3	LYS	D	179	6840	10920	9110	-2040	630	-950	H0
ATOM	12303	HE2	LYS	D	179	-4.860	23.156	27.921	1.00	72.19	H0
ANISOU12303	HE2	LYS	D	179	7110	11090	9230	-2180	390	-1190	H0
ATOM	12304	HE3	LYS	D	179	-5.456	21.710	28.149	1.00	70.32	H0
ANISOU12304	HE3	LYS	D	179	6910	10910	8910	-1870	390	-1100	H0
ATOM	12305	HZ1	LYS	D	179	-3.327	20.879	27.685	1.00	73.22	H0
ANISOU12305	HZ1	LYS	D	179	6840	11690	9290	-1850	440	-980	H0
ATOM	12306	HZ2	LYS	D	179	-3.339	21.708	28.908	1.00	74.34	H0
ANISOU12306	HZ2	LYS	D	179	6970	11890	9390	-2010	290	-1120	H0
ATOM	12307	HZ3	LYS	D	179	-2.805	22.261	27.646	1.00	75.00	H0
ANISOU12307	HZ3	LYS	D	179	7020	11890	9580	-2160	420	-1080	H0
ATOM	12308	N	LYS	D	180	-7.823	23.286	22.750	1.00	58.75	N0
ANISOU12308	N	LYS	D	180	6160	8480	7680	-1980	880	-830	N0
ATOM	12309	CA	LYS	D	180	-7.587	22.539	21.493	1.00	57.77	C0
ANISOU12309	CA	LYS	D	180	6020	8390	7540	-1880	990	-710	C0
ATOM	12310	C	LYS	D	180	-6.273	21.770	21.628	1.00	57.96	C0

ANISOU12310	C	LYS D 180	5780	8690	7550	-1840	1010	-690	C0
ATOM 12311	O	LYS D 180	-5.282	22.379	22.059	1.00	59.26		O0
ANISOU12311	O	LYS D 180	5780	8990	7750	-2010	990	-720	O0
ATOM 12312	CB	LYS D 180	-7.508	23.500	20.306	1.00	59.10		C0
ANISOU12312	CB	LYS D 180	6270	8430	7760	-2030	1100	-640	C0
ATOM 12313	CG	LYS D 180	-7.496	22.826	18.942	1.00	58.65		C0
ANISOU12313	CG	LYS D 180	6250	8380	7650	-1920	1220	-530	C0
ATOM 12314	CD	LYS D 180	-6.430	23.356	18.026	1.00	60.37		C0
ANISOU12314	CD	LYS D 180	6360	8680	7900	-2070	1340	-460	C0
ATOM 12315	CE	LYS D 180	-6.446	22.691	16.669	1.00	60.30		C0
ANISOU12315	CE	LYS D 180	6390	8700	7820	-1960	1470	-360	C0
ATOM 12316	NZ	LYS D 180	-7.572	23.185	15.846	1.00	59.96		N0
ANISOU12316	NZ	LYS D 180	6590	8440	7750	-1950	1500	-310	N0
ATOM 12317	H	LYS D 180	-7.474	24.128	22.740	1.00	60.02		H0
ANISOU12317	H	LYS D 180	6310	8600	7890	-2130	880	-850	H0
ATOM 12318	HA	LYS D 180	-8.326	21.904	21.352	1.00	56.40		H0
ANISOU12318	HA	LYS D 180	5940	8160	7320	-1730	990	-690	H0
ATOM 12319	HB2	LYS D 180	-8.274	24.109	20.346	1.00	58.50		H0
ANISOU12319	HB2	LYS D 180	6350	8180	7700	-2060	1080	-660	H0
ATOM 12320	HB3	LYS D 180	-6.694	24.039	20.396	1.00	60.48		H0
ANISOU12320	HB3	LYS D 180	6340	8670	7980	-2180	1110	-660	H0
ATOM 12321	HG2	LYS D 180	-7.362	21.861	19.064	1.00	58.09		H0
ANISOU12321	HG2	LYS D 180	6110	8420	7540	-1780	1220	-530	H0
ATOM 12322	HG3	LYS D 180	-8.371	22.956	18.521	1.00	57.67		H0
ANISOU12322	HG3	LYS D 180	6290	8110	7510	-1880	1230	-510	H0
ATOM 12323	HD2	LYS D 180	-6.557	24.322	17.910	1.00	61.10		H0
ANISOU12323	HD2	LYS D 180	6520	8650	8040	-2220	1350	-450	H0
ATOM 12324	HD3	LYS D 180	-5.552	23.214	18.439	1.00	61.49		H0
ANISOU12324	HD3	LYS D 180	6320	8980	8060	-2120	1330	-480	H0
ATOM 12325	HE2	LYS D 180	-5.607	22.873	16.204	1.00	61.78		H0
ANISOU12325	HE2	LYS D 180	6460	8990	8020	-2040	1550	-320	H0
ATOM 12326	HE3	LYS D 180	-6.529	21.725	16.778	1.00	59.59		H0
ANISOU12326	HE3	LYS D 180	6270	8680	7690	-1800	1460	-380	H0
ATOM 12327	HZ1	LYS D 180	-8.358	22.886	16.187	1.00	58.51		H0
ANISOU12327	HZ1	LYS D 180	6500	8180	7550	-1860	1430	-340	H0
ATOM 12328	HZ2	LYS D 180	-7.485	22.885	14.995	1.00	59.96		H0
ANISOU12328	HZ2	LYS D 180	6610	8470	7700	-1910	1580	-250	H0
ATOM 12329	HZ3	LYS D 180	-7.575	24.091	15.840	1.00	60.51		H0
ANISOU12329	HZ3	LYS D 180	6700	8420	7870	-2090	1500	-290	H0
ATOM 12330	N	ASN D 181	-6.276	20.483	21.274	1.00	57.01		N0
ANISOU12330	N	ASN D 181	5640	8650	7370	-1630	1060	-630	N0
ATOM 12331	CA	ASN D 181	-5.056	19.639	21.180	1.00	57.86		C0
ANISOU12331	CA	ASN D 181	5510	9010	7470	-1540	1110	-580	C0
ATOM 12332	C	ASN D 181	-4.933	19.118	19.747	1.00	58.14		C0
ANISOU12332	C	ASN D 181	5590	9020	7480	-1450	1260	-500	C0
ATOM 12333	O	ASN D 181	-5.970	18.965	19.068	1.00	56.34		O0
ANISOU12333	O	ASN D 181	5580	8600	7220	-1380	1290	-480	O0
ATOM 12334	CB	ASN D 181	-5.077	18.488	22.186	1.00	57.26		C0
ANISOU12334	CB	ASN D 181	5370	9050	7340	-1330	1020	-590	C0
ATOM 12335	CG	ASN D 181	-5.285	18.966	23.608	1.00	57.30		C0
ANISOU12335	CG	ASN D 181	5350	9090	7340	-1410	870	-670	C0
ATOM 12336	OD1	ASN D 181	-4.379	19.518	24.223	1.00	58.86		O0
ANISOU12336	OD1	ASN D 181	5360	9460	7550	-1540	820	-720	O0
ATOM 12337	ND2	ASN D 181	-6.477	18.759	24.140	1.00	56.25		N0

ANISOU12337	ND2 ASN D 181	5400	8810	7170	-1330	810	-700	N0
ATOM 12338	H ASN D 181	-7.042	20.037	21.064	1.00	55.69		H0
ANISOU12338	H ASN D 181	5600	8380	7180	-1520	1060	-610	H0
ATOM 12339	HA ASN D 181	-4.270	20.199	21.380	1.00	59.42		H0
ANISOU12339	HA ASN D 181	5570	9320	7700	-1670	1100	-600	H0
ATOM 12340	HB2 ASN D 181	-5.797	17.870	21.947	1.00	56.03		H0
ANISOU12340	HB2 ASN D 181	5350	8780	7160	-1200	1040	-570	H0
ATOM 12341	HB3 ASN D 181	-4.229	18.003	22.132	1.00	58.37		H0
ANISOU12341	HB3 ASN D 181	5350	9350	7480	-1270	1060	-560	H0
ATOM 12342	HD21 ASN D 181	-6.554	18.631	25.013	1.00	56.09		H0
ANISOU12342	HD21 ASN D 181	5340	8850	7120	-1300	730	-730	H0
ATOM 12343	HD22 ASN D 181	-7.197	18.750	23.623	1.00	55.00		H0
ANISOU12343	HD22 ASN D 181	5380	8500	7020	-1300	850	-690	H0
ATOM 12344	N SER D 182	-3.698	18.885	19.308	1.00	60.64		N0
ANISOU12344	N SER D 182	5700	9550	7800	-1440	1350	-460	N0
ATOM 12345	CA SER D 182	-3.352	18.225	18.026	1.00	61.48		C0
ANISOU12345	CA SER D 182	5800	9700	7860	-1320	1510	-390	C0
ATOM 12346	C SER D 182	-2.365	17.099	18.338	1.00	62.70		C0
ANISOU12346	C SER D 182	5740	10090	8000	-1120	1530	-370	C0
ATOM 12347	O SER D 182	-1.210	17.406	18.672	1.00	64.44		O0
ANISOU12347	O SER D 182	5690	10540	8250	-1210	1530	-360	O0
ATOM 12348	CB SER D 182	-2.802	19.217	17.036	1.00	62.85		C0
ANISOU12348	CB SER D 182	5930	9890	8060	-1520	1620	-340	C0
ATOM 12349	OG SER D 182	-2.636	18.618	15.761	1.00	63.65		O0
ANISOU12349	OG SER D 182	6070	10020	8090	-1400	1770	-280	O0
ATOM 12350	H SER D 182	-2.956	19.127	19.778	1.00	61.78		H0
ANISOU12350	H SER D 182	5670	9840	7970	-1520	1320	-470	H0
ATOM 12351	HA SER D 182	-4.179	17.822	17.647	1.00	60.09		H0
ANISOU12351	HA SER D 182	5800	9380	7650	-1230	1520	-390	H0
ATOM 12352	HB2 SER D 182	-3.419	19.980	16.962	1.00	62.36		H0
ANISOU12352	HB2 SER D 182	6000	9670	8020	-1650	1590	-350	H0
ATOM 12353	HB3 SER D 182	-1.936	19.554	17.357	1.00	64.45		H0
ANISOU12353	HB3 SER D 182	5940	10250	8300	-1620	1620	-340	H0
ATOM 12354	N VAL D 183	-2.828	15.849	18.286	1.00	62.58		N0
ANISOU12354	N VAL D 183	5830	10010	7940	-870	1540	-370	N0
ATOM 12355	CA VAL D 183	-2.057	14.661	18.753	1.00	64.57		C0
ANISOU12355	CA VAL D 183	5910	10440	8180	-630	1550	-340	C0
ATOM 12356	C VAL D 183	-1.904	13.678	17.589	1.00	65.28		C0
ANISOU12356	C VAL D 183	6070	10510	8220	-430	1710	-320	C0
ATOM 12357	O VAL D 183	-2.869	13.520	16.822	1.00	64.19		O0
ANISOU12357	O VAL D 183	6180	10160	8050	-420	1750	-340	O0
ATOM 12358	CB VAL D 183	-2.735	13.996	19.967	1.00	63.79		C0
ANISOU12358	CB VAL D 183	5890	10270	8080	-510	1410	-360	C0
ATOM 12359	CG1 VAL D 183	-1.789	13.028	20.662	1.00	65.79		C0
ANISOU12359	CG1 VAL D 183	5930	10740	8320	-290	1400	-320	C0
ATOM 12360	CG2 VAL D 183	-3.274	15.023	20.953	1.00	62.57		C0
ANISOU12360	CG2 VAL D 183	5770	10060	7940	-710	1260	-410	C0
ATOM 12361	H VAL D 183	-3.652	15.642	17.958	1.00	61.34		H0
ANISOU12361	H VAL D 183	5860	9690	7760	-830	1550	-380	H0
ATOM 12362	HA VAL D 183	-1.170	14.957	19.023	1.00	65.99		H0
ANISOU12362	HA VAL D 183	5880	10810	8380	-690	1550	-330	H0
ATOM 12363	HB VAL D 183	-3.502	13.476	19.627	1.00	62.57		H0
ANISOU12363	HB VAL D 183	5930	9950	7900	-420	1430	-370	H0
ATOM 12364	HG11 VAL D 183	-1.569	12.297	20.058	1.00	66.16		H0

ANISOU12364 HG11 VAL D 183	6000	10780	8360	-140	1490	-290	H0
ATOM 12365 HG12 VAL D 183	-2.217	12.671	21.459	1.00	64.99		H0
ANISOU12365 HG12 VAL D 183	5880	10590	8210	-230	1310	-320	H0
ATOM 12366 HG13 VAL D 183	-0.973	13.495	20.914	1.00	67.00		H0
ANISOU12366 HG13 VAL D 183	5880	11080	8490	-380	1380	-310	H0
ATOM 12367 HG21 VAL D 183	-2.598	15.703	21.116	1.00	63.81		H0
ANISOU12367 HG21 VAL D 183	5770	10350	8120	-850	1250	-420	H0
ATOM 12368 HG22 VAL D 183	-3.500	14.583	21.791	1.00	62.32		H0
ANISOU12368 HG22 VAL D 183	5740	10040	7900	-630	1180	-410	H0
ATOM 12369 HG23 VAL D 183	-4.071	15.442	20.583	1.00	61.48		H0
ANISOU12369 HG23 VAL D 183	5800	9750	7800	-800	1270	-430	H0
ATOM 12370 N THR D 184	-0.726	13.056	17.481	1.00	68.22		N0
ANISOU12370 N THR D 184	6220	11110	8590	-280	1800	-280	N0
ATOM 12371 CA THR D 184	-0.392	11.979	16.510	1.00	70.01		C0
ANISOU12371 CA THR D 184	6480	11350	8770	-30	1960	-270	C0
ATOM 12372 C THR D 184	-0.294	10.657	17.282	1.00	70.63		C0
ANISOU12372 C THR D 184	6550	11430	8860	260	1920	-260	C0
ATOM 12373 O THR D 184	0.588	10.559	18.154	1.00	73.11		O0
ANISOU12373 O THR D 184	6600	11970	9200	320	1860	-210	O0
ATOM 12374 CB THR D 184	0.899	12.317	15.752	1.00	72.94		C0
ANISOU12374 CB THR D 184	6590	11990	9130	-60	2110	-230	C0
ATOM 12375 OG1 THR D 184	0.790	13.653	15.260	1.00	72.66		O0
ANISOU12375 OG1 THR D 184	6570	11940	9100	-360	2120	-220	O0
ATOM 12376 CG2 THR D 184	1.182	11.376	14.602	1.00	74.50		C0
ANISOU12376 CG2 THR D 184	6850	12190	9260	170	2290	-240	C0
ATOM 12377 H THR D 184	-0.018	13.259	18.017	1.00	69.30		H0
ANISOU12377 H THR D 184	6150	11420	8750	-300	1760	-260	H0
ATOM 12378 HA THR D 184	-1.128	11.912	15.861	1.00	68.98		H0
ANISOU12378 HA THR D 184	6560	11050	8610	-40	1990	-300	H0
ATOM 12379 HB THR D 184	1.652	12.274	16.390	1.00	74.14		H0
ANISOU12379 HB THR D 184	6520	12330	9320	-20	2070	-200	H0
ATOM 12380 HG21 THR D 184	1.384	10.488	14.948	1.00	74.90		H0
ANISOU12380 HG21 THR D 184	6880	12260	9320	390	2290	-240	H0
ATOM 12381 HG22 THR D 184	1.944	11.705	14.092	1.00	75.93		H0
ANISOU12381 HG22 THR D 184	6870	12540	9430	130	2390	-210	H0
ATOM 12382 HG23 THR D 184	0.401	11.327	14.021	1.00	73.21		H0
ANISOU12382 HG23 THR D 184	6910	11840	9060	150	2320	-270	H0
ATOM 12383 N TYR D 185	-1.183	9.699	16.991	1.00	69.38		N0
ANISOU12383 N TYR D 185	6660	11030	8680	420	1940	-290	N0
ATOM 12384 CA TYR D 185	-1.299	8.389	17.689	1.00	69.37		C0
ANISOU12384 CA TYR D 185	6720	10950	8690	690	1900	-270	C0
ATOM 12385 C TYR D 185	-0.576	7.308	16.874	1.00	72.62		C0
ANISOU12385 C TYR D 185	7110	11400	9080	970	2070	-270	C0
ATOM 12386 O TYR D 185	-0.061	7.626	15.785	1.00	72.67		O0
ANISOU12386 O TYR D 185	7060	11500	9050	940	2210	-300	O0
ATOM 12387 CB TYR D 185	-2.773	8.055	17.932	1.00	66.45		C0
ANISOU12387 CB TYR D 185	6660	10270	8320	650	1810	-310	C0
ATOM 12388 CG TYR D 185	-3.538	9.120	18.680	1.00	63.43		C0
ANISOU12388 CG TYR D 185	6300	9850	7950	400	1660	-320	C0
ATOM 12389 CD1 TYR D 185	-4.111	10.189	18.011	1.00	61.69		C0
ANISOU12389 CD1 TYR D 185	6170	9560	7710	160	1670	-360	C0
ATOM 12390 CD2 TYR D 185	-3.690	9.062	20.056	1.00	62.58		C0
ANISOU12390 CD2 TYR D 185	6130	9780	7860	410	1520	-280	C0
ATOM 12391 CE1 TYR D 185	-4.817	11.171	18.687	1.00	60.08		C0

ANISOU12391	CE1 TYR D 185	6000	9300	7520	-40	1540	-370	C0
ATOM 12392	CE2 TYR D 185	-4.395	10.034	20.748	1.00	60.69		C0
ANISOU12392	CE2 TYR D 185	5930	9500	7630	190	1390	-300	C0
ATOM 12393	CZ TYR D 185	-4.960	11.093	20.061	1.00	59.57		C0
ANISOU12393	CZ TYR D 185	5880	9270	7480	-30	1400	-350	C0
ATOM 12394	OH TYR D 185	-5.657	12.057	20.728	1.00	57.77		O0
ANISOU12394	OH TYR D 185	5700	8990	7260	-220	1290	-380	O0
ATOM 12395	H TYR D 185	-1.796	9.784	16.322	1.00	68.48		H0
ANISOU12395	H TYR D 185	6720	10770	8530	360	1970	-330	H0
ATOM 12396	HA TYR D 185	-0.849	8.462	18.569	1.00	70.06		H0
ANISOU12396	HA TYR D 185	6640	11170	8800	700	1820	-230	H0
ATOM 12397	HB2 TYR D 185	-3.203	7.906	17.065	1.00	65.97		H0
ANISOU12397	HB2 TYR D 185	6760	10090	8220	640	1880	-360	H0
ATOM 12398	HB3 TYR D 185	-2.822	7.218	18.438	1.00	66.66		H0
ANISOU12398	HB3 TYR D 185	6720	10250	8360	810	1790	-280	H0
ATOM 12399	HD1 TYR D 185	-4.020	10.250	17.075	1.00	62.14		H0
ANISOU12399	HD1 TYR D 185	6270	9600	7740	150	1760	-380	H0
ATOM 12400	HD2 TYR D 185	-3.310	8.343	20.532	1.00	63.50		H0
ANISOU12400	HD2 TYR D 185	6190	9950	7990	570	1510	-240	H0
ATOM 12401	HE1 TYR D 185	-5.201	11.890	18.213	1.00	59.45		H0
ANISOU12401	HE1 TYR D 185	5990	9160	7440	-190	1550	-390	H0
ATOM 12402	HE2 TYR D 185	-4.488	9.976	21.684	1.00	60.67		H0
ANISOU12402	HE2 TYR D 185	5880	9540	7630	210	1300	-280	H0
ATOM 12403	N SER D 186	-0.535	6.074	17.393	1.00	74.79		N0
ANISOU12403	N SER D 186	7440	11590	9380	1240	2070	-240	N0
ATOM 12404	CA SER D 186	0.300	4.952	16.880	1.00	78.20		C0
ANISOU12404	CA SER D 186	7830	12070	9810	1560	2220	-240	C0
ATOM 12405	C SER D 186	-0.433	4.152	15.792	1.00	79.13		C0
ANISOU12405	C SER D 186	8280	11900	9880	1650	2340	-340	C0
ATOM 12406	O SER D 186	0.209	3.269	15.190	1.00	81.90		O0
ANISOU12406	O SER D 186	8640	12260	10220	1920	2490	-360	O0
ATOM 12407	CB SER D 186	0.734	4.050	18.005	1.00	79.14		C0
ANISOU12407	CB SER D 186	7860	12240	9980	1820	2160	-140	C0
ATOM 12408	OG SER D 186	-0.391	3.458	18.634	1.00	78.06		O0
ANISOU12408	OG SER D 186	7990	11810	9860	1830	2050	-140	O0
ATOM 12409	H SER D 186	-1.028	5.828	18.118	1.00	73.82		H0
ANISOU12409	H SER D 186	7400	11370	9280	1250	1970	-220	H0
ATOM 12410	HA SER D 186	1.116	5.347	16.471	1.00	79.43		H0
ANISOU12410	HA SER D 186	7800	12430	9950	1550	2300	-230	H0
ATOM 12411	HB2 SER D 186	1.322	3.345	17.651	1.00	81.18		H0
ANISOU12411	HB2 SER D 186	8080	12530	10240	2050	2270	-140	H0
ATOM 12412	HB3 SER D 186	1.243	4.572	18.664	1.00	79.66		H0
ANISOU12412	HB3 SER D 186	7700	12510	10060	1760	2080	-90	H0
ATOM 12413	N CYS D 187	-1.719	4.435	15.554	1.00	77.68		N0
ANISOU12413	N CYS D 187	8360	11480	9680	1450	2270	-400	N0
ATOM 12414	CA CYS D 187	-2.571	3.765	14.531	1.00	77.45		C0
ANISOU12414	CA CYS D 187	8660	11180	9600	1480	2350	-510	C0
ATOM 12415	C CYS D 187	-2.256	4.295	13.128	1.00	77.41		C0
ANISOU12415	C CYS D 187	8640	11270	9490	1410	2490	-580	C0
ATOM 12416	O CYS D 187	-2.366	3.513	12.165	1.00	78.60		O0
ANISOU12416	O CYS D 187	8980	11300	9580	1540	2620	-680	O0
ATOM 12417	CB CYS D 187	-4.052	4.019	14.789	1.00	75.59		C0
ANISOU12417	CB CYS D 187	8660	10710	9360	1270	2210	-540	C0
ATOM 12418	SG CYS D 187	-4.532	5.753	14.552	1.00	74.81		S0

ANISOU12418	SG	CYS D 187	8490	10710	9220	910	2130	-540	S0
ATOM 12419	H	CYS D 187	-2.180	5.070	16.016	1.00	76.00		H0
ANISOU12419	H	CYS D 187	8140	11260	9480	1280	2160	-380	H0
ATOM 12420	HA	CYS D 187	-2.398	2.796	14.561	1.00	78.68		H0
ANISOU12420	HA	CYS D 187	8880	11240	9770	1690	2400	-520	H0
ATOM 12421	HB2	CYS D 187	-4.584	3.462	14.184	1.00	75.80		H0
ANISOU12421	HB2	CYS D 187	8890	10560	9350	1300	2250	-610	H0
ATOM 12422	HB3	CYS D 187	-4.268	3.758	15.708	1.00	75.27		H0
ANISOU12422	HB3	CYS D 187	8610	10620	9370	1300	2120	-490	H0
ATOM 12423	N	CYS D 188	-1.918	5.585	13.029	1.00	76.34		N0
ANISOU12423	N	CYS D 188	8320	11340	9340	1190	2470	-530	N0
ATOM 12424	CA	CYS D 188	-2.160	6.435	11.833	1.00	75.82		C0
ANISOU12424	CA	CYS D 188	8310	11310	9180	1000	2550	-580	C0
ATOM 12425	C	CYS D 188	-1.066	7.492	11.690	1.00	75.19		C0
ANISOU12425	C	CYS D 188	7930	11540	9100	880	2610	-500	C0
ATOM 12426	O	CYS D 188	-0.587	8.027	12.686	1.00	75.43		O0
ANISOU12426	O	CYS D 188	7730	11710	9220	810	2520	-430	O0
ATOM 12427	CB	CYS D 188	-3.525	7.101	11.957	1.00	74.51		C0
ANISOU12427	CB	CYS D 188	8340	10960	9010	750	2410	-590	C0
ATOM 12428	SG	CYS D 188	-4.822	5.974	12.540	1.00	75.66		S0
ANISOU12428	SG	CYS D 188	8780	10770	9190	830	2290	-650	S0
ATOM 12429	H	CYS D 188	-1.507	6.044	13.700	1.00	76.37		H0
ANISOU12429	H	CYS D 188	8140	11480	9390	1140	2410	-470	H0
ATOM 12430	HA	CYS D 188	-2.159	5.857	11.037	1.00	76.71		H0
ANISOU12430	HA	CYS D 188	8550	11370	9230	1110	2660	-640	H0
ATOM 12431	HB2	CYS D 188	-3.461	7.852	12.582	1.00	73.99		H0
ANISOU12431	HB2	CYS D 188	8150	10960	8990	620	2320	-540	H0
ATOM 12432	HB3	CYS D 188	-3.790	7.457	11.084	1.00	74.69		H0
ANISOU12432	HB3	CYS D 188	8450	10970	8960	660	2460	-630	H0
ATOM 12433	N	PRO D 189	-0.650	7.840	10.450	1.00	74.22		N0
ANISOU12433	N	PRO D 189	7780	11530	8880	850	2770	-520	N0
ATOM 12434	CA	PRO D 189	0.445	8.787	10.239	1.00	74.65		C0
ANISOU12434	CA	PRO D 189	7540	11880	8940	730	2850	-440	C0
ATOM 12435	C	PRO D 189	0.088	10.268	10.440	1.00	72.00		C0
ANISOU12435	C	PRO D 189	7160	11560	8630	390	2750	-370	C0
ATOM 12436	O	PRO D 189	0.993	11.042	10.696	1.00	72.64		O0
ANISOU12436	O	PRO D 189	6970	11870	8760	270	2770	-300	O0
ATOM 12437	CB	PRO D 189	0.814	8.552	8.768	1.00	76.75		C0
ANISOU12437	CB	PRO D 189	7860	12230	9070	820	3070	-480	C0
ATOM 12438	CG	PRO D 189	-0.490	8.144	8.123	1.00	75.51		C0
ANISOU12438	CG	PRO D 189	8080	11790	8830	810	3040	-580	C0
ATOM 12439	CD	PRO D 189	-1.204	7.332	9.184	1.00	74.44		C0
ANISOU12439	CD	PRO D 189	8070	11420	8790	910	2880	-620	C0
ATOM 12440	HA	PRO D 189	1.211	8.540	10.816	1.00	75.79		H0
ANISOU12440	HA	PRO D 189	7480	12170	9140	840	2860	-400	H0
ATOM 12441	HB2	PRO D 189	1.169	9.369	8.356	1.00	77.29		H0
ANISOU12441	HB2	PRO D 189	7810	12440	9110	670	3120	-420	H0
ATOM 12442	HB3	PRO D 189	1.480	7.841	8.687	1.00	78.46		H0
ANISOU12442	HB3	PRO D 189	7990	12540	9280	1030	3170	-490	H0
ATOM 12443	HG2	PRO D 189	-1.017	8.931	7.875	1.00	74.42		H0
ANISOU12443	HG2	PRO D 189	8000	11610	8660	610	2990	-560	H0
ATOM 12444	HG3	PRO D 189	-0.329	7.605	7.322	1.00	76.86		H0
ANISOU12444	HG3	PRO D 189	8320	11970	8910	940	3160	-640	H0
ATOM 12445	HD2	PRO D 189	-2.168	7.473	9.144	1.00	72.76		H0

ANISOU12445	HD2 PRO D 189	8050	11040	8560	800	2800	-650	H0
ATOM 12446	HD3 PRO D 189	-1.018	6.380	9.080	1.00	75.45		H0
ANISOU12446	HD3 PRO D 189	8260	11500	8900	1120	2950	-670	H0
ATOM 12447	N GLU D 190	-1.194	10.625	10.297	1.00	68.47		N0
ANISOU12447	N GLU D 190	6980	10870	8160	240	2650	-410	N0
ATOM 12448	CA GLU D 190	-1.692	12.029	10.344	1.00	66.23		C0
ANISOU12448	CA GLU D 190	6710	10550	7900	-60	2570	-350	C0
ATOM 12449	C GLU D 190	-2.216	12.336	11.754	1.00	62.99		C0
ANISOU12449	C GLU D 190	6290	10040	7600	-150	2370	-350	C0
ATOM 12450	O GLU D 190	-2.737	11.413	12.405	1.00	61.64		O0
ANISOU12450	O GLU D 190	6230	9740	7450	0	2280	-390	O0
ATOM 12451	CB GLU D 190	-2.774	12.234	9.281	1.00	65.57		C0
ANISOU12451	CB GLU D 190	6910	10290	7710	-140	2590	-380	C0
ATOM 12452	CG GLU D 190	-2.295	11.990	7.857	1.00	67.71		C0
ANISOU12452	CG GLU D 190	7210	10680	7840	-60	2790	-390	C0
ATOM 12453	CD GLU D 190	-1.611	13.159	7.159	1.00	69.59		C0
ANISOU12453	CD GLU D 190	7300	11100	8040	-260	2900	-290	C0
ATOM 12454	OE1 GLU D 190	-1.312	13.021	5.951	1.00	71.20		O0
ANISOU12454	OE1 GLU D 190	7540	11410	8100	-200	3070	-290	O0
ATOM 12455	OE2 GLU D 190	-1.376	14.203	7.810	1.00	68.99		O0
ANISOU12455	OE2 GLU D 190	7090	11060	8060	-460	2820	-210	O0
ATOM 12456	H GLU D 190	-1.855	10.016	10.158	1.00	67.82		H0
ANISOU12456	H GLU D 190	7080	10640	8050	320	2630	-460	H0
ATOM 12457	HA GLU D 190	-0.939	12.633	10.149	1.00	67.43		H0
ANISOU12457	HA GLU D 190	6690	10870	8060	-150	2630	-300	H0
ATOM 12458	HB2 GLU D 190	-3.518	11.625	9.473	1.00	64.43		H0
ANISOU12458	HB2 GLU D 190	6930	9990	7560	-60	2520	-440	H0
ATOM 12459	HB3 GLU D 190	-3.112	13.151	9.352	1.00	64.77		H0
ANISOU12459	HB3 GLU D 190	6830	10160	7630	-320	2530	-340	H0
ATOM 12460	HG2 GLU D 190	-1.671	11.234	7.863	1.00	68.99		H0
ANISOU12460	HG2 GLU D 190	7290	10930	7990	110	2860	-420	H0
ATOM 12461	HG3 GLU D 190	-3.066	11.723	7.313	1.00	67.13		H0
ANISOU12461	HG3 GLU D 190	7340	10480	7680	-50	2780	-440	H0
ATOM 12462	N ALA D 191	-2.073	13.585	12.207	1.00	61.47		N0
ANISOU12462	N ALA D 191	5990	9900	7470	-400	2290	-300	N0
ATOM 12463	CA ALA D 191	-2.533	14.060	13.535	1.00	59.36		C0
ANISOU12463	CA ALA D 191	5700	9550	7290	-510	2110	-300	C0
ATOM 12464	C ALA D 191	-4.061	14.206	13.535	1.00	56.32		C0
ANISOU12464	C ALA D 191	5610	8900	6890	-560	2010	-340	C0
ATOM 12465	O ALA D 191	-4.619	14.607	12.499	1.00	54.99		O0
ANISOU12465	O ALA D 191	5600	8640	6660	-640	2070	-330	O0
ATOM 12466	CB ALA D 191	-1.857	15.363	13.885	1.00	60.15		C0
ANISOU12466	CB ALA D 191	5610	9790	7460	-760	2080	-260	C0
ATOM 12467	H ALA D 191	-1.677	14.246	11.721	1.00	62.48		H0
ANISOU12467	H ALA D 191	6040	10110	7590	-510	2360	-260	H0
ATOM 12468	HA ALA D 191	-2.284	13.385	14.208	1.00	59.48		H0
ANISOU12468	HA ALA D 191	5650	9620	7340	-370	2070	-320	H0
ATOM 12469	HB1 ALA D 191	-2.127	15.640	14.777	1.00	59.40		H0
ANISOU12469	HB1 ALA D 191	5510	9650	7420	-820	1960	-280	H0
ATOM 12470	HB2 ALA D 191	-0.893	15.247	13.861	1.00	61.82		H0
ANISOU12470	HB2 ALA D 191	5620	10190	7680	-720	2150	-230	H0
ATOM 12471	HB3 ALA D 191	-2.116	16.046	13.243	1.00	60.13		H0
ANISOU12471	HB3 ALA D 191	5690	9720	7440	-890	2120	-230	H0
ATOM 12472	N TYR D 192	-4.704	13.879	14.661	1.00	54.28		N0

ANISOU12472	N	TYR D 192	5410	8540	6680	-520	1860	-370	N0
ATOM 12473	CA	TYR D 192	-6.159	14.065	14.909	1.00	52.23		C0
ANISOU12473	CA	TYR D 192	5380	8050	6420	-580	1750	-400	C0
ATOM 12474	C	TYR D 192	-6.345	15.183	15.941	1.00	51.60		C0
ANISOU12474	C	TYR D 192	5240	7960	6410	-760	1630	-400	C0
ATOM 12475	O	TYR D 192	-5.570	15.238	16.915	1.00	52.87		O0
ANISOU12475	O	TYR D 192	5210	8260	6620	-770	1570	-400	O0
ATOM 12476	CB	TYR D 192	-6.809	12.763	15.386	1.00	50.85		C0
ANISOU12476	CB	TYR D 192	5320	7770	6230	-390	1700	-440	C0
ATOM 12477	CG	TYR D 192	-7.054	11.728	14.313	1.00	50.77		C0
ANISOU12477	CG	TYR D 192	5470	7680	6150	-240	1800	-480	C0
ATOM 12478	CD1	TYR D 192	-6.021	10.946	13.820	1.00	52.39		C0
ANISOU12478	CD1	TYR D 192	5580	8000	6330	-80	1930	-480	C0
ATOM 12479	CD2	TYR D 192	-8.325	11.507	13.810	1.00	49.22		C0
ANISOU12479	CD2	TYR D 192	5510	7290	5900	-270	1770	-510	C0
ATOM 12480	CE1	TYR D 192	-6.240	9.986	12.845	1.00	52.60		C0
ANISOU12480	CE1	TYR D 192	5760	7940	6280	60	2030	-540	C0
ATOM 12481	CE2	TYR D 192	-8.562	10.550	12.837	1.00	49.56		C0
ANISOU12481	CE2	TYR D 192	5700	7270	5860	-150	1850	-570	C0
ATOM 12482	CZ	TYR D 192	-7.517	9.785	12.354	1.00	51.01		C0
ANISOU12482	CZ	TYR D 192	5810	7550	6020	10	1990	-590	C0
ATOM 12483	OH	TYR D 192	-7.747	8.838	11.400	1.00	51.81		O0
ANISOU12483	OH	TYR D 192	6080	7570	6040	130	2070	-660	O0
ATOM 12484	H	TYR D 192	-4.280	13.509	15.378	1.00	54.81		H0
ANISOU12484	H	TYR D 192	5360	8680	6780	-450	1830	-370	H0
ATOM 12485	HA	TYR D 192	-6.593	14.344	14.063	1.00	51.91		H0
ANISOU12485	HA	TYR D 192	5460	7940	6330	-630	1800	-400	H0
ATOM 12486	HB2	TYR D 192	-6.234	12.368	16.075	1.00	51.43		H0
ANISOU12486	HB2	TYR D 192	5270	7930	6340	-310	1680	-430	H0
ATOM 12487	HB3	TYR D 192	-7.666	12.984	15.808	1.00	49.59		H0
ANISOU12487	HB3	TYR D 192	5260	7490	6080	-450	1610	-450	H0
ATOM 12488	HD1	TYR D 192	-5.147	11.074	14.151	1.00	53.30		H0
ANISOU12488	HD1	TYR D 192	5510	8260	6480	-60	1950	-450	H0
ATOM 12489	HD2	TYR D 192	-9.046	12.021	14.134	1.00	48.11		H0
ANISOU12489	HD2	TYR D 192	5430	7080	5770	-370	1690	-510	H0
ATOM 12490	HE1	TYR D 192	-5.522	9.467	12.521	1.00	54.00		H0
ANISOU12490	HE1	TYR D 192	5880	8200	6440	190	2130	-540	H0
ATOM 12491	HE2	TYR D 192	-9.435	10.417	12.505	1.00	48.84		H0
ANISOU12491	HE2	TYR D 192	5760	7060	5730	-180	1820	-600	H0
ATOM 12492	N	GLU D 193	-7.327	16.057	15.719	1.00	50.07		N0
ANISOU12492	N	GLU D 193	5200	7610	6210	-900	1580	-400	N0
ATOM 12493	CA	GLU D 193	-7.599	17.231	16.587	1.00	49.97		C0
ANISOU12493	CA	GLU D 193	5170	7550	6260	-1070	1470	-410	C0
ATOM 12494	C	GLU D 193	-8.777	16.913	17.515	1.00	47.97		C0
ANISOU12494	C	GLU D 193	5050	7170	6010	-1010	1350	-460	C0
ATOM 12495	O	GLU D 193	-9.688	16.173	17.091	1.00	47.15		O0
ANISOU12495	O	GLU D 193	5100	6950	5860	-910	1350	-460	O0
ATOM 12496	CB	GLU D 193	-7.856	18.472	15.735	1.00	50.11		C0
ANISOU12496	CB	GLU D 193	5280	7470	6280	-1250	1520	-370	C0
ATOM 12497	CG	GLU D 193	-6.626	18.934	14.977	1.00	52.12		C0
ANISOU12497	CG	GLU D 193	5390	7870	6540	-1350	1650	-320	C0
ATOM 12498	CD	GLU D 193	-6.813	20.209	14.177	1.00	52.67		C0
ANISOU12498	CD	GLU D 193	5550	7840	6620	-1540	1700	-250	C0
ATOM 12499	OE1	GLU D 193	-7.899	20.802	14.270	1.00	51.53		O0

ANISOU12499	OE1	GLU	D	193	5580	7510	6490	-1580	1630	-250	O0
ATOM	12500	OE2	GLU	D	193	-5.870	20.606	13.465	1.00	54.78	O0
ANISOU12500	OE2	GLU	D	193	5700	8220	6890	-1630	1820	-190	O0
ATOM	12501	H	GLU	D	193	-7.898	15.984	15.013	1.00	49.80	H0
ANISOU12501	H	GLU	D	193	5300	7490	6130	-890	1610	-400	H0
ATOM	12502	HA	GLU	D	193	-6.803	17.394	17.142	1.00	50.73	H0
ANISOU12502	HA	GLU	D	193	5110	7770	6400	-1110	1460	-420	H0
ATOM	12503	HB2	GLU	D	193	-8.571	18.273	15.095	1.00	49.48	H0
ANISOU12503	HB2	GLU	D	193	5340	7300	6150	-1200	1540	-360	H0
ATOM	12504	HB3	GLU	D	193	-8.164	19.196	16.319	1.00	49.86	H0
ANISOU12504	HB3	GLU	D	193	5270	7380	6300	-1350	1450	-390	H0
ATOM	12505	HG2	GLU	D	193	-5.895	19.075	15.616	1.00	52.89	H0
ANISOU12505	HG2	GLU	D	193	5330	8080	6690	-1390	1620	-330	H0
ATOM	12506	HG3	GLU	D	193	-6.347	18.222	14.362	1.00	52.46	H0
ANISOU12506	HG3	GLU	D	193	5410	7980	6530	-1240	1730	-300	H0
ATOM	12507	N	ASP	D	194	-8.734	17.442	18.739	1.00	48.13	N0
ANISOU12507	N	ASP	D	194	4990	7210	6080	-1080	1240	-490	N0
ATOM	12508	CA	ASP	D	194	-9.811	17.317	19.757	1.00	47.22	C0
ANISOU12508	CA	ASP	D	194	4980	7000	5960	-1050	1130	-530	C0
ATOM	12509	C	ASP	D	194	-9.929	18.636	20.523	1.00	47.39	C0
ANISOU12509	C	ASP	D	194	4990	6990	6030	-1210	1050	-580	C0
ATOM	12510	O	ASP	D	194	-8.915	19.348	20.641	1.00	48.82	O0
ANISOU12510	O	ASP	D	194	5030	7270	6250	-1340	1060	-590	O0
ATOM	12511	CB	ASP	D	194	-9.546	16.150	20.714	1.00	47.32	C0
ANISOU12511	CB	ASP	D	194	4900	7120	5960	-890	1080	-530	C0
ATOM	12512	CG	ASP	D	194	-8.385	16.373	21.669	1.00	49.36	C0
ANISOU12512	CG	ASP	D	194	4940	7570	6240	-920	1030	-550	C0
ATOM	12513	OD1	ASP	D	194	-8.586	17.079	22.675	1.00	49.82	O0
ANISOU12513	OD1	ASP	D	194	4980	7650	6310	-1020	930	-600	O0
ATOM	12514	OD2	ASP	D	194	-7.283	15.839	21.398	1.00	51.01	O0
ANISOU12514	OD2	ASP	D	194	4990	7940	6450	-850	1090	-510	O0
ATOM	12515	H	ASP	D	194	-8.018	17.924	19.032	1.00	49.13	H0
ANISOU12515	H	ASP	D	194	5000	7430	6240	-1170	1240	-500	H0
ATOM	12516	HA	ASP	D	194	-10.661	17.148	19.289	1.00	46.26	H0
ANISOU12516	HA	ASP	D	194	4990	6770	5820	-1010	1130	-520	H0
ATOM	12517	HB2	ASP	D	194	-10.352	15.986	21.245	1.00	46.54	H0
ANISOU12517	HB2	ASP	D	194	4890	6950	5850	-860	1020	-550	H0
ATOM	12518	HB3	ASP	D	194	-9.360	15.345	20.188	1.00	47.61	H0
ANISOU12518	HB3	ASP	D	194	4950	7160	5980	-780	1140	-510	H0
ATOM	12519	N	VAL	D	195	-11.128	18.946	21.015	1.00	46.70	N0
ANISOU12519	N	VAL	D	195	5040	6770	5940	-1210	980	-610	N0
ATOM	12520	CA	VAL	D	195	-11.343	19.989	22.057	1.00	47.04	C0
ANISOU12520	CA	VAL	D	195	5080	6780	6010	-1320	890	-680	C0
ATOM	12521	C	VAL	D	195	-11.455	19.260	23.397	1.00	47.15	C0
ANISOU12521	C	VAL	D	195	5030	6900	5980	-1220	800	-720	C0
ATOM	12522	O	VAL	D	195	-12.216	18.273	23.473	1.00	45.34	O0
ANISOU12522	O	VAL	D	195	4870	6640	5710	-1080	790	-690	O0
ATOM	12523	CB	VAL	D	195	-12.576	20.866	21.774	1.00	46.67	C0
ANISOU12523	CB	VAL	D	195	5220	6530	5980	-1360	880	-690	C0
ATOM	12524	CG1	VAL	D	195	-12.853	21.826	22.922	1.00	46.98	C0
ANISOU12524	CG1	VAL	D	195	5280	6530	6040	-1440	790	-790	C0
ATOM	12525	CG2	VAL	D	195	-12.425	21.627	20.467	1.00	47.93	C0
ANISOU12525	CG2	VAL	D	195	5450	6590	6170	-1450	970	-630	C0
ATOM	12526	H	VAL	D	195	-11.895	18.537	20.742	1.00	45.72	H0

ANISOU12526 H VAL D 195	5020	6570	5780	-1140	980	-590	H0
ATOM 12527 HA VAL D 195	-10.559	20.563	22.082	1.00	48.29		H0
ANISOU12527 HA VAL D 195	5150	6990	6200	-1430	900	-700	H0
ATOM 12528 HB VAL D 195	-13.356	20.264	21.686	1.00	45.70		H0
ANISOU12528 HB VAL D 195	5170	6370	5820	-1260	870	-670	H0
ATOM 12529 HG11 VAL D 195	-13.281	21.346	23.652	1.00	46.42		H0
ANISOU12529 HG11 VAL D 195	5210	6500	5930	-1360	740	-810	H0
ATOM 12530 HG12 VAL D 195	-13.441	22.539	22.616	1.00	46.96		H0
ANISOU12530 HG12 VAL D 195	5390	6390	6060	-1470	810	-790	H0
ATOM 12531 HG13 VAL D 195	-12.015	22.209	23.234	1.00	48.08		H0
ANISOU12531 HG13 VAL D 195	5330	6740	6200	-1530	780	-820	H0
ATOM 12532 HG21 VAL D 195	-11.631	22.188	20.508	1.00	48.85		H0
ANISOU12532 HG21 VAL D 195	5490	6740	6320	-1570	980	-640	H0
ATOM 12533 HG22 VAL D 195	-13.209	22.184	20.322	1.00	47.42		H0
ANISOU12533 HG22 VAL D 195	5500	6400	6110	-1460	960	-630	H0
ATOM 12534 HG23 VAL D 195	-12.337	20.996	19.732	1.00	47.49		H0
ANISOU12534 HG23 VAL D 195	5400	6570	6080	-1400	1020	-580	H0
ATOM 12535 N GLU D 196	-10.670	19.704	24.379	1.00	48.81		N0
ANISOU12535 N GLU D 196	5110	7240	6200	-1300	730	-780	N0
ATOM 12536 CA GLU D 196	-10.667	19.195	25.771	1.00	50.01		C0
ANISOU12536 CA GLU D 196	5180	7530	6290	-1220	630	-820	C0
ATOM 12537 C GLU D 196	-11.404	20.218	26.636	1.00	49.18		C0
ANISOU12537 C GLU D 196	5170	7340	6180	-1310	560	-920	C0
ATOM 12538 O GLU D 196	-10.938	21.369	26.718	1.00	50.12		O0
ANISOU12538 O GLU D 196	5270	7440	6340	-1480	550	-1000	O0
ATOM 12539 CB GLU D 196	-9.232	18.972	26.249	1.00	53.09		C0
ANISOU12539 CB GLU D 196	5340	8150	6680	-1240	610	-820	C0
ATOM 12540 CG GLU D 196	-9.136	18.272	27.591	1.00	54.70		C0
ANISOU12540 CG GLU D 196	5460	8530	6800	-1130	510	-830	C0
ATOM 12541 CD GLU D 196	-7.716	18.062	28.085	1.00	58.31		C0
ANISOU12541 CD GLU D 196	5660	9250	7240	-1140	460	-820	C0
ATOM 12542 OE1 GLU D 196	-7.563	17.635	29.243	1.00	60.32		O0
ANISOU12542 OE1 GLU D 196	5830	9670	7420	-1070	370	-820	O0
ATOM 12543 OE2 GLU D 196	-6.762	18.323	27.309	1.00	61.80		O0
ANISOU12543 OE2 GLU D 196	5990	9750	7740	-1220	530	-800	O0
ATOM 12544 H GLU D 196	-10.066	20.373	24.246	1.00	49.92		H0
ANISOU12544 H GLU D 196	5190	7400	6380	-1410	740	-810	H0
ATOM 12545 HA GLU D 196	-11.152	18.339	25.798	1.00	49.05		H0
ANISOU12545 HA GLU D 196	5100	7390	6140	-1100	640	-770	H0
ATOM 12546 HB2 GLU D 196	-8.762	18.436	25.578	1.00	53.20		H0
ANISOU12546 HB2 GLU D 196	5310	8200	6710	-1190	670	-760	H0
ATOM 12547 HB3 GLU D 196	-8.783	19.841	26.310	1.00	54.01		H0
ANISOU12547 HB3 GLU D 196	5410	8290	6820	-1390	590	-880	H0
ATOM 12548 HG2 GLU D 196	-9.622	18.798	28.261	1.00	54.70		H0
ANISOU12548 HG2 GLU D 196	5510	8500	6780	-1180	450	-890	H0
ATOM 12549 HG3 GLU D 196	-9.574	17.397	27.526	1.00	53.96		H0
ANISOU12549 HG3 GLU D 196	5410	8400	6680	-1000	530	-760	H0
ATOM 12550 N VAL D 197	-12.527	19.806	27.221	1.00	47.33		N0
ANISOU12550 N VAL D 197	5030	7060	5890	-1200	530	-920	N0
ATOM 12551 CA VAL D 197	-13.431	20.675	28.024	1.00	47.17		C0
ANISOU12551 CA VAL D 197	5120	6960	5840	-1230	470	-1010	C0
ATOM 12552 C VAL D 197	-13.229	20.311	29.493	1.00	47.56		C0
ANISOU12552 C VAL D 197	5070	7200	5800	-1190	380	-1060	C0
ATOM 12553 O VAL D 197	-13.532	19.165	29.856	1.00	47.64		O0

ANISOU12553 O VAL D 197	5060	7280	5750	-1040	370	-980	O0
ATOM 12554 CB VAL D 197	-14.895	20.513	27.577	1.00	45.66		C0
ANISOU12554 CB VAL D 197	5090	6610	5650	-1140	510	-970	C0
ATOM 12555 CG1 VAL D 197	-15.829	21.400	28.384	1.00	46.07		C0
ANISOU12555 CG1 VAL D 197	5240	6590	5680	-1150	470	-1060	C0
ATOM 12556 CG2 VAL D 197	-15.043	20.786	26.087	1.00	45.10		C0
ANISOU12556 CG2 VAL D 197	5100	6380	5650	-1180	590	-910	C0
ATOM 12557 H VAL D 197	-12.818	18.944	27.166	1.00	46.80		H0
ANISOU12557 H VAL D 197	4980	7010	5800	-1090	540	-860	H0
ATOM 12558 HA VAL D 197	-13.168	21.603	27.892	1.00	47.89		H0
ANISOU12558 HA VAL D 197	5230	6990	5980	-1350	470	-1070	H0
ATOM 12559 HB VAL D 197	-15.154	19.573	27.741	1.00	45.07		H0
ANISOU12559 HB VAL D 197	5000	6590	5540	-1040	500	-910	H0
ATOM 12560 HG11 VAL D 197	-15.919	21.044	29.285	1.00	46.12		H0
ANISOU12560 HG11 VAL D 197	5200	6700	5620	-1100	420	-1090	H0
ATOM 12561 HG12 VAL D 197	-16.703	21.426	27.959	1.00	45.26		H0
ANISOU12561 HG12 VAL D 197	5230	6390	5590	-1100	500	-1030	H0
ATOM 12562 HG13 VAL D 197	-15.464	22.301	28.428	1.00	46.89		H0
ANISOU12562 HG13 VAL D 197	5350	6650	5820	-1250	460	-1140	H0
ATOM 12563 HG21 VAL D 197	-14.553	21.594	25.855	1.00	45.95		H0
ANISOU12563 HG21 VAL D 197	5200	6450	5800	-1280	600	-940	H0
ATOM 12564 HG22 VAL D 197	-15.982	20.905	25.870	1.00	44.51		H0
ANISOU12564 HG22 VAL D 197	5130	6220	5570	-1140	600	-890	H0
ATOM 12565 HG23 VAL D 197	-14.686	20.035	25.582	1.00	44.88		H0
ANISOU12565 HG23 VAL D 197	5030	6400	5620	-1140	620	-840	H0
ATOM 12566 N SER D 198	-12.686	21.243	30.279	1.00	48.31		N0
ANISOU12566 N SER D 198	5120	7360	5880	-1310	310	-1190	N0
ATOM 12567 CA SER D 198	-12.420	21.076	31.729	1.00	48.88		C0
ANISOU12567 CA SER D 198	5100	7640	5840	-1290	210	-1260	C0
ATOM 12568 C SER D 198	-13.595	21.658	32.516	1.00	47.98		C0
ANISOU12568 C SER D 198	5120	7440	5660	-1260	190	-1350	C0
ATOM 12569 O SER D 198	-13.718	22.892	32.575	1.00	48.68		O0
ANISOU12569 O SER D 198	5300	7410	5790	-1380	180	-1490	O0
ATOM 12570 CB SER D 198	-11.116	21.711	32.124	1.00	50.92		C0
ANISOU12570 CB SER D 198	5210	8050	6100	-1450	150	-1350	C0
ATOM 12571 OG SER D 198	-10.025	21.031	31.524	1.00	51.46		O0
ANISOU12571 OG SER D 198	5110	8240	6200	-1440	170	-1250	O0
ATOM 12572 H SER D 198	-12.436	22.065	29.976	1.00	49.00		H0
ANISOU12572 H SER D 198	5230	7370	6020	-1430	330	-1250	H0
ATOM 12573 HA SER D 198	-12.365	20.102	31.924	1.00	48.44		H0
ANISOU12573 HA SER D 198	4980	7680	5740	-1170	210	-1170	H0
ATOM 12574 HB2 SER D 198	-11.112	22.652	31.841	1.00	51.48		H0
ANISOU12574 HB2 SER D 198	5340	7990	6230	-1580	160	-1430	H0
ATOM 12575 HB3 SER D 198	-11.022	21.684	33.103	1.00	51.75		H0
ANISOU12575 HB3 SER D 198	5260	8290	6110	-1440	70	-1410	H0
ATOM 12576 N LEU D 199	-14.438	20.785	33.064	1.00	46.77		N0
ANISOU12576 N LEU D 199	5000	7350	5420	-1110	190	-1280	N0
ATOM 12577 CA LEU D 199	-15.587	21.156	33.928	1.00	46.40		C0
ANISOU12577 CA LEU D 199	5060	7280	5290	-1050	170	-1360	C0
ATOM 12578 C LEU D 199	-15.117	21.148	35.386	1.00	47.26		C0
ANISOU12578 C LEU D 199	5080	7620	5250	-1050	80	-1440	C0
ATOM 12579 O LEU D 199	-14.893	20.047	35.922	1.00	46.46		O0
ANISOU12579 O LEU D 199	4880	7710	5070	-950	50	-1330	O0
ATOM 12580 CB LEU D 199	-16.723	20.156	33.692	1.00	45.27		C0

ANISOU12580	CB	LEU	D	199	4980	7090	5130	-900	230	-1220	C0
ATOM	12581	CG	LEU	D	199	-18.000	20.395	34.497	1.00	45.66	C0
ANISOU12581	CG	LEU	D	199	5110	7140	5100	-820	230	-1260	C0
ATOM	12582	CD1	LEU	D	199	-18.562	21.786	34.238	1.00	46.44	C0
ANISOU12582	CD1	LEU	D	199	5330	7060	5250	-880	260	-1390	C0
ATOM	12583	CD2	LEU	D	199	-19.034	19.334	34.172	1.00	44.45	C0
ANISOU12583	CD2	LEU	D	199	4990	6950	4940	-710	290	-1100	C0
ATOM	12584	H	LEU	D	199	-14.354	19.886	32.940	1.00	46.23	H0
ANISOU12584	H	LEU	D	199	4890	7340	5340	-1020	200	-1180	H0
ATOM	12585	HA	LEU	D	199	-15.885	22.064	33.688	1.00	46.64	H0
ANISOU12585	HA	LEU	D	199	5180	7170	5370	-1110	190	-1440	H0
ATOM	12586	HB2	LEU	D	199	-16.950	20.171	32.741	1.00	44.44	H0
ANISOU12586	HB2	LEU	D	199	4920	6850	5110	-910	280	-1170	H0
ATOM	12587	HB3	LEU	D	199	-16.391	19.260	33.900	1.00	45.18	H0
ANISOU12587	HB3	LEU	D	199	4890	7190	5080	-840	210	-1130	H0
ATOM	12588	HG	LEU	D	199	-17.780	20.326	35.458	1.00	46.56	H0
ANISOU12588	HG	LEU	D	199	5180	7400	5110	-810	180	-1300	H0
ATOM	12589	HD11	LEU	D	199	-18.010	22.449	34.690	1.00	47.46	H0
ANISOU12589	HD11	LEU	D	199	5450	7220	5360	-960	220	-1510	H0
ATOM	12590	HD12	LEU	D	199	-19.472	21.838	34.577	1.00	46.16	H0
ANISOU12590	HD12	LEU	D	199	5350	7010	5170	-810	280	-1400	H0
ATOM	12591	HD13	LEU	D	199	-18.562	21.963	33.281	1.00	45.72	H0
ANISOU12591	HD13	LEU	D	199	5280	6830	5260	-910	300	-1360	H0
ATOM	12592	HD21	LEU	D	199	-19.235	19.356	33.221	1.00	43.62	H0
ANISOU12592	HD21	LEU	D	199	4930	6720	4920	-720	330	-1060	H0
ATOM	12593	HD22	LEU	D	199	-19.847	19.507	34.678	1.00	44.50	H0
ANISOU12593	HD22	LEU	D	199	5040	6980	4890	-660	300	-1130	H0
ATOM	12594	HD23	LEU	D	199	-18.686	18.457	34.410	1.00	44.38	H0
ANISOU12594	HD23	LEU	D	199	4920	7040	4900	-670	270	-1020	H0
ATOM	12595	N	ASN	D	200	-14.938	22.335	35.975	1.00	48.64	N0
ANISOU12595	N	ASN	D	200	5290	7790	5400	-1170	30	-1630	N0
ATOM	12596	CA	ASN	D	200	-14.607	22.530	37.414	1.00	50.17	C0
ANISOU12596	CA	ASN	D	200	5420	8210	5430	-1180	-70	-1760	C0
ATOM	12597	C	ASN	D	200	-15.927	22.746	38.163	1.00	50.04	C0
ANISOU12597	C	ASN	D	200	5530	8170	5310	-1080	-40	-1820	C0
ATOM	12598	O	ASN	D	200	-16.547	23.811	37.969	1.00	50.18	O0
ANISOU12598	O	ASN	D	200	5690	7990	5380	-1120	0	-1940	O0
ATOM	12599	CB	ASN	D	200	-13.603	23.674	37.605	1.00	52.05	C0
ANISOU12599	CB	ASN	D	200	5620	8460	5690	-1390	-140	-1950	C0
ATOM	12600	CG	ASN	D	200	-13.022	23.765	39.003	1.00	53.97	C0
ANISOU12600	CG	ASN	D	200	5770	8990	5750	-1430	-260	-2080	C0
ATOM	12601	OD1	ASN	D	200	-12.813	22.758	39.676	1.00	53.82	O0
ANISOU12601	OD1	ASN	D	200	5630	9220	5600	-1320	-310	-1970	O0
ATOM	12602	ND2	ASN	D	200	-12.734	24.977	39.444	1.00	55.64	N0
ANISOU12602	ND2	ASN	D	200	6030	9160	5950	-1600	-310	-2310	N0
ATOM	12603	H	ASN	D	200	-15.009	23.118	35.516	1.00	48.76	H0
ANISOU12603	H	ASN	D	200	5370	7660	5490	-1250	50	-1700	H0
ATOM	12604	HA	ASN	D	200	-14.186	21.706	37.747	1.00	50.28	H0
ANISOU12604	HA	ASN	D	200	5320	8400	5380	-1120	-110	-1670	H0
ATOM	12605	HB2	ASN	D	200	-12.870	23.555	36.967	1.00	51.98	H0
ANISOU12605	HB2	ASN	D	200	5530	8450	5770	-1460	-140	-1890	H0
ATOM	12606	HB3	ASN	D	200	-14.049	24.520	37.394	1.00	52.20	H0
ANISOU12606	HB3	ASN	D	200	5760	8300	5770	-1450	-110	-2050	H0
ATOM	12607	HD21	ASN	D	200	-12.765	25.152	40.310	1.00	56.91	H0

ANISOU12607	HD21	ASN D 200	6190	9440	5990	-1600	-370	-2410	H0
ATOM 12608	HD22	ASN D 200	-12.509	25.614	38.873	1.00	55.98		H0
ANISOU12608	HD22	ASN D 200	6120	9050	6110	-1710	-290	-2360	H0
ATOM 12609	N	PHE D 201	-16.357	21.761	38.956	1.00	49.82		N0
ANISOU12609	N	PHE D 201	5460	8330	5140	-930	-60	-1710	N0
ATOM 12610	CA	PHE D 201	-17.684	21.742	39.625	1.00	50.20		C0
ANISOU12610	CA	PHE D 201	5600	8390	5090	-810	-10	-1720	C0
ATOM 12611	C	PHE D 201	-17.548	21.174	41.040	1.00	52.29		C0
ANISOU12611	C	PHE D 201	5790	8950	5130	-740	-80	-1720	C0
ATOM 12612	O	PHE D 201	-16.540	20.511	41.339	1.00	53.71		O0
ANISOU12612	O	PHE D 201	5830	9320	5250	-750	-150	-1640	O0
ATOM 12613	CB	PHE D 201	-18.687	20.935	38.794	1.00	48.08		C0
ANISOU12613	CB	PHE D 201	5380	7990	4900	-700	90	-1530	C0
ATOM 12614	CG	PHE D 201	-18.440	19.447	38.769	1.00	47.03		C0
ANISOU12614	CG	PHE D 201	5150	7970	4750	-620	80	-1320	C0
ATOM 12615	CD1	PHE D 201	-17.469	18.903	37.943	1.00	46.73		C0
ANISOU12615	CD1	PHE D 201	5040	7900	4810	-660	70	-1230	C0
ATOM 12616	CD2	PHE D 201	-19.181	18.589	39.566	1.00	47.32		C0
ANISOU12616	CD2	PHE D 201	5180	8150	4650	-500	100	-1200	C0
ATOM 12617	CE1	PHE D 201	-17.246	17.535	37.916	1.00	46.25		C0
ANISOU12617	CE1	PHE D 201	4910	7920	4740	-560	80	-1030	C0
ATOM 12618	CE2	PHE D 201	-18.953	17.221	39.542	1.00	46.73		C0
ANISOU12618	CE2	PHE D 201	5040	8150	4570	-430	110	-1000	C0
ATOM 12619	CZ	PHE D 201	-17.989	16.696	38.714	1.00	46.30		C0
ANISOU12619	CZ	PHE D 201	4930	8040	4630	-450	100	-920	C0
ATOM 12620	H	PHE D 201	-15.862	21.019	39.143	1.00	50.01		H0
ANISOU12620	H	PHE D 201	5390	8490	5120	-900	-90	-1620	H0
ATOM 12621	HA	PHE D 201	-18.013	22.673	39.696	1.00	50.81		H0
ANISOU12621	HA	PHE D 201	5770	8360	5180	-850	0	-1860	H0
ATOM 12622	HB2	PHE D 201	-19.585	21.099	39.152	1.00	48.05		H0
ANISOU12622	HB2	PHE D 201	5440	7970	4850	-640	120	-1560	H0
ATOM 12623	HB3	PHE D 201	-18.667	21.273	37.875	1.00	47.31		H0
ANISOU12623	HB3	PHE D 201	5320	7720	4930	-750	120	-1530	H0
ATOM 12624	HD1	PHE D 201	-16.957	19.471	37.392	1.00	46.73		H0
ANISOU12624	HD1	PHE D 201	5040	7820	4900	-740	70	-1290	H0
ATOM 12625	HD2	PHE D 201	-19.846	18.942	40.136	1.00	47.70		H0
ANISOU12625	HD2	PHE D 201	5270	8230	4620	-470	120	-1260	H0
ATOM 12626	HE1	PHE D 201	-16.580	17.179	37.350	1.00	46.04		H0
ANISOU12626	HE1	PHE D 201	4840	7870	4780	-570	80	-980	H0
ATOM 12627	HE2	PHE D 201	-19.465	16.650	40.091	1.00	47.00		H0
ANISOU12627	HE2	PHE D 201	5070	8260	4520	-360	120	-910	H0
ATOM 12628	HZ	PHE D 201	-17.833	15.765	38.698	1.00	46.17		H0
ANISOU12628	HZ	PHE D 201	4880	8050	4610	-390	100	-780	H0
ATOM 12629	N	ARG D 202	-18.543	21.440	41.887	1.00	53.84		N0
ANISOU12629	N	ARG D 202	6060	9210	5190	-660	-50	-1780	N0
ATOM 12630	CA	ARG D 202	-18.588	20.942	43.286	1.00	55.77		C0
ANISOU12630	CA	ARG D 202	6240	9750	5190	-580	-100	-1770	C0
ATOM 12631	C	ARG D 202	-20.039	20.898	43.781	1.00	55.82		C0
ANISOU12631	C	ARG D 202	6330	9770	5100	-450	-10	-1750	C0
ATOM 12632	O	ARG D 202	-20.880	21.655	43.252	1.00	54.10		O0
ANISOU12632	O	ARG D 202	6230	9340	4990	-440	70	-1840	O0
ATOM 12633	CB	ARG D 202	-17.724	21.823	44.195	1.00	58.74		C0
ANISOU12633	CB	ARG D 202	6590	10290	5430	-680	-210	-2010	C0
ATOM 12634	CG	ARG D 202	-18.319	23.193	44.489	1.00	60.25		C0

ANISOU12634	CG	ARG D 202	6930	10360	5600	-730	-180	-2270	C0
ATOM 12635	CD	ARG D 202	-17.512	24.007	45.484	1.00	63.46		C0
ANISOU12635	CD	ARG D 202	7330	10930	5850	-840	-300	-2520	C0
ATOM 12636	NE	ARG D 202	-18.130	25.314	45.671	1.00	65.11		N0
ANISOU12636	NE	ARG D 202	7710	10960	6070	-870	-250	-2780	N0
ATOM 12637	CZ	ARG D 202	-17.524	26.400	46.144	1.00	68.01		C0
ANISOU12637	CZ	ARG D 202	8130	11320	6390	-1020	-330	-3060	C0
ATOM 12638	NH1	ARG D 202	-16.251	26.365	46.500	1.00	69.38		N0
ANISOU12638	NH1	ARG D 202	8180	11690	6500	-1170	-470	-3120	N0
ATOM 12639	NH2	ARG D 202	-18.204	27.528	46.260	1.00	69.51		N0
ANISOU12639	NH2	ARG D 202	8510	11310	6590	-1020	-270	-3280	N0
ATOM 12640	H	ARG D 202	-19.260	21.953	41.655	1.00	53.41		H0
ANISOU12640	H	ARG D 202	6090	9020	5180	-640	10	-1840	H0
ATOM 12641	HA	ARG D 202	-18.228	20.028	43.296	1.00	55.47		H0
ANISOU12641	HA	ARG D 202	6120	9820	5140	-530	-120	-1610	H0
ATOM 12642	HB2	ARG D 202	-17.584	21.353	45.043	1.00	59.66		H0
ANISOU12642	HB2	ARG D 202	6650	10630	5390	-630	-250	-1970	H0
ATOM 12643	HB3	ARG D 202	-16.849	21.944	43.772	1.00	58.78		H0
ANISOU12643	HB3	ARG D 202	6540	10270	5520	-780	-260	-2020	H0
ATOM 12644	HG2	ARG D 202	-18.386	23.698	43.651	1.00	59.51		H0
ANISOU12644	HG2	ARG D 202	6900	10040	5670	-780	-140	-2300	H0
ATOM 12645	HG3	ARG D 202	-19.227	23.082	44.841	1.00	60.17		H0
ANISOU12645	HG3	ARG D 202	6970	10370	5520	-620	-120	-2250	H0
ATOM 12646	HD2	ARG D 202	-17.472	23.534	46.343	1.00	64.35		H0
ANISOU12646	HD2	ARG D 202	7380	11280	5790	-780	-340	-2490	H0
ATOM 12647	HD3	ARG D 202	-16.597	24.117	45.149	1.00	63.72		H0
ANISOU12647	HD3	ARG D 202	7290	10960	5960	-960	-360	-2540	H0
ATOM 12648	HE	ARG D 202	-18.971	25.393	45.451	1.00	64.41		H0
ANISOU12648	HE	ARG D 202	7700	10760	6020	-780	-170	-2750	H0
ATOM 12649	HH11	ARG D 202	-15.793	25.624	46.425	1.00	68.81		H0
ANISOU12649	HH11	ARG D 202	7980	11750	6410	-1160	-500	-2970	H0
ATOM 12650	HH12	ARG D 202	-15.864	27.090	46.811	1.00	71.08		H0
ANISOU12650	HH12	ARG D 202	8430	11890	6680	-1290	-520	-3310	H0
ATOM 12651	HH21	ARG D 202	-19.053	27.557	46.026	1.00	68.49		H0
ANISOU12651	HH21	ARG D 202	8450	11070	6510	-910	-180	-3230	H0
ATOM 12652	HH22	ARG D 202	-17.808	28.250	46.574	1.00	71.04		H0
ANISOU12652	HH22	ARG D 202	8750	11480	6760	-1120	-320	-3470	H0
ATOM 12653	N	LYS D 203	-20.299	20.053	44.784	1.00	57.68		N0
ANISOU12653	N	LYS D 203	6510	10260	5150	-350	-10	-1640	N0
ATOM 12654	CA	LYS D 203	-21.577	19.999	45.542	1.00	59.01		C0
ANISOU12654	CA	LYS D 203	6730	10520	5170	-230	70	-1620	C0
ATOM 12655	C	LYS D 203	-21.831	21.357	46.205	1.00	61.08		C0
ANISOU12655	C	LYS D 203	7080	10800	5330	-250	70	-1910	C0
ATOM 12656	O	LYS D 203	-20.849	22.025	46.574	1.00	61.83		O0
ANISOU12656	O	LYS D 203	7170	10950	5370	-350	-30	-2100	O0
ATOM 12657	CB	LYS D 203	-21.529	18.881	46.588	1.00	60.55		C0
ANISOU12657	CB	LYS D 203	6840	11010	5150	-140	50	-1440	C0
ATOM 12658	CG	LYS D 203	-21.466	17.475	46.006	1.00	60.07		C0
ANISOU12658	CG	LYS D 203	6720	10910	5200	-100	80	-1140	C0
ATOM 12659	CD	LYS D 203	-21.368	16.379	47.038	1.00	61.90		C0
ANISOU12659	CD	LYS D 203	6880	11410	5230	-10	60	-950	C0
ATOM 12660	CE	LYS D 203	-21.469	14.999	46.419	1.00	61.15		C0
ANISOU12660	CE	LYS D 203	6770	11210	5260	30	110	-650	C0
ATOM 12661	NZ	LYS D 203	-21.473	13.938	47.455	1.00	63.14		N0

ANISOU12661	NZ	LYS D 203	6970	11700	5320	130	100	-440	N0
ATOM 12662	H	LYS D 203	-19.681	19.450	45.074	1.00	57.99		H0
ANISOU12662	H	LYS D 203	6470	10430	5130	-340	-60	-1550	H0
ATOM 12663	HA	LYS D 203	-22.308	19.812	44.908	1.00	57.75		H0
ANISOU12663	HA	LYS D 203	6600	10220	5120	-200	150	-1540	H0
ATOM 12664	HB2	LYS D 203	-20.743	19.020	47.157	1.00	61.91		H0
ANISOU12664	HB2	LYS D 203	6970	11340	5220	-170	-30	-1510	H0
ATOM 12665	HB3	LYS D 203	-22.325	18.949	47.155	1.00	61.27		H0
ANISOU12665	HB3	LYS D 203	6960	11190	5130	-70	110	-1450	H0
ATOM 12666	HG2	LYS D 203	-22.268	17.326	45.462	1.00	58.84		H0
ANISOU12666	HG2	LYS D 203	6610	10610	5140	-80	160	-1080	H0
ATOM 12667	HG3	LYS D 203	-20.689	17.417	45.410	1.00	59.38		H0
ANISOU12667	HG3	LYS D 203	6600	10740	5220	-160	30	-1140	H0
ATOM 12668	HD2	LYS D 203	-20.512	16.455	47.510	1.00	63.00		H0
ANISOU12668	HD2	LYS D 203	6970	11690	5270	-30	-30	-990	H0
ATOM 12669	HD3	LYS D 203	-22.089	16.488	47.694	1.00	62.68		H0
ANISOU12669	HD3	LYS D 203	7000	11610	5200	40	110	-960	H0
ATOM 12670	HE2	LYS D 203	-22.290	14.935	45.896	1.00	60.09		H0
ANISOU12670	HE2	LYS D 203	6680	10930	5220	30	190	-620	H0
ATOM 12671	HE3	LYS D 203	-20.714	14.854	45.818	1.00	60.54		H0
ANISOU12671	HE3	LYS D 203	6660	11050	5290	0	60	-640	H0
ATOM 12672	HZ1	LYS D 203	-20.703	13.972	47.933	1.00	64.05		H0
ANISOU12672	HZ1	LYS D 203	7040	11960	5340	140	20	-460	H0
ATOM 12673	HZ2	LYS D 203	-21.542	13.124	47.060	1.00	62.33		H0
ANISOU12673	HZ2	LYS D 203	6870	11510	5300	150	140	-270	H0
ATOM 12674	HZ3	LYS D 203	-22.176	14.058	48.015	1.00	63.62		H0
ANISOU12674	HZ3	LYS D 203	7050	11860	5270	160	150	-440	H0
ATOM 12675	N	LYS D 204	-23.105	21.745	46.315	1.00	62.10		N0
ANISOU12675	N	LYS D 204	7290	10870	5440	-150	180	-1950	N0
ATOM 12676	CA	LYS D 204	-23.579	22.912	47.108	1.00	65.45		C0
ANISOU12676	CA	LYS D 204	7810	11330	5730	-110	200	-2220	C0
ATOM 12677	C	LYS D 204	-23.900	22.431	48.530	1.00	68.08		C0
ANISOU12677	C	LYS D 204	8100	12010	5760	-10	210	-2200	C0
ATOM 12678	O	LYS D 204	-24.422	21.304	48.663	1.00	67.66		O0
ANISOU12678	O	LYS D 204	7970	12090	5650	70	260	-1940	O0
ATOM 12679	CB	LYS D 204	-24.808	23.541	46.439	1.00	65.20		C0
ANISOU12679	CB	LYS D 204	7880	11070	5830	-30	330	-2260	C0
ATOM 12680	CG	LYS D 204	-24.545	24.237	45.109	1.00	63.71		C0
ANISOU12680	CG	LYS D 204	7760	10530	5910	-120	330	-2310	C0
ATOM 12681	CD	LYS D 204	-25.651	24.056	44.090	1.00	62.17		C0
ANISOU12681	CD	LYS D 204	7580	10160	5880	-40	430	-2150	C0
ATOM 12682	CE	LYS D 204	-26.967	24.686	44.495	1.00	63.81		C0
ANISOU12682	CE	LYS D 204	7840	10380	6030	120	540	-2240	C0
ATOM 12683	NZ	LYS D 204	-28.055	24.323	43.554	1.00	62.14		N0
ANISOU12683	NZ	LYS D 204	7600	10060	5950	200	630	-2050	N0
ATOM 12684	H	LYS D 204	-23.781	21.298	45.899	1.00	61.06		H0
ANISOU12684	H	LYS D 204	7150	10680	5370	-100	250	-1820	H0
ATOM 12685	HA	LYS D 204	-22.857	23.581	47.150	1.00	66.28		H0
ANISOU12685	HA	LYS D 204	7950	11390	5840	-200	130	-2390	H0
ATOM 12686	HB2	LYS D 204	-25.475	22.838	46.296	1.00	64.13		H0
ANISOU12686	HB2	LYS D 204	7690	10970	5700	40	390	-2080	H0
ATOM 12687	HB3	LYS D 204	-25.195	24.194	47.059	1.00	66.56		H0
ANISOU12687	HB3	LYS D 204	8110	11290	5890	30	360	-2410	H0
ATOM 12688	HG2	LYS D 204	-24.421	25.196	45.276	1.00	65.03		H0

ANISOU12688	HG2 LYS D 204	8020	10610	6080	-140	320	-2510	H0
ATOM 12689	HG3 LYS D 204	-23.708	23.890	44.733	1.00	63.10		H0
ANISOU12689	HG3 LYS D 204	7630	10440	5900	-210	260	-2250	H0
ATOM 12690	HD2 LYS D 204	-25.364	24.448	43.238	1.00	61.48		H0
ANISOU12690	HD2 LYS D 204	7530	9870	5960	-100	420	-2170	H0
ATOM 12691	HD3 LYS D 204	-25.793	23.097	43.944	1.00	61.18		H0
ANISOU12691	HD3 LYS D 204	7370	10120	5760	-20	440	-1960	H0
ATOM 12692	HE2 LYS D 204	-27.211	24.389	45.391	1.00	64.66		H0
ANISOU12692	HE2 LYS D 204	7910	10690	5960	180	550	-2240	H0
ATOM 12693	HE3 LYS D 204	-26.873	25.657	44.513	1.00	64.69		H0
ANISOU12693	HE3 LYS D 204	8050	10360	6160	120	540	-2420	H0
ATOM 12694	HZ1 LYS D 204	-27.839	24.594	42.715	1.00	61.31		H0
ANISOU12694	HZ1 LYS D 204	7530	9770	6000	150	610	-2050	H0
ATOM 12695	HZ2 LYS D 204	-28.827	24.727	43.807	1.00	63.00		H0
ANISOU12695	HZ2 LYS D 204	7730	10180	6020	300	690	-2110	H0
ATOM 12696	HZ3 LYS D 204	-28.175	23.424	43.554	1.00	61.37		H0
ANISOU12696	HZ3 LYS D 204	7420	10060	5830	200	630	-1890	H0
ATOM 12697	N GLY D 205	-23.590	23.246	49.544	1.00	71.08		N0
ANISOU12697	N GLY D 205	8530	12540	5940	-20	160	-2450	N0
ATOM 12698	CA GLY D 205	-23.800	22.925	50.971	1.00	73.40		C0
ANISOU12698	CA GLY D 205	8790	13200	5900	70	160	-2470	C0
ATOM 12699	C GLY D 205	-22.682	22.058	51.526	1.00	74.25		C0
ANISOU12699	C GLY D 205	8780	13570	5870	10	20	-2340	C0
ATOM 12700	O GLY D 205	-21.570	21.978	50.971	1.00	73.95		O0
ANISOU12700	O GLY D 205	8690	13450	5960	-110	-90	-2330	O0
ATOM 12701	H GLY D 205	-23.222	24.067	49.405	1.00	71.60		H0
ANISOU12701	H GLY D 205	8660	12490	6050	-90	120	-2640	H0
ATOM 12702	HA2 GLY D 205	-23.848	23.769	51.487	1.00	75.13		H0
ANISOU12702	HA2 GLY D 205	9090	13440	6020	70	150	-2700	H0
ATOM 12703	HA3 GLY D 205	-24.664	22.453	51.072	1.00	73.02		H0
ANISOU12703	HA3 GLY D 205	8720	13200	5820	170	250	-2330	H0
TER 12704	GLY D 205							
ATOM 12705	N ALA E 1	-11.059	11.352	-9.203	1.00	100.53		N0
ANISOU12705	N ALA E 1	17550	11270	9370	-2760	3200	910	N0
ATOM 12706	CA ALA E 1	-12.361	12.079	-9.083	1.00	99.76		C0
ANISOU12706	CA ALA E 1	17740	11000	9160	-2540	2890	1010	C0
ATOM 12707	C ALA E 1	-12.506	12.660	-7.671	1.00	97.77		C0
ANISOU12707	C ALA E 1	17330	10690	9120	-2450	2730	1000	C0
ATOM 12708	O ALA E 1	-11.689	12.302	-6.798	1.00	96.97		O0
ANISOU12708	O ALA E 1	16870	10720	9250	-2530	2840	910	O0
ATOM 12709	CB ALA E 1	-13.502	11.149	-9.416	1.00	98.22		C0
ANISOU12709	CB ALA E 1	17500	10900	8920	-2270	2710	980	C0
ATOM 12710	H ALA E 1	-11.204	10.452	-9.192	1.00	99.14		H0
ANISOU12710	H ALA E 1	17170	11230	9270	-2660	3210	850	H0
ATOM 12711	HA ALA E 1	-12.361	12.825	-9.728	1.00	101.71		H0
ANISOU12711	HA ALA E 1	18330	11090	9220	-2640	2910	1090	H0
ATOM 12712	HB1 ALA E 1	-14.324	11.660	-9.494	1.00	98.37		H0
ANISOU12712	HB1 ALA E 1	17730	10800	8840	-2140	2520	1050	H0
ATOM 12713	HB2 ALA E 1	-13.321	10.699	-10.258	1.00	99.07		H0
ANISOU12713	HB2 ALA E 1	17680	11050	8910	-2350	2830	970	H0
ATOM 12714	HB3 ALA E 1	-13.599	10.487	-8.710	1.00	96.21		H0
ANISOU12714	HB3 ALA E 1	16940	10770	8850	-2160	2670	910	H0
ATOM 12715	N ASP E 2	-13.503	13.531	-7.471	1.00	97.51		N0
ANISOU12715	N ASP E 2	17570	10480	9000	-2280	2480	1080	N0

ATOM 12716	CA	ASPE	2	-13.876	14.104	-6.146	1.00	95.34	C0	
ANISOU12716	CA	ASPE	2	17190	10140	8900	-2140	2290	1060	C0
ATOM 12717	C	ASPE	2	-14.295	12.950	-5.229	1.00	90.92	C0	
ANISOU12717	C	ASPE	2	16170	9800	8570	-1920	2200	950	C0
ATOM 12718	O	ASPE	2	-14.657	11.881	-5.762	1.00	89.94	O0	
ANISOU12718	O	ASPE	2	15920	9830	8420	-1830	2210	920	O0
ATOM 12719	CB	ASPE	2	-14.968	15.176	-6.261	1.00	97.21	C0	
ANISOU12719	CB	ASPE	2	17820	10130	8980	-1950	2050	1170	C0
ATOM 12720	CG	ASPE	2	-15.978	14.951	-7.377	1.00	98.84	C0	
ANISOU12720	CG	ASPE	2	18270	10320	8960	-1780	1910	1240	C0
ATOM 12721	OD1	ASPE	2	-15.643	15.257	-8.542	1.00	101.78	O0	
ANISOU12721	OD1	ASPE	2	18970	10590	9100	-1950	2030	1320	O0
ATOM 12722	OD2	ASPE	2	-17.087	14.467	-7.078	1.00	97.54	O0	
ANISOU12722	OD2	ASPE	2	17970	10250	8840	-1490	1700	1220	O0
ATOM 12723	H	ASPE	2	-14.015	13.836	-8.157	1.00	98.51	H0	
ANISOU12723	H	ASPE	2	17970	10500	8950	-2230	2410	1150	H0
ATOM 12724	HA	ASPE	2	-13.073	14.528	-5.762	1.00	96.03	H0	
ANISOU12724	HA	ASPE	2	17240	10190	9060	-2320	2410	1050	H0
ATOM 12725	HB2	ASPE	2	-15.457	15.222	-5.414	1.00	95.88	H0	
ANISOU12725	HB2	ASPE	2	17520	9980	8930	-1790	1900	1140	H0
ATOM 12726	HB3	ASPE	2	-14.540	16.044	-6.410	1.00	99.02	H0	
ANISOU12726	HB3	ASPE	2	18300	10200	9130	-2110	2100	1230	H0
ATOM 12727	N	ARGE	3	-14.244	13.157	-3.909	1.00	87.75	N0	
ANISOU12727	N	ARGE	3	15550	9420	8370	-1860	2120	900	N0
ATOM 12728	CA	ARGE	3	-14.539	12.108	-2.890	1.00	84.10	C0	
ANISOU12728	CA	ARGE	3	14660	9160	8130	-1690	2040	800	C0
ATOM 12729	C	ARGE	3	-15.973	11.595	-3.083	1.00	80.96	C0	
ANISOU12729	C	ARGE	3	14270	8810	7670	-1390	1830	810	C0
ATOM 12730	O	ARGE	3	-16.233	10.441	-2.699	1.00	78.94	O0	
ANISOU12730	O	ARGE	3	13700	8750	7550	-1270	1800	740	O0
ATOM 12731	CB	ARGE	3	-14.348	12.638	-1.464	1.00	83.71	C0	
ANISOU12731	CB	ARGE	3	14460	9090	8260	-1670	1960	760	C0
ATOM 12732	CG	ARGE	3	-12.939	13.128	-1.155	1.00	85.28	C0	
ANISOU12732	CG	ARGE	3	14600	9270	8530	-1980	2150	740	C0
ATOM 12733	CD	ARGE	3	-12.823	13.702	0.247	1.00	84.16	C0	
ANISOU12733	CD	ARGE	3	14350	9090	8540	-1960	2050	700	C0
ATOM 12734	NE	ARGE	3	-12.421	12.691	1.218	1.00	81.68	N0	
ANISOU12734	NE	ARGE	3	13580	9000	8450	-1930	2070	600	N0
ATOM 12735	CZ	ARGE	3	-11.197	12.544	1.727	1.00	81.85	C0	
ANISOU12735	CZ	ARGE	3	13350	9130	8620	-2140	2210	550	C0
ATOM 12736	NH1	ARGE	3	-10.211	13.358	1.377	1.00	84.34	N0	
ANISOU12736	NH1	ARGE	3	13810	9360	8880	-2430	2360	580	N0
ATOM 12737	NH2	ARGE	3	-10.967	11.577	2.601	1.00	79.11	N0	
ANISOU12737	NH2	ARGE	3	12610	8990	8460	-2060	2190	470	N0
ATOM 12738	H	ARGE	3	-14.039	13.969	-3.553	1.00	88.78	H0	
ANISOU12738	H	ARGE	3	15810	9430	8500	-1930	2100	930	H0
ATOM 12739	HA	ARGE	3	-13.918	11.359	-3.033	1.00	83.55	H0	
ANISOU12739	HA	ARGE	3	14390	9230	8130	-1780	2180	750	H0
ATOM 12740	HB2	ARGE	3	-14.976	13.376	-1.321	1.00	84.15	H0	
ANISOU12740	HB2	ARGE	3	14720	9010	8250	-1570	1830	810	H0
ATOM 12741	HB3	ARGE	3	-14.577	11.924	-0.834	1.00	81.91	H0	
ANISOU12741	HB3	ARGE	3	13960	9000	8160	-1550	1910	700	H0
ATOM 12742	HG2	ARGE	3	-12.311	12.381	-1.245	1.00	84.62	H0	
ANISOU12742	HG2	ARGE	3	14290	9330	8530	-2060	2280	690	H0

ATOM 12743	HG3	ARG E	3	-12.684	13.818	-1.803	1.00	86.95	H0	
ANISOU12743	HG3	ARG E	3	15080	9340	8610	-2120	2220	800	H0
ATOM 12744	HD2	ARG E	3	-12.173	14.435	0.244	1.00	85.70	H0	
ANISOU12744	HD2	ARG E	3	14670	9180	8710	-2160	2130	720	H0
ATOM 12745	HD3	ARG E	3	-13.691	14.075	0.514	1.00	83.81	H0	
ANISOU12745	HD3	ARG E	3	14430	8950	8460	-1790	1890	720	H0
ATOM 12746	HE	ARG E	3	-13.032	12.128	1.484	1.00	80.26	H0	
ANISOU12746	HE	ARG E	3	13280	8900	8320	-1750	1980	580	H0
ATOM 12747	HH11	ARG E	3	-10.348	14.000	0.797	1.00	85.58	H0	
ANISOU12747	HH11	ARG E	3	14250	9370	8900	-2490	2370	630	H0
ATOM 12748	HH12	ARG E	3	-9.411	13.246	1.724	1.00	84.57	H0	
ANISOU12748	HH12	ARG E	3	13650	9470	9010	-2570	2440	540	H0
ATOM 12749	HH21	ARG E	3	-11.620	11.038	2.841	1.00	77.91	H0	
ANISOU12749	HH21	ARG E	3	12370	8900	8340	-1880	2100	460	H0
ATOM 12750	HH22	ARG E	3	-10.162	11.477	2.945	1.00	79.72	H0	
ANISOU12750	HH22	ARG E	3	12510	9150	8630	-2190	2270	440	H0
ATOM 12751	N	ALA E	4	-16.857	12.429	-3.645	1.00	80.49	N0	
ANISOU12751	N	ALA E	4	14570	8580	7430	-1270	1670	900	N0
ATOM 12752	CA	ALA E	4	-18.272	12.113	-3.954	1.00	78.75	C0	
ANISOU12752	CA	ALA E	4	14400	8400	7120	-990	1440	930	C0
ATOM 12753	C	ALA E	4	-18.349	10.940	-4.939	1.00	76.99	C0	
ANISOU12753	C	ALA E	4	14100	8330	6820	-1010	1520	900	C0
ATOM 12754	O	ALA E	4	-19.197	10.049	-4.731	1.00	74.55	O0	
ANISOU12754	O	ALA E	4	13580	8180	6570	-830	1390	850	O0
ATOM 12755	CB	ALA E	4	-18.969	13.338	-4.500	1.00	80.70	C0	
ANISOU12755	CB	ALA E	4	15080	8420	7170	-890	1290	1040	C0
ATOM 12756	H	ALA E	4	-16.648	13.288	-3.864	1.00	82.17	H0	
ANISOU12756	H	ALA E	4	15030	8640	7550	-1350	1680	960	H0
ATOM 12757	HA	ALA E	4	-18.716	11.842	-3.122	1.00	77.10	H0	
ANISOU12757	HA	ALA E	4	13980	8270	7040	-850	1350	880	H0
ATOM 12758	HB1	ALA E	4	-19.914	13.147	-4.621	1.00	80.49	H0	
ANISOU12758	HB1	ALA E	4	15050	8430	7100	-690	1130	1050	H0
ATOM 12759	HB2	ALA E	4	-18.866	14.076	-3.877	1.00	81.08	H0	
ANISOU12759	HB2	ALA E	4	15190	8350	7260	-890	1260	1050	H0
ATOM 12760	HB3	ALA E	4	-18.578	13.580	-5.355	1.00	82.36	H0	
ANISOU12760	HB3	ALA E	4	15510	8550	7230	-1030	1380	1100	H0
ATOM 12761	N	ASPE	5	-17.498	10.954	-5.968	1.00	77.77	N0	
ANISOU12761	N	ASPE	5	14380	8390	6780	-1240	1720	930	N0
ATOM 12762	CA	ASPE	5	-17.429	9.905	-7.021	1.00	77.34	C0	
ANISOU12762	CA	ASPE	5	14310	8460	6620	-1300	1830	900	C0
ATOM 12763	C	ASPE	5	-16.871	8.614	-6.414	1.00	74.43	C0	
ANISOU12763	C	ASPE	5	13500	8300	6470	-1320	1960	770	C0
ATOM 12764	O	ASPE	5	-17.444	7.546	-6.695	1.00	73.15	O0	
ANISOU12764	O	ASPE	5	13210	8270	6310	-1220	1910	720	O0
ATOM 12765	CB	ASPE	5	-16.606	10.376	-8.223	1.00	80.00	C0	
ANISOU12765	CB	ASPE	5	14970	8690	6740	-1550	2030	960	C0
ATOM 12766	CG	ASPE	5	-17.357	11.343	-9.121	1.00	82.43	C0	
ANISOU12766	CG	ASPE	5	15740	8810	6770	-1490	1870	1090	C0
ATOM 12767	OD1	ASPE	5	-18.530	11.054	-9.436	1.00	81.95	O0	
ANISOU12767	OD1	ASPE	5	15730	8780	6620	-1280	1650	1110	O0
ATOM 12768	OD2	ASPE	5	-16.769	12.381	-9.487	1.00	85.09	O0	
ANISOU12768	OD2	ASPE	5	16390	8960	6990	-1670	1970	1180	O0
ATOM 12769	H	ASPE	5	-16.897	11.628	-6.090	1.00	79.08	H0	
ANISOU12769	H	ASPE	5	14700	8450	6900	-1390	1810	970	H0

ATOM 12770	HA	ASPE	5	-18.348	9.727	-7.331	1.00	77.22	H0	
ANISOU12770	HA	ASPE	5	14360	8460	6520	-1150	1670	920	H0
ATOM 12771	HB2	ASPE	5	-15.794	10.816	-7.901	1.00	80.58	H0	
ANISOU12771	HB2	ASPE	5	15020	8710	6880	-1700	2160	960	H0
ATOM 12772	HB3	ASPE	5	-16.342	9.599	-8.757	1.00	80.04	H0	
ANISOU12772	HB3	ASPE	5	14900	8790	6720	-1610	2150	920	H0
ATOM 12773	N	ILEE	6	-15.801	8.716	-5.620	1.00	73.32	N0	
ANISOU12773	N	ILEE	6	13160	8180	6520	-1460	2110	730	N0
ATOM 12774	CA	ILEE	6	-15.163	7.565	-4.915	1.00	72.02	C0	
ANISOU12774	CA	ILEE	6	12570	8210	6580	-1470	2230	620	C0
ATOM 12775	C	ILEE	6	-16.219	6.889	-4.030	1.00	69.89	C0	
ANISOU12775	C	ILEE	6	12070	8040	6450	-1220	2020	570	C0
ATOM 12776	O	ILEE	6	-16.322	5.645	-4.069	1.00	68.35	O0	
ANISOU12776	O	ILEE	6	11660	7990	6320	-1170	2060	500	O0
ATOM 12777	CB	ILEE	6	-13.935	8.023	-4.101	1.00	72.45	C0	
ANISOU12777	CB	ILEE	6	12460	8260	6800	-1650	2380	590	C0
ATOM 12778	CG1	ILEE	6	-12.779	8.443	-5.012	1.00	75.38	C0	
ANISOU12778	CG1	ILEE	6	12990	8580	7060	-1930	2640	620	C0
ATOM 12779	CG2	ILEE	6	-13.504	6.948	-3.110	1.00	70.82	C0	
ANISOU12779	CG2	ILEE	6	11820	8240	6850	-1590	2420	500	C0
ATOM 12780	CD1	ILEE	6	-11.755	9.330	-4.337	1.00	76.69	C0	
ANISOU12780	CD1	ILEE	6	13110	8700	7330	-2130	2740	630	C0
ATOM 12781	H	ILEE	6	-15.388	9.512	-5.460	1.00	74.48	H0	
ANISOU12781	H	ILEE	6	13410	8230	6650	-1560	2150	770	H0
ATOM 12782	HA	ILEE	6	-14.864	6.923	-5.584	1.00	72.43	H0	
ANISOU12782	HA	ILEE	6	12610	8320	6590	-1530	2360	590	H0
ATOM 12783	HB	ILEE	6	-14.205	8.819	-3.579	1.00	72.58	H0	
ANISOU12783	HB	ILEE	6	12560	8180	6830	-1610	2270	630	H0
ATOM 12784	HG12	ILEE	6	-12.329	7.636	-5.340	1.00	75.30	H0	
ANISOU12784	HG12	ILEE	6	12840	8680	7090	-1970	2780	560	H0
ATOM 12785	HG13	ILEE	6	-13.145	8.919	-5.787	1.00	76.59	H0	
ANISOU12785	HG13	ILEE	6	13440	8630	7030	-1950	2610	680	H0
ATOM 12786	HG21	ILEE	6	-14.091	6.964	-2.334	1.00	69.42	H0	
ANISOU12786	HG21	ILEE	6	11550	8070	6750	-1460	2270	490	H0
ATOM 12787	HG22	ILEE	6	-12.590	7.115	-2.823	1.00	71.23	H0	
ANISOU12787	HG22	ILEE	6	11760	8310	6990	-1730	2550	480	H0
ATOM 12788	HG23	ILEE	6	-13.552	6.074	-3.534	1.00	70.39	H0	
ANISOU12788	HG23	ILEE	6	11680	8270	6790	-1560	2480	460	H0
ATOM 12789	HD11	ILEE	6	-12.203	10.083	-3.916	1.00	76.53	H0	
ANISOU12789	HD11	ILEE	6	13220	8560	7300	-2070	2590	670	H0
ATOM 12790	HD12	ILEE	6	-11.124	9.659	-5.000	1.00	78.32	H0	
ANISOU12790	HD12	ILEE	6	13450	8860	7450	-2310	2890	650	H0
ATOM 12791	HD13	ILEE	6	-11.276	8.820	-3.662	1.00	75.59	H0	
ANISOU12791	HD13	ILEE	6	12680	8680	7370	-2130	2780	560	H0
ATOM 12792	N	LEUE	7	-16.982	7.684	-3.277	1.00	69.71	N0	
ANISOU12792	N	LEUE	7	12100	7940	6450	-1080	1820	610	N0
ATOM 12793	CA	LEUE	7	-17.981	7.185	-2.299	1.00	68.29	C0	
ANISOU12793	CA	LEUE	7	11690	7860	6390	-860	1620	570	C0
ATOM 12794	C	LEUE	7	-19.202	6.624	-3.039	1.00	67.93	C0	
ANISOU12794	C	LEUE	7	11730	7870	6220	-700	1470	580	C0
ATOM 12795	O	LEUE	7	-19.679	5.545	-2.638	1.00	65.62	O0	
ANISOU12795	O	LEUE	7	11180	7720	6030	-600	1420	520	O0
ATOM 12796	CB	LEUE	7	-18.364	8.317	-1.344	1.00	68.96	C0	
ANISOU12796	CB	LEUE	7	11840	7830	6530	-760	1470	610	C0

ATOM 12797	CG LEU E 7	-19.188	7.871	-0.140	1.00	68.27	C0	
ANISOU12797	CG LEU E 7	11490	7860	6590	-560	1310	560	C0
ATOM 12798	CD1 LEU E 7	-18.570	8.378	1.155	1.00	68.00	C0	
ANISOU12798	CD1 LEU E 7	11320	7800	6720	-600	1340	530	C0
ATOM 12799	CD2 LEU E 7	-20.638	8.313	-0.283	1.00	68.97	C0	
ANISOU12799	CD2 LEU E 7	11720	7910	6570	-330	1080	600	C0
ATOM 12800	H LEU E 7	-16.932	8.593	-3.319	1.00	70.80	H0	
ANISOU12800	H LEU E 7	12430	7950	6520	-1120	1790	670	H0
ATOM 12801	HA LEU E 7	-17.566	6.454	-1.784	1.00	67.11	H0	
ANISOU12801	HA LEU E 7	11300	7810	6390	-870	1690	510	H0
ATOM 12802	HB2 LEU E 7	-17.544	8.744	-1.025	1.00	69.49	H0	
ANISOU12802	HB2 LEU E 7	11900	7850	6650	-890	1570	610	H0
ATOM 12803	HB3 LEU E 7	-18.872	8.987	-1.845	1.00	70.24	H0	
ANISOU12803	HB3 LEU E 7	12250	7890	6550	-710	1390	670	H0
ATOM 12804	HG LEU E 7	-19.176	6.883	-0.113	1.00	67.13	H0	
ANISOU12804	HG LEU E 7	11150	7840	6510	-550	1350	510	H0
ATOM 12805	HD11 LEU E 7	-17.727	7.919	1.314	1.00	67.54	H0	
ANISOU12805	HD11 LEU E 7	11110	7800	6750	-720	1460	490	H0
ATOM 12806	HD12 LEU E 7	-19.176	8.205	1.895	1.00	66.83	H0	
ANISOU12806	HD12 LEU E 7	11040	7710	6640	-470	1230	500	H0
ATOM 12807	HD13 LEU E 7	-18.408	9.334	1.084	1.00	69.04	H0	
ANISOU12807	HD13 LEU E 7	11650	7800	6790	-650	1330	570	H0
ATOM 12808	HD21 LEU E 7	-20.703	9.271	-0.126	1.00	69.74	H0	
ANISOU12808	HD21 LEU E 7	11990	7880	6630	-310	1030	640	H0
ATOM 12809	HD22 LEU E 7	-21.187	7.840	0.366	1.00	67.63	H0	
ANISOU12809	HD22 LEU E 7	11360	7840	6500	-210	1000	560	H0
ATOM 12810	HD23 LEU E 7	-20.953	8.110	-1.181	1.00	69.57	H0	
ANISOU12810	HD23 LEU E 7	11920	7990	6530	-320	1070	630	H0
ATOM 12811	N TYR E 8	-19.680	7.318	-4.078	1.00	69.72	N0	
ANISOU12811	N TYR E 8	12290	7980	6220	-690	1400	660	N0
ATOM 12812	CA TYR E 8	-20.773	6.842	-4.969	1.00	70.56	C0	
ANISOU12812	CA TYR E 8	12510	8140	6170	-570	1250	680	C0
ATOM 12813	C TYR E 8	-20.383	5.494	-5.587	1.00	68.96	C0	
ANISOU12813	C TYR E 8	12180	8060	5960	-670	1410	600	C0
ATOM 12814	O TYR E 8	-21.251	4.611	-5.653	1.00	68.60	O0	
ANISOU12814	O TYR E 8	12010	8140	5920	-560	1290	560	O0
ATOM 12815	CB TYR E 8	-21.092	7.861	-6.066	1.00	74.30	C0	
ANISOU12815	CB TYR E 8	13400	8450	6380	-580	1180	790	C0
ATOM 12816	CG TYR E 8	-22.054	7.368	-7.120	1.00	76.83	C0	
ANISOU12816	CG TYR E 8	13850	8830	6510	-500	1040	810	C0
ATOM 12817	CD1 TYR E 8	-23.416	7.285	-6.868	1.00	77.54	C0	
ANISOU12817	CD1 TYR E 8	13860	9000	6600	-260	780	810	C0
ATOM 12818	CD2 TYR E 8	-21.605	6.982	-8.374	1.00	79.04	C0	
ANISOU12818	CD2 TYR E 8	14320	9110	6600	-660	1180	810	C0
ATOM 12819	CE1 TYR E 8	-24.304	6.834	-7.833	1.00	79.01	C0	
ANISOU12819	CE1 TYR E 8	14150	9260	6610	-200	630	830	C0
ATOM 12820	CE2 TYR E 8	-22.479	6.532	-9.350	1.00	80.66	C0	
ANISOU12820	CE2 TYR E 8	14660	9370	6610	-590	1040	830	C0
ATOM 12821	CZ TYR E 8	-23.835	6.457	-9.080	1.00	80.83	C0	
ANISOU12821	CZ TYR E 8	14600	9480	6640	-370	760	830	C0
ATOM 12822	OH TYR E 8	-24.700	6.017	-10.042	1.00	82.82	O0	
ANISOU12822	OH TYR E 8	14960	9800	6700	-320	610	840	O0
ATOM 12823	H TYR E 8	-19.371	8.142	-4.312	1.00	71.03	H0	
ANISOU12823	H TYR E 8	12660	8020	6310	-760	1430	720	H0

ATOM 12824 HA TYR E 8	-21.587	6.708	-4.420	1.00	69.60		H0
ANISOU12824 HA TYR E 8	12260	8080	6110	-420	1100	670	H0
ATOM 12825 HB2 TYR E 8	-21.469	8.661	-5.644	1.00	74.65		H0
ANISOU12825 HB2 TYR E 8	13520	8410	6430	-480	1060	830	H0
ATOM 12826 HB3 TYR E 8	-20.253	8.121	-6.501	1.00	75.34		H0
ANISOU12826 HB3 TYR E 8	13660	8510	6450	-750	1340	810	H0
ATOM 12827 HD1 TYR E 8	-23.746	7.541	-6.022	1.00	76.54		H0
ANISOU12827 HD1 TYR E 8	13600	8890	6590	-150	690	800	H0
ATOM 12828 HD2 TYR E 8	-20.684	7.031	-8.569	1.00	79.44		H0
ANISOU12828 HD2 TYR E 8	14420	9110	6650	-820	1370	810	H0
ATOM 12829 HE1 TYR E 8	-25.226	6.788	-7.643	1.00	78.83		H0
ANISOU12829 HE1 TYR E 8	14050	9310	6590	-40	450	830	H0
ATOM 12830 HE2 TYR E 8	-22.153	6.277	-10.198	1.00	81.65		H0
ANISOU12830 HE2 TYR E 8	14930	9490	6600	-710	1140	830	H0
ATOM 12831 N ASN E 9	-19.124	5.341	-6.010	1.00	68.17		N0
ANISOU12831 N ASN E 9	12100	7940	5860	-880	1660	580	N0
ATOM 12832 CA ASN E 9	-18.605	4.104	-6.659	1.00	67.49		C0
ANISOU12832 CA ASN E 9	11920	7960	5760	-980	1840	500	C0
ATOM 12833 C ASN E 9	-18.498	2.971	-5.630	1.00	65.03		C0
ANISOU12833 C ASN E 9	11220	7790	5700	-910	1870	400	C0
ATOM 12834 O ASN E 9	-18.945	1.860	-5.950	1.00	63.30		O0
ANISOU12834 O ASN E 9	10930	7660	5470	-870	1850	340	O0
ATOM 12835 CB ASN E 9	-17.263	4.343	-7.357	1.00	68.75		C0
ANISOU12835 CB ASN E 9	12210	8060	5850	-1210	2120	500	C0
ATOM 12836 CG ASN E 9	-17.398	5.070	-8.680	1.00	70.88		C0
ANISOU12836 CG ASN E 9	12890	8210	5830	-1300	2130	590	C0
ATOM 12837 OD1 ASN E 9	-18.500	5.427	-9.096	1.00	71.01		O0
ANISOU12837 OD1 ASN E 9	13110	8180	5690	-1180	1910	650	O0
ATOM 12838 ND2 ASN E 9	-16.280	5.292	-9.351	1.00	71.87		N0
ANISOU12838 ND2 ASN E 9	13140	8290	5870	-1510	2390	590	N0
ATOM 12839 H ASN E 9	-18.499	5.999	-5.929	1.00	69.01		H0
ANISOU12839 H ASN E 9	12290	7970	5970	-970	1740	610	H0
ATOM 12840 HA ASN E 9	-19.254	3.830	-7.349	1.00	68.04		H0
ANISOU12840 HA ASN E 9	12120	8040	5690	-940	1760	510	H0
ATOM 12841 HB2 ASN E 9	-16.686	4.866	-6.764	1.00	68.62		H0
ANISOU12841 HB2 ASN E 9	12120	8010	5940	-1260	2180	520	H0
ATOM 12842 HB3 ASN E 9	-16.831	3.478	-7.513	1.00	68.50		H0
ANISOU12842 HB3 ASN E 9	12040	8110	5870	-1250	2260	430	H0
ATOM 12843 HD21 ASN E 9	-16.305	5.720	-10.125	1.00	73.64		H0
ANISOU12843 HD21 ASN E 9	13620	8440	5920	-1580	2410	650	H0
ATOM 12844 HD22 ASN E 9	-15.506	5.012	-9.028	1.00	71.77		H0
ANISOU12844 HD22 ASN E 9	12950	8330	5980	-1590	2540	540	H0
ATOM 12845 N ILE E 10	-17.919	3.237	-4.452	1.00	64.35		N0
ANISOU12845 N ILE E 10	10920	7710	5820	-910	1900	390	N0
ATOM 12846 CA ILE E 10	-17.761	2.237	-3.353	1.00	62.99		C0
ANISOU12846 CA ILE E 10	10390	7660	5880	-840	1910	310	C0
ATOM 12847 C ILE E 10	-19.122	1.586	-3.090	1.00	63.19		C0
ANISOU12847 C ILE E 10	10340	7760	5910	-670	1700	290	C0
ATOM 12848 O ILE E 10	-19.192	0.348	-3.138	1.00	62.43		O0
ANISOU12848 O ILE E 10	10100	7760	5870	-660	1750	220	O0
ATOM 12849 CB ILE E 10	-17.173	2.867	-2.071	1.00	61.55		C0
ANISOU12849 CB ILE E 10	10040	7470	5880	-850	1910	320	C0
ATOM 12850 CG1 ILE E 10	-15.656	3.039	-2.175	1.00	62.39		C0
ANISOU12850 CG1 ILE E 10	10090	7560	6050	-1040	2150	310	C0

ATOM 12851	CG2 ILE E 10	-17.552	2.053	-0.838	1.00	59.23	C0	
ANISOU12851	CG2 ILE E 10	9440	7280	5790	-720	1820	270	C0
ATOM 12852	CD1 ILE E 10	-15.056	3.919	-1.105	1.00	61.87	C0	
ANISOU12852	CD1 ILE E 10	9930	7460	6120	-1090	2140	330	C0
ATOM 12853	H ILE E 10	-17.576	4.057	-4.250	1.00	64.88	H0	
ANISOU12853	H ILE E 10	11060	7700	5890	-960	1910	430	H0
ATOM 12854	HA ILE E 10	-17.146	1.546	-3.659	1.00	63.20	H0	
ANISOU12854	HA ILE E 10	10350	7730	5940	-910	2060	270	H0
ATOM 12855	HB ILE E 10	-17.570	3.767	-1.970	1.00	61.95	H0	
ANISOU12855	HB ILE E 10	10230	7440	5870	-820	1810	380	H0
ATOM 12856	HG12 ILE E 10	-15.236	2.154	-2.125	1.00	61.96	H0	
ANISOU12856	HG12 ILE E 10	9870	7590	6090	-1050	2250	250	H0
ATOM 12857	HG13 ILE E 10	-15.442	3.422	-3.053	1.00	63.75	H0	
ANISOU12857	HG13 ILE E 10	10460	7670	6090	-1130	2230	340	H0
ATOM 12858	HG21 ILE E 10	-18.494	2.184	-0.635	1.00	58.84	H0	
ANISOU12858	HG21 ILE E 10	9420	7240	5700	-610	1660	290	H0
ATOM 12859	HG22 ILE E 10	-17.019	2.342	-0.078	1.00	58.95	H0	
ANISOU12859	HG22 ILE E 10	9290	7250	5860	-750	1840	270	H0
ATOM 12860	HG23 ILE E 10	-17.385	1.109	-1.006	1.00	59.01	H0	
ANISOU12860	HG23 ILE E 10	9300	7320	5800	-720	1890	220	H0
ATOM 12861	HD11 ILE E 10	-15.614	4.707	-0.980	1.00	62.12	H0	
ANISOU12861	HD11 ILE E 10	10110	7410	6080	-1050	2020	370	H0
ATOM 12862	HD12 ILE E 10	-14.163	4.196	-1.373	1.00	63.04	H0	
ANISOU12862	HD12 ILE E 10	10090	7590	6260	-1240	2290	330	H0
ATOM 12863	HD13 ILE E 10	-15.003	3.426	-0.268	1.00	60.77	H0	
ANISOU12863	HD13 ILE E 10	9570	7400	6120	-1030	2110	290	H0
ATOM 12864	N ARGE 11	-20.154	2.392	-2.824	1.00	64.89	N0	
ANISOU12864	N ARGE 11	10650	7940	6070	-550	1490	350	N0
ATOM 12865	CA ARGE 11	-21.486	1.894	-2.390	1.00	66.24	C0	
ANISOU12865	CA ARGE 11	10690	8210	6260	-380	1280	330	C0
ATOM 12866	C ARGE 11	-22.244	1.355	-3.612	1.00	67.92	C0	
ANISOU12866	C ARGE 11	11060	8460	6290	-380	1210	330	C0
ATOM 12867	O ARGE 11	-23.150	0.519	-3.412	1.00	68.82	O0	
ANISOU12867	O ARGE 11	11040	8680	6430	-290	1090	280	O0
ATOM 12868	CB ARGE 11	-22.236	2.973	-1.595	1.00	67.56	C0	
ANISOU12868	CB ARGE 11	10880	8340	6450	-240	1090	380	C0
ATOM 12869	CG ARGE 11	-23.036	3.970	-2.421	1.00	70.37	C0	
ANISOU12869	CG ARGE 11	11520	8610	6600	-160	940	460	C0
ATOM 12870	CD ARGE 11	-24.176	4.585	-1.623	1.00	71.36	C0	
ANISOU12870	CD ARGE 11	11590	8760	6770	50	720	480	C0
ATOM 12871	NE ARGE 11	-25.191	5.161	-2.502	1.00	74.46	N0	
ANISOU12871	NE ARGE 11	12210	9120	6970	170	530	550	N0
ATOM 12872	CZ ARGE 11	-26.091	4.466	-3.206	1.00	75.50	C0	
ANISOU12872	CZ ARGE 11	12320	9360	7000	220	420	530	C0
ATOM 12873	NH1 ARGE 11	-26.957	5.102	-3.979	1.00	77.47	N0	
ANISOU12873	NH1 ARGE 11	12780	9580	7070	330	230	600	N0
ATOM 12874	NH2 ARGE 11	-26.125	3.144	-3.144	1.00	74.14	N0	
ANISOU12874	NH2 ARGE 11	11940	9330	6900	150	470	450	N0
ATOM 12875	H ARGE 11	-20.101	3.299	-2.896	1.00	65.75	H0	
ANISOU12875	H ARGE 11	10900	7970	6120	-560	1460	400	H0
ATOM 12876	HA ARGE 11	-21.329	1.135	-1.782	1.00	65.03	H0	
ANISOU12876	HA ARGE 11	10330	8130	6240	-370	1320	280	H0
ATOM 12877	HB2 ARGE 11	-22.844	2.524	-0.973	1.00	66.48	H0	
ANISOU12877	HB2 ARGE 11	10570	8290	6400	-140	1000	350	H0

ATOM 12878 HB3 ARG E 11	-21.581	3.470	-1.061	1.00	67.26	H0	
ANISOU12878 HB3 ARG E 11	10820	8250	6490	-280	1160	390	H0
ATOM 12879 HG2 ARG E 11	-22.441	4.685	-2.731	1.00	71.33	H0	
ANISOU12879 HG2 ARG E 11	11820	8620	6670	-230	1010	510	H0
ATOM 12880 HG3 ARG E 11	-23.405	3.521	-3.210	1.00	71.01	H0	
ANISOU12880 HG3 ARG E 11	11680	8730	6580	-170	910	460	H0
ATOM 12881 HD2 ARG E 11	-24.588	3.899	-1.056	1.00	70.27	H0	
ANISOU12881 HD2 ARG E 11	11240	8730	6730	110	680	440	H0
ATOM 12882 HD3 ARG E 11	-23.820	5.287	-1.038	1.00	71.30	H0	
ANISOU12882 HD3 ARG E 11	11600	8670	6820	60	740	500	H0
ATOM 12883 HE ARG E 11	-25.207	6.030	-2.581	1.00	75.19	H0	
ANISOU12883 HE ARG E 11	12460	9110	7000	210	490	600	H0
ATOM 12884 HH11 ARG E 11	-26.943	5.980	-4.024	1.00	78.22	H0	
ANISOU12884 HH11 ARG E 11	13030	9570	7120	380	190	660	H0
ATOM 12885 HH12 ARG E 11	-27.552	4.647	-4.439	1.00	77.77	H0	
ANISOU12885 HH12 ARG E 11	12800	9710	7040	360	150	590	H0
ATOM 12886 HH21 ARG E 11	-25.554	2.708	-2.638	1.00	73.09	H0	
ANISOU12886 HH21 ARG E 11	11670	9210	6880	90	590	410	H0
ATOM 12887 HH22 ARG E 11	-26.724	2.700	-3.614	1.00	74.61	H0	
ANISOU12887 HH22 ARG E 11	12000	9460	6890	170	390	440	H0
ATOM 12888 N GLN E 12	-21.868	1.793	-4.819	1.00	69.77	N0	
ANISOU12888 N GLN E 12	11580	8600	6330	-480	1290	370	N0
ATOM 12889 CA GLN E 12	-22.397	1.294	-6.119	1.00	70.66	C0	
ANISOU12889 CA GLN E 12	11880	8740	6230	-510	1250	360	C0
ATOM 12890 C GLN E 12	-22.012	-0.182	-6.289	1.00	69.09	C0	
ANISOU12890 C GLN E 12	11530	8620	6090	-590	1400	250	C0
ATOM 12891 O GLN E 12	-22.929	-0.998	-6.493	1.00	69.59	O0	
ANISOU12891 O GLN E 12	11550	8780	6120	-540	1270	210	O0
ATOM 12892 CB GLN E 12	-21.854	2.146	-7.272	1.00	74.49	C0	
ANISOU12892 CB GLN E 12	12720	9090	6490	-630	1340	430	C0
ATOM 12893 CG GLN E 12	-22.519	1.896	-8.621	1.00	77.27	C0	
ANISOU12893 CG GLN E 12	13320	9450	6580	-650	1250	440	C0
ATOM 12894 CD GLN E 12	-23.847	2.600	-8.770	1.00	78.67	C0	
ANISOU12894 CD GLN E 12	13620	9630	6640	-480	950	520	C0
ATOM 12895 OE1 GLN E 12	-24.442	3.072	-7.801	1.00	79.62	O0	
ANISOU12895 OE1 GLN E 12	13590	9770	6890	-330	800	540	O0
ATOM 12896 NE2 GLN E 12	-24.329	2.673	-9.999	1.00	80.05	N0	
ANISOU12896 NE2 GLN E 12	14070	9790	6550	-500	860	560	N0
ATOM 12897 H GLN E 12	-21.252	2.455	-4.919	1.00	70.24	H0	
ANISOU12897 H GLN E 12	11740	8580	6360	-540	1370	400	H0
ATOM 12898 HA GLN E 12	-23.379	1.365	-6.103	1.00	70.94	H0	
ANISOU12898 HA GLN E 12	11920	8820	6220	-400	1060	380	H0
ATOM 12899 HB2 GLN E 12	-21.966	3.088	-7.038	1.00	74.66	H0	
ANISOU12899 HB2 GLN E 12	12830	9040	6500	-580	1260	500	H0
ATOM 12900 HB3 GLN E 12	-20.895	1.974	-7.357	1.00	74.39	H0	
ANISOU12900 HB3 GLN E 12	12690	9060	6520	-740	1530	400	H0
ATOM 12901 HG2 GLN E 12	-21.917	2.200	-9.334	1.00	78.44	H0	
ANISOU12901 HG2 GLN E 12	13670	9530	6610	-760	1380	470	H0
ATOM 12902 HG3 GLN E 12	-22.653	0.935	-8.736	1.00	76.71	H0	
ANISOU12902 HG3 GLN E 12	13150	9460	6540	-660	1280	370	H0
ATOM 12903 HE21 GLN E 12	-25.098	3.082	-10.146	1.00	80.92	H0	
ANISOU12903 HE21 GLN E 12	14250	9910	6580	-400	680	610	H0
ATOM 12904 HE22 GLN E 12	-23.884	2.311	-10.671	1.00	80.95	H0	
ANISOU12904 HE22 GLN E 12	14290	9890	6570	-620	990	530	H0

ATOM 12905 N THR E 13	-20.717	-0.513	-6.196	1.00	67.31		N0
ANISOU12905 N THR E 13	11240	8370	5970	-700	1650	210	N0
ATOM 12906 CA THR E 13	-20.177	-1.878	-6.462	1.00	66.12		C0
ANISOU12906 CA THR E 13	10980	8270	5870	-770	1820	110	C0
ATOM 12907 C THR E 13	-20.264	-2.742	-5.191	1.00	63.39		C0
ANISOU12907 C THR E 13	10300	8010	5770	-680	1800	50	C0
ATOM 12908 O THR E 13	-20.508	-3.955	-5.331	1.00	62.33		O0
ANISOU12908 O THR E 13	10100	7920	5660	-680	1820	-20	O0
ATOM 12909 CB THR E 13	-18.752	-1.844	-7.036	1.00	67.07		C0
ANISOU12909 CB THR E 13	11170	8340	5970	-910	2110	90	C0
ATOM 12910 OG1 THR E 13	-17.817	-1.718	-5.966	1.00	66.42		O0
ANISOU12910 OG1 THR E 13	10840	8270	6120	-920	2220	80	O0
ATOM 12911 CG2 THR E 13	-18.529	-0.732	-8.039	1.00	68.98		C0
ANISOU12911 CG2 THR E 13	11730	8490	5990	-1010	2150	160	C0
ATOM 12912 H THR E 13	-20.070	0.076	-5.942	1.00	67.52		H0
ANISOU12912 H THR E 13	11260	8350	6040	-740	1730	240	H0
ATOM 12913 HA THR E 13	-20.758	-2.292	-7.141	1.00	66.79		H0
ANISOU12913 HA THR E 13	11170	8380	5830	-770	1760	90	H0
ATOM 12914 HB THR E 13	-18.590	-2.705	-7.489	1.00	67.54		H0
ANISOU12914 HB THR E 13	11230	8430	6010	-950	2210	20	H0
ATOM 12915 HG21 THR E 13	-19.306	-0.659	-8.623	1.00	69.63		H0
ANISOU12915 HG21 THR E 13	11970	8560	5920	-990	2030	190	H0
ATOM 12916 HG22 THR E 13	-17.740	-0.930	-8.574	1.00	69.97		H0
ANISOU12916 HG22 THR E 13	11910	8600	6080	-1120	2350	130	H0
ATOM 12917 HG23 THR E 13	-18.397	0.110	-7.570	1.00	68.79		H0
ANISOU12917 HG23 THR E 13	11700	8420	6010	-1010	2110	220	H0
ATOM 12918 N SER E 14	-20.078	-2.154	-4.003	1.00	61.20		N0
ANISOU12918 N SER E 14	9850	7740	5660	-620	1750	90	N0
ATOM 12919 CA SER E 14	-20.118	-2.862	-2.693	1.00	58.78		C0
ANISOU12919 CA SER E 14	9250	7500	5580	-540	1720	50	C0
ATOM 12920 C SER E 14	-21.394	-3.708	-2.593	1.00	56.87		C0
ANISOU12920 C SER E 14	8950	7340	5320	-470	1550	20	C0
ATOM 12921 O SER E 14	-22.464	-3.198	-2.980	1.00	57.67		O0
ANISOU12921 O SER E 14	9170	7460	5290	-420	1370	60	O0
ATOM 12922 CB SER E 14	-20.021	-1.896	-1.537	1.00	57.94		C0
ANISOU12922 CB SER E 14	9030	7390	5600	-490	1640	110	C0
ATOM 12923 OG SER E 14	-20.094	-2.582	-0.298	1.00	56.62		O0
ANISOU12923 OG SER E 14	8600	7290	5620	-420	1610	80	O0
ATOM 12924 H SER E 14	-19.904	-1.265	-3.909	1.00	61.56		H0
ANISOU12924 H SER E 14	9970	7730	5690	-630	1730	140	H0
ATOM 12925 HA SER E 14	-19.336	-3.476	-2.655	1.00	58.67		H0
ANISOU12925 HA SER E 14	9150	7490	5650	-590	1870	10	H0
ATOM 12926 HB2 SER E 14	-19.169	-1.410	-1.588	1.00	58.46		H0
ANISOU12926 HB2 SER E 14	9130	7410	5680	-550	1750	120	H0
ATOM 12927 HB3 SER E 14	-20.753	-1.241	-1.595	1.00	58.16		H0
ANISOU12927 HB3 SER E 14	9150	7400	5540	-430	1500	150	H0
ATOM 12928 N ARG E 15	-21.277	-4.943	-2.091	1.00	54.85		N0
ANISOU12928 N ARG E 15	8520	7130	5190	-460	1610	-40	N0
ATOM 12929 CA ARG E 15	-22.414	-5.880	-1.853	1.00	53.06		C0
ANISOU12929 CA ARG E 15	8210	6980	4970	-420	1470	-80	C0
ATOM 12930 C ARG E 15	-22.409	-6.294	-0.385	1.00	50.48		C0
ANISOU12930 C ARG E 15	7630	6700	4860	-350	1440	-90	C0
ATOM 12931 O ARG E 15	-21.803	-7.300	-0.021	1.00	49.61		O0
ANISOU12931 O ARG E 15	7410	6580	4870	-360	1560	-130	O0

ATOM 12932 CB ARG E 15	-22.315	-7.104	-2.769	1.00	53.70	C0	
ANISOU12932 CB ARG E 15	8390	7040	4980	-500	1570	-160	C0
ATOM 12933 CG ARG E 15	-22.226	-6.768	-4.252	1.00	55.37	C0	
ANISOU12933 CG ARG E 15	8870	7200	4970	-580	1620	-170	C0
ATOM 12934 CD ARG E 15	-21.656	-7.887	-5.105	1.00	56.04	C0	
ANISOU12934 CD ARG E 15	9060	7240	5000	-660	1800	-260	C0
ATOM 12935 NE ARG E 15	-20.419	-8.424	-4.556	1.00	55.49	N0	
ANISOU12935 NE ARG E 15	8840	7130	5110	-650	2010	-300	N0
ATOM 12936 CZ ARG E 15	-19.660	-9.352	-5.130	1.00	56.86	C0	
ANISOU12936 CZ ARG E 15	9060	7250	5280	-690	2210	-380	C0
ATOM 12937 NH1 ARG E 15	-18.560	-9.758	-4.516	1.00	56.70	N0	
ANISOU12937 NH1 ARG E 15	8870	7220	5450	-650	2380	-410	N0
ATOM 12938 NH2 ARG E 15	-19.991	-9.872	-6.302	1.00	58.14	N0	
ANISOU12938 NH2 ARG E 15	9450	7390	5260	-770	2240	-450	N0
ATOM 12939 H ARG E 15	-20.470	-5.295	-1.857	1.00	54.66	H0	
ANISOU12939 H ARG E 15	8420	7090	5270	-480	1740	-70	H0
ATOM 12940 HA ARG E 15	-23.255	-5.409	-2.049	1.00	53.31	H0	
ANISOU12940 HA ARG E 15	8300	7040	4910	-380	1320	-50	H0
ATOM 12941 HB2 ARG E 15	-21.527	-7.621	-2.510	1.00	53.52	H0	
ANISOU12941 HB2 ARG E 15	8290	6990	5060	-510	1710	-200	H0
ATOM 12942 HB3 ARG E 15	-23.104	-7.667	-2.621	1.00	53.55	H0	
ANISOU12942 HB3 ARG E 15	8320	7070	4960	-480	1470	-190	H0
ATOM 12943 HG2 ARG E 15	-23.124	-6.548	-4.583	1.00	55.68	H0	
ANISOU12943 HG2 ARG E 15	8990	7280	4890	-560	1470	-150	H0
ATOM 12944 HG3 ARG E 15	-21.666	-5.973	-4.367	1.00	55.58	H0	
ANISOU12944 HG3 ARG E 15	8950	7190	4970	-590	1680	-130	H0
ATOM 12945 HD2 ARG E 15	-22.318	-8.608	-5.174	1.00	56.15	H0	
ANISOU12945 HD2 ARG E 15	9070	7280	4990	-670	1730	-300	H0
ATOM 12946 HD3 ARG E 15	-21.486	-7.547	-6.009	1.00	57.28	H0	
ANISOU12946 HD3 ARG E 15	9390	7360	5010	-720	1850	-260	H0
ATOM 12947 HE ARG E 15	-20.151	-8.115	-3.788	1.00	54.76	H0	
ANISOU12947 HE ARG E 15	8610	7050	5140	-610	2000	-270	H0
ATOM 12948 HH11 ARG E 15	-18.336	-9.410	-3.740	1.00	55.75	H0	
ANISOU12948 HH11 ARG E 15	8610	7120	5450	-610	2360	-370	H0
ATOM 12949 HH12 ARG E 15	-18.050	-10.368	-4.889	1.00	57.40	H0	
ANISOU12949 HH12 ARG E 15	8990	7270	5550	-670	2520	-470	H0
ATOM 12950 HH21 ARG E 15	-20.724	-9.610	-6.712	1.00	58.52	H0	
ANISOU12950 HH21 ARG E 15	9600	7460	5180	-790	2120	-430	H0
ATOM 12951 HH22 ARG E 15	-19.478	-10.488	-6.668	1.00	58.93	H0	
ANISOU12951 HH22 ARG E 15	9590	7450	5360	-790	2390	-510	H0
ATOM 12952 N PRO E 16	-23.088	-5.528	0.499	1.00	48.72	N0	
ANISOU12952 N PRO E 16	7310	6530	4680	-260	1290	-40	N0
ATOM 12953 CA PRO E 16	-23.044	-5.776	1.941	1.00	47.10	C0	
ANISOU12953 CA PRO E 16	6880	6370	4650	-210	1260	-30	C0
ATOM 12954 C PRO E 16	-23.384	-7.209	2.387	1.00	46.14	C0	
ANISOU12954 C PRO E 16	6630	6290	4610	-220	1270	-80	C0
ATOM 12955 O PRO E 16	-22.901	-7.616	3.428	1.00	44.77	O0	
ANISOU12955 O PRO E 16	6300	6120	4590	-190	1310	-80	O0
ATOM 12956 CB PRO E 16	-24.109	-4.810	2.488	1.00	47.07	C0	
ANISOU12956 CB PRO E 16	6840	6420	4610	-110	1070	10	C0
ATOM 12957 CG PRO E 16	-24.119	-3.680	1.489	1.00	48.16	C0	
ANISOU12957 CG PRO E 16	7200	6500	4600	-110	1040	50	C0
ATOM 12958 CD PRO E 16	-23.920	-4.365	0.155	1.00	49.40	C0	
ANISOU12958 CD PRO E 16	7510	6620	4630	-210	1130	20	C0

ATOM 12959 HA PRO E 16	-22.156	-5.515	2.289	1.00	46.86		H0
ANISOU12959 HA PRO E 16	6810	6300	4700	-220	1350	-20	H0
ATOM 12960 HB2 PRO E 16	-24.988	-5.242	2.535	1.00	46.99		H0
ANISOU12960 HB2 PRO E 16	6790	6480	4580	-90	980	0	H0
ATOM 12961 HB3 PRO E 16	-23.865	-4.486	3.381	1.00	46.30		H0
ANISOU12961 HB3 PRO E 16	6650	6330	4610	-70	1070	30	H0
ATOM 12962 HG2 PRO E 16	-24.972	-3.200	1.512	1.00	48.44		H0
ANISOU12962 HG2 PRO E 16	7250	6570	4580	-50	910	70	H0
ATOM 12963 HG3 PRO E 16	-23.393	-3.048	1.669	1.00	48.18		H0
ANISOU12963 HG3 PRO E 16	7230	6440	4630	-120	1110	80	H0
ATOM 12964 HD2 PRO E 16	-24.771	-4.643	-0.230	1.00	49.75		H0
ANISOU12964 HD2 PRO E 16	7590	6720	4600	-200	1030	10	H0
ATOM 12965 HD3 PRO E 16	-23.462	-3.778	-0.475	1.00	50.09		H0
ANISOU12965 HD3 PRO E 16	7750	6650	4640	-240	1180	40	H0
ATOM 12966 N ASPE 17	-24.193	-7.927	1.602	1.00	46.37		N0
ANISOU12966 N ASPE 17	6740	6350	4530	-260	1220	-120	N0
ATOM 12967 CA ASPE 17	-24.722	-9.274	1.947	1.00	46.34		C0
ANISOU12967 CA ASPE 17	6650	6380	4580	-300	1200	-170	C0
ATOM 12968 C ASPE 17	-23.924	-10.383	1.249	1.00	46.72		C0
ANISOU12968 C ASPE 17	6790	6330	4630	-370	1370	-230	C0
ATOM 12969 O ASPE 17	-24.326	-11.547	1.386	1.00	46.80		O0
ANISOU12969 O ASPE 17	6780	6340	4660	-410	1370	-280	O0
ATOM 12970 CB ASPE 17	-26.206	-9.358	1.589	1.00	47.34		C0
ANISOU12970 CB ASPE 17	6790	6610	4590	-320	1030	-180	C0
ATOM 12971 CG ASPE 17	-27.057	-8.394	2.392	1.00	47.38		C0
ANISOU12971 CG ASPE 17	6680	6720	4610	-220	870	-130	C0
ATOM 12972 OD1 ASPE 17	-26.725	-8.165	3.577	1.00	46.37		O0
ANISOU12972 OD1 ASPE 17	6410	6600	4620	-160	890	-100	O0
ATOM 12973 OD2 ASPE 17	-28.037	-7.873	1.826	1.00	48.79		O0
ANISOU12973 OD2 ASPE 17	6900	6970	4670	-200	720	-120	O0
ATOM 12974 H ASPE 17	-24.487	-7.624	0.796	1.00	47.28		H0
ANISOU12974 H ASPE 17	6980	6460	4530	-280	1180	-120	H0
ATOM 12975 HA ASPE 17	-24.635	-9.398	2.921	1.00	45.52		H0
ANISOU12975 HA ASPE 17	6410	6290	4590	-260	1200	-150	H0
ATOM 12976 HB2 ASPE 17	-26.322	-9.161	0.638	1.00	48.27		H0
ANISOU12976 HB2 ASPE 17	7050	6710	4580	-350	1010	-190	H0
ATOM 12977 HB3 ASPE 17	-26.528	-10.267	1.756	1.00	47.44		H0
ANISOU12977 HB3 ASPE 17	6760	6630	4620	-360	1030	-220	H0
ATOM 12978 N VAL E 18	-22.837	-10.047	0.547	1.00	47.28		N0
ANISOU12978 N VAL E 18	6970	6320	4670	-380	1520	-240	N0
ATOM 12979 CA VAL E 18	-21.989	-11.028	-0.197	1.00	48.75		C0
ANISOU12979 CA VAL E 18	7250	6420	4850	-430	1700	-310	C0
ATOM 12980 C VAL E 18	-20.555	-10.920	0.322	1.00	48.94		C0
ANISOU12980 C VAL E 18	7170	6400	5030	-390	1870	-300	C0
ATOM 12981 O VAL E 18	-19.990	-9.825	0.263	1.00	49.75		O0
ANISOU12981 O VAL E 18	7270	6510	5130	-380	1900	-250	O0
ATOM 12982 CB VAL E 18	-22.051	-10.798	-1.720	1.00	49.54		C0
ANISOU12982 CB VAL E 18	7590	6490	4750	-510	1750	-340	C0
ATOM 12983 CG1 VAL E 18	-21.307	-11.886	-2.478	1.00	50.72		C0
ANISOU12983 CG1 VAL E 18	7850	6540	4880	-560	1940	-430	C0
ATOM 12984 CG2 VAL E 18	-23.487	-10.687	-2.212	1.00	49.83		C0
ANISOU12984 CG2 VAL E 18	7720	6590	4620	-550	1540	-340	C0
ATOM 12985 H VAL E 18	-22.540	-9.190	0.477	1.00	47.37		H0
ANISOU12985 H VAL E 18	7000	6330	4660	-370	1520	-200	H0

ATOM 12986 HA VAL E 18	-22.318	-11.924	-0.009	1.00	48.64	H0	
ANISOU12986 HA VAL E 18	7220	6400	4870	-450	1690	-340	H0
ATOM 12987 HB VAL E 18	-21.600	-9.938	-1.908	1.00	49.75	H0	
ANISOU12987 HB VAL E 18	7650	6510	4750	-500	1780	-310	H0
ATOM 12988 HG11 VAL E 18	-20.350	-11.789	-2.331	1.00	50.75	H0	
ANISOU12988 HG11 VAL E 18	7800	6520	4970	-530	2070	-430	H0
ATOM 12989 HG12 VAL E 18	-21.497	-11.809	-3.429	1.00	51.73	H0	
ANISOU12989 HG12 VAL E 18	8140	6660	4860	-610	1950	-460	H0
ATOM 12990 HG13 VAL E 18	-21.596	-12.759	-2.160	1.00	50.62	H0	
ANISOU12990 HG13 VAL E 18	7800	6520	4920	-560	1920	-470	H0
ATOM 12991 HG21 VAL E 18	-24.002	-11.445	-1.884	1.00	49.71	H0	
ANISOU12991 HG21 VAL E 18	7650	6600	4640	-560	1490	-370	H0
ATOM 12992 HG22 VAL E 18	-23.499	-10.685	-3.185	1.00	50.95	H0	
ANISOU12992 HG22 VAL E 18	8020	6710	4630	-600	1570	-370	H0
ATOM 12993 HG23 VAL E 18	-23.881	-9.861	-1.882	1.00	49.39	H0	
ANISOU12993 HG23 VAL E 18	7620	6590	4560	-510	1440	-290	H0
ATOM 12994 N ILE E 19	-20.004	-12.020	0.832	1.00	49.91	N0	
ANISOU12994 N ILE E 19	7200	6480	5290	-350	1960	-330	N0
ATOM 12995 CA ILE E 19	-18.602	-12.093	1.338	1.00	50.77	C0	
ANISOU12995 CA ILE E 19	7170	6560	5560	-290	2120	-330	C0
ATOM 12996 C ILE E 19	-17.654	-11.872	0.153	1.00	52.54	C0	
ANISOU12996 C ILE E 19	7510	6740	5710	-330	2310	-370	C0
ATOM 12997 O ILE E 19	-17.727	-12.580	-0.849	1.00	53.08	O0	
ANISOU12997 O ILE E 19	7740	6750	5680	-370	2400	-450	O0
ATOM 12998 CB ILE E 19	-18.372	-13.418	2.101	1.00	51.06	C0	
ANISOU12998 CB ILE E 19	7110	6550	5740	-230	2150	-350	C0
ATOM 12999 CG1 ILE E 19	-17.032	-13.418	2.839	1.00	51.79	C0	
ANISOU12999 CG1 ILE E 19	7020	6640	6020	-140	2260	-330	C0
ATOM 13000 CG2 ILE E 19	-18.511	-14.640	1.200	1.00	52.40	C0	
ANISOU13000 CG2 ILE E 19	7440	6620	5840	-260	2250	-440	C0
ATOM 13001 CD1 ILE E 19	-16.960	-14.420	3.971	1.00	51.61	C0	
ANISOU13001 CD1 ILE E 19	6880	6590	6140	-50	2220	-310	C0
ATOM 13002 H ILE E 19	-20.465	-12.799	0.919	1.00	49.92	H0	
ANISOU13002 H ILE E 19	7210	6460	5290	-360	1930	-360	H0
ATOM 13003 HA ILE E 19	-18.478	-11.364	1.968	1.00	50.02	H0	
ANISOU13003 HA ILE E 19	6980	6510	5520	-270	2060	-280	H0
ATOM 13004 HB ILE E 19	-19.080	-13.481	2.789	1.00	50.31	H0	
ANISOU13004 HB ILE E 19	6960	6480	5670	-220	2030	-320	H0
ATOM 13005 HG12 ILE E 19	-16.319	-13.617	2.197	1.00	52.70	H0	
ANISOU13005 HG12 ILE E 19	7170	6720	6130	-140	2400	-370	H0
ATOM 13006 HG13 ILE E 19	-16.870	-12.521	3.201	1.00	51.09	H0	
ANISOU13006 HG13 ILE E 19	6860	6610	5950	-140	2210	-280	H0
ATOM 13007 HG21 ILE E 19	-19.310	-14.556	0.652	1.00	52.53	H0	
ANISOU13007 HG21 ILE E 19	7580	6650	5730	-320	2170	-460	H0
ATOM 13008 HG22 ILE E 19	-18.581	-15.441	1.747	1.00	52.32	H0	
ANISOU13008 HG22 ILE E 19	7390	6570	5910	-220	2230	-450	H0
ATOM 13009 HG23 ILE E 19	-17.732	-14.712	0.623	1.00	53.32	H0	
ANISOU13009 HG23 ILE E 19	7600	6700	5960	-250	2390	-480	H0
ATOM 13010 HD11 ILE E 19	-17.610	-14.185	4.657	1.00	50.60	H0	
ANISOU13010 HD11 ILE E 19	6700	6500	6020	-60	2090	-270	H0
ATOM 13011 HD12 ILE E 19	-16.068	-14.409	4.354	1.00	51.79	H0	
ANISOU13011 HD12 ILE E 19	6790	6620	6280	10	2280	-300	H0
ATOM 13012 HD13 ILE E 19	-17.156	-15.310	3.632	1.00	52.18	H0	
ANISOU13012 HD13 ILE E 19	7040	6590	6200	-50	2260	-360	H0

ATOM 13013 N PRO E 20	-16.770	-10.847	0.196	1.00	53.26	N0	
ANISOU13013 N PRO E 20	7540	6860	5840	-340	2380	-340	N0
ATOM 13014 CA PRO E 20	-15.908	-10.522	-0.943	1.00	55.68	C0	
ANISOU13014 CA PRO E 20	7960	7140	6060	-410	2580	-370	C0
ATOM 13015 C PRO E 20	-14.664	-11.422	-1.014	1.00	58.04	C0	
ANISOU13015 C PRO E 20	8160	7410	6490	-360	2800	-440	C0
ATOM 13016 O PRO E 20	-13.562	-10.929	-0.853	1.00	58.53	O0	
ANISOU13016 O PRO E 20	8090	7510	6640	-360	2920	-430	O0
ATOM 13017 CB PRO E 20	-15.535	-9.064	-0.644	1.00	54.87	C0	
ANISOU13017 CB PRO E 20	7810	7080	5960	-450	2550	-300	C0
ATOM 13018 CG PRO E 20	-15.422	-9.041	0.865	1.00	53.52	C0	
ANISOU13018 CG PRO E 20	7400	6960	5980	-370	2440	-250	C0
ATOM 13019 CD PRO E 20	-16.554	-9.934	1.333	1.00	52.21	C0	
ANISOU13019 CD PRO E 20	7240	6780	5820	-310	2290	-260	C0
ATOM 13020 HA PRO E 20	-16.426	-10.572	-1.785	1.00	56.21	H0	
ANISOU13020 HA PRO E 20	8200	7180	5970	-460	2570	-400	H0
ATOM 13021 HB2 PRO E 20	-14.685	-8.818	-1.066	1.00	55.96	H0	
ANISOU13021 HB2 PRO E 20	7950	7220	6100	-490	2690	-310	H0
ATOM 13022 HB3 PRO E 20	-16.235	-8.451	-0.953	1.00	54.80	H0	
ANISOU13022 HB3 PRO E 20	7920	7070	5830	-490	2440	-270	H0
ATOM 13023 HG2 PRO E 20	-14.557	-9.393	1.157	1.00	53.82	H0	
ANISOU13023 HG2 PRO E 20	7310	7000	6130	-340	2540	-270	H0
ATOM 13024 HG3 PRO E 20	-15.530	-8.131	1.210	1.00	52.94	H0	
ANISOU13024 HG3 PRO E 20	7310	6910	5900	-390	2360	-200	H0
ATOM 13025 HD2 PRO E 20	-16.304	-10.428	2.135	1.00	51.82	H0	
ANISOU13025 HD2 PRO E 20	7050	6750	5890	-250	2280	-250	H0
ATOM 13026 HD3 PRO E 20	-17.357	-9.412	1.518	1.00	51.57	H0	
ANISOU13026 HD3 PRO E 20	7190	6730	5670	-320	2150	-220	H0
ATOM 13027 N THR E 21	-14.867	-12.721	-1.243	1.00	60.20	N0	
ANISOU13027 N THR E 21	8490	7620	6770	-310	2840	-510	N0
ATOM 13028 CA THR E 21	-13.780	-13.723	-1.395	1.00	63.25	C0	
ANISOU13028 CA THR E 21	8810	7960	7270	-230	3050	-590	C0
ATOM 13029 C THR E 21	-13.048	-13.478	-2.715	1.00	66.24	C0	
ANISOU13029 C THR E 21	9310	8330	7530	-300	3280	-660	C0
ATOM 13030 O THR E 21	-13.681	-12.954	-3.656	1.00	65.94	O0	
ANISOU13030 O THR E 21	9500	8280	7280	-410	3250	-660	O0
ATOM 13031 CB THR E 21	-14.321	-15.155	-1.344	1.00	63.68	C0	
ANISOU13031 CB THR E 21	8940	7910	7340	-170	3030	-650	C0
ATOM 13032 OG1 THR E 21	-15.323	-15.253	-2.357	1.00	64.32	O0	
ANISOU13032 OG1 THR E 21	9280	7960	7200	-280	2980	-690	O0
ATOM 13033 CG2 THR E 21	-14.889	-15.519	0.010	1.00	62.23	C0	
ANISOU13033 CG2 THR E 21	8620	7740	7280	-100	2840	-580	C0
ATOM 13034 H THR E 21	-15.695	-13.087	-1.336	1.00	59.86	H0	
ANISOU13034 H THR E 21	8540	7550	6660	-320	2750	-520	H0
ATOM 13035 HA THR E 21	-13.144	-13.599	-0.653	1.00	62.91	H0	
ANISOU13035 HA THR E 21	8580	7950	7370	-170	3060	-560	H0
ATOM 13036 HB THR E 21	-13.584	-15.775	-1.560	1.00	64.90	H0	
ANISOU13036 HB THR E 21	9080	8030	7560	-110	3180	-700	H0
ATOM 13037 HG21 THR E 21	-14.163	-15.614	0.652	1.00	62.21	H0	
ANISOU13037 HG21 THR E 21	8460	7750	7430	-20	2880	-560	H0
ATOM 13038 HG22 THR E 21	-15.375	-16.361	-0.056	1.00	62.42	H0	
ANISOU13038 HG22 THR E 21	8740	7690	7290	-100	2820	-620	H0
ATOM 13039 HG23 THR E 21	-15.495	-14.818	0.308	1.00	61.06	H0	
ANISOU13039 HG23 THR E 21	8460	7650	7090	-150	2710	-530	H0

ATOM 13040 N GLN E 22	-11.766	-13.851	-2.759	1.00	69.45	N0	
ANISOU13040 N GLN E 22	9580	8740	8060	-230	3500	-710	N0
ATOM 13041 CA GLN E 22	-10.891	-13.789	-3.958	1.00	72.69	C0	
ANISOU13041 CA GLN E 22	10080	9150	8380	-280	3760	-790	C0
ATOM 13042 C GLN E 22	-10.350	-15.197	-4.231	1.00	74.83	C0	
ANISOU13042 C GLN E 22	10360	9350	8730	-150	3940	-900	C0
ATOM 13043 O GLN E 22	-9.742	-15.771	-3.309	1.00	74.56	O0	
ANISOU13043 O GLN E 22	10090	9320	8920	0	3950	-890	O0
ATOM 13044 CB GLN E 22	-9.758	-12.786	-3.725	1.00	74.00	C0	
ANISOU13044 CB GLN E 22	10040	9430	8640	-320	3870	-740	C0
ATOM 13045 CG GLN E 22	-9.208	-12.170	-5.005	1.00	76.83	C0	
ANISOU13045 CG GLN E 22	10550	9810	8830	-450	4090	-790	C0
ATOM 13046 CD GLN E 22	-10.073	-11.063	-5.563	1.00	76.95	C0	
ANISOU13046 CD GLN E 22	10800	9820	8620	-610	3970	-720	C0
ATOM 13047 OE1 GLN E 22	-10.998	-10.575	-4.916	1.00	74.88	O0	
ANISOU13047 OE1 GLN E 22	10550	9550	8350	-620	3720	-630	O0
ATOM 13048 NE2 GLN E 22	-9.766	-10.645	-6.782	1.00	79.09	N0	
ANISOU13048 NE2 GLN E 22	11270	10080	8700	-740	4150	-750	N0
ATOM 13049 H GLN E 22	-11.337	-14.177	-2.025	1.00	69.05	H0	
ANISOU13049 H GLN E 22	9360	8710	8170	-140	3490	-690	H0
ATOM 13050 HA GLN E 22	-11.428	-13.495	-4.729	1.00	72.95	H0	
ANISOU13050 HA GLN E 22	10320	9160	8240	-370	3750	-800	H0
ATOM 13051 HB2 GLN E 22	-10.089	-12.072	-3.141	1.00	72.72	H0	
ANISOU13051 HB2 GLN E 22	9830	9310	8500	-350	3720	-670	H0
ATOM 13052 HB3 GLN E 22	-9.030	-13.242	-3.253	1.00	74.55	H0	
ANISOU13052 HB3 GLN E 22	9930	9530	8870	-220	3950	-770	H0
ATOM 13053 HG2 GLN E 22	-8.312	-11.813	-4.827	1.00	77.54	H0	
ANISOU13053 HG2 GLN E 22	10470	9970	9020	-460	4210	-780	H0
ATOM 13054 HG3 GLN E 22	-9.118	-12.873	-5.683	1.00	78.01	H0	
ANISOU13054 HG3 GLN E 22	10810	9910	8920	-430	4220	-870	H0
ATOM 13055 HE21 GLN E 22	-10.103	-9.887	-7.088	1.00	78.83	H0	
ANISOU13055 HE21 GLN E 22	11360	10050	8550	-830	4090	-700	H0
ATOM 13056 HE22 GLN E 22	-9.225	-11.124	-7.292	1.00	80.40	H0	
ANISOU13056 HE22 GLN E 22	11440	10250	8860	-720	4330	-820	H0
ATOM 13057 N ARG E 23	-10.599	-15.729	-5.436	1.00	77.23	N0	
ANISOU13057 N ARG E 23	10920	9570	8850	-200	4070	-1000	N0
ATOM 13058 CA ARG E 23	-10.057	-17.018	-5.956	1.00	80.12	C0	
ANISOU13058 CA ARG E 23	11360	9840	9250	-90	4280	-1130	C0
ATOM 13059 C ARG E 23	-10.192	-18.124	-4.896	1.00	79.88	C0	
ANISOU13059 C ARG E 23	11210	9730	9420	80	4180	-1130	C0
ATOM 13060 O ARG E 23	-9.197	-18.834	-4.638	1.00	81.51	O0	
ANISOU13060 O ARG E 23	11270	9910	9790	250	4330	-1180	O0
ATOM 13061 CB ARG E 23	-8.604	-16.827	-6.406	1.00	82.55	C0	
ANISOU13061 CB ARG E 23	11520	10220	9630	-40	4580	-1190	C0
ATOM 13062 CG ARG E 23	-8.414	-15.725	-7.441	1.00	83.65	C0	
ANISOU13062 CG ARG E 23	11780	10430	9560	-230	4700	-1190	C0
ATOM 13063 CD ARG E 23	-7.038	-15.744	-8.086	1.00	86.27	C0	
ANISOU13063 CD ARG E 23	12010	10830	9940	-210	5040	-1280	C0
ATOM 13064 NE ARG E 23	-6.868	-16.879	-8.989	1.00	88.74	N0	
ANISOU13064 NE ARG E 23	12510	11040	10170	-130	5250	-1430	N0
ATOM 13065 CZ ARG E 23	-6.430	-16.823	-10.251	1.00	91.14	C0	
ANISOU13065 CZ ARG E 23	12990	11350	10290	-220	5520	-1530	C0
ATOM 13066 NH1 ARG E 23	-6.083	-15.675	-10.813	1.00	91.53	N0	
ANISOU13066 NH1 ARG E 23	13060	11510	10210	-390	5620	-1480	N0

ATOM 13067 NH2 ARG E 23	-6.330	-17.940	-10.952	1.00	93.02		N0
ANISOU13067 NH2 ARG E 23	13410	11480	10460	-130	5700	-1670	N0
ATOM 13068 H ARG E 23	-11.142	-15.313	-6.037	1.00	77.11		H0
ANISOU13068 H ARG E 23	11080	9550	8670	-300	4030	-990	H0
ATOM 13069 HA ARG E 23	-10.593	-17.277	-6.741	1.00	80.66		H0
ANISOU13069 HA ARG E 23	11660	9840	9150	-160	4300	-1190	H0
ATOM 13070 HB2 ARG E 23	-8.058	-16.618	-5.620	1.00	82.12		H0
ANISOU13070 HB2 ARG E 23	11220	10230	9750	30	4560	-1140	H0
ATOM 13071 HB3 ARG E 23	-8.280	-17.672	-6.781	1.00	84.04		H0
ANISOU13071 HB3 ARG E 23	11760	10340	9830	40	4720	-1280	H0
ATOM 13072 HG2 ARG E 23	-9.093	-15.822	-8.142	1.00	83.73		H0
ANISOU13072 HG2 ARG E 23	12040	10380	9390	-310	4670	-1220	H0
ATOM 13073 HG3 ARG E 23	-8.550	-14.854	-7.011	1.00	82.33		H0
ANISOU13073 HG3 ARG E 23	11530	10330	9410	-300	4580	-1090	H0
ATOM 13074 HD2 ARG E 23	-6.906	-14.908	-8.579	1.00	86.72		H0
ANISOU13074 HD2 ARG E 23	12120	10950	9880	-340	5100	-1250	H0
ATOM 13075 HD3 ARG E 23	-6.355	-15.788	-7.383	1.00	86.39		H0
ANISOU13075 HD3 ARG E 23	11770	10910	10150	-110	5070	-1260	H0
ATOM 13076 HE ARG E 23	-7.078	-17.666	-8.680	1.00	88.52		H0
ANISOU13076 HE ARG E 23	12490	10930	10210	-30	5210	-1460	H0
ATOM 13077 HH11 ARG E 23	-6.142	-14.925	-10.365	1.00	90.41		H0
ANISOU13077 HH11 ARG E 23	12820	11420	10100	-450	5500	-1390	H0
ATOM 13078 HH12 ARG E 23	-5.796	-15.666	-11.644	1.00	93.28		H0
ANISOU13078 HH12 ARG E 23	13410	11730	10300	-450	5800	-1550	H0
ATOM 13079 HH21 ARG E 23	-6.555	-18.710	-10.587	1.00	92.79		H0
ANISOU13079 HH21 ARG E 23	13380	11360	10510	-20	5630	-1700	H0
ATOM 13080 HH22 ARG E 23	-6.039	-17.913	-11.783	1.00	94.73		H0
ANISOU13080 HH22 ARG E 23	13740	11700	10550	-190	5880	-1740	H0
ATOM 13081 N ASPE 24	-11.386	-18.256	-4.309	1.00	78.29		N0
ANISOU13081 N ASPE 24	11080	9480	9180	40	3920	-1060	N0
ATOM 13082 CA ASPE 24	-11.760	-19.309	-3.322	1.00	78.11		C0
ANISOU13082 CA ASPE 24	11010	9370	9300	160	3790	-1050	C0
ATOM 13083 C ASPE 24	-10.810	-19.292	-2.112	1.00	76.92		C0
ANISOU13083 C ASPE 24	10540	9280	9410	320	3790	-980	C0
ATOM 13084 O ASPE 24	-10.654	-20.353	-1.475	1.00	77.98		O0
ANISOU13084 O ASPE 24	10630	9310	9680	470	3780	-990	O0
ATOM 13085 CB ASPE 24	-11.821	-20.682	-3.999	1.00	81.01		C0
ANISOU13085 CB ASPE 24	11600	9560	9620	220	3920	-1180	C0
ATOM 13086 CG ASPE 24	-13.139	-20.941	-4.708	1.00	81.35		C0
ANISOU13086 CG ASPE 24	11950	9530	9430	50	3810	-1220	C0
ATOM 13087 OD1 ASPE 24	-14.148	-21.159	-4.003	1.00	79.67		O0
ANISOU13087 OD1 ASPE 24	11750	9300	9230	10	3590	-1160	O0
ATOM 13088 OD2 ASPE 24	-13.148	-20.909	-5.957	1.00	83.31		O0
ANISOU13088 OD2 ASPE 24	12410	9750	9490	-40	3940	-1310	O0
ATOM 13089 H ASPE 24	-12.073	-17.686	-4.489	1.00	77.41		H0
ANISOU13089 H ASPE 24	11060	9400	8950	-70	3800	-1030	H0
ATOM 13090 HA ASPE 24	-12.667	-19.100	-2.995	1.00	76.62		H0
ANISOU13090 HA ASPE 24	10860	9190	9060	90	3610	-990	H0
ATOM 13091 HB2 ASPE 24	-11.097	-20.752	-4.654	1.00	82.47		H0
ANISOU13091 HB2 ASPE 24	11810	9740	9790	250	4120	-1250	H0
ATOM 13092 HB3 ASPE 24	-11.695	-21.384	-3.329	1.00	80.96		H0
ANISOU13092 HB3 ASPE 24	11530	9490	9740	330	3890	-1170	H0
ATOM 13093 N ARG E 25	-10.220	-18.134	-1.790	1.00	75.00		N0
ANISOU13093 N ARG E 25	10090	9180	9230	290	3790	-910	N0

ATOM 13094 CA ARG E 25	-9.434	-17.911	-0.545	1.00	73.29	C0
ANISOU13094 CA ARG E 25	9550	9060	9240	410	3730	-830 C0
ATOM 13095 C ARG E 25	-10.368	-17.321	0.511	1.00	68.04	C0
ANISOU13095 C ARG E 25	8840	8440	8580	340	3450	-710 C0
ATOM 13096 O ARG E 25	-11.362	-16.679	0.169	1.00	65.28	O0
ANISOU13096 O ARG E 25	8640	8100	8060	200	3340	-690 O0
ATOM 13097 CB ARG E 25	-8.237	-16.985	-0.801	1.00	75.62	C0
ANISOU13097 CB ARG E 25	9650	9490	9590	380	3890	-830 C0
ATOM 13098 CG ARG E 25	-7.206	-17.521	-1.787	1.00	80.17	C0
ANISOU13098 CG ARG E 25	10220	10060	10180	450	4190	-950 C0
ATOM 13099 CD ARG E 25	-6.609	-18.868	-1.399	1.00	83.00	C0
ANISOU13099 CD ARG E 25	10490	10330	10720	690	4270	-1010 C0
ATOM 13100 NE ARG E 25	-6.375	-18.981	0.039	1.00	83.53	N0
ANISOU13100 NE ARG E 25	10310	10440	10990	820	4090	-910 N0
ATOM 13101 CZ ARG E 25	-5.222	-18.744	0.667	1.00	85.09	C0
ANISOU13101 CZ ARG E 25	10180	10770	11380	930	4130	-880 C0
ATOM 13102 NH1 ARG E 25	-4.141	-18.380	-0.005	1.00	87.27	N0
ANISOU13102 NH1 ARG E 25	10310	11150	11690	930	4370	-950 N0
ATOM 13103 NH2 ARG E 25	-5.159	-18.879	1.982	1.00	84.19	N0
ANISOU13103 NH2 ARG E 25	9890	10680	11420	1030	3940	-790 N0
ATOM 13104 H ARG E 25	-10.279	-17.392	-2.312	1.00	74.93	H0
ANISOU13104 H ARG E 25	10130	9230	9110	180	3810	-910 H0
ATOM 13105 HA ARG E 25	-9.103	-18.780	-0.227	1.00	74.05	H0
ANISOU13105 HA ARG E 25	9600	9090	9450	540	3760	-860 H0
ATOM 13106 HB2 ARG E 25	-8.575	-16.129	-1.136	1.00	75.02	H0
ANISOU13106 HB2 ARG E 25	9640	9470	9400	250	3850	-810 H0
ATOM 13107 HB3 ARG E 25	-7.792	-16.812	0.055	1.00	75.36	H0
ANISOU13107 HB3 ARG E 25	9400	9530	9700	450	3830	-780 H0
ATOM 13108 HG2 ARG E 25	-7.626	-17.609	-2.669	1.00	80.45	H0
ANISOU13108 HG2 ARG E 25	10480	10030	10060	380	4260	-1010 H0
ATOM 13109 HG3 ARG E 25	-6.477	-16.870	-1.870	1.00	80.67	H0
ANISOU13109 HG3 ARG E 25	10140	10230	10280	420	4280	-950 H0
ATOM 13110 HD2 ARG E 25	-7.224	-19.580	-1.678	1.00	83.07	H0
ANISOU13110 HD2 ARG E 25	10700	10210	10650	710	4250	-1050 H0
ATOM 13111 HD3 ARG E 25	-5.766	-18.998	-1.881	1.00	84.89	H0
ANISOU13111 HD3 ARG E 25	10660	10600	11000	750	4470	-1080 H0
ATOM 13112 HE ARG E 25	-7.050	-19.220	0.532	1.00	82.07	H0
ANISOU13112 HE ARG E 25	10200	10190	10790	820	3940	-870 H0
ATOM 13113 HH11 ARG E 25	-4.171	-18.281	-0.875	1.00	87.85	H0
ANISOU13113 HH11 ARG E 25	10520	11210	11650	850	4500	-1010 H0
ATOM 13114 HH12 ARG E 25	-3.390	-18.227	0.428	1.00	87.90	H0
ANISOU13114 HH12 ARG E 25	10160	11330	11900	990	4390	-930 H0
ATOM 13115 HH21 ARG E 25	-5.874	-19.127	2.434	1.00	82.90	H0
ANISOU13115 HH21 ARG E 25	9820	10440	11230	1030	3800	-740 H0
ATOM 13116 HH22 ARG E 25	-4.400	-18.729	2.403	1.00	84.88	H0
ANISOU13116 HH22 ARG E 25	9760	10860	11630	1100	3960	-770 H0
ATOM 13117 N PRO E 26	-10.099	-17.531	1.820	1.00	64.95	N0
ANISOU13117 N PRO E 26	8240	8070	8370	460	3330	-640 N0
ATOM 13118 CA PRO E 26	-10.902	-16.912	2.870	1.00	62.34	C0
ANISOU13118 CA PRO E 26	7850	7800	8040	400	3090	-530 C0
ATOM 13119 C PRO E 26	-10.611	-15.409	2.952	1.00	60.98	C0
ANISOU13119 C PRO E 26	7560	7770	7840	290	3060	-480 C0
ATOM 13120 O PRO E 26	-9.484	-15.015	2.693	1.00	61.66	O0
ANISOU13120 O PRO E 26	7510	7920	8000	300	3200	-500 O0

ATOM 13121	CB PRO E 26	-10.475	-17.632	4.160	1.00	62.35	C0	
ANISOU13121	CB PRO E 26	7670	7780	8230	560	3000	-480	C0
ATOM 13122	CG PRO E 26	-9.090	-18.171	3.866	1.00	64.55	C0	
ANISOU13122	CG PRO E 26	7810	8060	8650	710	3210	-540	C0
ATOM 13123	CD PRO E 26	-9.023	-18.370	2.365	1.00	66.16	C0	
ANISOU13123	CD PRO E 26	8210	8210	8720	660	3420	-650	C0
ATOM 13124	HA PRO E 26	-11.864	-17.073	2.697	1.00	61.55	H0	
ANISOU13124	HA PRO E 26	7910	7650	7830	340	3000	-530	H0
ATOM 13125	HB2 PRO E 26	-10.451	-17.009	4.917	1.00	61.37	H0	
ANISOU13125	HB2 PRO E 26	7420	7740	8150	550	2890	-410	H0
ATOM 13126	HB3 PRO E 26	-11.093	-18.361	4.373	1.00	62.07	H0	
ANISOU13126	HB3 PRO E 26	7740	7660	8180	590	2940	-470	H0
ATOM 13127	HG2 PRO E 26	-8.405	-17.537	4.158	1.00	64.80	H0	
ANISOU13127	HG2 PRO E 26	7660	8200	8750	720	3220	-510	H0
ATOM 13128	HG3 PRO E 26	-8.947	-19.021	4.330	1.00	65.19	H0	
ANISOU13128	HG3 PRO E 26	7880	8070	8820	840	3190	-530	H0
ATOM 13129	HD2 PRO E 26	-8.157	-18.087	2.018	1.00	67.38	H0	
ANISOU13129	HD2 PRO E 26	8250	8430	8920	680	3550	-690	H0
ATOM 13130	HD3 PRO E 26	-9.164	-19.306	2.132	1.00	67.01	H0	
ANISOU13130	HD3 PRO E 26	8430	8200	8830	730	3460	-700	H0
ATOM 13131	N VAL E 27	-11.631	-14.617	3.289	1.00	58.58	N0	
ANISOU13131	N VAL E 27	7320	7490	7440	190	2880	-420	N0
ATOM 13132	CA VAL E 27	-11.476	-13.179	3.655	1.00	57.50	C0	
ANISOU13132	CA VAL E 27	7090	7470	7290	100	2800	-350	C0
ATOM 13133	C VAL E 27	-10.715	-13.136	4.984	1.00	56.43	C0	
ANISOU13133	C VAL E 27	6690	7400	7350	190	2730	-290	C0
ATOM 13134	O VAL E 27	-11.277	-13.582	5.998	1.00	55.42	O0	
ANISOU13134	O VAL E 27	6530	7260	7270	250	2580	-250	O0
ATOM 13135	CB VAL E 27	-12.832	-12.456	3.740	1.00	56.11	C0	
ANISOU13135	CB VAL E 27	7060	7290	6970	0	2620	-300	C0
ATOM 13136	CG1 VAL E 27	-12.680	-11.039	4.270	1.00	55.59	C0	
ANISOU13136	CG1 VAL E 27	6900	7310	6910	-70	2530	-240	C0
ATOM 13137	CG2 VAL E 27	-13.543	-12.454	2.394	1.00	56.76	C0	
ANISOU13137	CG2 VAL E 27	7390	7320	6860	-90	2670	-360	C0
ATOM 13138	H VAL E 27	-12.492	-14.913	3.326	1.00	57.98	H0	
ANISOU13138	H VAL E 27	7360	7370	7300	170	2790	-410	H0
ATOM 13139	HA VAL E 27	-10.935	-12.745	2.972	1.00	58.33	H0	
ANISOU13139	HA VAL E 27	7200	7590	7360	50	2930	-380	H0
ATOM 13140	HB VAL E 27	-13.397	-12.958	4.379	1.00	55.39	H0	
ANISOU13140	HB VAL E 27	6950	7180	6910	50	2510	-280	H0
ATOM 13141	HG11 VAL E 27	-12.569	-11.062	5.236	1.00	54.94	H0	
ANISOU13141	HG11 VAL E 27	6690	7260	6920	-20	2450	-200	H0
ATOM 13142	HG12 VAL E 27	-13.473	-10.521	4.049	1.00	54.84	H0	
ANISOU13142	HG12 VAL E 27	6930	7210	6700	-120	2450	-220	H0
ATOM 13143	HG13 VAL E 27	-11.899	-10.623	3.864	1.00	56.42	H0	
ANISOU13143	HG13 VAL E 27	6970	7440	7020	-100	2650	-250	H0
ATOM 13144	HG21 VAL E 27	-12.972	-12.035	1.726	1.00	57.59	H0	
ANISOU13144	HG21 VAL E 27	7520	7430	6920	-130	2790	-380	H0
ATOM 13145	HG22 VAL E 27	-14.375	-11.955	2.466	1.00	55.79	H0	
ANISOU13145	HG22 VAL E 27	7340	7210	6650	-130	2540	-320	H0
ATOM 13146	HG23 VAL E 27	-13.737	-13.369	2.126	1.00	57.15	H0	
ANISOU13146	HG23 VAL E 27	7510	7310	6900	-50	2710	-400	H0
ATOM 13147	N ALA E 28	-9.464	-12.673	4.955	1.00	56.80	N0	
ANISOU13147	N ALA E 28	6560	7530	7490	190	2850	-300	N0

ATOM 13148 CA ALA E 28	-8.552 -12.623 6.121 1.00 56.83	C0
ANISOU13148 CA ALA E 28	6280 7630 7680 270 2790 -260	C0
ATOM 13149 C ALA E 28	-8.929 -11.421 6.990 1.00 54.96	C0
ANISOU13149 C ALA E 28	6010 7460 7420 170 2610 -180	C0
ATOM 13150 O ALA E 28	-8.650 -10.275 6.583 1.00 55.17	O0
ANISOU13150 O ALA E 28	6040 7540 7380 30 2660 -180	O0
ATOM 13151 CB ALA E 28	-7.111 -12.559 5.671 1.00 58.90	C0
ANISOU13151 CB ALA E 28	6360 7970 8050 290 2990 -310	C0
ATOM 13152 H ALA E 28	-9.075 -12.345 4.200 1.00 57.78	H0
ANISOU13152 H ALA E 28	6710 7670 7570 130 2970 -340	H0
ATOM 13153 HA ALA E 28	-8.681 -13.441 6.650 1.00 56.70	H0
ANISOU13153 HA ALA E 28	6240 7570 7730 380 2730 -250	H0
ATOM 13154 HB1 ALA E 28	-6.529 -12.513 6.449 1.00 59.23	H0
ANISOU13154 HB1 ALA E 28	6210 8090 8210 340 2930 -280	H0
ATOM 13155 HB2 ALA E 28	-6.896 -13.353 5.154 1.00 59.94	H0
ANISOU13155 HB2 ALA E 28	6520 8050 8200 370 3110 -360	H0
ATOM 13156 HB3 ALA E 28	-6.976 -11.769 5.121 1.00 59.14	H0
ANISOU13156 HB3 ALA E 28	6430 8040 8010 170 3060 -320	H0
ATOM 13157 N VAL E 29	-9.558 -11.681 8.135 1.00 52.86	N0
ANISOU13157 N VAL E 29	5720 7190 7180 230 2420 -130	N0
ATOM 13158 CA VAL E 29	-9.965 -10.626 9.105 1.00 51.65	C0
ANISOU13158 CA VAL E 29	5530 7090 7000 160 2250 -60	C0
ATOM 13159 C VAL E 29	-8.918 -10.574 10.221 1.00 52.50	C0
ANISOU13159 C VAL E 29	5380 7300 7270 210 2190 -30	C0
ATOM 13160 O VAL E 29	-8.562 -11.640 10.744 1.00 53.23	O0
ANISOU13160 O VAL E 29	5370 7380 7470 350 2170 -10	O0
ATOM 13161 CB VAL E 29	-11.383 -10.885 9.644 1.00 49.34	C0
ANISOU13161 CB VAL E 29	5380 6750 6620 170 2090 -30	C0
ATOM 13162 CG1 VAL E 29	-11.829 -9.797 10.607 1.00 48.33	C0
ANISOU13162 CG1 VAL E 29	5230 6680 6460 110 1920 30	C0
ATOM 13163 CG2 VAL E 29	-12.378 -11.037 8.505 1.00 48.77	C0
ANISOU13163 CG2 VAL E 29	5530 6600 6400 120 2130 -70	C0
ATOM 13164 H VAL E 29	-9.781 -12.524 8.397 1.00 53.04	H0
ANISOU13164 H VAL E 29	5750 7160 7240 320 2400 -120	H0
ATOM 13165 HA VAL E 29	-9.965 -9.770 8.644 1.00 51.52	H0
ANISOU13165 HA VAL E 29	5560 7090 6920 60 2280 -70	H0
ATOM 13166 HB VAL E 29	-11.360 -11.739 10.141 1.00 49.58	H0
ANISOU13166 HB VAL E 29	5360 6760 6720 260 2060 -10	H0
ATOM 13167 HG11 VAL E 29	-11.351 -9.892 11.450 1.00 48.46	H0
ANISOU13167 HG11 VAL E 29	5110 6740 6560 150 1870 50	H0
ATOM 13168 HG12 VAL E 29	-12.785 -9.877 10.769 1.00 47.35	H0
ANISOU13168 HG12 VAL E 29	5200 6530 6270 110 1840 40	H0
ATOM 13169 HG13 VAL E 29	-11.638 -8.924 10.223 1.00 48.43	H0
ANISOU13169 HG13 VAL E 29	5260 6710 6430 30 1950 20	H0
ATOM 13170 HG21 VAL E 29	-12.302 -10.277 7.903 1.00 48.99	H0
ANISOU13170 HG21 VAL E 29	5620 6630 6360 40 2180 -80	H0
ATOM 13171 HG22 VAL E 29	-13.282 -11.075 8.865 1.00 47.87	H0
ANISOU13171 HG22 VAL E 29	5480 6470 6230 120 2030 -40	H0
ATOM 13172 HG23 VAL E 29	-12.191 -11.857 8.016 1.00 49.55	H0
ANISOU13172 HG23 VAL E 29	5660 6650 6520 170 2220 -100	H0
ATOM 13173 N SER E 30	-8.412 -9.378 10.523 1.00 53.40	N0
ANISOU13173 N SER E 30	5400 7500 7390 100 2160 -10	N0
ATOM 13174 CA SER E 30	-7.559 -9.093 11.704 1.00 54.93	C0
ANISOU13174 CA SER E 30	5360 7800 7700 110 2050 30	C0

ATOM 13175 C SER E 30	-8.448	-8.519	12.810	1.00	53.93	C0	
ANISOU13175 C SER E 30	5310	7670	7510	80	1850	80	C0
ATOM 13176 O SER E 30	-9.275	-7.639	12.504	1.00	52.49	O0	
ANISOU13176 O SER E 30	5300	7450	7200	-20	1820	80	O0
ATOM 13177 CB SER E 30	-6.429	-8.166	11.355	1.00	56.46	C0	
ANISOU13177 CB SER E 30	5420	8090	7940	-10	2150	0	C0
ATOM 13178 OG SER E 30	-5.651	-8.699	10.292	1.00	59.26	O0	
ANISOU13178 OG SER E 30	5710	8460	8350	10	2370	-60	O0
ATOM 13179 H SER E 30	-8.558	-8.635	10.017	1.00	53.31	H0	
ANISOU13179 H SER E 30	5480	7480	7300	0	2190	-20	H0
ATOM 13180 HA SER E 30	-7.175	-9.951	12.023	1.00	55.53	H0	
ANISOU13180 HA SER E 30	5340	7890	7870	230	2050	30	H0
ATOM 13181 HB2 SER E 30	-6.792	-7.295	11.094	1.00	56.19	H0	
ANISOU13181 HB2 SER E 30	5500	8040	7820	-130	2150	0	H0
ATOM 13182 HB3 SER E 30	-5.859	-8.037	12.145	1.00	57.30	H0	
ANISOU13182 HB3 SER E 30	5360	8280	8130	-10	2080	20	H0
ATOM 13183 N VAL E 31	-8.316	-9.037	14.032	1.00	55.28	N0	
ANISOU13183 N VAL E 31	5360	7890	7750	180	1710	130	N0
ATOM 13184 CA VAL E 31	-9.127	-8.616	15.213	1.00	55.01	C0	
ANISOU13184 CA VAL E 31	5390	7860	7650	160	1520	180	C0
ATOM 13185 C VAL E 31	-8.165	-8.218	16.332	1.00	56.80	C0	
ANISOU13185 C VAL E 31	5410	8200	7970	150	1410	200	C0
ATOM 13186 O VAL E 31	-7.146	-8.900	16.502	1.00	58.64	O0	
ANISOU13186 O VAL E 31	5450	8500	8330	230	1430	210	O0
ATOM 13187 CB VAL E 31	-10.098	-9.722	15.662	1.00	54.66	C0	
ANISOU13187 CB VAL E 31	5440	7750	7580	270	1450	210	C0
ATOM 13188 CG1 VAL E 31	-10.925	-9.288	16.865	1.00	54.17	C0	
ANISOU13188 CG1 VAL E 31	5440	7710	7440	250	1280	250	C0
ATOM 13189 CG2 VAL E 31	-11.003	-10.163	14.523	1.00	54.15	C0	
ANISOU13189 CG2 VAL E 31	5560	7580	7430	270	1560	170	C0
ATOM 13190 H VAL E 31	-7.712	-9.691	14.225	1.00	56.08	H0	
ANISOU13190 H VAL E 31	5340	8010	7950	260	1730	130	H0
ATOM 13191 HA VAL E 31	-9.648	-7.835	14.964	1.00	54.36	H0	
ANISOU13191 HA VAL E 31	5420	7760	7480	70	1520	160	H0
ATOM 13192 HB VAL E 31	-9.554	-10.501	15.935	1.00	55.52	H0	
ANISOU13192 HB VAL E 31	5450	7860	7780	370	1460	230	H0
ATOM 13193 HG11 VAL E 31	-10.369	-9.299	17.663	1.00	54.53	H0	
ANISOU13193 HG11 VAL E 31	5370	7810	7540	270	1210	280	H0
ATOM 13194 HG12 VAL E 31	-11.673	-9.899	16.984	1.00	53.37	H0	
ANISOU13194 HG12 VAL E 31	5420	7560	7300	300	1260	270	H0
ATOM 13195 HG13 VAL E 31	-11.263	-8.387	16.718	1.00	53.44	H0	
ANISOU13195 HG13 VAL E 31	5410	7620	7280	170	1270	240	H0
ATOM 13196 HG21 VAL E 31	-11.466	-9.390	14.157	1.00	53.49	H0	
ANISOU13196 HG21 VAL E 31	5570	7490	7260	190	1560	160	H0
ATOM 13197 HG22 VAL E 31	-11.656	-10.804	14.855	1.00	53.58	H0	
ANISOU13197 HG22 VAL E 31	5560	7470	7330	320	1510	190	H0
ATOM 13198 HG23 VAL E 31	-10.469	-10.581	13.825	1.00	54.94	H0	
ANISOU13198 HG23 VAL E 31	5640	7660	7580	300	1670	140	H0
ATOM 13199 N SER E 32	-8.482	-7.136	17.042	1.00	57.49	N0	
ANISOU13199 N SER E 32	5540	8320	7980	40	1300	210	N0
ATOM 13200 CA SER E 32	-7.689	-6.585	18.170	1.00	59.21	C0	
ANISOU13200 CA SER E 32	5600	8640	8250	-10	1170	230	C0
ATOM 13201 C SER E 32	-8.623	-5.813	19.106	1.00	58.40	C0	
ANISOU13201 C SER E 32	5650	8520	8020	-60	1020	250	C0

ATOM 13202 O SER E 32	-9.357	-4.935	18.611	1.00	57.83	O0	
ANISOU13202 O SER E 32	5750	8380	7840	-140	1060	220	O0
ATOM 13203 CB SER E 32	-6.570	-5.715	17.663	1.00	61.17	C0	
ANISOU13203 CB SER E 32	5720	8970	8550	-150	1250	190	C0
ATOM 13204 OG SER E 32	-5.662	-5.403	18.706	1.00	63.16	O0	
ANISOU13204 OG SER E 32	5780	9340	8870	-190	1120	210	O0
ATOM 13205 H SER E 32	-9.230	-6.642	16.878	1.00	56.42	H0	
ANISOU13205 H SER E 32	5550	8140	7750	-10	1290	210	H0
ATOM 13206 HA SER E 32	-7.296	-7.347	18.674	1.00	59.83	H0	
ANISOU13206 HA SER E 32	5570	8760	8400	90	1120	260	H0
ATOM 13207 HB2 SER E 32	-6.094	-6.184	16.941	1.00	61.97	H0	
ANISOU13207 HB2 SER E 32	5750	9070	8720	-110	1370	180	H0
ATOM 13208 HB3 SER E 32	-6.943	-4.885	17.295	1.00	60.72	H0	
ANISOU13208 HB3 SER E 32	5790	8860	8410	-250	1280	170	H0
ATOM 13209 N LEU E 33	-8.621	-6.160	20.396	1.00	58.66	N0	
ANISOU13209 N LEU E 33	5620	8610	8060	0	870	290	N0
ATOM 13210 CA LEU E 33	-9.354	-5.423	21.458	1.00	57.80	C0	
ANISOU13210 CA LEU E 33	5620	8500	7830	-50	730	300	C0
ATOM 13211 C LEU E 33	-8.385	-4.470	22.163	1.00	59.41	C0	
ANISOU13211 C LEU E 33	5720	8800	8060	-170	640	280	C0
ATOM 13212 O LEU E 33	-7.389	-4.957	22.740	1.00	62.26	O0	
ANISOU13212 O LEU E 33	5880	9260	8510	-140	570	310	O0
ATOM 13213 CB LEU E 33	-9.965	-6.423	22.443	1.00	57.21	C0	
ANISOU13213 CB LEU E 33	5580	8430	7730	70	630	360	C0
ATOM 13214 CG LEU E 33	-10.880	-7.484	21.834	1.00	56.39	C0	
ANISOU13214 CG LEU E 33	5580	8240	7610	170	720	380	C0
ATOM 13215 CD1 LEU E 33	-11.707	-8.154	22.924	1.00	55.99	C0	
ANISOU13215 CD1 LEU E 33	5600	8190	7490	230	610	430	C0
ATOM 13216 CD2 LEU E 33	-11.783	-6.893	20.757	1.00	54.94	C0	
ANISOU13216 CD2 LEU E 33	5550	7980	7350	110	820	330	C0
ATOM 13217 H LEU E 33	-8.166	-6.884	20.705	1.00	59.30	H0	
ANISOU13217 H LEU E 33	5590	8730	8210	80	840	320	H0
ATOM 13218 HA LEU E 33	-10.068	-4.897	21.039	1.00	56.98	H0	
ANISOU13218 HA LEU E 33	5660	8340	7650	-90	770	270	H0
ATOM 13219 HB2 LEU E 33	-9.236	-6.877	22.911	1.00	58.27	H0	
ANISOU13219 HB2 LEU E 33	5580	8620	7930	110	580	390	H0
ATOM 13220 HB3 LEU E 33	-10.475	-5.922	23.111	1.00	56.85	H0	
ANISOU13220 HB3 LEU E 33	5610	8390	7600	30	560	360	H0
ATOM 13221 HG LEU E 33	-10.312	-8.172	21.410	1.00	56.93	H0	
ANISOU13221 HG LEU E 33	5560	8300	7770	230	770	390	H0
ATOM 13222 HD11 LEU E 33	-11.122	-8.434	23.649	1.00	56.79	H0	
ANISOU13222 HD11 LEU E 33	5620	8340	7620	270	530	470	H0
ATOM 13223 HD12 LEU E 33	-12.161	-8.931	22.557	1.00	55.56	H0	
ANISOU13223 HD12 LEU E 33	5600	8080	7440	290	670	450	H0
ATOM 13224 HD13 LEU E 33	-12.367	-7.525	23.264	1.00	55.31	H0	
ANISOU13224 HD13 LEU E 33	5600	8100	7310	190	580	410	H0
ATOM 13225 HD21 LEU E 33	-12.119	-6.029	21.052	1.00	54.70	H0	
ANISOU13225 HD21 LEU E 33	5580	7960	7250	50	780	310	H0
ATOM 13226 HD22 LEU E 33	-12.532	-7.492	20.596	1.00	54.36	H0	
ANISOU13226 HD22 LEU E 33	5550	7860	7240	160	840	340	H0
ATOM 13227 HD23 LEU E 33	-11.278	-6.781	19.933	1.00	55.42	H0	
ANISOU13227 HD23 LEU E 33	5570	8030	7460	90	910	300	H0
ATOM 13228 N LYS E 34	-8.648	-3.164	22.070	1.00	58.90	N0	
ANISOU13228 N LYS E 34	5780	8700	7900	-310	640	240	N0

ATOM 13229 CA LYSE 34	-7.980	-2.104	22.870	1.00	59.98		C0
ANISOU13229 CA LYSE 34	5870	8900	8020	-450	530	210	C0
ATOM 13230 C LYSE 34	-8.926	-1.724	24.012	1.00	57.56		C0
ANISOU13230 C LYSE 34	5720	8570	7580	-440	400	210	C0
ATOM 13231 O LYSE 34	-9.983	-1.127	23.728	1.00	55.98		O0
ANISOU13231 O LYSE 34	5730	8270	7270	-440	440	180	O0
ATOM 13232 CB LYSE 34	-7.622	-0.897	21.996	1.00	61.57		C0
ANISOU13232 CB LYSE 34	6140	9050	8210	-630	630	160	C0
ATOM 13233 CG LYSE 34	-6.392	-1.080	21.117	1.00	64.31		C0
ANISOU13233 CG LYSE 34	6290	9460	8680	-690	750	150	C0
ATOM 13234 CD LYSE 34	-5.087	-0.912	21.862	1.00	67.33		C0
ANISOU13234 CD LYSE 34	6430	10000	9160	-790	650	140	C0
ATOM 13235 CE LYSE 34	-3.873	-0.914	20.956	1.00	69.83		C0
ANISOU13235 CE LYSE 34	6540	10400	9600	-880	780	120	C0
ATOM 13236 NZ LYSE 34	-3.386	-2.288	20.689	1.00	70.73		N0
ANISOU13236 NZ LYSE 34	6440	10590	9850	-700	840	150	N0
ATOM 13237 H LYSE 34	-9.273	-2.836	21.493	1.00	58.17		H0
ANISOU13237 H LYSE 34	5810	8530	7760	-320	700	220	H0
ATOM 13238 HA LYSE 34	-7.153	-2.475	23.252	1.00	60.99		H0
ANISOU13238 HA LYSE 34	5830	9120	8230	-450	480	230	H0
ATOM 13239 HB2 LYSE 34	-8.388	-0.693	21.420	1.00	60.62		H0
ANISOU13239 HB2 LYSE 34	6170	8840	8020	-610	690	150	H0
ATOM 13240 HB3 LYSE 34	-7.474	-0.125	22.581	1.00	62.16		H0
ANISOU13240 HB3 LYSE 34	6250	9130	8230	-720	550	130	H0
ATOM 13241 HG2 LYSE 34	-6.419	-1.977	20.720	1.00	63.93		H0
ANISOU13241 HG2 LYSE 34	6180	9420	8690	-580	800	170	H0
ATOM 13242 HG3 LYSE 34	-6.428	-0.428	20.386	1.00	64.28		H0
ANISOU13242 HG3 LYSE 34	6380	9400	8650	-790	830	120	H0
ATOM 13243 HD2 LYSE 34	-5.110	-0.065	22.358	1.00	67.57		H0
ANISOU13243 HD2 LYSE 34	6540	10020	9120	-900	580	120	H0
ATOM 13244 HD3 LYSE 34	-4.996	-1.639	22.514	1.00	67.35		H0
ANISOU13244 HD3 LYSE 34	6330	10060	9200	-680	560	180	H0
ATOM 13245 HE2 LYSE 34	-4.098	-0.488	20.107	1.00	69.43		H0
ANISOU13245 HE2 LYSE 34	6600	10270	9510	-940	900	100	H0
ATOM 13246 HE3 LYSE 34	-3.156	-0.399	21.371	1.00	71.14		H0
ANISOU13246 HE3 LYSE 34	6590	10640	9790	-1000	730	100	H0
ATOM 13247 HZ1 LYSE 34	-3.106	-2.671	21.463	1.00	71.10		H0
ANISOU13247 HZ1 LYSE 34	6370	10710	9930	-640	720	180	H0
ATOM 13248 HZ2 LYSE 34	-2.693	-2.261	20.105	1.00	71.69		H0
ANISOU13248 HZ2 LYSE 34	6430	10760	10040	-750	930	130	H0
ATOM 13249 HZ3 LYSE 34	-4.054	-2.789	20.335	1.00	69.41		H0
ANISOU13249 HZ3 LYSE 34	6380	10340	9650	-590	890	170	H0
ATOM 13250 N PHE E 35	-8.566	-2.091	25.244	1.00	56.85		N0
ANISOU13250 N PHE E 35	5540	8570	7490	-410	260	240	N0
ATOM 13251 CA PHE E 35	-9.398	-1.908	26.459	1.00	55.36		C0
ANISOU13251 CA PHE E 35	5490	8380	7160	-390	140	250	C0
ATOM 13252 C PHE E 35	-9.281	-0.460	26.939	1.00	54.24		C0
ANISOU13252 C PHE E 35	5460	8220	6930	-540	80	180	C0
ATOM 13253 O PHE E 35	-8.160	0.010	27.205	1.00	55.56		O0
ANISOU13253 O PHE E 35	5500	8460	7140	-670	10	160	O0
ATOM 13254 CB PHE E 35	-9.012	-2.944	27.516	1.00	57.15		C0
ANISOU13254 CB PHE E 35	5600	8700	7410	-300	10	320	C0
ATOM 13255 CG PHE E 35	-9.388	-4.344	27.112	1.00	57.22		C0
ANISOU13255 CG PHE E 35	5570	8690	7480	-140	80	380	C0

ATOM 13256 CD1 PHE E 35	-10.709	-4.761	27.165	1.00	56.31	C0
ANISOU13256 CD1 PHE E 35	5620	8500	7270	-60	120	400
ATOM 13257 CD2 PHE E 35	-8.435	-5.226	26.625	1.00	58.44	C0
ANISOU13257 CD2 PHE E 35	5540	8880	7790	-60	110	420
ATOM 13258 CE1 PHE E 35	-11.065	-6.041	26.766	1.00	56.22	C0
ANISOU13258 CE1 PHE E 35	5600	8450	7310	60	180	450
ATOM 13259 CE2 PHE E 35	-8.792	-6.506	26.230	1.00	58.00	C0
ANISOU13259 CE2 PHE E 35	5480	8770	7780	80	170	480
ATOM 13260 CZ PHE E 35	-10.105	-6.910	26.300	1.00	56.66	C0
ANISOU13260 CZ PHE E 35	5500	8520	7510	130	210	490
ATOM 13261 H PHE E 35	-7.765	-2.484	25.429	1.00	57.94	H0
ANISOU13261 H PHE E 35	5530	8780	7700	-410	220	270
ATOM 13262 HA PHE E 35	-10.342	-2.069	26.207	1.00	54.22	H0
ANISOU13262 HA PHE E 35	5470	8170	6960	-320	190	250
ATOM 13263 HB2 PHE E 35	-8.044	-2.898	27.667	1.00	58.34	H0
ANISOU13263 HB2 PHE E 35	5600	8930	7630	-340	-40	320
ATOM 13264 HB3 PHE E 35	-9.462	-2.719	28.357	1.00	57.02	H0
ANISOU13264 HB3 PHE E 35	5670	8700	7290	-300	-70	320
ATOM 13265 HD1 PHE E 35	-11.371	-4.167	27.482	1.00	55.76	H0
ANISOU13265 HD1 PHE E 35	5670	8410	7110	-90	110	370
ATOM 13266 HD2 PHE E 35	-7.532	-4.955	26.573	1.00	59.51	H0
ANISOU13266 HD2 PHE E 35	5540	9080	7990	-110	80	410
ATOM 13267 HE1 PHE E 35	-11.966	-6.317	26.819	1.00	55.12	H0
ANISOU13267 HE1 PHE E 35	5560	8270	7110	100	210	460
ATOM 13268 HE2 PHE E 35	-8.132	-7.101	25.912	1.00	58.74	H0
ANISOU13268 HE2 PHE E 35	5460	8890	7980	150	190	500
ATOM 13269 HZ PHE E 35	-10.346	-7.784	26.034	1.00	56.47	H0
ANISOU13269 HZ PHE E 35	5480	8460	7520	220	250	520
ATOM 13270 N ILE E 36	-10.424	0.226	27.016	1.00	51.65	N0
ANISOU13270 N ILE E 36	5350	7800	6470	-540	100	140
ATOM 13271 CA ILE E 36	-10.534	1.653	27.436	1.00	51.49	C0
ANISOU13271 CA ILE E 36	5500	7720	6350	-660	60	60
ATOM 13272 C ILE E 36	-10.998	1.711	28.895	1.00	51.78	C0
ANISOU13272 C ILE E 36	5620	7800	6260	-640	-70	50
ATOM 13273 O ILE E 36	-10.512	2.596	29.624	1.00	52.31	O0
ANISOU13273 O ILE E 36	5740	7880	6260	-760	-170	0
ATOM 13274 CB ILE E 36	-11.483	2.429	26.500	1.00	50.02	C0
ANISOU13274 CB ILE E 36	5510	7390	6100	-640	170	20
ATOM 13275 CG1 ILE E 36	-11.191	2.138	25.025	1.00	49.55	C0
ANISOU13275 CG1 ILE E 36	5390	7290	6150	-650	310	40
ATOM 13276 CG2 ILE E 36	-11.444	3.919	26.803	1.00	51.00	C0
ANISOU13276 CG2 ILE E 36	5820	7420	6130	-770	130	-60
ATOM 13277 CD1 ILE E 36	-9.740	2.313	24.632	1.00	51.12	C0
ANISOU13277 CD1 ILE E 36	5430	7540	6460	-790	320	40
ATOM 13278 H ILE E 36	-11.228	-0.144	26.800	1.00	50.81	H0
ANISOU13278 H ILE E 36	5310	7650	6340	-450	150	150
ATOM 13279 HA ILE E 36	-9.652	2.060	27.379	1.00	52.65	H0
ANISOU13279 HA ILE E 36	5570	7890	6540	-780	30	40
ATOM 13280 HB ILE E 36	-12.401	2.112	26.685	1.00	49.19	H0
ANISOU13280 HB ILE E 36	5480	7270	5940	-540	180	20
ATOM 13281 HG12 ILE E 36	-11.461	1.216	24.827	1.00	48.85	H0
ANISOU13281 HG12 ILE E 36	5230	7230	6100	-540	330	80
ATOM 13282 HG13 ILE E 36	-11.739	2.736	24.475	1.00	49.23	H0
ANISOU13282 HG13 ILE E 36	5490	7150	6060	-650	360	10

ATOM 13283 HG21 ILE E 36	-11.880	4.091	27.656	1.00	51.09		H0
ANISOU13283 HG21 ILE E 36	5910	7440	6060	-750	70	-80	H0
ATOM 13284 HG22 ILE E 36	-11.908	4.407	26.101	1.00	50.62		H0
ANISOU13284 HG22 ILE E 36	5890	7280	6060	-760	210	-80	H0
ATOM 13285 HG23 ILE E 36	-10.520	4.219	26.847	1.00	52.11		H0
ANISOU13285 HG23 ILE E 36	5890	7590	6320	-900	110	-70	H0
ATOM 13286 HD11 ILE E 36	-9.445	3.210	24.866	1.00	51.96		H0
ANISOU13286 HD11 ILE E 36	5600	7620	6520	-910	290	0	H0
ATOM 13287 HD12 ILE E 36	-9.646	2.184	23.673	1.00	50.86		H0
ANISOU13287 HD12 ILE E 36	5380	7480	6470	-790	420	50	H0
ATOM 13288 HD13 ILE E 36	-9.191	1.661	25.098	1.00	51.53		H0
ANISOU13288 HD13 ILE E 36	5320	7690	6570	-780	270	70	H0
ATOM 13289 N ASNE 37	-11.914	0.827	29.309	1.00	50.68		N0
ANISOU13289 N ASNE 37	5500	7690	6070	-490	-70	90	N0
ATOM 13290 CA ASNE 37	-12.492	0.891	30.675	1.00	51.22		C0
ANISOU13290 CA ASNE 37	5670	7790	5990	-470	-160	80	C0
ATOM 13291 C ASNE 37	-13.138	-0.439	31.077	1.00	50.89		C0
ANISOU13291 C ASNE 37	5590	7810	5940	-330	-160	160	C0
ATOM 13292 O ASNE 37	-13.667	-1.138	30.207	1.00	50.00		O0
ANISOU13292 O ASNE 37	5450	7660	5890	-240	-60	190	O0
ATOM 13293 CB ASNE 37	-13.490	2.043	30.785	1.00	50.62		C0
ANISOU13293 CB ASNE 37	5820	7620	5790	-470	-120	-10	C0
ATOM 13294 CG ASNE 37	-13.340	2.816	32.075	1.00	52.10		C0
ANISOU13294 CG ASNE 37	6120	7830	5840	-550	-230	-70	C0
ATOM 13295 OD1 ASNE 37	-13.091	2.235	33.132	1.00	53.03		O0
ANISOU13295 OD1 ASNE 37	6190	8050	5900	-550	-340	-30	O0
ATOM 13296 ND2 ASNE 37	-13.471	4.130	31.994	1.00	52.72		N0
ANISOU13296 ND2 ASNE 37	6370	7800	5850	-630	-220	-160	N0
ATOM 13297 H ASNE 37	-12.238	0.155	28.788	1.00	49.93		H0
ANISOU13297 H ASNE 37	5370	7580	6020	-410	0	130	H0
ATOM 13298 HA ASNE 37	-11.755	1.076	31.303	1.00	52.33		H0
ANISOU13298 HA ASNE 37	5770	7990	6130	-540	-260	80	H0
ATOM 13299 HB2 ASNE 37	-13.359	2.652	30.030	1.00	50.68		H0
ANISOU13299 HB2 ASNE 37	5870	7560	5830	-510	-70	-40	H0
ATOM 13300 HB3 ASNE 37	-14.399	1.684	30.731	1.00	49.86		H0
ANISOU13300 HB3 ASNE 37	5770	7520	5660	-370	-70	0	H0
ATOM 13301 HD21 ASNE 37	-13.051	4.652	32.570	1.00	53.78		H0
ANISOU13301 HD21 ASNE 37	6550	7940	5930	-720	-290	-200	H0
ATOM 13302 HD22 ASNE 37	-13.977	4.485	31.363	1.00	52.15		H0
ANISOU13302 HD22 ASNE 37	6380	7650	5790	-590	-140	-190	H0
ATOM 13303 N ILE E 38	-13.059	-0.756	32.371	1.00	52.58		N0
ANISOU13303 N ILE E 38	5820	8100	6060	-330	-280	190	N0
ATOM 13304 CA ILE E 38	-13.881	-1.784	33.074	1.00	52.53		C0
ANISOU13304 CA ILE E 38	5850	8140	5970	-230	-280	250	C0
ATOM 13305 C ILE E 38	-14.770	-1.027	34.066	1.00	53.22		C0
ANISOU13305 C ILE E 38	6120	8230	5870	-250	-290	180	C0
ATOM 13306 O ILE E 38	-14.209	-0.329	34.928	1.00	54.61		O0
ANISOU13306 O ILE E 38	6340	8440	5970	-340	-400	140	O0
ATOM 13307 CB ILE E 38	-12.977	-2.824	33.761	1.00	53.64		C0
ANISOU13307 CB ILE E 38	5860	8370	6150	-210	-410	350	C0
ATOM 13308 CG1 ILE E 38	-12.140	-3.597	32.737	1.00	53.50		C0
ANISOU13308 CG1 ILE E 38	5660	8340	6330	-170	-370	410	C0
ATOM 13309 CG2 ILE E 38	-13.794	-3.757	34.644	1.00	53.55		C0
ANISOU13309 CG2 ILE E 38	5930	8390	6030	-140	-420	420	C0

ATOM 13310	CD1 ILE E 38	-10.909	-4.256	33.317	1.00	55.35	C0	
ANISOU13310	CD1 ILE E 38	5740	8670	6630	-160	-520	490	C0
ATOM 13311	H ILE E 38	-12.468	-0.344	32.928	1.00	53.49	H0	
ANISOU13311	H ILE E 38	5920	8250	6140	-410	-370	170	H0
ATOM 13312	HA ILE E 38	-14.445	-2.238	32.423	1.00	51.55	H0	
ANISOU13312	HA ILE E 38	5720	7980	5890	-170	-190	270	H0
ATOM 13313	HB ILE E 38	-12.349	-2.332	34.346	1.00	54.73	H0	
ANISOU13313	HB ILE E 38	5990	8550	6250	-290	-510	330	H0
ATOM 13314	HG12 ILE E 38	-12.703	-4.289	32.330	1.00	52.70	H0	
ANISOU13314	HG12 ILE E 38	5570	8200	6250	-90	-290	440	H0
ATOM 13315	HG13 ILE E 38	-11.861	-2.982	32.027	1.00	53.36	H0	
ANISOU13315	HG13 ILE E 38	5610	8290	6370	-220	-320	360	H0
ATOM 13316	HG21 ILE E 38	-14.023	-3.305	35.474	1.00	54.14	H0	
ANISOU13316	HG21 ILE E 38	6100	8490	5980	-180	-470	390	H0
ATOM 13317	HG22 ILE E 38	-13.275	-4.555	34.845	1.00	54.12	H0	
ANISOU13317	HG22 ILE E 38	5930	8490	6140	-110	-480	500	H0
ATOM 13318	HG23 ILE E 38	-14.610	-4.013	34.180	1.00	52.54	H0	
ANISOU13318	HG23 ILE E 38	5840	8220	5900	-90	-310	420	H0
ATOM 13319	HD11 ILE E 38	-10.438	-3.623	33.887	1.00	56.25	H0	
ANISOU13319	HD11 ILE E 38	5850	8830	6690	-240	-610	450	H0
ATOM 13320	HD12 ILE E 38	-10.321	-4.539	32.596	1.00	55.32	H0	
ANISOU13320	HD12 ILE E 38	5610	8660	6750	-130	-490	500	H0
ATOM 13321	HD13 ILE E 38	-11.171	-5.031	33.844	1.00	55.42	H0	
ANISOU13321	HD13 ILE E 38	5770	8690	6590	-90	-550	550	H0
ATOM 13322	N LEU E 39	-16.095	-1.140	33.919	1.00	53.81	N0	
ANISOU13322	N LEU E 39	6280	8280	5880	-170	-180	160	N0
ATOM 13323	CA LEU E 39	-17.106	-0.282	34.601	1.00	55.24	C0	
ANISOU13323	CA LEU E 39	6630	8450	5900	-160	-150	70	C0
ATOM 13324	C LEU E 39	-17.721	-1.022	35.792	1.00	56.12	C0	
ANISOU13324	C LEU E 39	6790	8660	5870	-130	-160	110	C0
ATOM 13325	O LEU E 39	-17.853	-0.404	36.861	1.00	59.23	O0	
ANISOU13325	O LEU E 39	7310	9080	6110	-170	-210	50	O0
ATOM 13326	CB LEU E 39	-18.196	0.104	33.597	1.00	53.90	C0	
ANISOU13326	CB LEU E 39	6500	8220	5760	-80	-10	20	C0
ATOM 13327	CG LEU E 39	-17.726	0.904	32.385	1.00	53.84	C0	
ANISOU13327	CG LEU E 39	6490	8110	5860	-110	20	-20	C0
ATOM 13328	CD1 LEU E 39	-18.905	1.262	31.495	1.00	53.04	C0	
ANISOU13328	CD1 LEU E 39	6450	7950	5760	-10	140	-70	C0
ATOM 13329	CD2 LEU E 39	-16.979	2.158	32.812	1.00	55.31	C0	
ANISOU13329	CD2 LEU E 39	6780	8240	6000	-210	-50	-100	C0
ATOM 13330	H LEU E 39	-16.468	-1.768	33.374	1.00	52.90	H0	
ANISOU13330	H LEU E 39	6120	8150	5820	-110	-120	200	H0
ATOM 13331	HA LEU E 39	-16.658	0.530	34.932	1.00	55.84	H0	
ANISOU13331	HA LEU E 39	6770	8510	5940	-230	-200	10	H0
ATOM 13332	HB2 LEU E 39	-18.625	-0.716	33.280	1.00	53.33	H0	
ANISOU13332	HB2 LEU E 39	6370	8170	5720	-30	40	70	H0
ATOM 13333	HB3 LEU E 39	-18.875	0.627	34.068	1.00	54.35	H0	
ANISOU13333	HB3 LEU E 39	6660	8280	5710	-50	20	-40	H0
ATOM 13334	HG LEU E 39	-17.106	0.338	31.863	1.00	53.53	H0	
ANISOU13334	HG LEU E 39	6340	8070	5920	-120	20	30	H0
ATOM 13335	HD11 LEU E 39	-19.381	0.452	31.253	1.00	52.36	H0	
ANISOU13335	HD11 LEU E 39	6300	7900	5700	40	180	-20	H0
ATOM 13336	HD12 LEU E 39	-18.582	1.701	30.689	1.00	52.80	H0	
ANISOU13336	HD12 LEU E 39	6420	7840	5790	-30	160	-80	H0

ATOM 13337 HD13 LEU E 39	-19.504	1.861	31.973	1.00	53.44		H0
ANISOU13337 HD13 LEU E 39	6600	7990	5720	20	150	-130	H0
ATOM 13338 HD21 LEU E 39	-17.469	2.602	33.526	1.00	55.77		H0
ANISOU13338 HD21 LEU E 39	6940	8310	5940	-200	-60	-150	H0
ATOM 13339 HD22 LEU E 39	-16.898	2.761	32.053	1.00	55.04		H0
ANISOU13339 HD22 LEU E 39	6770	8130	6010	-220	-10	-130	H0
ATOM 13340 HD23 LEU E 39	-16.092	1.917	33.129	1.00	55.81		H0
ANISOU13340 HD23 LEU E 39	6770	8350	6090	-280	-130	-70	H0
ATOM 13341 N GLUE 40	-18.121	-2.277	35.594	1.00	55.97		N0
ANISOU13341 N GLUE 40	6700	8670	5900	-80	-120	200	N0
ATOM 13342 CA GLUE 40	-18.698	-3.141	36.656	1.00	56.95		C0
ANISOU13342 CA GLUE 40	6880	8870	5890	-70	-120	270	C0
ATOM 13343 C GLUE 40	-18.064	-4.529	36.554	1.00	56.04		C0
ANISOU13343 C GLUE 40	6670	8760	5870	-50	-180	400	C0
ATOM 13344 O GLUE 40	-17.843	-5.012	35.421	1.00	54.91		O0
ANISOU13344 O GLUE 40	6420	8560	5880	-10	-130	440	O0
ATOM 13345 CB GLUE 40	-20.225	-3.215	36.562	1.00	57.52		C0
ANISOU13345 CB GLUE 40	7000	8960	5890	-10	30	230	C0
ATOM 13346 CG GLUE 40	-20.859	-3.892	37.770	1.00	59.56		C0
ANISOU13346 CG GLUE 40	7340	9310	5980	-30	40	270	C0
ATOM 13347 CD GLUE 40	-22.371	-3.781	37.894	1.00	60.50		C0
ANISOU13347 CD GLUE 40	7500	9490	6000	10	190	210	C0
ATOM 13348 OE1 GLUE 40	-23.055	-3.695	36.851	1.00	59.85		O0
ANISOU13348 OE1 GLUE 40	7340	9380	6020	60	290	170	O0
ATOM 13349 OE2 GLUE 40	-22.865	-3.784	39.043	1.00	62.08		O0
ANISOU13349 OE2 GLUE 40	7800	9770	6030	-20	210	200	O0
ATOM 13350 H GLUE 40	-18.064	-2.686	34.783	1.00	55.17		H0
ANISOU13350 H GLUE 40	6530	8530	5900	-50	-80	240	H0
ATOM 13351 HA GLUE 40	-18.458	-2.753	37.529	1.00	57.91		H0
ANISOU13351 HA GLUE 40	7070	9030	5910	-110	-190	240	H0
ATOM 13352 HB2 GLUE 40	-20.581	-2.305	36.480	1.00	57.50		H0
ANISOU13352 HB2 GLUE 40	7050	8940	5850	0	60	140	H0
ATOM 13353 HB3 GLUE 40	-20.468	-3.710	35.752	1.00	56.62		H0
ANISOU13353 HB3 GLUE 40	6820	8820	5870	20	90	260	H0
ATOM 13354 HG2 GLUE 40	-20.628	-4.844	37.750	1.00	59.53		H0
ANISOU13354 HG2 GLUE 40	7290	9310	6020	-30	20	360	H0
ATOM 13355 HG3 GLUE 40	-20.461	-3.514	38.583	1.00	60.51		H0
ANISOU13355 HG3 GLUE 40	7530	9460	6010	-70	-30	260	H0
ATOM 13356 N VAL E 41	-17.759	-5.109	37.714	1.00	55.81		N0
ANISOU13356 N VAL E 41	6690	8790	5730	-70	-270	480	N0
ATOM 13357 CA VAL E 41	-17.221	-6.485	37.898	1.00	55.37		C0
ANISOU13357 CA VAL E 41	6580	8730	5720	-40	-340	620	C0
ATOM 13358 C VAL E 41	-18.007	-7.119	39.047	1.00	55.19		C0
ANISOU13358 C VAL E 41	6700	8760	5510	-60	-330	680	C0
ATOM 13359 O VAL E 41	-18.272	-6.409	40.034	1.00	55.80		O0
ANISOU13359 O VAL E 41	6890	8900	5410	-110	-360	620	O0
ATOM 13360 CB VAL E 41	-15.704	-6.445	38.173	1.00	56.96		C0
ANISOU13360 CB VAL E 41	6700	8960	5990	-50	-520	670	C0
ATOM 13361 CG1 VAL E 41	-15.295	-7.242	39.403	1.00	58.52		C0
ANISOU13361 CG1 VAL E 41	6960	9210	6070	-50	-670	780	C0
ATOM 13362 CG2 VAL E 41	-14.903	-6.877	36.955	1.00	56.82		C0
ANISOU13362 CG2 VAL E 41	6510	8880	6200	0	-510	700	C0
ATOM 13363 H VAL E 41	-17.863	-4.671	38.506	1.00	56.71		H0
ANISOU13363 H VAL E 41	6880	8940	5720	-110	-310	450	H0

ATOM 13364 HA VAL E 41	-17.385	-6.997	37.086	1.00	54.58	H0
ANISOU13364 HA VAL E 41	6420	8580	5730	0	-270 650	H0
ATOM 13365 HB VAL E 41	-15.474	-5.501	38.350	1.00	57.19	H0
ANISOU13365 HB VAL E 41	6740	9010	5980	-110	-560 590	H0
ATOM 13366 HG11 VAL E 41	-15.587	-6.776	40.206	1.00	59.20	H0
ANISOU13366 HG11 VAL E 41	7140	9340	6010	-100	-690 750	H0
ATOM 13367 HG12 VAL E 41	-14.327	-7.335	39.420	1.00	59.29	H0
ANISOU13367 HG12 VAL E 41	6960	9320	6240	-40	-780 820	H0
ATOM 13368 HG13 VAL E 41	-15.702	-8.123	39.372	1.00	58.40	H0
ANISOU13368 HG13 VAL E 41	6970	9160	6050	-10	-620 850	H0
ATOM 13369 HG21 VAL E 41	-14.779	-7.842	36.972	1.00	56.93	H0
ANISOU13369 HG21 VAL E 41	6500	8880	6250	50	-530 790	H0
ATOM 13370 HG22 VAL E 41	-14.036	-6.439	36.969	1.00	57.26	H0
ANISOU13370 HG22 VAL E 41	6490	8960	6300	-20	-600 680	H0
ATOM 13371 HG23 VAL E 41	-15.378	-6.624	36.145	1.00	55.52	H0
ANISOU13371 HG23 VAL E 41	6330	8670	6090	10	-400 650	H0
ATOM 13372 N ASNE 42	-18.372	-8.393	38.904	1.00	54.06	N0
ANISOU13372 N ASNE 42	6560	8580	5390	-30	-280 790	N0
ATOM 13373 CA ASNE 42	-19.129	-9.155	39.929	1.00	54.64	C0
ANISOU13373 CA ASNE 42	6780	8700	5290	-70	-260 860	C0
ATOM 13374 C ASNE 42	-18.519	-10.554	40.046	1.00	55.50	C0
ANISOU13374 C ASNE 42	6900	8740	5450	-30	-340 1020	C0
ATOM 13375 O ASNE 42	-18.705	-11.365	39.114	1.00	54.44	O0
ANISOU13375 O ASNE 42	6710	8520	5450	10	-260 1060	O0
ATOM 13376 CB ASNE 42	-20.625	-9.181	39.615	1.00	53.30	C0
ANISOU13376 CB ASNE 42	6640	8550	5070	-100	-60 800	C0
ATOM 13377 CG ASNE 42	-21.452	-9.715	40.765	1.00	54.11	C0
ANISOU13377 CG ASNE 42	6890	8710	4960	-160	-10 850	C0
ATOM 13378 OD1 ASNE 42	-20.996	-10.569	41.519	1.00	55.19	O0
ANISOU13378 OD1 ASNE 42	7110	8830	5020	-180	-100 980	O0
ATOM 13379 ND2 ASNE 42	-22.671	-9.223	40.906	1.00	53.83	N0
ANISOU13379 ND2 ASNE 42	6880	8750	4820	-200	140 760	N0
ATOM 13380 H ASNE 42	-18.177	-8.877	38.157	1.00	53.61	H0
ANISOU13380 H ASNE 42	6430	8470	5460	10	-260 820	H0
ATOM 13381 HA ASNE 42	-19.020	-8.697	40.794	1.00	55.60	H0
ANISOU13381 HA ASNE 42	6970	8870	5280	-110	-320 840	H0
ATOM 13382 HB2 ASNE 42	-20.919	-8.271	39.404	1.00	52.78	H0
ANISOU13382 HB2 ASNE 42	6550	8510	5000	-90	-20 700	H0
ATOM 13383 HB3 ASNE 42	-20.774	-9.737	38.824	1.00	52.55	H0
ANISOU13383 HB3 ASNE 42	6490	8400	5080	-70	-10 830	H0
ATOM 13384 HD21 ASNE 42	-23.106	-9.330	41.668	1.00	54.81	H0
ANISOU13384 HD21 ASNE 42	7090	8930	4810	-240	170 770	H0
ATOM 13385 HD22 ASNE 42	-23.053	-8.788	40.238	1.00	52.96	H0
ANISOU13385 HD22 ASNE 42	6700	8640	4780	-170	210 690	H0
ATOM 13386 N GLUE 43	-17.820	-10.810	41.156	1.00	57.09	N0
ANISOU13386 N GLUE 43	7180	8980	5530	-40	-500 1110	N0
ATOM 13387 CA GLUE 43	-17.066	-12.066	41.405	1.00	58.87	C0
ANISOU13387 CA GLUE 43	7430	9140	5800	30	-620 1270	C0
ATOM 13388 C GLUE 43	-18.050	-13.206	41.699	1.00	59.32	C0
ANISOU13388 C GLUE 43	7640	9140	5760	-10	-510 1370	C0
ATOM 13389 O GLUE 43	-17.729	-14.362	41.351	1.00	59.96	O0
ANISOU13389 O GLUE 43	7730	9120	5930	60	-540 1490	O0
ATOM 13390 CB GLUE 43	-16.067	-11.865	42.547	1.00	61.04	C0
ANISOU13390 CB GLUE 43	7740	9490	5960	30	-840 1330	C0

ATOM 13391	CG	GLU E 43	-14.954	-12.899	42.565	1.00	62.56	C0	
ANISOU13391	CG	GLU E 43	7890	9620	6260	140	-1010	1480	C0
ATOM 13392	CD	GLU E 43	-13.810	-12.588	43.517	1.00	64.66	C0	
ANISOU13392	CD	GLU E 43	8130	9980	6450	160	-1250	1530	C0
ATOM 13393	OE1	GLU E 43	-12.768	-13.263	43.420	1.00	65.62	O0	
ANISOU13393	OE1	GLU E 43	8160	10080	6690	270	-1400	1630	O0
ATOM 13394	OE2	GLU E 43	-13.963	-11.671	44.353	1.00	65.22	O0	
ANISOU13394	OE2	GLU E 43	8280	10150	6350	60	-1300	1450	O0
ATOM 13395	H	GLU E 43	-17.770	-10.216	41.846	1.00	57.90	H0	
ANISOU13395	H	GLU E 43	7330	9150	5520	-80	-550	1070	H0
ATOM 13396	HA	GLU E 43	-16.567	-12.290	40.587	1.00	58.22	H0	
ANISOU13396	HA	GLU E 43	7230	9000	5880	90	-620	1280	H0
ATOM 13397	HB2	GLU E 43	-15.671	-10.972	42.462	1.00	60.78	H0	
ANISOU13397	HB2	GLU E 43	7630	9500	5950	10	-880	1250	H0
ATOM 13398	HB3	GLU E 43	-16.551	-11.901	43.398	1.00	61.87	H0	
ANISOU13398	HB3	GLU E 43	7990	9630	5890	-30	-840	1350	H0
ATOM 13399	HG2	GLU E 43	-15.334	-13.769	42.814	1.00	63.11	H0	
ANISOU13399	HG2	GLU E 43	8070	9630	6270	160	-980	1570	H0
ATOM 13400	HG3	GLU E 43	-14.586	-12.986	41.660	1.00	61.71	H0	
ANISOU13400	HG3	GLU E 43	7650	9470	6330	210	-980	1460	H0
ATOM 13401	N	ILE E 44	-19.202	-12.893	42.303	1.00	59.33	N0	
ANISOU13401	N	ILE E 44	7750	9220	5570	-110	-390	1320	N0
ATOM 13402	CA	ILE E 44	-20.266	-13.885	42.644	1.00	60.18	C0	
ANISOU13402	CA	ILE E 44	8010	9300	5560	-180	-270	1400	C0
ATOM 13403	C	ILE E 44	-20.882	-14.425	41.344	1.00	57.96	C0	
ANISOU13403	C	ILE E 44	7640	8930	5450	-170	-110	1380	C0
ATOM 13404	O	ILE E 44	-21.020	-15.656	41.234	1.00	58.96	O0	
ANISOU13404	O	ILE E 44	7850	8950	5600	-180	-90	1490	O0
ATOM 13405	CB	ILE E 44	-21.322	-13.269	43.587	1.00	61.32	C0	
ANISOU13405	CB	ILE E 44	8260	9570	5470	-300	-160	1330	C0
ATOM 13406	CG1	ILE E 44	-20.717	-12.922	44.952	1.00	63.53	C0	
ANISOU13406	CG1	ILE E 44	8680	9920	5540	-320	-320	1370	C0
ATOM 13407	CG2	ILE E 44	-22.535	-14.183	43.726	1.00	61.74	C0	
ANISOU13407	CG2	ILE E 44	8420	9610	5430	-400	10	1380	C0
ATOM 13408	CD1	ILE E 44	-21.526	-11.921	45.747	1.00	64.28	C0	
ANISOU13408	CD1	ILE E 44	8840	10150	5430	-400	-220	1250	C0
ATOM 13409	H	ILE E 44	-19.409	-12.042	42.551	1.00	59.21	H0	
ANISOU13409	H	ILE E 44	7740	9270	5490	-140	-380	1230	H0
ATOM 13410	HA	ILE E 44	-19.844	-14.628	43.111	1.00	61.32	H0	
ANISOU13410	HA	ILE E 44	8240	9390	5660	-170	-360	1520	H0
ATOM 13411	HB	ILE E 44	-21.630	-12.425	43.177	1.00	60.21	H0	
ANISOU13411	HB	ILE E 44	8030	9470	5370	-290	-100	1210	H0
ATOM 13412	HG12	ILE E 44	-20.634	-13.747	45.477	1.00	64.77	H0	
ANISOU13412	HG12	ILE E 44	8950	10040	5620	-340	-360	1490	H0
ATOM 13413	HG13	ILE E 44	-19.816	-12.561	44.816	1.00	63.40	H0	
ANISOU13413	HG13	ILE E 44	8590	9890	5610	-260	-450	1360	H0
ATOM 13414	HG21	ILE E 44	-23.124	-14.062	42.962	1.00	60.61	H0	
ANISOU13414	HG21	ILE E 44	8180	9470	5370	-400	130	1310	H0
ATOM 13415	HG22	ILE E 44	-23.018	-13.964	44.541	1.00	62.72	H0	
ANISOU13415	HG22	ILE E 44	8640	9820	5370	-470	50	1370	H0
ATOM 13416	HG23	ILE E 44	-22.242	-15.110	43.765	1.00	62.46	H0	
ANISOU13416	HG23	ILE E 44	8580	9620	5530	-390	-40	1500	H0
ATOM 13417	HD11	ILE E 44	-21.718	-11.144	45.193	1.00	63.00	H0	
ANISOU13417	HD11	ILE E 44	8580	10010	5350	-380	-170	1130	H0

ATOM 13418 HD12 ILE E 44	-21.019 -11.642 46.530	1.00 65.33	H0
ANISOU13418 HD12 ILE E 44	9060 10320 5450	-410 -340 1260	H0
ATOM 13419 HD13 ILE E 44	-22.362 -12.329 46.032	1.00 64.67	H0
ANISOU13419 HD13 ILE E 44	8970 10220 5380	-470 -100 1270	H0
ATOM 13420 N THR E 45	-21.221 -13.548 40.395	1.00 55.56	N0
ANISOU13420 N THR E 45	7190 8660 5260	-160 -20 1230	N0
ATOM 13421 CA THR E 45	-21.947 -13.907 39.144	1.00 53.81	C0
ANISOU13421 CA THR E 45	6880 8380 5180	-170 120 1190	C0
ATOM 13422 C THR E 45	-20.962 -14.210 38.008	1.00 52.62	C0
ANISOU13422 C THR E 45	6620 8120 5260	-60 60 1200	C0
ATOM 13423 O THR E 45	-21.400 -14.832 37.025	1.00 51.51	O0
ANISOU13423 O THR E 45	6450 7900 5220	-60 160 1200	O0
ATOM 13424 CB THR E 45	-22.934 -12.806 38.740	1.00 52.75	C0
ANISOU13424 CB THR E 45	6660 8350 5030	-200 250 1030	C0
ATOM 13425 OG1 THR E 45	-22.192 -11.682 38.266	1.00 52.08	O0
ANISOU13425 OG1 THR E 45	6470 8270 5040	-120 180 940	O0
ATOM 13426 CG2 THR E 45	-23.840 -12.389 39.879	1.00 53.69	C0
ANISOU13426 CG2 THR E 45	6870 8600 4930	-280 320 1000	C0
ATOM 13427 H THR E 45	-21.034 -12.658 40.447	1.00 55.25	H0
ANISOU13427 H THR E 45	7100 8680 5220	-150 -50 1150	H0
ATOM 13428 HA THR E 45	-22.464 -14.726 39.325	1.00 54.46	H0
ANISOU13428 HA THR E 45	7050 8430 5210	-220 180 1250	H0
ATOM 13429 HB THR E 45	-23.493 -13.151 38.003	1.00 52.11	H0
ANISOU13429 HB THR E 45	6540 8240 5020	-210 340 1010	H0
ATOM 13430 HG21 THR E 45	-24.255 -13.178 40.271	1.00 54.57	H0
ANISOU13430 HG21 THR E 45	7070 8710 4960	-340 360 1070	H0
ATOM 13431 HG22 THR E 45	-24.533 -11.793 39.542	1.00 53.08	H0
ANISOU13431 HG22 THR E 45	6730 8580 4850	-280 410 900	H0
ATOM 13432 HG23 THR E 45	-23.318 -11.926 40.558	1.00 54.32	H0
ANISOU13432 HG23 THR E 45	7000 8710 4930	-270 230 990	H0
ATOM 13433 N ASNE 46	-19.693 -13.799 38.140	1.00 52.73	N0
ANISOU13433 N ASNE 46	6570 8130 5340	20 -90 1220	N0
ATOM 13434 CA ASNE 46	-18.640 -13.950 37.097	1.00 52.20	C0
ANISOU13434 CA ASNE 46	6370 7980 5480	130 -140 1220	C0
ATOM 13435 C ASNE 46	-19.063 -13.171 35.843	1.00 50.79	C0
ANISOU13435 C ASNE 46	6070 7800 5420	120 -20 1080	C0
ATOM 13436 O ASNE 46	-19.083 -13.760 34.744	1.00 49.38	O0
ANISOU13436 O ASNE 46	5850 7540 5380	150 60 1080	O0
ATOM 13437 CB ASNE 46	-18.346 -15.425 36.793	1.00 52.50	C0
ANISOU13437 CB ASNE 46	6470 7880 5610	190 -140 1340	C0
ATOM 13438 CG ASNE 46	-17.296 -16.032 37.699	1.00 53.94	C0
ANISOU13438 CG ASNE 46	6700 8030 5760	270 -320 1470	C0
ATOM 13439 OD1 ASN E 46	-16.426 -15.333 38.211	1.00 54.27	O0
ANISOU13439 OD1 ASN E 46	6670 8160 5790	300 -460 1460	O0
ATOM 13440 ND2 ASN E 46	-17.355 -17.340 37.882	1.00 54.99	N0
ANISOU13440 ND2 ASN E 46	6970 8040 5880	300 -320 1600	N0
ATOM 13441 H ASN E 46	-19.390 -13.390 38.894	1.00 53.49	H0
ANISOU13441 H ASN E 46	6700 8280 5340	10 -170 1220	H0
ATOM 13442 HA ASN E 46	-17.811 -13.545 37.443	1.00 52.69	H0
ANISOU13442 HA ASN E 46	6390 8070 5560	160 -250 1220	H0
ATOM 13443 HB2 ASN E 46	-19.174 -15.936 36.883	1.00 52.59	H0
ANISOU13443 HB2 ASN E 46	6570 7860 5550	120 -60 1360	H0
ATOM 13444 HB3 ASN E 46	-18.044 -15.505 35.866	1.00 51.80	H0
ANISOU13444 HB3 ASN E 46	6290 7730 5660	240 -110 1310	H0

ATOM 13445	HD21	ASN E 46	-16.878	-17.719	38.523	1.00	56.34	H0
ANISOU13445	HD21	ASN E 46	7200	8200	6010	340	-430 1690	H0
ATOM 13446	HD22	ASN E 46	-17.869	-17.838	37.363	1.00	54.63	H0
ANISOU13446	HD22	ASN E 46	6960	7920	5870	270	-230 1600	H0
ATOM 13447	N	GLU E 47	-19.397	-11.891	36.013	1.00	51.29	N0
ANISOU13447	N	GLU E 47	6110	7960	5420	80	0 970	N0
ATOM 13448	CA	GLU E 47	-19.794	-10.979	34.909	1.00	51.28	C0
ANISOU13448	CA	GLU E 47	6020	7970	5500	80	100 850	C0
ATOM 13449	C	GLU E 47	-18.946	-9.709	34.991	1.00	51.84	C0
ANISOU13449	C	GLU E 47	6030	8080	5590	90	10 770	C0
ATOM 13450	O	GLU E 47	-18.667	-9.240	36.119	1.00	52.54	O0
ANISOU13450	O	GLU E 47	6170	8230	5560	60	-80 780	O0
ATOM 13451	CB	GLU E 47	-21.293	-10.678	34.964	1.00	51.15	C0
ANISOU13451	CB	GLU E 47	6050	8010	5370	30	220 780	C0
ATOM 13452	CG	GLU E 47	-22.145	-11.900	34.676	1.00	52.05	C0
ANISOU13452	CG	GLU E 47	6200	8090	5490	-10	320 840	C0
ATOM 13453	CD	GLU E 47	-23.632	-11.757	34.955	1.00	52.73	C0
ANISOU13453	CD	GLU E 47	6310	8270	5450	-90	440 790	C0
ATOM 13454	OE1	GLU E 47	-24.282	-12.799	35.208	1.00	53.52	O0
ANISOU13454	OE1	GLU E 47	6480	8370	5490	-160	500 850	O0
ATOM 13455	OE2	GLU E 47	-24.136	-10.612	34.918	1.00	52.66	O0
ANISOU13455	OE2	GLU E 47	6260	8350	5400	-70	480 680	O0
ATOM 13456	H	GLU E 47	-19.400	-11.493	36.832	1.00	52.00	H0
ANISOU13456	H	GLU E 47	6250	8110	5400	50	-50 970	H0
ATOM 13457	HA	GLU E 47	-19.598	-11.428	34.058	1.00	50.66	H0
ANISOU13457	HA	GLU E 47	5890	7820	5540	110	130 860	H0
ATOM 13458	HB2	GLU E 47	-21.514	-10.334	35.855	1.00	51.92	H0
ANISOU13458	HB2	GLU E 47	6200	8180	5350	0	200 770	H0
ATOM 13459	HB3	GLU E 47	-21.499	-9.980	34.308	1.00	50.43	H0
ANISOU13459	HB3	GLU E 47	5900	7930	5330	40	270 700	H0
ATOM 13460	HG2	GLU E 47	-22.032	-12.145	33.735	1.00	51.28	H0
ANISOU13460	HG2	GLU E 47	6050	7930	5500	10	350 830	H0
ATOM 13461	HG3	GLU E 47	-21.808	-12.649	35.211	1.00	52.85	H0
ANISOU13461	HG3	GLU E 47	6360	8160	5560	-20	270 930	H0
ATOM 13462	N	VAL E 48	-18.532	-9.206	33.829	1.00	51.37	N0
ANISOU13462	N	VAL E 48	5870	7980	5680	120	40 710	N0
ATOM 13463	CA	VAL E 48	-17.745	-7.951	33.674	1.00	52.55	C0
ANISOU13463	CA	VAL E 48	5960	8140	5860	110	-20 630	C0
ATOM 13464	C	VAL E 48	-18.441	-7.084	32.621	1.00	51.77	C0
ANISOU13464	C	VAL E 48	5850	8020	5800	100	90 530	C0
ATOM 13465	O	VAL E 48	-18.939	-7.641	31.627	1.00	50.70	O0
ANISOU13465	O	VAL E 48	5690	7830	5740	130	190 530	O0
ATOM 13466	CB	VAL E 48	-16.279	-8.245	33.298	1.00	53.76	C0
ANISOU13466	CB	VAL E 48	5990	8270	6160	140	-110 680	C0
ATOM 13467	CG1	VAL E 48	-15.630	-9.202	34.287	1.00	55.39	C0
ANISOU13467	CG1	VAL E 48	6200	8500	6340	170	-230 800	C0
ATOM 13468	CG2	VAL E 48	-16.146	-8.781	31.881	1.00	53.30	C0
ANISOU13468	CG2	VAL E 48	5850	8130	6270	190	-10 680	C0
ATOM 13469	H	VAL E 48	-18.712	-9.612	33.033	1.00	50.93	H0
ANISOU13469	H	VAL E 48	5780	7870	5700	140	100 720	H0
ATOM 13470	HA	VAL E 48	-17.757	-7.475	34.523	1.00	53.15	H0
ANISOU13470	HA	VAL E 48	6090	8270	5840	80	-70 620	H0
ATOM 13471	HB	VAL E 48	-15.786	-7.389	33.343	1.00	53.93	H0
ANISOU13471	HB	VAL E 48	5980	8320	6190	110	-150 630	H0

ATOM 13472 HG11 VAL E 48	-15.883	-8.954	35.193	1.00	55.89	H0	
ANISOU13472 HG11 VAL E 48	6340	8610	6280	140	-280	800	H0
ATOM 13473 HG12 VAL E 48	-14.662	-9.155	34.197	1.00	55.92	H0	
ANISOU13473 HG12 VAL E 48	6180	8580	6490	190	-300	810	H0
ATOM 13474 HG13 VAL E 48	-15.929	-10.110	34.104	1.00	55.26	H0	
ANISOU13474 HG13 VAL E 48	6210	8440	6350	210	-190	860	H0
ATOM 13475 HG21 VAL E 48	-16.729	-9.552	31.768	1.00	52.92	H0	
ANISOU13475 HG21 VAL E 48	5850	8050	6210	210	50	720	H0
ATOM 13476 HG22 VAL E 48	-15.224	-9.048	31.722	1.00	53.72	H0	
ANISOU13476 HG22 VAL E 48	5820	8180	6410	220	-60	720	H0
ATOM 13477 HG23 VAL E 48	-16.395	-8.091	31.244	1.00	52.42	H0	
ANISOU13477 HG23 VAL E 48	5730	8010	6180	170	50	610	H0
ATOM 13478 N ASPE 49	-18.476	-5.773	32.860	1.00	52.47	N0	
ANISOU13478 N ASPE 49	5980	8130	5830	70	80	440	N0
ATOM 13479 CA ASPE 49	-19.004	-4.739	31.934	1.00	52.21	C0	
ANISOU13479 CA ASPE 49	5960	8060	5820	80	160	340	C0
ATOM 13480 C ASPE 49	-17.785	-3.953	31.438	1.00	52.00	C0	
ANISOU13480 C ASPE 49	5890	7990	5880	40	100	310	C0
ATOM 13481 O ASPE 49	-17.119	-3.316	32.284	1.00	52.87	O0	
ANISOU13481 O ASPE 49	6020	8130	5940	-10	10	290	O0
ATOM 13482 CB ASPE 49	-20.070	-3.909	32.658	1.00	53.51	C0	
ANISOU13482 CB ASPE 49	6230	8270	5830	90	190	260	C0
ATOM 13483 CG ASPE 49	-20.893	-2.982	31.781	1.00	53.98	C0	
ANISOU13483 CG ASPE 49	6320	8290	5890	130	280	170	C0
ATOM 13484 OD1 ASPE 49	-20.584	-2.868	30.582	1.00	55.16	O0	
ANISOU13484 OD1 ASPE 49	6430	8370	6160	140	300	170	O0
ATOM 13485 OD2 ASPE 49	-21.835	-2.366	32.317	1.00	55.67	O0	
ANISOU13485 OD2 ASPE 49	6610	8540	6000	160	310	100	O0
ATOM 13486 H ASPE 49	-18.164	-5.419	33.639	1.00	53.19	H0	
ANISOU13486 H ASPE 49	6100	8260	5850	50	10	430	H0
ATOM 13487 HA ASPE 49	-19.426	-5.191	31.167	1.00	51.51	H0	
ANISOU13487 HA ASPE 49	5850	7940	5780	110	230	350	H0
ATOM 13488 HB2 ASPE 49	-20.686	-4.520	33.111	1.00	53.67	H0	
ANISOU13488 HB2 ASPE 49	6270	8330	5790	90	220	290	H0
ATOM 13489 HB3 ASPE 49	-19.630	-3.363	33.340	1.00	54.24	H0	
ANISOU13489 HB3 ASPE 49	6370	8380	5860	50	120	240	H0
ATOM 13490 N VAL E 50	-17.476	-4.054	30.139	1.00	50.71	N0	
ANISOU13490 N VAL E 50	5660	7760	5850	60	160	310	N0
ATOM 13491 CA VAL E 50	-16.208	-3.563	29.517	1.00	50.38	C0	
ANISOU13491 CA VAL E 50	5540	7690	5920	10	140	300	C0
ATOM 13492 C VAL E 50	-16.531	-2.567	28.396	1.00	48.67	C0	
ANISOU13492 C VAL E 50	5380	7390	5720	-10	220	220	C0
ATOM 13493 O VAL E 50	-17.500	-2.803	27.645	1.00	47.41	O0	
ANISOU13493 O VAL E 50	5250	7200	5560	50	310	210	O0
ATOM 13494 CB VAL E 50	-15.361	-4.730	28.970	1.00	51.20	C0	
ANISOU13494 CB VAL E 50	5510	7790	6160	40	140	370	C0
ATOM 13495 CG1 VAL E 50	-13.993	-4.265	28.504	1.00	52.40	C0	
ANISOU13495 CG1 VAL E 50	5550	7940	6420	-20	120	360	C0
ATOM 13496 CG2 VAL E 50	-15.207	-5.847	29.987	1.00	52.72	C0	
ANISOU13496 CG2 VAL E 50	5670	8030	6330	80	60	460	C0
ATOM 13497 H VAL E 50	-18.040	-4.438	29.536	1.00	50.04	H0	
ANISOU13497 H VAL E 50	5570	7660	5790	90	230	310	H0
ATOM 13498 HA VAL E 50	-15.690	-3.100	30.200	1.00	51.21	H0	
ANISOU13498 HA VAL E 50	5650	7820	5990	-40	60	280	H0

ATOM 13499 HB VAL E 50	-15.838	-5.100	28.186	1.00	50.57	H0	
ANISOU13499 HB VAL E 50	5430	7670	6110	80	230	370	H0
ATOM 13500 HG11 VAL E 50	-14.092	-3.645	27.762	1.00	51.84	H0	
ANISOU13500 HG11 VAL E 50	5500	7820	6370	-50	180	310	H0
ATOM 13501 HG12 VAL E 50	-13.470	-5.033	28.216	1.00	52.49	H0	
ANISOU13501 HG12 VAL E 50	5470	7960	6520	20	120	410	H0
ATOM 13502 HG13 VAL E 50	-13.534	-3.820	29.238	1.00	53.05	H0	
ANISOU13502 HG13 VAL E 50	5620	8070	6470	-60	30	350	H0
ATOM 13503 HG21 VAL E 50	-14.853	-5.484	30.817	1.00	53.22	H0	
ANISOU13503 HG21 VAL E 50	5740	8140	6340	50	-20	460	H0
ATOM 13504 HG22 VAL E 50	-14.596	-6.520	29.641	1.00	52.72	H0	
ANISOU13504 HG22 VAL E 50	5590	8020	6420	120	60	510	H0
ATOM 13505 HG23 VAL E 50	-16.074	-6.254	30.155	1.00	52.03	H0	
ANISOU13505 HG23 VAL E 50	5650	7940	6180	110	100	470	H0
ATOM 13506 N VAL E 51	-15.722	-1.509	28.285	1.00	48.05	N0	
ANISOU13506 N VAL E 51	5310	7290	5660	-90	190	180	N0
ATOM 13507 CA VAL E 51	-15.660	-0.595	27.106	1.00	47.32	C0	
ANISOU13507 CA VAL E 51	5270	7100	5600	-130	260	120	C0
ATOM 13508 C VAL E 51	-14.326	-0.867	26.402	1.00	47.68	C0	
ANISOU13508 C VAL E 51	5180	7150	5780	-190	280	150	C0
ATOM 13509 O VAL E 51	-13.281	-0.792	27.076	1.00	48.83	O0	
ANISOU13509 O VAL E 51	5230	7360	5960	-260	190	160	O0
ATOM 13510 CB VAL E 51	-15.800	0.885	27.509	1.00	47.97	C0	
ANISOU13510 CB VAL E 51	5510	7130	5590	-180	230	40	C0
ATOM 13511 CG1 VAL E 51	-15.748	1.810	26.299	1.00	47.74	C0	
ANISOU13511 CG1 VAL E 51	5560	6990	5590	-220	300	10	C0
ATOM 13512 CG2 VAL E 51	-17.058	1.138	28.323	1.00	47.98	C0	
ANISOU13512 CG2 VAL E 51	5630	7150	5460	-100	220	10	C0
ATOM 13513 H VAL E 51	-15.141	-1.273	28.946	1.00	49.02	H0	
ANISOU13513 H VAL E 51	5420	7440	5770	-140	110	170	H0
ATOM 13514 HA VAL E 51	-16.384	-0.822	26.502	1.00	46.64	H0	
ANISOU13514 HA VAL E 51	5220	6990	5510	-70	320	130	H0
ATOM 13515 HB VAL E 51	-15.025	1.105	28.084	1.00	48.82	H0	
ANISOU13515 HB VAL E 51	5580	7270	5700	-260	160	40	H0
ATOM 13516 HG11 VAL E 51	-14.836	1.859	25.965	1.00	48.26	H0	
ANISOU13516 HG11 VAL E 51	5560	7050	5720	-300	300	20	H0
ATOM 13517 HG12 VAL E 51	-16.046	2.700	26.557	1.00	48.20	H0	
ANISOU13517 HG12 VAL E 51	5750	7000	5570	-240	280	-50	H0
ATOM 13518 HG13 VAL E 51	-16.331	1.464	25.601	1.00	47.04	H0	
ANISOU13518 HG13 VAL E 51	5480	6880	5510	-160	360	20	H0
ATOM 13519 HG21 VAL E 51	-17.836	0.843	27.818	1.00	47.20	H0	
ANISOU13519 HG21 VAL E 51	5540	7040	5360	-30	280	10	H0
ATOM 13520 HG22 VAL E 51	-17.137	2.089	28.513	1.00	48.44	H0	
ANISOU13520 HG22 VAL E 51	5790	7160	5460	-130	200	-50	H0
ATOM 13521 HG23 VAL E 51	-17.009	0.644	29.160	1.00	48.17	H0	
ANISOU13521 HG23 VAL E 51	5610	7240	5450	-100	170	30	H0
ATOM 13522 N PHE E 52	-14.366	-1.190	25.107	1.00	46.93	N0	
ANISOU13522 N PHE E 52	5060	7010	5760	-170	380	160	N0
ATOM 13523 CA PHE E 52	-13.192	-1.621	24.308	1.00	47.35	C0	
ANISOU13523 CA PHE E 52	4970	7070	5950	-210	430	190	C0
ATOM 13524 C PHE E 52	-13.409	-1.246	22.841	1.00	47.50	C0	
ANISOU13524 C PHE E 52	5060	7000	5980	-230	560	160	C0
ATOM 13525 O PHE E 52	-14.568	-1.251	22.388	1.00	46.76	O0	
ANISOU13525 O PHE E 52	5090	6860	5820	-160	600	150	O0

ATOM 13526 CB PHE E 52	-12.971	-3.129	24.467	1.00	47.00		C0
ANISOU13526 CB PHE E 52	4800	7080	5980	-120	430	260	C0
ATOM 13527 CG PHE E 52	-14.121	-3.990	24.006	1.00	45.75		C0
ANISOU13527 CG PHE E 52	4710	6880	5790	-20	490	280	C0
ATOM 13528 CD1 PHE E 52	-15.145	-4.337	24.874	1.00	45.47		C0
ANISOU13528 CD1 PHE E 52	4740	6870	5670	40	450	290	C0
ATOM 13529 CD2 PHE E 52	-14.181	-4.455	22.700	1.00	45.60		C0
ANISOU13529 CD2 PHE E 52	4680	6810	5830	10	610	270	C0
ATOM 13530 CE1 PHE E 52	-16.204	-5.124	24.447	1.00	44.68		C0
ANISOU13530 CE1 PHE E 52	4690	6750	5540	100	510	310	C0
ATOM 13531 CE2 PHE E 52	-15.243	-5.238	22.273	1.00	44.85		C0
ANISOU13531 CE2 PHE E 52	4650	6680	5710	80	660	290	C0
ATOM 13532 CZ PHE E 52	-16.254	-5.571	23.147	1.00	44.40		C0
ANISOU13532 CZ PHE E 52	4650	6650	5570	120	610	300	C0
ATOM 13533 H PHE E 52	-15.133	-1.171	24.615	1.00	46.27		H0
ANISOU13533 H PHE E 52	5050	6880	5650	-120	430	150	H0
ATOM 13534 HA PHE E 52	-12.390	-1.145	24.640	1.00	48.36		H0
ANISOU13534 HA PHE E 52	5050	7230	6100	-290	390	180	H0
ATOM 13535 HB2 PHE E 52	-12.169	-3.378	23.963	1.00	47.56		H0
ANISOU13535 HB2 PHE E 52	4770	7160	6140	-130	470	270	H0
ATOM 13536 HB3 PHE E 52	-12.798	-3.316	25.414	1.00	47.48		H0
ANISOU13536 HB3 PHE E 52	4820	7200	6020	-110	340	280	H0
ATOM 13537 HD1 PHE E 52	-15.122	-4.029	25.766	1.00	45.82		H0
ANISOU13537 HD1 PHE E 52	4800	6950	5660	20	370	290	H0
ATOM 13538 HD2 PHE E 52	-13.495	-4.227	22.093	1.00	45.99		H0
ANISOU13538 HD2 PHE E 52	4690	6850	5940	-30	660	260	H0
ATOM 13539 HE1 PHE E 52	-16.895	-5.348	25.049	1.00	44.48		H0
ANISOU13539 HE1 PHE E 52	4700	6750	5450	120	480	320	H0
ATOM 13540 HE2 PHE E 52	-15.270	-5.546	21.382	1.00	44.63		H0
ANISOU13540 HE2 PHE E 52	4630	6620	5710	90	730	280	H0
ATOM 13541 HZ PHE E 52	-16.973	-6.110	22.858	1.00	43.89		H0
ANISOU13541 HZ PHE E 52	4620	6580	5480	150	640	310	H0
ATOM 13542 N TRPE 53	-12.329	-0.936	22.119	1.00	49.05		N0
ANISOU13542 N TRPE 53	5190	7190	6260	-320	610	160	N0
ATOM 13543 CA TRPE 53	-12.359	-0.819	20.637	1.00	49.53		C0
ANISOU13543 CA TRPE 53	5300	7180	6340	-340	750	140	C0
ATOM 13544 C TRPE 53	-12.214	-2.221	20.044	1.00	49.01		C0
ANISOU13544 C TRPE 53	5120	7140	6360	-250	820	180	C0
ATOM 13545 O TRPE 53	-11.232	-2.892	20.393	1.00	49.06		O0
ANISOU13545 O TRPE 53	4950	7220	6470	-240	810	200	O0
ATOM 13546 CB TRPE 53	-11.267	0.115	20.105	1.00	50.93		C0
ANISOU13546 CB TRPE 53	5460	7340	6550	-500	800	120	C0
ATOM 13547 CG TRPE 53	-11.214	1.460	20.757	1.00	51.63		C0
ANISOU13547 CG TRPE 53	5670	7390	6560	-610	720	80	C0
ATOM 13548 CD1 TRPE 53	-12.196	2.082	21.471	1.00	50.84		C0
ANISOU13548 CD1 TRPE 53	5730	7240	6350	-570	640	60	C0
ATOM 13549 CD2 TRPE 53	-10.110	2.378	20.709	1.00	53.45		C0
ANISOU13549 CD2 TRPE 53	5870	7620	6820	-800	730	50	C0
ATOM 13550 NE1 TRPE 53	-11.770	3.314	21.886	1.00	52.05		N0
ANISOU13550 NE1 TRPE 53	5980	7340	6450	-700	590	10	N0
ATOM 13551 CE2 TRPE 53	-10.497	3.525	21.433	1.00	53.61		C0
ANISOU13551 CE2 TRPE 53	6070	7570	6730	-860	640	10	C0
ATOM 13552 CE3 TRPE 53	-8.835	2.334	20.136	1.00	55.19		C0
ANISOU13552 CE3 TRPE 53	5930	7900	7140	-920	810	50	C0

ATOM 13553 CZ2 TRP E 53	-9.648	4.617	21.601	1.00	55.56		C0
ANISOU13553 CZ2 TRP E 53	6350	7790	6970	-1050	620	-30	C0
ATOM 13554 CZ3 TRP E 53	-7.997	3.415	20.304	1.00	57.24		C0
ANISOU13554 CZ3 TRP E 53	6200	8150	7400	-1120	790	20	C0
ATOM 13555 CH2 TRP E 53	-8.400	4.538	21.027	1.00	57.03		C0
ANISOU13555 CH2 TRP E 53	6370	8040	7260	-1200	690	-20	C0
ATOM 13556 H TRP E 53	-11.508	-0.786	22.485	1.00	49.91		H0
ANISOU13556 H TRP E 53	5210	7350	6410	-380	580	150	H0
ATOM 13557 HA TRP E 53	-13.232	-0.447	20.376	1.00	48.74		H0
ANISOU13557 HA TRP E 53	5340	7020	6160	-310	760	130	H0
ATOM 13558 HB2 TRP E 53	-10.402	-0.328	20.223	1.00	51.63		H0
ANISOU13558 HB2 TRP E 53	5390	7500	6720	-520	800	130	H0
ATOM 13559 HB3 TRP E 53	-11.409	0.234	19.143	1.00	50.78		H0
ANISOU13559 HB3 TRP E 53	5510	7260	6520	-510	890	110	H0
ATOM 13560 HD1 TRP E 53	-13.047	1.718	21.661	1.00	50.13		H0
ANISOU13560 HD1 TRP E 53	5680	7150	6220	-460	620	60	H0
ATOM 13561 HE1 TRP E 53	-12.242	3.878	22.365	1.00	52.17		H0
ANISOU13561 HE1 TRP E 53	6110	7320	6400	-690	540	-10	H0
ATOM 13562 HE3 TRP E 53	-8.554	1.577	19.648	1.00	55.07		H0
ANISOU13562 HE3 TRP E 53	5800	7930	7200	-870	870	70	H0
ATOM 13563 HZ2 TRP E 53	-9.920	5.374	22.089	1.00	55.85		H0
ANISOU13563 HZ2 TRP E 53	6520	7760	6930	-1090	560	-60	H0
ATOM 13564 HZ3 TRP E 53	-7.134	3.397	19.921	1.00	57.97		H0
ANISOU13564 HZ3 TRP E 53	6170	8300	7560	-1220	850	10	H0
ATOM 13565 HH2 TRP E 53	-7.807	5.259	21.122	1.00	58.28		H0
ANISOU13565 HH2 TRP E 53	6540	8190	7410	-1350	680	-50	H0
ATOM 13566 N GLN E 54	-13.169	-2.644	19.213	1.00	48.68		N0
ANISOU13566 N GLN E 54	5180	7040	6270	-180	890	180	N0
ATOM 13567 CA GLN E 54	-13.098	-3.910	18.437	1.00	49.36		C0
ANISOU13567 CA GLN E 54	5210	7120	6420	-110	980	200	C0
ATOM 13568 C GLN E 54	-12.477	-3.582	17.075	1.00	50.13		C0
ANISOU13568 C GLN E 54	5320	7180	6540	-180	1110	170	C0
ATOM 13569 O GLN E 54	-13.226	-3.290	16.125	1.00	49.44		O0
ANISOU13569 O GLN E 54	5390	7020	6370	-190	1170	150	O0
ATOM 13570 CB GLN E 54	-14.478	-4.559	18.323	1.00	48.88		C0
ANISOU13570 CB GLN E 54	5250	7030	6290	-20	970	210	C0
ATOM 13571 CG GLN E 54	-14.427	-6.000	17.839	1.00	49.51		C0
ANISOU13571 CG GLN E 54	5280	7100	6430	50	1040	230	C0
ATOM 13572 CD GLN E 54	-15.695	-6.750	18.165	1.00	49.35		C0
ANISOU13572 CD GLN E 54	5330	7070	6350	110	1000	240	C0
ATOM 13573 OE1 GLN E 54	-16.052	-6.932	19.327	1.00	50.26		O0
ANISOU13573 OE1 GLN E 54	5420	7230	6440	140	910	270	O0
ATOM 13574 NE2 GLN E 54	-16.396	-7.188	17.134	1.00	50.07		N0
ANISOU13574 NE2 GLN E 54	5500	7120	6400	120	1060	220	N0
ATOM 13575 H GLN E 54	-13.936	-2.173	19.070	1.00	48.23		H0
ANISOU13575 H GLN E 54	5250	6940	6140	-170	880	160	H0
ATOM 13576 HA GLN E 54	-12.499	-4.530	18.913	1.00	49.80		H0
ANISOU13576 HA GLN E 54	5140	7230	6550	-80	960	220	H0
ATOM 13577 HB2 GLN E 54	-14.908	-4.530	19.204	1.00	48.59		H0
ANISOU13577 HB2 GLN E 54	5220	7020	6220	0	890	220	H0
ATOM 13578 HB3 GLN E 54	-15.025	-4.030	17.705	1.00	48.57		H0
ANISOU13578 HB3 GLN E 54	5320	6950	6190	-40	1000	180	H0
ATOM 13579 HG2 GLN E 54	-14.285	-6.011	16.869	1.00	49.68		H0
ANISOU13579 HG2 GLN E 54	5330	7080	6460	30	1120	210	H0

ATOM 13580 HG3 GLN E 54	-13.668	-6.457	18.260	1.00	50.10	H0
ANISOU13580 HG3 GLN E 54	5240	7210	6590	70	1030	250
ATOM 13581 HE21 GLN E 54	-16.885	-7.922	17.212	1.00	49.53	H0
ANISOU13581 HE21 GLN E 54	5450	7040	6330	150	1060	230
ATOM 13582 HE22 GLN E 54	-16.380	-6.748	16.367	1.00	49.78	H0
ANISOU13582 HE22 GLN E 54	5520	7050	6340	90	1110	200
ATOM 13583 N GLN E 55	-11.146	-3.606	17.010	1.00	51.14	N0
ANISOU13583 N GLN E 55	5300	7360	6780	-240	1160	170
ATOM 13584 CA GLN E 55	-10.362	-3.200	15.818	1.00	52.71	C0
ANISOU13584 CA GLN E 55	5490	7540	7000	-330	1310	140
ATOM 13585 C GLN E 55	-10.428	-4.332	14.789	1.00	51.83	C0
ANISOU13585 C GLN E 55	5380	7400	6920	-250	1440	130
ATOM 13586 O GLN E 55	-9.814	-5.385	15.029	1.00	51.72	O0
ANISOU13586 O GLN E 55	5200	7430	7010	-160	1460	140
ATOM 13587 CB GLN E 55	-8.929	-2.856	16.225	1.00	55.18	C0
ANISOU13587 CB GLN E 55	5600	7950	7420	-430	1310	130
ATOM 13588 CG GLN E 55	-8.856	-1.856	17.372	1.00	55.97	C0
ANISOU13588 CG GLN E 55	5710	8070	7480	-510	1170	130
ATOM 13589 CD GLN E 55	-7.465	-1.308	17.569	1.00	58.50	C0
ANISOU13589 CD GLN E 55	5860	8480	7890	-660	1180	120
ATOM 13590 OE1 GLN E 55	-6.483	-2.045	17.581	1.00	60.55	O0
ANISOU13590 OE1 GLN E 55	5880	8850	8270	-620	1210	120
ATOM 13591 NE2 GLN E 55	-7.370	0.001	17.736	1.00	59.91	N0
ANISOU13591 NE2 GLN E 55	6140	8630	8000	-820	1140	90
ATOM 13592 H GLN E 55	-10.633	-3.903	17.701	1.00	51.78	H0
ANISOU13592 H GLN E 55	5260	7500	6920	-220	1110	180
ATOM 13593 HA GLN E 55	-10.782	-2.399	15.434	1.00	52.38	H0
ANISOU13593 HA GLN E 55	5590	7440	6870	-390	1320	130
ATOM 13594 HB2 GLN E 55	-8.472	-3.679	16.488	1.00	55.52	H0
ANISOU13594 HB2 GLN E 55	5500	8040	7550	-350	1310	150
ATOM 13595 HB3 GLN E 55	-8.462	-2.488	15.447	1.00	55.86	H0
ANISOU13595 HB3 GLN E 55	5700	8020	7510	-510	1420	110
ATOM 13596 HG2 GLN E 55	-9.473	-1.114	17.192	1.00	55.51	H0
ANISOU13596 HG2 GLN E 55	5820	7940	7330	-560	1160	120
ATOM 13597 HG3 GLN E 55	-9.146	-2.291	18.201	1.00	55.52	H0
ANISOU13597 HG3 GLN E 55	5620	8050	7430	-440	1070	150
ATOM 13598 HE21 GLN E 55	-6.693	0.340	18.191	1.00	60.63	H0
ANISOU13598 HE21 GLN E 55	6130	8780	8130	-900	1100	80
ATOM 13599 HE22 GLN E 55	-7.981	0.537	17.390	1.00	59.07	H0
ANISOU13599 HE22 GLN E 55	6210	8430	7810	-840	1160	80
ATOM 13600 N THR E 56	-11.160	-4.107	13.695	1.00	50.79	N0
ANISOU13600 N THR E 56	5430	7180	6690	-270	1510	120
ATOM 13601 CA THR E 56	-11.443	-5.098	12.624	1.00	50.35	C0
ANISOU13601 CA THR E 56	5430	7080	6620	-210	1630	100
ATOM 13602 C THR E 56	-10.942	-4.542	11.285	1.00	50.44	C0
ANISOU13602 C THR E 56	5520	7060	6580	-310	1780	70
ATOM 13603 O THR E 56	-11.418	-3.458	10.879	1.00	48.79	O0
ANISOU13603 O THR E 56	5480	6790	6260	-400	1770	70
ATOM 13604 CB THR E 56	-12.939	-5.436	12.601	1.00	49.33	C0
ANISOU13604 CB THR E 56	5450	6900	6390	-140	1550	110
ATOM 13605 OG1 THR E 56	-13.389	-5.524	13.953	1.00	50.05	O0
ANISOU13605 OG1 THR E 56	5490	7030	6490	-80	1400	140
ATOM 13606 CG2 THR E 56	-13.243	-6.738	11.898	1.00	49.75	C0
ANISOU13606 CG2 THR E 56	5540	6920	6450	-60	1630	90

ATOM 13607 H THR E 56	-11.549	-3.301	13.525	1.00	50.62		H0
ANISOU13607 H THR E 56	5520	7120	6590	-320	1490	110	H0
ATOM 13608 HA THR E 56	-10.944	-5.918	12.829	1.00	50.72		H0
ANISOU13608 HA THR E 56	5350	7160	6760	-140	1650	100	H0
ATOM 13609 HB THR E 56	-13.420	-4.703	12.147	1.00	49.40		H0
ANISOU13609 HB THR E 56	5590	6870	6310	-180	1540	100	H0
ATOM 13610 HG21 THR E 56	-12.912	-6.699	10.983	1.00	50.20		H0
ANISOU13610 HG21 THR E 56	5640	6950	6490	-100	1730	70	H0
ATOM 13611 HG22 THR E 56	-14.206	-6.885	11.888	1.00	48.86		H0
ANISOU13611 HG22 THR E 56	5510	6780	6270	-40	1570	100	H0
ATOM 13612 HG23 THR E 56	-12.808	-7.471	12.368	1.00	49.88		H0
ANISOU13612 HG23 THR E 56	5440	6960	6550	0	1630	100	H0
ATOM 13613 N THR E 57	-10.002	-5.246	10.642	1.00	51.35		N0
ANISOU13613 N THR E 57	5530	7200	6780	-300	1930	40	N0
ATOM 13614 CA THR E 57	-9.426	-4.884	9.316	1.00	52.35		C0
ANISOU13614 CA THR E 57	5720	7310	6860	-410	2120	10	C0
ATOM 13615 C THR E 57	-9.568	-6.074	8.358	1.00	52.13		C0
ANISOU13615 C THR E 57	5740	7240	6830	-320	2250	-30	C0
ATOM 13616 O THR E 57	-9.453	-7.229	8.813	1.00	51.06		O0
ANISOU13616 O THR E 57	5490	7120	6790	-190	2230	-40	O0
ATOM 13617 CB THR E 57	-7.978	-4.388	9.446	1.00	54.19		C0
ANISOU13617 CB THR E 57	5750	7640	7200	-510	2210	-10	C0
ATOM 13618 OG1 THR E 57	-7.113	-5.483	9.744	1.00	56.00		O0
ANISOU13618 OG1 THR E 57	5740	7950	7590	-400	2260	-20	O0
ATOM 13619 CG2 THR E 57	-7.812	-3.328	10.514	1.00	54.06		C0
ANISOU13619 CG2 THR E 57	5690	7650	7200	-600	2060	20	C0
ATOM 13620 H THR E 57	-9.640	-6.011	10.979	1.00	51.61		H0
ANISOU13620 H THR E 57	5440	7270	6900	-230	1940	40	H0
ATOM 13621 HA THR E 57	-9.963	-4.146	8.959	1.00	51.97		H0
ANISOU13621 HA THR E 57	5830	7210	6710	-470	2100	10	H0
ATOM 13622 HB THR E 57	-7.710	-4.003	8.578	1.00	55.15		H0
ANISOU13622 HB THR E 57	5950	7740	7270	-600	2330	-30	H0
ATOM 13623 HG21 THR E 57	-8.486	-2.635	10.393	1.00	53.42		H0
ANISOU13623 HG21 THR E 57	5780	7500	7010	-650	2010	30	H0
ATOM 13624 HG22 THR E 57	-6.925	-2.933	10.445	1.00	55.31		H0
ANISOU13624 HG22 THR E 57	5740	7870	7410	-700	2130	10	H0
ATOM 13625 HG23 THR E 57	-7.918	-3.732	11.394	1.00	53.52		H0
ANISOU13625 HG23 THR E 57	5520	7620	7190	-520	1960	40	H0
ATOM 13626 N TRPE 58	-9.835	-5.788	7.080	1.00	52.71		N0
ANISOU13626 N TRPE 58	6000	7250	6770	-390	2360	-60	N0
ATOM 13627 CA TRPE 58	-9.918	-6.785	5.979	1.00	53.07		C0
ANISOU13627 CA TRPE 58	6140	7250	6770	-340	2500	-110	C0
ATOM 13628 C TRPE 58	-9.822	-6.057	4.637	1.00	54.99		C0
ANISOU13628 C TRPE 58	6570	7450	6870	-480	2650	-130	C0
ATOM 13629 O TRPE 58	-9.920	-4.816	4.633	1.00	54.96		O0
ANISOU13629 O TRPE 58	6660	7440	6790	-600	2600	-90	O0
ATOM 13630 CB TRPE 58	-11.214	-7.602	6.089	1.00	50.92		C0
ANISOU13630 CB TRPE 58	5990	6920	6440	-240	2390	-100	C0
ATOM 13631 CG TRPE 58	-12.453	-6.792	5.870	1.00	48.87		C0
ANISOU13631 CG TRPE 58	5940	6610	6020	-300	2260	-70	C0
ATOM 13632 CD1 TRPE 58	-13.108	-6.604	4.688	1.00	48.76		C0
ANISOU13632 CD1 TRPE 58	6150	6540	5840	-350	2300	-90	C0
ATOM 13633 CD2 TRPE 58	-13.174	-6.030	6.854	1.00	47.18		C0
ANISOU13633 CD2 TRPE 58	5730	6410	5790	-290	2070	-20	C0

ATOM 13634 NE1 TRP E 58	-14.190	-5.787	4.869	1.00	47.96		N0
ANISOU13634 NE1 TRP E 58	6170	6420	5630	-360	2140	-50	N0
ATOM 13635 CE2 TRP E 58	-14.257	-5.418	6.186	1.00	46.67		C0
ANISOU13635 CE2 TRP E 58	5880	6290	5560	-320	2010	-10	C0
ATOM 13636 CE3 TRP E 58	-13.017	-5.806	8.226	1.00	46.20		C0
ANISOU13636 CE3 TRP E 58	5450	6340	5770	-250	1960	10	C0
ATOM 13637 CZ2 TRP E 58	-15.173	-4.604	6.848	1.00	45.59		C0
ANISOU13637 CZ2 TRP E 58	5790	6160	5370	-300	1840	30	C0
ATOM 13638 CZ3 TRP E 58	-13.920	-4.996	8.876	1.00	45.32		C0
ANISOU13638 CZ3 TRP E 58	5410	6220	5590	-250	1800	40	C0
ATOM 13639 CH2 TRP E 58	-14.984	-4.405	8.196	1.00	44.85		C0
ANISOU13639 CH2 TRP E 58	5550	6110	5380	-270	1750	50	C0
ATOM 13640 H TRP E 58	-9.989	-4.936	6.796	1.00	52.66		H0
ANISOU13640 H TRP E 58	6100	7220	6680	-480	2350	-40	H0
ATOM 13641 HA TRP E 58	-9.155	-7.403	6.066	1.00	54.01		H0
ANISOU13641 HA TRP E 58	6110	7410	7000	-290	2590	-130	H0
ATOM 13642 HB2 TRP E 58	-11.180	-8.324	5.428	1.00	51.42		H0
ANISOU13642 HB2 TRP E 58	6100	6950	6490	-210	2480	-140	H0
ATOM 13643 HB3 TRP E 58	-11.249	-8.010	6.978	1.00	50.32		H0
ANISOU13643 HB3 TRP E 58	5800	6870	6450	-170	2300	-80	H0
ATOM 13644 HD1 TRP E 58	-12.858	-6.986	3.860	1.00	49.69		H0
ANISOU13644 HD1 TRP E 58	6330	6630	5920	-370	2420	-130	H0
ATOM 13645 HE1 TRP E 58	-14.749	-5.544	4.243	1.00	47.94		H0
ANISOU13645 HE1 TRP E 58	6320	6380	5520	-380	2120	-50	H0
ATOM 13646 HE3 TRP E 58	-12.301	-6.200	8.695	1.00	46.72		H0
ANISOU13646 HE3 TRP E 58	5370	6450	5940	-230	1980	10	H0
ATOM 13647 HZ2 TRP E 58	-15.891	-4.204	6.387	1.00	45.53		H0
ANISOU13647 HZ2 TRP E 58	5920	6120	5260	-310	1790	30	H0
ATOM 13648 HZ3 TRP E 58	-13.822	-4.842	9.802	1.00	44.97		H0
ANISOU13648 HZ3 TRP E 58	5270	6210	5600	-230	1720	60	H0
ATOM 13649 HH2 TRP E 58	-15.589	-3.861	8.669	1.00	44.40		H0
ANISOU13649 HH2 TRP E 58	5530	6050	5290	-250	1640	70	H0
ATOM 13650 N SER E 59	-9.644	-6.810	3.548	1.00	57.78		N0
ANISOU13650 N SER E 59	7000	7780	7180	-470	2810	-180	N0
ATOM 13651 CA SER E 59	-9.588	-6.306	2.149	1.00	60.24		C0
ANISOU13651 CA SER E 59	7520	8050	7320	-590	2960	-210	C0
ATOM 13652 C SER E 59	-10.893	-6.643	1.418	1.00	60.34		C0
ANISOU13652 C SER E 59	7800	7970	7160	-560	2890	-210	C0
ATOM 13653 O SER E 59	-11.366	-7.785	1.551	1.00	59.28		O0
ANISOU13653 O SER E 59	7650	7810	7060	-450	2860	-250	O0
ATOM 13654 CB SER E 59	-8.408	-6.885	1.415	1.00	62.40		C0
ANISOU13654 CB SER E 59	7690	8360	7650	-600	3220	-280	C0
ATOM 13655 OG SER E 59	-7.211	-6.690	2.152	1.00	64.24		O0
ANISOU13655 OG SER E 59	7640	8710	8060	-610	3270	-280	O0
ATOM 13656 H SER E 59	-9.541	-7.714	3.588	1.00	57.79		H0
ANISOU13656 H SER E 59	6940	7780	7240	-380	2850	-210	H0
ATOM 13657 HA SER E 59	-9.490	-5.317	2.177	1.00	60.30		H0
ANISOU13657 HA SER E 59	7570	8060	7280	-690	2940	-170	H0
ATOM 13658 HB2 SER E 59	-8.553	-7.848	1.271	1.00	62.62		H0
ANISOU13658 HB2 SER E 59	7720	8370	7700	-500	3250	-320	H0
ATOM 13659 HB3 SER E 59	-8.327	-6.453	0.535	1.00	63.49		H0
ANISOU13659 HB3 SER E 59	7970	8480	7670	-700	3330	-290	H0
ATOM 13660 N ASP E 60	-11.438	-5.680	0.672	1.00	61.96		N0
ANISOU13660 N ASP E 60	8240	8130	7180	-670	2860	-180	N0

ATOM 13661	CA	ASPE	60	-12.476	-5.900	-0.371	1.00	62.87	C0	
ANISOU13661	CA	ASPE	60	8620	8170	7090	-670	2830	-190	C0
ATOM 13662	C	ASPE	60	-11.962	-5.254	-1.659	1.00	65.70	C0	
ANISOU13662	C	ASPE	60	9170	8500	7290	-820	3010	-200	C0
ATOM 13663	O	ASPE	60	-12.357	-4.109	-1.947	1.00	66.20	O0	
ANISOU13663	O	ASPE	60	9420	8520	7220	-900	2930	-140	O0
ATOM 13664	CB	ASPE	60	-13.844	-5.369	0.071	1.00	61.40	C0	
ANISOU13664	CB	ASPE	60	8540	7960	6830	-640	2580	-130	C0
ATOM 13665	CG	ASPE	60	-14.988	-5.713	-0.873	1.00	61.66	C0	
ANISOU13665	CG	ASPE	60	8810	7950	6670	-630	2510	-150	C0
ATOM 13666	OD1	ASPE	60	-14.708	-6.185	-2.003	1.00	61.33	O0	
ANISOU13666	OD1	ASPE	60	8900	7880	6520	-680	2660	-200	O0
ATOM 13667	OD2	ASPE	60	-16.159	-5.510	-0.465	1.00	60.50	O0	
ANISOU13667	OD2	ASPE	60	8700	7800	6480	-570	2300	-110	O0
ATOM 13668	H	ASPE	60	-11.203	-4.804	0.765	1.00	62.03	H0	
ANISOU13668	H	ASPE	60	8260	8140	7170	-740	2850	-150	H0
ATOM 13669	HA	ASPE	60	-12.560	-6.871	-0.523	1.00	62.94	H0	
ANISOU13669	HA	ASPE	60	8610	8180	7130	-610	2870	-240	H0
ATOM 13670	HB2	ASPE	60	-14.055	-5.740	0.952	1.00	60.40	H0	
ANISOU13670	HB2	ASPE	60	8280	7860	6810	-560	2490	-130	H0
ATOM 13671	HB3	ASPE	60	-13.797	-4.395	0.155	1.00	61.51	H0	
ANISOU13671	HB3	ASPE	60	8610	7960	6800	-690	2540	-90	H0
ATOM 13672	N	ARGE	61	-11.110	-5.975	-2.393	1.00	68.82	N0	
ANISOU13672	N	ARGE	61	9540	8910	7700	-840	3240	-280	N0
ATOM 13673	CA	ARGE	61	-10.328	-5.454	-3.548	1.00	72.27	C0	
ANISOU13673	CA	ARGE	61	10110	9340	8000	-990	3470	-300	C0
ATOM 13674	C	ARGE	61	-11.258	-4.927	-4.653	1.00	72.88	C0	
ANISOU13674	C	ARGE	61	10550	9340	7800	-1070	3410	-260	C0
ATOM 13675	O	ARGE	61	-10.771	-4.155	-5.502	1.00	73.95	O0	
ANISOU13675	O	ARGE	61	10850	9450	7800	-1210	3550	-250	O0
ATOM 13676	CB	ARGE	61	-9.383	-6.538	-4.081	1.00	75.14	C0	
ANISOU13676	CB	ARGE	61	10370	9740	8430	-950	3720	-400	C0
ATOM 13677	CG	ARGE	61	-8.283	-6.937	-3.106	1.00	76.53	C0	
ANISOU13677	CG	ARGE	61	10190	10020	8880	-880	3800	-420	C0
ATOM 13678	CD	ARGE	61	-6.968	-7.245	-3.798	1.00	80.24	C0	
ANISOU13678	CD	ARGE	61	10550	10550	9390	-920	4110	-500	C0
ATOM 13679	NE	ARGE	61	-7.116	-8.279	-4.817	1.00	82.91	N0	
ANISOU13679	NE	ARGE	61	11040	10840	9620	-860	4260	-600	N0
ATOM 13680	CZ	ARGE	61	-6.231	-8.551	-5.775	1.00	85.83	C0	
ANISOU13680	CZ	ARGE	61	11430	11240	9940	-910	4560	-680	C0
ATOM 13681	NH1	ARGE	61	-6.484	-9.519	-6.642	1.00	87.61	N0	
ANISOU13681	NH1	ARGE	61	11820	11400	10060	-850	4670	-770	N0
ATOM 13682	NH2	ARGE	61	-5.103	-7.866	-5.873	1.00	87.95	N0	
ANISOU13682	NH2	ARGE	61	11540	11610	10270	-1030	4740	-680	N0
ATOM 13683	H	ARGE	61	-10.958	-6.857	-2.224	1.00	68.70	H0	
ANISOU13683	H	ARGE	61	9430	8910	7770	-760	3280	-320	H0
ATOM 13684	HA	ARGE	61	-9.781	-4.701	-3.225	1.00	72.58	H0	
ANISOU13684	HA	ARGE	61	10080	9410	8090	-1060	3490	-260	H0
ATOM 13685	HB2	ARGE	61	-9.913	-7.332	-4.302	1.00	74.79	H0	
ANISOU13685	HB2	ARGE	61	10400	9670	8350	-880	3690	-440	H0
ATOM 13686	HB3	ARGE	61	-8.970	-6.212	-4.908	1.00	76.60	H0	
ANISOU13686	HB3	ARGE	61	10670	9930	8510	-1050	3880	-410	H0
ATOM 13687	HG2	ARGE	61	-8.140	-6.208	-2.464	1.00	75.96	H0	
ANISOU13687	HG2	ARGE	61	10020	9970	8860	-920	3720	-370	H0

ATOM 13688 HG3 ARG E 61	-8.570	-7.728	-2.602	1.00	75.65		H0
ANISOU13688 HG3 ARG E 61	9990	9900	8850	-750	3720	-440	H0
ATOM 13689 HD2 ARG E 61	-6.627	-6.425	-4.214	1.00	81.25		H0
ANISOU13689 HD2 ARG E 61	10740	10700	9440	-1060	4190	-480	H0
ATOM 13690 HD3 ARG E 61	-6.313	-7.540	-3.130	1.00	80.47		H0
ANISOU13690 HD3 ARG E 61	10330	10650	9590	-850	4140	-520	H0
ATOM 13691 HE ARG E 61	-7.842	-8.762	-4.796	1.00	81.80		H0
ANISOU13691 HE ARG E 61	11000	10640	9440	-800	4160	-600	H0
ATOM 13692 HH11 ARG E 61	-7.231	-9.978	-6.582	1.00	86.26		H0
ANISOU13692 HH11 ARG E 61	11760	11170	9850	-790	4550	-780	H0
ATOM 13693 HH12 ARG E 61	-5.904	-9.702	-7.276	1.00	88.96		H0
ANISOU13693 HH12 ARG E 61	12010	11600	10200	-880	4870	-830	H0
ATOM 13694 HH21 ARG E 61	-4.924	-7.221	-5.302	1.00	87.26		H0
ANISOU13694 HH21 ARG E 61	11340	11570	10250	-1080	4670	-620	H0
ATOM 13695 HH22 ARG E 61	-4.529	-8.058	-6.513	1.00	89.49		H0
ANISOU13695 HH22 ARG E 61	11740	11840	10430	-1060	4950	-740	H0
ATOM 13696 N THR E 62	-12.544	-5.300	-4.640	1.00	71.71		N0
ANISOU13696 N THR E 62	10520	9150	7580	-980	3200	-250	N0
ATOM 13697 CA THR E 62	-13.570	-4.814	-5.605	1.00	72.13		C0
ANISOU13697 CA THR E 62	10900	9140	7370	-1030	3090	-220	C0
ATOM 13698 C THR E 62	-13.930	-3.349	-5.313	1.00	71.18		C0
ANISOU13698 C THR E 62	10880	8980	7190	-1080	2940	-110	C0
ATOM 13699 O THR E 62	-14.633	-2.754	-6.151	1.00	72.25		O0
ANISOU13699 O THR E 62	11290	9060	7100	-1120	2860	-60	O0
ATOM 13700 CB THR E 62	-14.838	-5.680	-5.589	1.00	71.48		C0
ANISOU13700 CB THR E 62	10870	9050	7240	-930	2910	-240	C0
ATOM 13701 OG1 THR E 62	-15.465	-5.531	-4.315	1.00	69.87		O0
ANISOU13701 OG1 THR E 62	10490	8880	7180	-820	2690	-200	O0
ATOM 13702 CG2 THR E 62	-14.565	-7.142	-5.871	1.00	71.97		C0
ANISOU13702 CG2 THR E 62	10870	9120	7350	-880	3040	-350	C0
ATOM 13703 H THR E 62	-12.885	-5.893	-4.041	1.00	70.61		H0
ANISOU13703 H THR E 62	10270	9030	7530	-890	3120	-270	H0
ATOM 13704 HA THR E 62	-13.177	-4.861	-6.507	1.00	73.57		H0
ANISOU13704 HA THR E 62	11210	9300	7440	-1110	3250	-250	H0
ATOM 13705 HB THR E 62	-15.450	-5.337	-6.283	1.00	72.01		H0
ANISOU13705 HB THR E 62	11140	9090	7130	-960	2840	-220	H0
ATOM 13706 HG21 THR E 62	-14.045	-7.224	-6.691	1.00	73.41		H0
ANISOU13706 HG21 THR E 62	11160	9280	7440	-950	3210	-390	H0
ATOM 13707 HG22 THR E 62	-15.409	-7.617	-5.975	1.00	71.52		H0
ANISOU13707 HG22 THR E 62	10890	9050	7240	-850	2930	-370	H0
ATOM 13708 HG23 THR E 62	-14.065	-7.531	-5.131	1.00	71.40		H0
ANISOU13708 HG23 THR E 62	10600	9070	7460	-820	3090	-370	H0
ATOM 13709 N LEU E 63	-13.496	-2.800	-4.171	1.00	68.99		N0
ANISOU13709 N LEU E 63	10390	8730	7090	-1060	2900	-70	N0
ATOM 13710 CA LEU E 63	-13.687	-1.367	-3.807	1.00	68.01		C0
ANISOU13710 CA LEU E 63	10370	8550	6920	-1110	2770	20	C0
ATOM 13711 C LEU E 63	-12.490	-0.526	-4.277	1.00	68.99		C0
ANISOU13711 C LEU E 63	10550	8650	7010	-1290	2980	40	C0
ATOM 13712 O LEU E 63	-12.641	0.706	-4.330	1.00	69.34		O0
ANISOU13712 O LEU E 63	10770	8620	6960	-1370	2910	120	O0
ATOM 13713 CB LEU E 63	-13.882	-1.249	-2.291	1.00	65.75		C0
ANISOU13713 CB LEU E 63	9840	8310	6840	-1010	2610	40	C0
ATOM 13714 CG LEU E 63	-15.032	-2.071	-1.710	1.00	63.84		C0
ANISOU13714 CG LEU E 63	9520	8100	6640	-850	2420	20	C0

ATOM 13715 CD1 LEU E 63	-15.158	-1.838	-0.212	1.00	62.16		C0
ANISOU13715 CD1 LEU E 63	9090	7930	6600	-760	2280	50	C0
ATOM 13716 CD2 LEU E 63	-16.345	-1.754	-2.411	1.00	63.76		C0
ANISOU13716 CD2 LEU E 63	9750	8040	6430	-810	2250	60	C0
ATOM 13717 H LEU E 63	-13.069	-3.280	-3.527	1.00	68.52		H0
ANISOU13717 H LEU E 63	10130	8720	7180	-1020	2930	-100	H0
ATOM 13718 HA LEU E 63	-14.494	-1.037	-4.264	1.00	68.04		H0
ANISOU13718 HA LEU E 63	10560	8510	6780	-1090	2660	60	H0
ATOM 13719 HB2 LEU E 63	-13.052	-1.523	-1.852	1.00	65.86		H0
ANISOU13719 HB2 LEU E 63	9670	8370	6990	-1030	2720	10	H0
ATOM 13720 HB3 LEU E 63	-14.033	-0.308	-2.073	1.00	65.85		H0
ANISOU13720 HB3 LEU E 63	9930	8270	6810	-1040	2530	100	H0
ATOM 13721 HG LEU E 63	-14.830	-3.027	-1.856	1.00	63.82		H0
ANISOU13721 HG LEU E 63	9430	8130	6680	-820	2500	-30	H0
ATOM 13722 HD11 LEU E 63	-14.317	-2.062	0.223	1.00	62.25		H0
ANISOU13722 HD11 LEU E 63	8940	7970	6740	-790	2380	20	H0
ATOM 13723 HD12 LEU E 63	-15.867	-2.401	0.145	1.00	61.22		H0
ANISOU13723 HD12 LEU E 63	8910	7840	6510	-670	2180	30	H0
ATOM 13724 HD13 LEU E 63	-15.370	-0.904	-0.045	1.00	62.25		H0
ANISOU13724 HD13 LEU E 63	9190	7900	6570	-780	2200	90	H0
ATOM 13725 HD21 LEU E 63	-16.460	-0.789	-2.466	1.00	64.20		H0
ANISOU13725 HD21 LEU E 63	9930	8050	6420	-830	2200	120	H0
ATOM 13726 HD22 LEU E 63	-17.081	-2.141	-1.908	1.00	62.74		H0
ANISOU13726 HD22 LEU E 63	9550	7950	6340	-710	2120	50	H0
ATOM 13727 HD23 LEU E 63	-16.335	-2.131	-3.308	1.00	64.71		H0
ANISOU13727 HD23 LEU E 63	10000	8150	6440	-850	2330	30	H0
ATOM 13728 N ALA E 64	-11.360	-1.161	-4.611	1.00	69.34		N0
ANISOU13728 N ALA E 64	10460	8760	7130	-1360	3230	-30	N0
ATOM 13729 CA ALA E 64	-10.104	-0.505	-5.051	1.00	71.07		C0
ANISOU13729 CA ALA E 64	10680	8990	7330	-1560	3470	-20	C0
ATOM 13730 C ALA E 64	-10.403	0.523	-6.148	1.00	72.01		C0
ANISOU13730 C ALA E 64	11180	9000	7180	-1700	3490	50	C0
ATOM 13731 O ALA E 64	-11.177	0.199	-7.070	1.00	72.63		O0
ANISOU13731 O ALA E 64	11500	9030	7060	-1660	3450	50	O0
ATOM 13732 CB ALA E 64	-9.106	-1.530	-5.537	1.00	72.42		C0
ANISOU13732 CB ALA E 64	10690	9260	7570	-1570	3740	-120	C0
ATOM 13733 H ALA E 64	-11.278	-2.067	-4.585	1.00	69.19		H0
ANISOU13733 H ALA E 64	10330	8790	7170	-1290	3280	-90	H0
ATOM 13734 HA ALA E 64	-9.719	-0.032	-4.278	1.00	70.65		H0
ANISOU13734 HA ALA E 64	10480	8960	7400	-1580	3440	0	H0
ATOM 13735 HB1 ALA E 64	-8.270	-1.089	-5.760	1.00	73.83		H0
ANISOU13735 HB1 ALA E 64	10840	9460	7750	-1700	3900	-120	H0
ATOM 13736 HB2 ALA E 64	-8.948	-2.187	-4.838	1.00	71.49		H0
ANISOU13736 HB2 ALA E 64	10340	9200	7620	-1470	3720	-160	H0
ATOM 13737 HB3 ALA E 64	-9.456	-1.976	-6.326	1.00	72.89		H0
ANISOU13737 HB3 ALA E 64	10900	9290	7500	-1560	3780	-150	H0
ATOM 13738 N TRPE 65	-9.821	1.719	-6.025	1.00	72.38		N0
ANISOU13738 N TRPE 65	11290	9000	7210	-1860	3540	110	N0
ATOM 13739 CA TRPE 65	-9.843	2.796	-7.049	1.00	74.09		C0
ANISOU13739 CA TRPE 65	11880	9100	7170	-2030	3600	190	C0
ATOM 13740 C TRPE 65	-8.423	3.348	-7.213	1.00	76.21		C0
ANISOU13740 C TRPE 65	12070	9400	7480	-2270	3860	180	C0
ATOM 13741 O TRPE 65	-7.621	3.211	-6.266	1.00	75.20		O0
ANISOU13741 O TRPE 65	11610	9380	7590	-2290	3910	140	O0

ATOM 13742 CB TRP E 65	-10.855	3.887	-6.671	1.00	73.02		C0
ANISOU13742 CB TRP E 65	11970	8820	6950	-1980	3320	290	C0
ATOM 13743 CG TRP E 65	-10.423	4.777	-5.545	1.00	72.39		C0
ANISOU13743 CG TRP E 65	11760	8720	7020	-2040	3260	330	C0
ATOM 13744 CD1 TRP E 65	-9.715	5.938	-5.647	1.00	73.84		C0
ANISOU13744 CD1 TRP E 65	12080	8820	7150	-2250	3350	380	C0
ATOM 13745 CD2 TRP E 65	-10.674	4.585	-4.140	1.00	69.65		C0
ANISOU13745 CD2 TRP E 65	11140	8430	6900	-1890	3080	300	C0
ATOM 13746 NE1 TRP E 65	-9.504	6.479	-4.408	1.00	72.86		N0
ANISOU13746 NE1 TRP E 65	11790	8690	7200	-2250	3250	390	N0
ATOM 13747 CE2 TRP E 65	-10.081	5.673	-3.463	1.00	70.09		C0
ANISOU13747 CE2 TRP E 65	11180	8430	7020	-2030	3080	340	C0
ATOM 13748 CE3 TRP E 65	-11.341	3.609	-3.388	1.00	67.20		C0
ANISOU13748 CE3 TRP E 65	10600	8200	6730	-1670	2940	260	C0
ATOM 13749 CZ2 TRP E 65	-10.139	5.808	-2.075	1.00	68.50		C0
ANISOU13749 CZ2 TRP E 65	10750	8260	7010	-1940	2930	330	C0
ATOM 13750 CZ3 TRP E 65	-11.395	3.742	-2.018	1.00	65.16		C0
ANISOU13750 CZ3 TRP E 65	10120	7980	6650	-1590	2800	250	C0
ATOM 13751 CH2 TRP E 65	-10.800	4.826	-1.371	1.00	65.71		C0
ANISOU13751 CH2 TRP E 65	10190	8000	6780	-1720	2790	280	C0
ATOM 13752 H TRP E 65	-9.359	1.959	-5.277	1.00	72.14		H0
ANISOU13752 H TRP E 65	11090	9010	7320	-1880	3530	110	H0
ATOM 13753 HA TRP E 65	-10.129	2.398	-7.905	1.00	74.73		H0
ANISOU13753 HA TRP E 65	12120	9170	7110	-2030	3640	170	H0
ATOM 13754 HB2 TRP E 65	-11.023	4.437	-7.464	1.00	74.39		H0
ANISOU13754 HB2 TRP E 65	12420	8910	6930	-2060	3340	350	H0
ATOM 13755 HB3 TRP E 65	-11.698	3.452	-6.428	1.00	71.62		H0
ANISOU13755 HB3 TRP E 65	11770	8660	6780	-1820	3160	290	H0
ATOM 13756 HD1 TRP E 65	-9.405	6.317	-6.454	1.00	75.58		H0
ANISOU13756 HD1 TRP E 65	12500	8990	7230	-2390	3480	410	H0
ATOM 13757 HE1 TRP E 65	-9.070	7.222	-4.248	1.00	73.71		H0
ANISOU13757 HE1 TRP E 65	11950	8750	7310	-2380	3280	420	H0
ATOM 13758 HE3 TRP E 65	-11.745	2.874	-3.815	1.00	66.80		H0
ANISOU13758 HE3 TRP E 65	10560	8180	6630	-1590	2930	230	H0
ATOM 13759 HZ2 TRP E 65	-9.737	6.539	-1.639	1.00	68.97		H0
ANISOU13759 HZ2 TRP E 65	10820	8280	7100	-2050	2930	350	H0
ATOM 13760 HZ3 TRP E 65	-11.840	3.087	-1.505	1.00	63.88		H0
ANISOU13760 HZ3 TRP E 65	9820	7870	6580	-1460	2700	220	H0
ATOM 13761 HH2 TRP E 65	-10.853	4.889	-0.435	1.00	64.92		H0
ANISOU13761 HH2 TRP E 65	9940	7930	6800	-1670	2690	270	H0
ATOM 13762 N ASN E 66	-8.126	3.929	-8.377	1.00	79.36		N0
ANISOU13762 N ASN E 66	12770	9730	7650	-2460	4030	220	N0
ATOM 13763 CA ASN E 66	-6.810	4.546	-8.689	1.00	82.15		C0
ANISOU13763 CA ASN E 66	13100	10120	7990	-2740	4310	220	C0
ATOM 13764 C ASN E 66	-6.745	5.904	-7.978	1.00	81.21		C0
ANISOU13764 C ASN E 66	13060	9890	7900	-2860	4180	310	C0
ATOM 13765 O ASN E 66	-7.612	6.757	-8.251	1.00	80.61		O0
ANISOU13765 O ASN E 66	13350	9640	7640	-2850	4010	410	O0
ATOM 13766 CB ASN E 66	-6.585	4.635	-10.202	1.00	86.25		C0
ANISOU13766 CB ASN E 66	13940	10600	8240	-2900	4530	230	C0
ATOM 13767 CG ASN E 66	-5.197	5.106	-10.580	1.00	90.56		C0
ANISOU13767 CG ASN E 66	14420	11210	8780	-3190	4860	210	C0
ATOM 13768 OD1 ASN E 66	-4.569	5.860	-9.839	1.00	91.49		O0
ANISOU13768 OD1 ASN E 66	14390	11340	9030	-3320	4870	240	O0

ATOM 13769 ND2 ASN E 66	-4.714	4.668	-11.734	1.00	95.26		N0
ANISOU13769 ND2 ASN E 66	15120	11860	9220	-3290	5140	170	N0
ATOM 13770 H ASN E 66	-8.725	3.983	-9.061	1.00	79.60		H0
ANISOU13770 H ASN E 66	13050	9690	7500	-2440	3980	250	H0
ATOM 13771 HA ASN E 66	-6.105	3.965	-8.319	1.00	82.11		H0
ANISOU13771 HA ASN E 66	12790	10240	8160	-2730	4430	150	H0
ATOM 13772 HB2 ASN E 66	-6.738	3.751	-10.595	1.00	86.00		H0
ANISOU13772 HB2 ASN E 66	13860	10630	8190	-2800	4590	170	H0
ATOM 13773 HB3 ASN E 66	-7.244	5.251	-10.582	1.00	86.49		H0
ANISOU13773 HB3 ASN E 66	14270	10500	8090	-2910	4410	310	H0
ATOM 13774 N SER E 67	-5.761	6.078	-7.090	1.00	80.74		N0
ANISOU13774 N SER E 67	12680	9930	8070	-2960	4260	270	N0
ATOM 13775 CA SER E 67	-5.599	7.260	-6.203	1.00	80.48		C0
ANISOU13775 CA SER E 67	12670	9810	8100	-3080	4140	340	C0
ATOM 13776 C SER E 67	-4.241	7.929	-6.444	1.00	83.39		C0
ANISOU13776 C SER E 67	12980	10230	8480	-3410	4400	330	C0
ATOM 13777 O SER E 67	-3.616	8.372	-5.459	1.00	83.03		O0
ANISOU13777 O SER E 67	12700	10240	8610	-3510	4370	320	O0
ATOM 13778 CB SER E 67	-5.767	6.863	-4.759	1.00	78.00		C0
ANISOU13778 CB SER E 67	12010	9580	8040	-2890	3940	290	C0
ATOM 13779 OG SER E 67	-4.667	6.083	-4.315	1.00	78.08		O0
ANISOU13779 OG SER E 67	11590	9800	8280	-2920	4100	200	O0
ATOM 13780 H SER E 67	-5.098	5.465	-6.963	1.00	81.07		H0
ANISOU13780 H SER E 67	12460	10110	8230	-2960	4390	200	H0
ATOM 13781 HA SER E 67	-6.309	7.915	-6.432	1.00	80.53		H0
ANISOU13781 HA SER E 67	12970	9670	7960	-3060	4010	410	H0
ATOM 13782 HB2 SER E 67	-5.841	7.673	-4.204	1.00	77.89		H0
ANISOU13782 HB2 SER E 67	12060	9490	8040	-2950	3830	340	H0
ATOM 13783 HB3 SER E 67	-6.598	6.346	-4.657	1.00	76.26		H0
ANISOU13783 HB3 SER E 67	11810	9350	7820	-2690	3790	290	H0
ATOM 13784 N SER E 68	-3.805	8.007	-7.706	1.00	86.08		N0
ANISOU13784 N SER E 68	13520	10560	8620	-3590	4650	340	N0
ATOM 13785 CA SER E 68	-2.553	8.693	-8.119	1.00	89.33		C0
ANISOU13785 CA SER E 68	13920	11020	9000	-3950	4940	350	C0
ATOM 13786 C SER E 68	-2.735	10.209	-7.963	1.00	90.16		C0
ANISOU13786 C SER E 68	14380	10900	8980	-4150	4830	460	C0
ATOM 13787 O SER E 68	-1.786	10.870	-7.495	1.00	91.53		O0
ANISOU13787 O SER E 68	14410	11110	9250	-4400	4930	450	O0
ATOM 13788 CB SER E 68	-2.138	8.307	-9.525	1.00	92.02		C0
ANISOU13788 CB SER E 68	14410	11410	9150	-4070	5240	320	C0
ATOM 13789 OG SER E 68	-3.226	8.396	-10.436	1.00	91.91		O0
ANISOU13789 OG SER E 68	14850	11220	8860	-3970	5140	400	O0
ATOM 13790 H SER E 68	-4.253	7.648	-8.414	1.00	86.04		H0
ANISOU13790 H SER E 68	13680	10530	8480	-3520	4670	350	H0
ATOM 13791 HA SER E 68	-1.832	8.407	-7.495	1.00	89.33		H0
ANISOU13791 HA SER E 68	13580	11160	9200	-3970	5000	280	H0
ATOM 13792 HB2 SER E 68	-1.413	8.901	-9.825	1.00	94.25		H0
ANISOU13792 HB2 SER E 68	14740	11690	9380	-4320	5420	340	H0
ATOM 13793 HB3 SER E 68	-1.793	7.385	-9.519	1.00	91.66		H0
ANISOU13793 HB3 SER E 68	14090	11510	9220	-3970	5350	230	H0
ATOM 13794 N HIS E 69	-3.919	10.722	-8.326	1.00	89.13		N0
ANISOU13794 N HIS E 69	14680	10540	8640	-4030	4620	560	N0
ATOM 13795 CA HIS E 69	-4.307	12.158	-8.246	1.00	89.84		C0
ANISOU13795 CA HIS E 69	15180	10370	8580	-4160	4480	680	C0

ATOM 13796 C HIS E 69	-5.390	12.382	-7.179	1.00	86.77		C0
ANISOU13796 C HIS E 69	14800	9880	8290	-3880	4120	710	C0
ATOM 13797 O HIS E 69	-5.569	13.547	-6.772	1.00	87.86		O0
ANISOU13797 O HIS E 69	15190	9820	8380	-3970	3990	780	O0
ATOM 13798 CB HIS E 69	-4.763	12.653	-9.627	1.00	92.14		C0
ANISOU13798 CB HIS E 69	16000	10480	8530	-4240	4540	790	C0
ATOM 13799 CG HIS E 69	-3.654	12.770	-10.621	1.00	95.40		C0
ANISOU13799 CG HIS E 69	16470	10960	8810	-4580	4900	780	C0
ATOM 13800 ND1 HIS E 69	-3.422	11.808	-11.589	1.00	96.17		N0
ANISOU13800 ND1 HIS E 69	16510	11210	8820	-4560	5120	720	N0
ATOM 13801 CD2 HIS E 69	-2.709	13.719	-10.797	1.00	98.44		C0
ANISOU13801 CD2 HIS E 69	16970	11290	9140	-4950	5100	820	C0
ATOM 13802 CE1 HIS E 69	-2.385	12.163	-12.321	1.00	99.39		C0
ANISOU13802 CE1 HIS E 69	16990	11650	9120	-4900	5450	720	C0
ATOM 13803 NE2 HIS E 69	-1.931	13.334	-11.858	1.00	100.91		N0
ANISOU13803 NE2 HIS E 69	17280	11730	9330	-5150	5440	790	N0
ATOM 13804 H HIS E 69	-4.580	10.211	-8.689	1.00	88.11		H0
ANISOU13804 H HIS E 69	14630	10400	8440	-3850	4550	560	H0
ATOM 13805 HA HIS E 69	-3.510	12.673	-7.982	1.00	91.35		H0
ANISOU13805 HA HIS E 69	15290	10580	8830	-4380	4590	680	H0
ATOM 13806 HB2 HIS E 69	-5.441	12.034	-9.979	1.00	90.89		H0
ANISOU13806 HB2 HIS E 69	15880	10340	8310	-4040	4460	780	H0
ATOM 13807 HB3 HIS E 69	-5.189	13.533	-9.523	1.00	92.50		H0
ANISOU13807 HB3 HIS E 69	16330	10340	8480	-4260	4400	870	H0
ATOM 13808 HD2 HIS E 69	-2.605	14.503	-10.292	1.00	98.89		H0
ANISOU13808 HD2 HIS E 69	17100	11240	9230	-5050	5030	860	H0
ATOM 13809 HE1 HIS E 69	-2.029	11.678	-13.045	1.00	100.62		H0
ANISOU13809 HE1 HIS E 69	17130	11900	9200	-4960	5650	680	H0
ATOM 13810 N SER E 70	-6.074	11.318	-6.739	1.00	83.32		N0
ANISOU13810 N SER E 70	14120	9560	7980	-3570	3970	640	N0
ATOM 13811 CA SER E 70	-7.261	11.368	-5.843	1.00	80.15		C0
ANISOU13811 CA SER E 70	13730	9080	7640	-3270	3630	660	C0
ATOM 13812 C SER E 70	-6.847	11.196	-4.384	1.00	77.74		C0
ANISOU13812 C SER E 70	13020	8890	7620	-3230	3550	590	C0
ATOM 13813 O SER E 70	-5.724	10.782	-4.096	1.00	77.71		O0
ANISOU13813 O SER E 70	12680	9060	7780	-3380	3730	510	O0
ATOM 13814 CB SER E 70	-8.275	10.316	-6.234	1.00	78.42		C0
ANISOU13814 CB SER E 70	13500	8920	7380	-2980	3520	640	C0
ATOM 13815 OG SER E 70	-8.955	10.672	-7.426	1.00	79.78		O0
ANISOU13815 OG SER E 70	14100	8940	7270	-2980	3500	730	O0
ATOM 13816 H SER E 70	-5.848	10.464	-6.953	1.00	82.93		H0
ANISOU13816 H SER E 70	13880	9650	7980	-3510	4070	580	H0
ATOM 13817 HA SER E 70	-7.683	12.262	-5.946	1.00	80.88		H0
ANISOU13817 HA SER E 70	14130	8990	7610	-3300	3530	740	H0
ATOM 13818 HB2 SER E 70	-7.819	9.456	-6.364	1.00	78.13		H0
ANISOU13818 HB2 SER E 70	13230	9030	7420	-2980	3650	570	H0
ATOM 13819 HB3 SER E 70	-8.927	10.206	-5.507	1.00	76.57		H0
ANISOU13819 HB3 SER E 70	13180	8680	7230	-2800	3330	630	H0
ATOM 13820 N PRO E 71	-7.744	11.519	-3.420	1.00	75.61		N0
ANISOU13820 N PRO E 71	12780	8530	7420	-3030	3280	600	N0
ATOM 13821 CA PRO E 71	-7.587	11.086	-2.030	1.00	72.97		C0
ANISOU13821 CA PRO E 71	12060	8330	7340	-2920	3170	530	C0
ATOM 13822 C PRO E 71	-7.526	9.554	-1.942	1.00	70.36		C0
ANISOU13822 C PRO E 71	11350	8230	7150	-2750	3220	440	C0

ATOM 13823 O PRO E 71	-8.346	8.915	-2.571	1.00	69.12		O0
ANISOU13823 O PRO E 71	11290	8070	6900	-2570	3170	450	O0
ATOM 13824 CB PRO E 71	-8.849	11.615	-1.329	1.00	71.78		C0
ANISOU13824 CB PRO E 71	12080	8030	7160	-2690	2870	570	C0
ATOM 13825 CG PRO E 71	-9.306	12.766	-2.200	1.00	73.82		C0
ANISOU13825 CG PRO E 71	12850	8040	7170	-2770	2850	680	C0
ATOM 13826 CD PRO E 71	-8.946	12.346	-3.609	1.00	75.62		C0
ANISOU13826 CD PRO E 71	13190	8300	7240	-2890	3060	700	C0
ATOM 13827 HA PRO E 71	-6.778	11.497	-1.634	1.00	74.03		H0
ANISOU13827 HA PRO E 71	12090	8490	7550	-3100	3240	510	H0
ATOM 13828 HB2 PRO E 71	-9.541	10.921	-1.277	1.00	70.08		H0
ANISOU13828 HB2 PRO E 71	11790	7870	6960	-2480	2780	550	H0
ATOM 13829 HB3 PRO E 71	-8.643	11.925	-0.422	1.00	71.33		H0
ANISOU13829 HB3 PRO E 71	11910	7980	7210	-2710	2800	550	H0
ATOM 13830 HG2 PRO E 71	-10.271	12.905	-2.116	1.00	73.05		H0
ANISOU13830 HG2 PRO E 71	12890	7850	7010	-2580	2670	710	H0
ATOM 13831 HG3 PRO E 71	-8.844	13.593	-1.955	1.00	75.19		H0
ANISOU13831 HG3 PRO E 71	13120	8110	7330	-2940	2870	690	H0
ATOM 13832 HD2 PRO E 71	-9.666	11.830	-4.017	1.00	74.64		H0
ANISOU13832 HD2 PRO E 71	13110	8200	7050	-2720	2990	700	H0
ATOM 13833 HD3 PRO E 71	-8.755	13.122	-4.167	1.00	77.46		H0
ANISOU13833 HD3 PRO E 71	13700	8400	7330	-3050	3120	760	H0
ATOM 13834 N ASPE 72	-6.569	9.012	-1.183	1.00	69.49		N0
ANISOU13834 N ASPE 72	10840	8310	7260	-2800	3300	370	N0
ATOM 13835 CA ASPE 72	-6.285	7.550	-1.139	1.00	68.36		C0
ANISOU13835 CA ASPE 72	10340	8370	7270	-2660	3380	290	C0
ATOM 13836 C ASPE 72	-7.082	6.882	-0.008	1.00	64.64		C0
ANISOU13836 C ASPE 72	9670	7950	6940	-2390	3150	260	C0
ATOM 13837 O ASPE 72	-7.079	5.637	0.036	1.00	63.58		O0
ANISOU13837 O ASPE 72	9300	7960	6910	-2230	3180	200	O0
ATOM 13838 CB ASPE 72	-4.781	7.255	-1.059	1.00	70.76		C0
ANISOU13838 CB ASPE 72	10300	8860	7720	-2860	3620	220	C0
ATOM 13839 CG ASPE 72	-3.987	8.132	-0.106	1.00	71.98		C0
ANISOU13839 CG ASPE 72	10320	9030	7990	-3050	3590	220	C0
ATOM 13840 OD1 ASPE 72	-4.038	7.870	1.111	1.00	70.80		O0
ANISOU13840 OD1 ASPE 72	9930	8960	8010	-2930	3420	190	O0
ATOM 13841 OD2 ASPE 72	-3.312	9.062	-0.597	1.00	74.89		O0
ANISOU13841 OD2 ASPE 72	10840	9340	8270	-3340	3730	250	O0
ATOM 13842 H ASPE 72	-6.041	9.510	-0.634	1.00	70.26		H0
ANISOU13842 H ASPE 72	10860	8410	7430	-2930	3300	360	H0
ATOM 13843 HA ASPE 72	-6.602	7.166	-1.989	1.00	68.49		H0
ANISOU13843 HA ASPE 72	10480	8370	7170	-2620	3450	290	H0
ATOM 13844 HB2 ASPE 72	-4.657	6.324	-0.783	1.00	69.72		H0
ANISOU13844 HB2 ASPE 72	9920	8860	7710	-2720	3630	170	H0
ATOM 13845 HB3 ASPE 72	-4.396	7.358	-1.953	1.00	72.30		H0
ANISOU13845 HB3 ASPE 72	10610	9050	7810	-2990	3790	230	H0
ATOM 13846 N GLNE 73	-7.758	7.665	0.843	1.00	62.53		N0
ANISOU13846 N GLNE 73	9520	7570	6670	-2330	2930	300	N0
ATOM 13847 CA GLNE 73	-8.631	7.158	1.936	1.00	59.41		C0
ANISOU13847 CA GLNE 73	8980	7220	6380	-2070	2700	280	C0
ATOM 13848 C GLNE 73	-9.933	7.962	1.981	1.00	57.74		C0
ANISOU13848 C GLNE 73	9090	6820	6020	-1950	2500	340	C0
ATOM 13849 O GLNE 73	-9.901	9.164	1.668	1.00	59.10		O0
ANISOU13849 O GLNE 73	9550	6830	6070	-2080	2500	390	O0

ATOM 13850 CB GLN E 73	-7.929	7.255	3.290	1.00	59.40		C0
ANISOU13850 CB GLN E 73	8690	7310	6570	-2120	2640	240	C0
ATOM 13851 CG GLN E 73	-6.629	6.467	3.366	1.00	60.51		C0
ANISOU13851 CG GLN E 73	8460	7650	6880	-2220	2820	180	C0
ATOM 13852 CD GLN E 73	-6.146	6.297	4.785	1.00	59.83		C0
ANISOU13852 CD GLN E 73	8060	7690	6990	-2190	2710	140	C0
ATOM 13853 OE1 GLN E 73	-6.933	6.187	5.721	1.00	57.87		O0
ANISOU13853 OE1 GLN E 73	7800	7420	6770	-2020	2510	140	O0
ATOM 13854 NE2 GLN E 73	-4.835	6.271	4.954	1.00	61.87		N0
ANISOU13854 NE2 GLN E 73	8060	8080	7370	-2370	2840	100	N0
ATOM 13855 H GLN E 73	-7.716	8.573	0.809	1.00	63.64		H0
ANISOU13855 H GLN E 73	9840	7600	6730	-2440	2910	330	H0
ATOM 13856 HA GLN E 73	-8.846	6.215	1.755	1.00	58.48		H0
ANISOU13856 HA GLN E 73	8740	7180	6300	-1950	2720	250	H0
ATOM 13857 HB2 GLN E 73	-7.742	8.199	3.476	1.00	60.35		H0
ANISOU13857 HB2 GLN E 73	8940	7340	6650	-2250	2620	260	H0
ATOM 13858 HB3 GLN E 73	-8.543	6.930	3.980	1.00	57.82		H0
ANISOU13858 HB3 GLN E 73	8410	7130	6430	-1960	2500	230	H0
ATOM 13859 HG2 GLN E 73	-6.764	5.582	2.964	1.00	59.88		H0
ANISOU13859 HG2 GLN E 73	8310	7640	6810	-2110	2870	160	H0
ATOM 13860 HG3 GLN E 73	-5.939	6.932	2.845	1.00	62.20		H0
ANISOU13860 HG3 GLN E 73	8730	7860	7050	-2410	2960	180	H0
ATOM 13861 HE21 GLN E 73	-4.479	6.589	5.698	1.00	62.00		H0
ANISOU13861 HE21 GLN E 73	7970	8130	7450	-2430	2780	90	H0
ATOM 13862 HE22 GLN E 73	-4.314	5.935	4.324	1.00	62.74		H0
ANISOU13862 HE22 GLN E 73	8100	8250	7480	-2430	3000	90	H0
ATOM 13863 N VAL E 74	-11.034	7.311	2.364	1.00	54.87		N0
ANISOU13863 N VAL E 74	8680	6490	5680	-1700	2330	330	N0
ATOM 13864 CA VAL E 74	-12.352	7.962	2.623	1.00	53.43		C0
ANISOU13864 CA VAL E 74	8730	6180	5400	-1530	2110	370	C0
ATOM 13865 C VAL E 74	-13.018	7.257	3.804	1.00	51.11		C0
ANISOU13865 C VAL E 74	8190	5990	5240	-1320	1950	330	C0
ATOM 13866 O VAL E 74	-12.711	6.074	4.042	1.00	49.84		O0
ANISOU13866 O VAL E 74	7750	5980	5200	-1270	2010	280	O0
ATOM 13867 CB VAL E 74	-13.264	7.946	1.382	1.00	53.77		C0
ANISOU13867 CB VAL E 74	9050	6140	5250	-1440	2090	420	C0
ATOM 13868 CG1 VAL E 74	-12.701	8.814	0.262	1.00	56.08		C0
ANISOU13868 CG1 VAL E 74	9650	6290	5370	-1650	2230	480	C0
ATOM 13869 CG2 VAL E 74	-13.532	6.532	0.889	1.00	52.54		C0
ANISOU13869 CG2 VAL E 74	8730	6120	5110	-1340	2130	380	C0
ATOM 13870 H VAL E 74	-11.047	6.408	2.490	1.00	53.97		H0
ANISOU13870 H VAL E 74	8380	6480	5650	-1610	2340	290	H0
ATOM 13871 HA VAL E 74	-12.191	8.887	2.873	1.00	54.46		H0
ANISOU13871 HA VAL E 74	8990	6200	5500	-1610	2090	390	H0
ATOM 13872 HB VAL E 74	-14.131	8.336	1.653	1.00	53.27		H0
ANISOU13872 HB VAL E 74	9100	6000	5140	-1310	1930	450	H0
ATOM 13873 HG11 VAL E 74	-12.465	9.689	0.615	1.00	56.89		H0
ANISOU13873 HG11 VAL E 74	9850	6300	5470	-1730	2200	500	H0
ATOM 13874 HG12 VAL E 74	-13.370	8.917	-0.437	1.00	56.45		H0
ANISOU13874 HG12 VAL E 74	9900	6270	5280	-1580	2170	520	H0
ATOM 13875 HG13 VAL E 74	-11.908	8.390	-0.110	1.00	56.70		H0
ANISOU13875 HG13 VAL E 74	9620	6450	5480	-1770	2390	450	H0
ATOM 13876 HG21 VAL E 74	-12.688	6.066	0.760	1.00	52.95		H0
ANISOU13876 HG21 VAL E 74	8640	6250	5230	-1440	2280	350	H0

ATOM 13877 HG22 VAL E 74	-14.013	6.569	0.044	1.00	53.13		H0
ANISOU13877 HG22 VAL E 74	8990	6150	5050	-1310	2120	410	H0
ATOM 13878 HG23 VAL E 74	-14.068	6.053	1.545	1.00	51.17		H0
ANISOU13878 HG23 VAL E 74	8410	6010	5020	-1200	2020	360	H0
ATOM 13879 N SER E 75	-13.881	7.983	4.513	1.00	50.42		N0
ANISOU13879 N SER E 75	8220	5810	5130	-1200	1770	350	N0
ATOM 13880 CA SER E 75	-14.777	7.461	5.571	1.00	48.48		C0
ANISOU13880 CA SER E 75	7800	5650	4970	-980	1610	310	C0
ATOM 13881 C SER E 75	-16.106	7.081	4.918	1.00	48.04		C0
ANISOU13881 C SER E 75	7860	5590	4800	-790	1510	340	C0
ATOM 13882 O SER E 75	-16.642	7.894	4.142	1.00	48.99		O0
ANISOU13882 O SER E 75	8270	5570	4770	-770	1470	390	O0
ATOM 13883 CB SER E 75	-14.951	8.461	6.681	1.00	48.54		C0
ANISOU13883 CB SER E 75	7870	5570	5000	-960	1490	310	C0
ATOM 13884 OG SER E 75	-13.715	8.694	7.345	1.00	48.88		O0
ANISOU13884 OG SER E 75	7770	5650	5150	-1150	1570	280	O0
ATOM 13885 H SER E 75	-13.986	8.880	4.390	1.00	51.40		H0
ANISOU13885 H SER E 75	8550	5810	5170	-1240	1740	380	H0
ATOM 13886 HA SER E 75	-14.364	6.641	5.947	1.00	47.76		H0
ANISOU13886 HA SER E 75	7480	5680	4990	-990	1660	280	H0
ATOM 13887 HB2 SER E 75	-15.290	9.307	6.311	1.00	49.43		H0
ANISOU13887 HB2 SER E 75	8220	5550	5010	-960	1460	340	H0
ATOM 13888 HB3 SER E 75	-15.611	8.122	7.327	1.00	47.34		H0
ANISOU13888 HB3 SER E 75	7620	5480	4890	-820	1390	280	H0
ATOM 13889 N VAL E 76	-16.585	5.868	5.194	1.00	46.93		N0
ANISOU13889 N VAL E 76	7500	5590	4740	-670	1480	300	N0
ATOM 13890 CA VAL E 76	-17.816	5.285	4.588	1.00	46.76		C0
ANISOU13890 CA VAL E 76	7530	5610	4630	-510	1390	310	C0
ATOM 13891 C VAL E 76	-18.672	4.706	5.709	1.00	45.44		C0
ANISOU13891 C VAL E 76	7150	5550	4560	-340	1250	270	C0
ATOM 13892 O VAL E 76	-18.148	4.044	6.601	1.00	44.12		O0
ANISOU13892 O VAL E 76	6750	5480	4540	-360	1290	240	O0
ATOM 13893 CB VAL E 76	-17.462	4.214	3.540	1.00	46.56		C0
ANISOU13893 CB VAL E 76	7460	5650	4580	-570	1520	290	C0
ATOM 13894 CG1 VAL E 76	-18.702	3.657	2.861	1.00	46.20		C0
ANISOU13894 CG1 VAL E 76	7490	5640	4430	-440	1410	300	C0
ATOM 13895 CG2 VAL E 76	-16.482	4.748	2.506	1.00	48.70		C0
ANISOU13895 CG2 VAL E 76	7910	5830	4760	-760	1680	320	C0
ATOM 13896 H VAL E 76	-16.176	5.306	5.784	1.00	46.22		H0
ANISOU13896 H VAL E 76	7210	5590	4760	-680	1510	270	H0
ATOM 13897 HA VAL E 76	-18.310	5.997	4.149	1.00	47.47		H0
ANISOU13897 HA VAL E 76	7820	5610	4610	-470	1320	350	H0
ATOM 13898 HB VAL E 76	-17.020	3.468	4.017	1.00	45.95		H0
ANISOU13898 HB VAL E 76	7180	5660	4620	-580	1570	260	H0
ATOM 13899 HG11 VAL E 76	-19.221	3.139	3.500	1.00	45.17		H0
ANISOU13899 HG11 VAL E 76	7210	5590	4370	-340	1340	270	H0
ATOM 13900 HG12 VAL E 76	-18.438	3.083	2.121	1.00	46.56		H0
ANISOU13900 HG12 VAL E 76	7550	5700	4440	-490	1500	290	H0
ATOM 13901 HG13 VAL E 76	-19.244	4.391	2.523	1.00	46.93		H0
ANISOU13901 HG13 VAL E 76	7760	5650	4420	-390	1330	340	H0
ATOM 13902 HG21 VAL E 76	-16.820	5.584	2.140	1.00	49.44		H0
ANISOU13902 HG21 VAL E 76	8220	5820	4740	-760	1630	360	H0
ATOM 13903 HG22 VAL E 76	-16.378	4.099	1.789	1.00	48.78		H0
ANISOU13903 HG22 VAL E 76	7920	5880	4730	-780	1760	310	H0

ATOM 13904 HG23 VAL E 76	-15.619	4.905	2.927	1.00	48.79		H0
ANISOU13904 HG23 VAL E 76	7830	5850	4860	-860	1760	310	H0
ATOM 13905 N PRO E 77	-20.007	4.921	5.692	1.00	46.46		N0
ANISOU13905 N PRO E 77	7360	5680	4610	-170	1100	290	N0
ATOM 13906 CA PRO E 77	-20.901	4.256	6.643	1.00	45.80		C0
ANISOU13906 CA PRO E 77	7070	5720	4610	-20	1000	250	C0
ATOM 13907 C PRO E 77	-20.814	2.734	6.458	1.00	45.14		C0
ANISOU13907 C PRO E 77	6800	5760	4590	-50	1060	220	C0
ATOM 13908 O PRO E 77	-20.867	2.306	5.333	1.00	44.84		O0
ANISOU13908 O PRO E 77	6850	5720	4470	-90	1110	230	O0
ATOM 13909 CB PRO E 77	-22.312	4.763	6.291	1.00	46.30		C0
ANISOU13909 CB PRO E 77	7270	5770	4560	150	840	270	C0
ATOM 13910 CG PRO E 77	-22.095	5.967	5.388	1.00	47.89		C0
ANISOU13910 CG PRO E 77	7780	5790	4620	110	840	330	C0
ATOM 13911 CD PRO E 77	-20.731	5.791	4.750	1.00	47.78		C0
ANISOU13911 CD PRO E 77	7810	5730	4610	-110	1020	340	C0
ATOM 13912 HA PRO E 77	-20.665	4.513	7.569	1.00	45.37		H0
ANISOU13912 HA PRO E 77	6940	5670	4630	-20	980	230	H0
ATOM 13913 HB2 PRO E 77	-22.826	4.070	5.825	1.00	46.08		H0
ANISOU13913 HB2 PRO E 77	7200	5810	4500	180	820	270	H0
ATOM 13914 HB3 PRO E 77	-22.799	5.024	7.101	1.00	46.00		H0
ANISOU13914 HB3 PRO E 77	7170	5750	4550	240	760	260	H0
ATOM 13915 HG2 PRO E 77	-22.791	6.009	4.701	1.00	48.39		H0
ANISOU13915 HG2 PRO E 77	7940	5850	4590	180	770	350	H0
ATOM 13916 HG3 PRO E 77	-22.124	6.795	5.910	1.00	48.18		H0
ANISOU13916 HG3 PRO E 77	7890	5750	4660	150	800	330	H0
ATOM 13917 HD2 PRO E 77	-20.806	5.371	3.874	1.00	48.22		H0
ANISOU13917 HD2 PRO E 77	7920	5800	4600	-130	1050	350	H0
ATOM 13918 HD3 PRO E 77	-20.281	6.651	4.652	1.00	48.82		H0
ANISOU13918 HD3 PRO E 77	8090	5750	4710	-170	1050	360	H0
ATOM 13919 N ILE E 78	-20.663	1.966	7.541	1.00	44.96		N0
ANISOU13919 N ILE E 78	6540	5840	4700	-30	1070	190	N0
ATOM 13920 CA ILE E 78	-20.510	0.480	7.467	1.00	45.71		C0
ANISOU13920 CA ILE E 78	6470	6030	4870	-50	1130	160	C0
ATOM 13921 C ILE E 78	-21.738	-0.137	6.789	1.00	46.20		C0
ANISOU13921 C ILE E 78	6560	6150	4840	20	1050	150	C0
ATOM 13922 O ILE E 78	-21.584	-1.202	6.175	1.00	45.15		O0
ANISOU13922 O ILE E 78	6400	6050	4710	-20	1130	130	O0
ATOM 13923 CB ILE E 78	-20.262	-0.162	8.846	1.00	45.55		C0
ANISOU13923 CB ILE E 78	6220	6100	4990	-30	1120	140	C0
ATOM 13924 CG1 ILE E 78	-21.154	0.436	9.937	1.00	45.44		C0
ANISOU13924 CG1 ILE E 78	6180	6120	4970	80	990	130	C0
ATOM 13925 CG2 ILE E 78	-18.787	-0.096	9.209	1.00	45.97		C0
ANISOU13925 CG2 ILE E 78	6190	6130	5140	-140	1230	130	C0
ATOM 13926 CD1 ILE E 78	-21.572	-0.563	10.980	1.00	45.08		C0
ANISOU13926 CD1 ILE E 78	5940	6180	5010	130	950	110	C0
ATOM 13927 H ILE E 78	-20.623	2.306	8.384	1.00	44.82		H0
ANISOU13927 H ILE E 78	6470	5830	4730	-10	1030	180	H0
ATOM 13928 HA ILE E 78	-19.735	0.290	6.908	1.00	46.11		H0
ANISOU13928 HA ILE E 78	6540	6060	4920	-140	1230	160	H0
ATOM 13929 HB ILE E 78	-20.501	-1.119	8.768	1.00	45.06		H0
ANISOU13929 HB ILE E 78	6080	6090	4950	-10	1130	120	H0
ATOM 13930 HG12 ILE E 78	-20.670	1.167	10.377	1.00	45.75		H0
ANISOU13930 HG12 ILE E 78	6250	6110	5030	50	990	140	H0

ATOM 13931 HG13 ILE E 78	-21.959	0.812	9.521	1.00	45.82		H0
ANISOU13931 HG13 ILE E 78	6320	6150	4940	140	920	140	H0
ATOM 13932 HG21 ILE E 78	-18.256	-0.480	8.489	1.00	46.32		H0
ANISOU13932 HG21 ILE E 78	6250	6160	5190	-200	1320	130	H0
ATOM 13933 HG22 ILE E 78	-18.632	-0.599	10.026	1.00	45.36		H0
ANISOU13933 HG22 ILE E 78	5980	6110	5150	-120	1220	120	H0
ATOM 13934 HG23 ILE E 78	-18.524	0.831	9.344	1.00	46.39		H0
ANISOU13934 HG23 ILE E 78	6320	6130	5170	-170	1220	140	H0
ATOM 13935 HD11 ILE E 78	-22.187	-1.206	10.587	1.00	44.75		H0
ANISOU13935 HD11 ILE E 78	5880	6180	4940	160	940	110	H0
ATOM 13936 HD12 ILE E 78	-22.013	-0.102	11.713	1.00	44.79		H0
ANISOU13936 HD12 ILE E 78	5880	6170	4970	190	890	110	H0
ATOM 13937 HD13 ILE E 78	-20.788	-1.030	11.317	1.00	44.68		H0
ANISOU13937 HD13 ILE E 78	5800	6140	5030	80	1010	110	H0
ATOM 13938 N SER E 79	-22.907	0.500	6.902	1.00	48.41		N0
ANISOU13938 N SER E 79	6900	6440	5050	140	910	160	N0
ATOM 13939 CA SER E 79	-24.182	0.048	6.282	1.00	49.87		C0
ANISOU13939 CA SER E 79	7100	6700	5140	220	810	150	C0
ATOM 13940 C SER E 79	-23.994	-0.153	4.773	1.00	50.53		C0
ANISOU13940 C SER E 79	7360	6730	5110	140	860	170	C0
ATOM 13941 O SER E 79	-24.727	-0.979	4.199	1.00	52.64		O0
ANISOU13941 O SER E 79	7600	7070	5320	140	820	140	O0
ATOM 13942 CB SER E 79	-25.318	1.006	6.574	1.00	50.97		C0
ANISOU13942 CB SER E 79	7290	6860	5220	370	660	170	C0
ATOM 13943 OG SER E 79	-25.264	2.130	5.709	1.00	52.91		O0
ANISOU13943 OG SER E 79	7780	6980	5350	380	620	210	O0
ATOM 13944 H SER E 79	-23.012	1.262	7.389	1.00	48.30		H0
ANISOU13944 H SER E 79	6920	6400	5040	180	870	170	H0
ATOM 13945 HA SER E 79	-24.413	-0.834	6.680	1.00	49.08		H0
ANISOU13945 HA SER E 79	6860	6680	5100	210	810	130	H0
ATOM 13946 HB2 SER E 79	-26.176	0.541	6.453	1.00	51.02		H0
ANISOU13946 HB2 SER E 79	7230	6950	5210	420	590	160	H0
ATOM 13947 HB3 SER E 79	-25.262	1.308	7.509	1.00	50.55		H0
ANISOU13947 HB3 SER E 79	7160	6810	5230	400	650	160	H0
ATOM 13948 N SER E 80	-23.055	0.570	4.154	1.00	50.72		N0
ANISOU13948 N SER E 80	7550	6640	5080	60	950	200	N0
ATOM 13949 CA SER E 80	-22.751	0.501	2.699	1.00	50.88		C0
ANISOU13949 CA SER E 80	7770	6600	4970	-30	1020	210	C0
ATOM 13950 C SER E 80	-21.769	-0.636	2.383	1.00	49.67		C0
ANISOU13950 C SER E 80	7530	6460	4880	-150	1200	170	C0
ATOM 13951 O SER E 80	-21.646	-0.978	1.185	1.00	51.22		O0
ANISOU13951 O SER E 80	7870	6630	4960	-220	1270	160	O0
ATOM 13952 CB SER E 80	-22.229	1.821	2.196	1.00	52.35		C0
ANISOU13952 CB SER E 80	8190	6640	5060	-80	1050	260	C0
ATOM 13953 OG SER E 80	-23.260	2.799	2.201	1.00	53.46		O0
ANISOU13953 OG SER E 80	8450	6750	5110	60	880	310	O0
ATOM 13954 H SER E 80	-22.538	1.184	4.582	1.00	50.62		H0
ANISOU13954 H SER E 80	7550	6570	5110	40	980	210	H0
ATOM 13955 HA SER E 80	-23.602	0.306	2.223	1.00	51.29		H0
ANISOU13955 HA SER E 80	7860	6690	4940	20	930	210	H0
ATOM 13956 HB2 SER E 80	-21.486	2.121	2.767	1.00	52.12		H0
ANISOU13956 HB2 SER E 80	8110	6580	5110	-130	1120	260	H0
ATOM 13957 HB3 SER E 80	-21.886	1.711	1.280	1.00	53.18		H0
ANISOU13957 HB3 SER E 80	8410	6710	5080	-160	1120	270	H0

ATOM 13958 N LEU E 81	-21.093	-1.186	3.398	1.00	47.15		N0
ANISOU13958 N LEU E 81	7000	6180	4730	-170	1270	140	N0
ATOM 13959 CA LEU E 81	-19.999	-2.185	3.249	1.00	46.27		C0
ANISOU13959 CA LEU E 81	6790	6080	4710	-250	1450	100	C0
ATOM 13960 C LEU E 81	-20.463	-3.557	3.741	1.00	45.22		C0
ANISOU13960 C LEU E 81	6490	6030	4660	-210	1430	60	C0
ATOM 13961 O LEU E 81	-21.298	-3.606	4.667	1.00	43.91		O0
ANISOU13961 O LEU E 81	6220	5920	4540	-120	1300	60	O0
ATOM 13962 CB LEU E 81	-18.779	-1.741	4.061	1.00	45.46		C0
ANISOU13962 CB LEU E 81	6580	5960	4740	-300	1540	110	C0
ATOM 13963 CG LEU E 81	-18.127	-0.429	3.633	1.00	46.37		C0
ANISOU13963 CG LEU E 81	6850	5990	4780	-390	1590	140	C0
ATOM 13964 CD1 LEU E 81	-16.996	-0.065	4.578	1.00	46.04		C0
ANISOU13964 CD1 LEU E 81	6660	5950	4880	-460	1660	140	C0
ATOM 13965 CD2 LEU E 81	-17.624	-0.507	2.202	1.00	47.54		C0
ANISOU13965 CD2 LEU E 81	7170	6080	4810	-500	1740	140	C0
ATOM 13966 H LEU E 81	-21.264	-0.977	4.264	1.00	46.69		H0
ANISOU13966 H LEU E 81	6850	6150	4740	-120	1220	140	H0
ATOM 13967 HA LEU E 81	-19.758	-2.252	2.297	1.00	47.13		H0
ANISOU13967 HA LEU E 81	7020	6150	4730	-310	1520	90	H0
ATOM 13968 HB2 LEU E 81	-19.049	-1.658	4.997	1.00	44.81		H0
ANISOU13968 HB2 LEU E 81	6390	5910	4720	-250	1460	110	H0
ATOM 13969 HB3 LEU E 81	-18.105	-2.448	4.013	1.00	45.62		H0
ANISOU13969 HB3 LEU E 81	6510	6000	4830	-340	1650	80	H0
ATOM 13970 HG LEU E 81	-18.810	0.285	3.681	1.00	46.38		H0
ANISOU13970 HG LEU E 81	6950	5950	4710	-350	1480	170	H0
ATOM 13971 HD11 LEU E 81	-17.343	0.018	5.483	1.00	45.33		H0
ANISOU13971 HD11 LEU E 81	6480	5890	4850	-390	1560	150	H0
ATOM 13972 HD12 LEU E 81	-16.602	0.781	4.303	1.00	46.93		H0
ANISOU13972 HD12 LEU E 81	6880	6000	4950	-530	1690	170	H0
ATOM 13973 HD13 LEU E 81	-16.316	-0.761	4.555	1.00	46.17		H0
ANISOU13973 HD13 LEU E 81	6560	6010	4980	-490	1760	120	H0
ATOM 13974 HD21 LEU E 81	-17.136	-1.339	2.074	1.00	47.59		H0
ANISOU13974 HD21 LEU E 81	7080	6130	4880	-520	1840	100	H0
ATOM 13975 HD22 LEU E 81	-17.034	0.246	2.024	1.00	48.38		H0
ANISOU13975 HD22 LEU E 81	7350	6140	4890	-580	1800	160	H0
ATOM 13976 HD23 LEU E 81	-18.379	-0.478	1.589	1.00	47.87		H0
ANISOU13976 HD23 LEU E 81	7340	6110	4740	-470	1670	150	H0
ATOM 13977 N TRPE 82	-19.918	-4.625	3.153	1.00	45.12		N0
ANISOU13977 N TRPE 82	6470	6010	4660	-260	1560	10	N0
ATOM 13978 CA TRPE 82	-19.878	-5.962	3.797	1.00	44.58		C0
ANISOU13978 CA TRPE 82	6240	5980	4720	-230	1580	-30	C0
ATOM 13979 C TRPE 82	-19.003	-5.850	5.051	1.00	43.78		C0
ANISOU13979 C TRPE 82	5950	5900	4790	-200	1610	-10	C0
ATOM 13980 O TRPE 82	-17.923	-5.245	4.967	1.00	44.23		O0
ANISOU13980 O TRPE 82	6000	5930	4880	-250	1710	0	O0
ATOM 13981 CB TRPE 82	-19.373	-7.054	2.844	1.00	45.06		C0
ANISOU13981 CB TRPE 82	6360	6000	4760	-280	1730	-80	C0
ATOM 13982 CG TRPE 82	-19.213	-8.387	3.510	1.00	44.25		C0
ANISOU13982 CG TRPE 82	6120	5910	4790	-240	1770	-120	C0
ATOM 13983 CD1 TRPE 82	-20.136	-9.391	3.576	1.00	44.10		C0
ANISOU13983 CD1 TRPE 82	6100	5910	4750	-230	1700	-140	C0
ATOM 13984 CD2 TRPE 82	-18.064	-8.854	4.240	1.00	44.00		C0
ANISOU13984 CD2 TRPE 82	5920	5870	4920	-200	1870	-120	C0

ATOM 13985 NE1 TRP E 82	-19.638	-10.452	4.282	1.00	43.66	N0	
ANISOU13985 NE1 TRP E 82	5930	5830	4830	-190	1760	-160	N0
ATOM 13986 CE2 TRP E 82	-18.368	-10.152	4.701	1.00	43.89	C0	
ANISOU13986 CE2 TRP E 82	5850	5850	4980	-160	1860	-140	C0
ATOM 13987 CE3 TRP E 82	-16.808	-8.312	4.533	1.00	44.40	C0	
ANISOU13987 CE3 TRP E 82	5870	5930	5070	-210	1970	-100	C0
ATOM 13988 CZ2 TRP E 82	-17.458	-10.911	5.434	1.00	44.21	C0	
ANISOU13988 CZ2 TRP E 82	5740	5880	5180	-100	1930	-140	C0
ATOM 13989 CZ3 TRP E 82	-15.911	-9.061	5.260	1.00	44.78	C0	
ANISOU13989 CZ3 TRP E 82	5750	5990	5280	-160	2040	-110	C0
ATOM 13990 CH2 TRP E 82	-16.234	-10.343	5.705	1.00	44.53	C0	
ANISOU13990 CH2 TRP E 82	5670	5940	5310	-90	2010	-130	C0
ATOM 13991 H TRP E 82	-19.538	-4.602	2.325	1.00	46.06	H0	
ANISOU13991 H TRP E 82	6690	6090	4720	-310	1640	0	H0
ATOM 13992 HA TRP E 82	-20.794	-6.194	4.068	1.00	44.05	H0	
ANISOU13992 HA TRP E 82	6150	5950	4630	-190	1470	-20	H0
ATOM 13993 HB2 TRP E 82	-20.007	-7.137	2.102	1.00	45.50	H0	
ANISOU13993 HB2 TRP E 82	6540	6050	4700	-300	1700	-100	H0
ATOM 13994 HB3 TRP E 82	-18.511	-6.771	2.476	1.00	45.68	H0	
ANISOU13994 HB3 TRP E 82	6460	6050	4840	-320	1850	-90	H0
ATOM 13995 HD1 TRP E 82	-20.997	-9.364	3.191	1.00	44.14	H0	
ANISOU13995 HD1 TRP E 82	6180	5930	4660	-240	1610	-150	H0
ATOM 13996 HE1 TRP E 82	-20.061	-11.201	4.437	1.00	43.75	H0	
ANISOU13996 HE1 TRP E 82	5930	5840	4850	-190	1730	-170	H0
ATOM 13997 HE3 TRP E 82	-16.580	-7.446	4.234	1.00	44.75	H0	
ANISOU13997 HE3 TRP E 82	5970	5970	5070	-260	1980	-90	H0
ATOM 13998 HZ2 TRP E 82	-17.677	-11.776	5.737	1.00	44.10	H0	
ANISOU13998 HZ2 TRP E 82	5710	5840	5200	-70	1920	-150	H0
ATOM 13999 HZ3 TRP E 82	-15.063	-8.700	5.466	1.00	45.06	H0	
ANISOU13999 HZ3 TRP E 82	5700	6040	5380	-170	2090	-100	H0
ATOM 14000 HH2 TRP E 82	-15.603	-10.830	6.205	1.00	44.73	H0	
ANISOU14000 HH2 TRP E 82	5590	5960	5450	-40	2050	-130	H0
ATOM 14001 N VAL E 83	-19.475	-6.396	6.168	1.00	43.15	N0	
ANISOU14001 N VAL E 83	5730	5870	4790	-140	1520	0	N0
ATOM 14002 CA VAL E 83	-18.758	-6.420	7.475	1.00	43.03	C0	
ANISOU14002 CA VAL E 83	5540	5890	4930	-110	1520	20	C0
ATOM 14003 C VAL E 83	-18.702	-7.877	7.924	1.00	42.41	C0	
ANISOU14003 C VAL E 83	5360	5820	4940	-70	1550	0	C0
ATOM 14004 O VAL E 83	-19.660	-8.613	7.718	1.00	42.02	O0	
ANISOU14004 O VAL E 83	5350	5780	4840	-70	1500	-20	O0
ATOM 14005 CB VAL E 83	-19.467	-5.506	8.497	1.00	42.98	C0	
ANISOU14005 CB VAL E 83	5490	5920	4910	-60	1380	50	C0
ATOM 14006 CG1 VAL E 83	-18.771	-5.495	9.844	1.00	43.30	C0	
ANISOU14006 CG1 VAL E 83	5370	6000	5080	-40	1360	70	C0
ATOM 14007 CG2 VAL E 83	-19.602	-4.086	7.969	1.00	43.49	C0	
ANISOU14007 CG2 VAL E 83	5700	5950	4870	-90	1340	70	C0
ATOM 14008 H VAL E 83	-20.291	-6.800	6.203	1.00	42.92	H0	
ANISOU14008 H VAL E 83	5710	5870	4730	-120	1460	-10	H0
ATOM 14009 HA VAL E 83	-17.853	-6.094	7.338	1.00	43.46	H0	
ANISOU14009 HA VAL E 83	5570	5920	5020	-140	1600	20	H0
ATOM 14010 HB VAL E 83	-20.378	-5.865	8.632	1.00	42.66	H0	
ANISOU14010 HB VAL E 83	5450	5920	4840	-30	1300	50	H0
ATOM 14011 HG11 VAL E 83	-18.823	-6.379	10.246	1.00	42.82	H0	
ANISOU14011 HG11 VAL E 83	5240	5960	5070	-20	1360	70	H0

ATOM 14012 HG12 VAL E 83	-19.205	-4.849	10.429	1.00	42.73	H0
ANISOU14012 HG12 VAL E 83	5300	5950	4990	-20	1280	90
ATOM 14013 HG13 VAL E 83	-17.838	-5.247	9.726	1.00	43.52	H0
ANISOU14013 HG13 VAL E 83	5380	6010	5150	-80	1430	70
ATOM 14014 HG21 VAL E 83	-18.731	-3.763	7.679	1.00	43.98	H0
ANISOU14014 HG21 VAL E 83	5780	5970	4950	-140	1430	70
ATOM 14015 HG22 VAL E 83	-19.943	-3.508	8.672	1.00	43.12	H0
ANISOU14015 HG22 VAL E 83	5630	5920	4830	-50	1260	90
ATOM 14016 HG23 VAL E 83	-20.217	-4.076	7.215	1.00	43.75	H0
ANISOU14016 HG23 VAL E 83	5840	5970	4820	-80	1320	70
ATOM 14017 N PRO E 84	-17.586	-8.361	8.512	1.00	43.03	N0
ANISOU14017 N PRO E 84	5300	5890	5150	-50	1620	10
ATOM 14018 CA PRO E 84	-17.526	-9.733	9.012	1.00	43.42	C0
ANISOU14018 CA PRO E 84	5270	5930	5290	0	1640	0
ATOM 14019 C PRO E 84	-18.577	-9.938	10.117	1.00	42.67	C0
ANISOU14019 C PRO E 84	5130	5880	5190	30	1500	30
ATOM 14020 O PRO E 84	-18.780	-9.027	10.912	1.00	42.63	O0
ANISOU14020 O PRO E 84	5080	5930	5180	40	1410	60
ATOM 14021 CB PRO E 84	-16.095	-9.876	9.559	1.00	44.09	C0
ANISOU14021 CB PRO E 84	5210	6020	5520	40	1710	10
ATOM 14022 CG PRO E 84	-15.319	-8.744	8.921	1.00	44.72	C0
ANISOU14022 CG PRO E 84	5300	6110	5580	-30	1790	0
ATOM 14023 CD PRO E 84	-16.327	-7.632	8.731	1.00	44.05	C0
ANISOU14023 CD PRO E 84	5340	6030	5360	-80	1690	20
ATOM 14024 HA PRO E 84	-17.671	-10.370	8.269	1.00	43.85	H0
ANISOU14024 HA PRO E 84	5410	5940	5310	-10	1700	-30
ATOM 14025 HB2 PRO E 84	-16.084	-9.795	10.534	1.00	43.65	H0
ANISOU14025 HB2 PRO E 84	5060	6010	5520	70	1640	50
ATOM 14026 HB3 PRO E 84	-15.711	-10.744	9.311	1.00	44.66	H0
ANISOU14026 HB3 PRO E 84	5270	6060	5640	70	1790	-10
ATOM 14027 HG2 PRO E 84	-14.588	-8.453	9.504	1.00	44.90	H0
ANISOU14027 HG2 PRO E 84	5210	6170	5680	-20	1790	20
ATOM 14028 HG3 PRO E 84	-14.944	-9.022	8.060	1.00	45.45	H0
ANISOU14028 HG3 PRO E 84	5440	6170	5660	-50	1900	-30
ATOM 14029 HD2 PRO E 84	-16.382	-7.066	9.523	1.00	43.48	H0
ANISOU14029 HD2 PRO E 84	5220	5990	5310	-70	1610	50
ATOM 14030 HD3 PRO E 84	-16.098	-7.082	7.960	1.00	44.44	H0
ANISOU14030 HD3 PRO E 84	5470	6060	5350	-130	1750	10
ATOM 14031 N ASPE 85	-19.231	-11.102	10.143	1.00	41.98	N0
ANISOU14031 N ASPE 85	5080	5770	5100	40	1480	20
ATOM 14032 CA ASPE 85	-20.337	-11.399	11.097	1.00	41.06	C0
ANISOU14032 CA ASPE 85	4930	5710	4960	40	1370	50
ATOM 14033 C ASPE 85	-19.735	-11.865	12.429	1.00	40.87	C0
ANISOU14033 C ASPE 85	4790	5700	5050	90	1350	100
ATOM 14034 O ASPE 85	-20.105	-12.961	12.896	1.00	41.65	O0
ANISOU14034 O ASPE 85	4890	5770	5170	90	1330	110
ATOM 14035 CB ASPE 85	-21.321	-12.417	10.509	1.00	41.09	C0
ANISOU14035 CB ASPE 85	5020	5690	4900	-10	1370	20
ATOM 14036 CG ASPE 85	-20.700	-13.761	10.168	1.00	41.81	C0
ANISOU14036 CG ASPE 85	5170	5670	5050	-10	1470	-10
ATOM 14037 OD1 ASPE 85	-19.480	-13.787	9.880	1.00	41.77	O0
ANISOU14037 OD1 ASPE 85	5140	5610	5120	40	1570	-20
ATOM 14038 OD2 ASPE 85	-21.433	-14.771	10.217	1.00	41.63	O0
ANISOU14038 OD2 ASPE 85	5200	5620	5000	-50	1450	-20

ATOM 14039 H ASPE 85	-19.034	-11.786	9.575	1.00	42.62		H0
ANISOU14039 H ASPE 85	5210	5800	5180	30	1550	-10	H0
ATOM 14040 HA ASPE 85	-20.831	-10.563	11.259	1.00	40.65		H0
ANISOU14040 HA ASPE 85	4870	5710	4860	30	1300	60	H0
ATOM 14041 HB2 ASPE 85	-22.047	-12.567	11.148	1.00	40.84		H0
ANISOU14041 HB2 ASPE 85	4960	5710	4850	-20	1300	30	H0
ATOM 14042 HB3 ASPE 85	-21.709	-12.044	9.691	1.00	41.31		H0
ANISOU14042 HB3 ASPE 85	5120	5730	4840	-40	1360	-10	H0
ATOM 14043 N LEUE 86	-18.853	-11.054	13.024	1.00	40.81		N0
ANISOU14043 N LEUE 86	4690	5720	5100	120	1340	120	N0
ATOM 14044 CA LEUE 86	-18.139	-11.395	14.283	1.00	41.47		C0
ANISOU14044 CA LEUE 86	4650	5820	5280	170	1300	170	C0
ATOM 14045 C LEUE 86	-19.122	-11.316	15.456	1.00	41.03		C0
ANISOU14045 C LEUE 86	4580	5830	5180	170	1190	210	C0
ATOM 14046 O LEUE 86	-20.011	-10.439	15.429	1.00	40.37		O0
ANISOU14046 O LEUE 86	4530	5800	5010	140	1130	190	O0
ATOM 14047 CB LEUE 86	-16.958	-10.446	14.503	1.00	41.98		C0
ANISOU14047 CB LEUE 86	4620	5920	5410	180	1310	180	C0
ATOM 14048 CG LEUE 86	-15.919	-10.407	13.385	1.00	43.32		C0
ANISOU14048 CG LEUE 86	4790	6050	5630	170	1440	140	C0
ATOM 14049 CD1 LEUE 86	-14.768	-9.480	13.748	1.00	43.84		C0
ANISOU14049 CD1 LEUE 86	4730	6160	5760	160	1450	150	C0
ATOM 14050 CD2 LEUE 86	-15.406	-11.805	13.062	1.00	44.04		C0
ANISOU14050 CD2 LEUE 86	4870	6070	5800	240	1530	130	C0
ATOM 14051 H LEUE 86	-18.659	-10.225	12.705	1.00	40.87		H0
ANISOU14051 H LEUE 86	4700	5740	5080	110	1340	110	H0
ATOM 14052 HA LEUE 86	-17.810	-12.318	14.209	1.00	41.97		H0
ANISOU14052 HA LEUE 86	4720	5830	5400	200	1340	180	H0
ATOM 14053 HB2 LEUE 86	-17.311	-9.542	14.628	1.00	41.60		H0
ANISOU14053 HB2 LEUE 86	4590	5910	5310	150	1260	180	H0
ATOM 14054 HB3 LEUE 86	-16.509	-10.703	15.333	1.00	42.22		H0
ANISOU14054 HB3 LEUE 86	4570	5970	5500	220	1270	210	H0
ATOM 14055 HG LEUE 86	-16.356	-10.047	12.576	1.00	43.06		H0
ANISOU14055 HG LEUE 86	4840	6000	5520	130	1470	110	H0
ATOM 14056 HD11 LEUE 86	-15.112	-8.585	13.912	1.00	43.37		H0
ANISOU14056 HD11 LEUE 86	4710	6130	5640	110	1390	150	H0
ATOM 14057 HD12 LEUE 86	-14.129	-9.453	13.015	1.00	44.48		H0
ANISOU14057 HD12 LEUE 86	4800	6230	5870	140	1540	130	H0
ATOM 14058 HD13 LEUE 86	-14.327	-9.809	14.550	1.00	44.06		H0
ANISOU14058 HD13 LEUE 86	4670	6220	5860	200	1400	180	H0
ATOM 14059 HD21 LEUE 86	-15.219	-12.282	13.889	1.00	44.21		H0
ANISOU14059 HD21 LEUE 86	4830	6100	5880	290	1480	170	H0
ATOM 14060 HD22 LEUE 86	-14.591	-11.738	12.535	1.00	44.80		H0
ANISOU14060 HD22 LEUE 86	4920	6160	5940	250	1620	110	H0
ATOM 14061 HD23 LEUE 86	-16.080	-12.289	12.554	1.00	43.98		H0
ANISOU14061 HD23 LEUE 86	4960	6020	5730	220	1550	110	H0
ATOM 14062 N ALAE 87	-18.962	-12.229	16.417	1.00	41.43		N0
ANISOU14062 N ALAE 87	4590	5870	5280	200	1160	250	N0
ATOM 14063 CA ALAE 87	-19.696	-12.295	17.699	1.00	41.64		C0
ANISOU14063 CA ALAE 87	4600	5960	5270	200	1060	300	C0
ATOM 14064 C ALAE 87	-18.706	-12.644	18.813	1.00	42.67		C0
ANISOU14064 C ALAE 87	4650	6090	5470	250	1020	360	C0
ATOM 14065 O ALAE 87	-17.814	-13.487	18.578	1.00	43.14		O0
ANISOU14065 O ALAE 87	4690	6070	5620	310	1070	380	O0

ATOM 14066 CB ALA E 87	-20.796	-13.323	17.615	1.00	42.02	C0
ANISOU14066 CB ALA E 87	4720	5980	5260	150	1070	300
ATOM 14067 H ALA E 87	-18.362	-12.910	16.341	1.00	42.07	H0
ANISOU14067 H ALA E 87	4660	5900	5420	240	1200	270
ATOM 14068 HA ALA E 87	-20.090	-11.412	17.888	1.00	41.25	H0
ANISOU14068 HA ALA E 87	4540	5970	5170	180	1020	280
ATOM 14069 HB1 ALA E 87	-21.272	-13.361	18.462	1.00	41.86	H0
ANISOU14069 HB1 ALA E 87	4680	6010	5210	130	1020	330
ATOM 14070 HB2 ALA E 87	-21.416	-13.079	16.907	1.00	41.72	H0
ANISOU14070 HB2 ALA E 87	4720	5960	5170	110	1090	260
ATOM 14071 HB3 ALA E 87	-20.412	-14.195	17.421	1.00	42.49	H0
ANISOU14071 HB3 ALA E 87	4810	5970	5360	160	1110	310
ATOM 14072 N ALA E 88	-18.847	-11.999	19.971	1.00	42.51	N0
ANISOU14072 N ALA E 88	4590	6150	5420	250	940	390
ATOM 14073 CA ALA E 88	-18.181	-12.398	21.227	1.00	43.23	C0
ANISOU14073 CA ALA E 88	4620	6260	5540	290	860	460
ATOM 14074 C ALA E 88	-18.955	-13.590	21.789	1.00	43.40	C0
ANISOU14074 C ALA E 88	4720	6240	5520	280	850	510
ATOM 14075 O ALA E 88	-20.109	-13.407	22.224	1.00	42.31	O0
ANISOU14075 O ALA E 88	4620	6170	5290	220	830	500
ATOM 14076 CB ALA E 88	-18.130	-11.245	22.197	1.00	43.48	C0
ANISOU14076 CB ALA E 88	4610	6380	5530	280	780	460
ATOM 14077 H ALA E 88	-19.371	-11.260	20.072	1.00	42.05	H0
ANISOU14077 H ALA E 88	4540	6140	5300	220	910	370
ATOM 14078 HA ALA E 88	-17.262	-12.682	21.019	1.00	43.83	H0
ANISOU14078 HA ALA E 88	4660	6300	5700	340	880	470
ATOM 14079 HB1 ALA E 88	-17.865	-11.572	23.072	1.00	43.78	H0
ANISOU14079 HB1 ALA E 88	4630	6440	5570	300	720	510
ATOM 14080 HB2 ALA E 88	-17.483	-10.588	21.888	1.00	43.35	H0
ANISOU14080 HB2 ALA E 88	4550	6380	5550	280	780	430
ATOM 14081 HB3 ALA E 88	-19.007	-10.831	22.258	1.00	42.83	H0
ANISOU14081 HB3 ALA E 88	4570	6340	5370	240	770	430
ATOM 14082 N TYR E 89	-18.346	-14.773	21.732	1.00	45.04	N0
ANISOU14082 N TYR E 89	4950	6350	5810	340	880	550
ATOM 14083 CA TYR E 89	-19.000	-16.076	22.004	1.00	45.83	C0
ANISOU14083 CA TYR E 89	5170	6370	5870	310	890	600
ATOM 14084 C TYR E 89	-19.552	-16.105	23.433	1.00	45.68	C0
ANISOU14084 C TYR E 89	5170	6420	5770	270	810	660
ATOM 14085 O TYR E 89	-20.580	-16.780	23.646	1.00	45.68	O0
ANISOU14085 O TYR E 89	5260	6400	5690	190	830	680
ATOM 14086 CB TYR E 89	-18.016	-17.223	21.757	1.00	48.22	C0
ANISOU14086 CB TYR E 89	5500	6540	6280	410	920	640
ATOM 14087 CG TYR E 89	-17.638	-17.469	20.316	1.00	49.37	C0
ANISOU14087 CG TYR E 89	5660	6600	6500	440	1030	560
ATOM 14088 CD1 TYR E 89	-18.362	-16.918	19.270	1.00	49.05	C0
ANISOU14088 CD1 TYR E 89	5640	6590	6400	360	1090	480
ATOM 14089 CD2 TYR E 89	-16.584	-18.311	19.995	1.00	51.44	C0
ANISOU14089 CD2 TYR E 89	5920	6750	6870	560	1080	580
ATOM 14090 CE1 TYR E 89	-18.027	-17.165	17.948	1.00	50.03	C0
ANISOU14090 CE1 TYR E 89	5810	6640	6570	370	1200	410
ATOM 14091 CE2 TYR E 89	-16.236	-18.569	18.678	1.00	52.26	C0
ANISOU14091 CE2 TYR E 89	6050	6780	7030	590	1200	500
ATOM 14092 CZ TYR E 89	-16.959	-17.990	17.649	1.00	51.44	C0
ANISOU14092 CZ TYR E 89	5980	6710	6850	480	1260	420

ATOM 14093 OH TYR E 89	-16.643 -18.228 16.341	1.00 52.94	O0
ANISOU14093 OH TYR E 89	6220 6820 7070	500 1380 350	O0
ATOM 14094 H TYR E 89	-17.464 -14.865 21.521	1.00 45.37	H0
ANISOU14094 H TYR E 89	4950 6370 5920	390 890 560	H0
ATOM 14095 HA TYR E 89	-19.764 -16.177 21.383	1.00 45.61	H0
ANISOU14095 HA TYR E 89	5190 6330 5810	250 940 560	H0
ATOM 14096 HB2 TYR E 89	-17.199 -17.040 22.268	1.00 48.59	H0
ANISOU14096 HB2 TYR E 89	5470 6610 6380	480 870 670	H0
ATOM 14097 HB3 TYR E 89	-18.411 -18.041 22.118	1.00 48.73	H0
ANISOU14097 HB3 TYR E 89	5650 6540 6320	400 920 680	H0
ATOM 14098 HD1 TYR E 89	-19.089 -16.350 19.456	1.00 48.39	H0
ANISOU14098 HD1 TYR E 89	5560 6580 6250	290 1060 470	H0
ATOM 14099 HD2 TYR E 89	-16.082 -18.707 20.689	1.00 52.15	H0
ANISOU14099 HD2 TYR E 89	5990 6820 7000	630 1030 640	H0
ATOM 14100 HE1 TYR E 89	-18.524 -16.768 17.253	1.00 49.35	H0
ANISOU14100 HE1 TYR E 89	5750 6570 6430	310 1230 360	H0
ATOM 14101 HE2 TYR E 89	-15.506 -19.134 18.482	1.00 53.12	H0
ANISOU14101 HE2 TYR E 89	6150 6820 7220	680 1230 510	H0
ATOM 14102 N ASN E 90	-18.903 -15.399 24.367	1.00 44.81	N0
ANISOU14102 N ASN E 90	4980 6390 5650	320 720 700	N0
ATOM 14103 CA ASN E 90	-19.220 -15.444 25.822	1.00 45.29	C0
ANISOU14103 CA ASN E 90	5080 6510 5620	290 640 770	C0
ATOM 14104 C ASN E 90	-19.784 -14.093 26.287	1.00 43.92	C0
ANISOU14104 C ASN E 90	4860 6470 5350	240 610 710	C0
ATOM 14105 O ASN E 90	-19.816 -13.864 27.506	1.00 44.00	O0
ANISOU14105 O ASN E 90	4880 6550 5280	230 540 750	O0
ATOM 14106 CB ASN E 90	-18.004 -15.886 26.646	1.00 46.20	C0
ANISOU14106 CB ASN E 90	5170 6600 5790	390 550 850	C0
ATOM 14107 CG ASN E 90	-16.790 -15.002 26.453	1.00 46.69	C0
ANISOU14107 CG ASN E 90	5080 6710 5940	450 500 820	C0
ATOM 14108 OD1 ASN E 90	-16.466 -14.615 25.330	1.00 46.58	O0
ANISOU14108 OD1 ASN E 90	5010 6680 6010	460 570 750	O0
ATOM 14109 ND2 ASN E 90	-16.106 -14.681 27.541	1.00 47.61	N0
ANISOU14109 ND2 ASN E 90	5150 6900 6040	480 380 870	N0
ATOM 14110 H ASN E 90	-18.214 -14.841 24.165	1.00 44.93	H0
ANISOU14110 H ASN E 90	4930 6430 5720	350 710 670	H0
ATOM 14111 HA ASN E 90	-19.920 -16.125 25.957	1.00 45.39	H0
ANISOU14111 HA ASN E 90	5170 6490 5580	240 670 790	H0
ATOM 14112 HB2 ASN E 90	-18.250 -15.888 27.594	1.00 46.74	H0
ANISOU14112 HB2 ASN E 90	5270 6710 5780	360 490 900	H0
ATOM 14113 HB3 ASN E 90	-17.771 -16.803 26.394	1.00 47.05	H0
ANISOU14113 HB3 ASN E 90	5320 6610 5950	430 570 890	H0
ATOM 14114 HD21 ASN E 90	-15.652 -13.923 27.569	1.00 47.42	H0
ANISOU14114 HD21 ASN E 90	5050 6930 6040	480 350 840	H0
ATOM 14115 HD22 ASN E 90	-16.102 -15.224 28.239	1.00 48.28	H0
ANISOU14115 HD22 ASN E 90	5290 6970 6090	500 330 940	H0
ATOM 14116 N ALA E 91	-20.226 -13.236 25.361	1.00 42.36	N0
ANISOU14116 N ALA E 91	4630 6310 5160	210 660 620	N0
ATOM 14117 CA ALA E 91	-20.967 -11.993 25.675	1.00 41.80	C0
ANISOU14117 CA ALA E 91	4540 6350 5000	180 650 560	C0
ATOM 14118 C ALA E 91	-22.366 -12.367 26.184	1.00 41.54	C0
ANISOU14118 C ALA E 91	4550 6380 4850	110 680 570	C0
ATOM 14119 O ALA E 91	-22.908 -13.391 25.729	1.00 42.15	O0
ANISOU14119 O ALA E 91	4670 6410 4940	60 730 580	O0

ATOM 14120 CB ALA E 91	-21.028	-11.095	24.467	1.00	41.31	C0	
ANISOU14120 CB ALA E 91	4450	6280	4970	180	690	480	C0
ATOM 14121 H ALA E 91	-20.106	-13.355	24.466	1.00	42.28	H0	
ANISOU14121 H ALA E 91	4610	6250	5200	220	710	590	H0
ATOM 14122 HA ALA E 91	-20.489	-11.521	26.396	1.00	42.01	H0	
ANISOU14122 HA ALA E 91	4540	6410	5010	190	590	580	H0
ATOM 14123 HB1 ALA E 91	-21.587	-10.325	24.663	1.00	40.94	H0	
ANISOU14123 HB1 ALA E 91	4400	6300	4860	170	680	440	H0
ATOM 14124 HB2 ALA E 91	-20.133	-10.794	24.240	1.00	41.28	H0	
ANISOU14124 HB2 ALA E 91	4410	6250	5030	210	680	480	H0
ATOM 14125 HB3 ALA E 91	-21.405	-11.584	23.716	1.00	41.08	H0	
ANISOU14125 HB3 ALA E 91	4440	6220	4950	170	740	470	H0
ATOM 14126 N ILE E 92	-22.910	-11.600	27.131	1.00	41.14	N0	
ANISOU14126 N ILE E 92	4500	6430	4700	90	650	550	N0
ATOM 14127 CA ILE E 92	-24.259	-11.851	27.725	1.00	41.53	C0	
ANISOU14127 CA ILE E 92	4570	6570	4640	20	690	540	C0
ATOM 14128 C ILE E 92	-25.147	-10.613	27.520	1.00	41.65	C0	
ANISOU14128 C ILE E 92	4540	6690	4600	40	710	450	C0
ATOM 14129 O ILE E 92	-26.250	-10.572	28.092	1.00	40.73	O0	
ANISOU14129 O ILE E 92	4410	6680	4380	0	750	420	O0
ATOM 14130 CB ILE E 92	-24.135	-12.275	29.201	1.00	42.35	C0	
ANISOU14130 CB ILE E 92	4730	6710	4650	0	650	620	C0
ATOM 14131 CG1 ILE E 92	-23.409	-11.226	30.048	1.00	42.24	C0	
ANISOU14131 CG1 ILE E 92	4710	6740	4600	40	570	600	C0
ATOM 14132 CG2 ILE E 92	-23.472	-13.642	29.296	1.00	42.91	C0	
ANISOU14132 CG2 ILE E 92	4870	6660	4770	-10	630	720	C0
ATOM 14133 CD1 ILE E 92	-23.431	-11.515	31.530	1.00	43.26	C0	
ANISOU14133 CD1 ILE E 92	4910	6920	4610	10	530	670	C0
ATOM 14134 H ILE E 92	-22.480	-10.880	27.485	1.00	41.22	H0	
ANISOU14134 H ILE E 92	4490	6470	4700	120	610	530	H0
ATOM 14135 HA ILE E 92	-24.667	-12.590	27.240	1.00	41.69	H0	
ANISOU14135 HA ILE E 92	4610	6560	4670	-10	730	550	H0
ATOM 14136 HB ILE E 92	-25.052	-12.363	29.561	1.00	42.62	H0	
ANISOU14136 HB ILE E 92	4770	6820	4610	-60	700	610	H0
ATOM 14137 HG12 ILE E 92	-22.475	-11.174	29.754	1.00	42.13	H0	
ANISOU14137 HG12 ILE E 92	4680	6670	4660	80	530	620	H0
ATOM 14138 HG13 ILE E 92	-23.823	-10.351	29.893	1.00	41.89	H0	
ANISOU14138 HG13 ILE E 92	4640	6750	4530	60	590	530	H0
ATOM 14139 HG21 ILE E 92	-23.941	-14.274	28.723	1.00	42.95	H0	
ANISOU14139 HG21 ILE E 92	4890	6630	4800	-50	690	720	H0
ATOM 14140 HG22 ILE E 92	-23.502	-13.958	30.215	1.00	43.70	H0	
ANISOU14140 HG22 ILE E 92	5020	6780	4800	-40	610	770	H0
ATOM 14141 HG23 ILE E 92	-22.544	-13.576	29.009	1.00	42.82	H0	
ANISOU14141 HG23 ILE E 92	4840	6590	4840	50	590	730	H0
ATOM 14142 HD11 ILE E 92	-24.349	-11.655	31.821	1.00	43.56	H0	
ANISOU14142 HD11 ILE E 92	4970	7020	4570	-40	590	660	H0
ATOM 14143 HD12 ILE E 92	-23.050	-10.763	32.015	1.00	43.39	H0	
ANISOU14143 HD12 ILE E 92	4920	6970	4590	30	480	640	H0
ATOM 14144 HD13 ILE E 92	-22.910	-12.315	31.714	1.00	43.79	H0	
ANISOU14144 HD13 ILE E 92	5010	6930	4700	10	500	740	H0
ATOM 14145 N SER E 93	-24.691	-9.666	26.695	1.00	41.71	N0	
ANISOU14145 N SER E 93	4520	6670	4660	100	700	390	N0
ATOM 14146 CA SER E 93	-25.471	-8.499	26.210	1.00	42.66	C0	
ANISOU14146 CA SER E 93	4610	6850	4750	150	710	300	C0

ATOM 14147 C SER E 93	-25.080	-8.211	24.753	1.00	43.11	C0	
ANISOU14147 C SER E 93	4670	6820	4890	170	720	270	C0
ATOM 14148 O SER E 93	-23.948	-8.561	24.354	1.00	42.70	O0	
ANISOU14148 O SER E 93	4630	6670	4920	170	710	310	O0
ATOM 14149 CB SER E 93	-25.253	-7.297	27.094	1.00	42.66	C0	
ANISOU14149 CB SER E 93	4640	6890	4690	190	670	260	C0
ATOM 14150 OG SER E 93	-24.016	-6.669	26.798	1.00	42.53	O0	
ANISOU14150 OG SER E 93	4640	6780	4740	210	620	260	O0
ATOM 14151 H SER E 93	-23.845	-9.667	26.362	1.00	41.63	H0	
ANISOU14151 H SER E 93	4510	6590	4720	120	680	400	H0
ATOM 14152 HA SER E 93	-26.436	-8.739	26.232	1.00	42.81	H0	
ANISOU14152 HA SER E 93	4610	6930	4720	120	750	290	H0
ATOM 14153 HB2 SER E 93	-25.987	-6.656	26.961	1.00	42.84	H0	
ANISOU14153 HB2 SER E 93	4650	6960	4670	230	690	210	H0
ATOM 14154 HB3 SER E 93	-25.260	-7.580	28.037	1.00	43.24	H0	
ANISOU14154 HB3 SER E 93	4720	7000	4710	170	660	290	H0
ATOM 14155 N LYSE 94	-25.986	-7.612	23.980	1.00	44.76	N0	
ANISOU14155 N LYSE 94	4870	7070	5070	200	730	210	N0
ATOM 14156 CA LYSE 94	-25.688	-7.162	22.596	1.00	46.20	C0	
ANISOU14156 CA LYSE 94	5070	7180	5300	230	740	190	C0
ATOM 14157 C LYSE 94	-24.696	-6.008	22.680	1.00	45.81	C0	
ANISOU14157 C LYSE 94	5070	7060	5270	270	700	170	C0
ATOM 14158 O LYSE 94	-24.712	-5.225	23.629	1.00	45.89	O0	
ANISOU14158 O LYSE 94	5090	7110	5230	300	670	150	O0
ATOM 14159 CB LYSE 94	-26.962	-6.800	21.827	1.00	48.08	C0	
ANISOU14159 CB LYSE 94	5290	7480	5490	260	740	130	C0
ATOM 14160 CG LYSE 94	-27.772	-5.632	22.374	1.00	50.83	C0	
ANISOU14160 CG LYSE 94	5630	7920	5770	350	720	80	C0
ATOM 14161 CD LYSE 94	-29.010	-5.306	21.545	1.00	52.76	C0	
ANISOU14161 CD LYSE 94	5830	8240	5980	400	710	30	C0
ATOM 14162 CE LYSE 94	-29.704	-6.533	20.983	1.00	53.86	C0	
ANISOU14162 CE LYSE 94	5900	8440	6120	310	730	40	C0
ATOM 14163 NZ LYSE 94	-31.021	-6.202	20.387	1.00	55.50	N0	
ANISOU14163 NZ LYSE 94	6040	8770	6290	360	700	-10	N0
ATOM 14164 H LYSE 94	-26.839	-7.451	24.255	1.00	45.06	H0	
ANISOU14164 H LYSE 94	4880	7190	5060	210	740	190	H0
ATOM 14165 HA LYSE 94	-25.252	-7.911	22.129	1.00	45.97	H0	
ANISOU14165 HA LYSE 94	5050	7090	5320	200	760	210	H0
ATOM 14166 HB2 LYSE 94	-26.714	-6.595	20.902	1.00	47.99	H0	
ANISOU14166 HB2 LYSE 94	5310	7410	5510	270	740	120	H0
ATOM 14167 HB3 LYSE 94	-27.537	-7.593	21.810	1.00	48.43	H0	
ANISOU14167 HB3 LYSE 94	5300	7570	5530	220	760	140	H0
ATOM 14168 HG2 LYSE 94	-28.051	-5.841	23.290	1.00	50.90	H0	
ANISOU14168 HG2 LYSE 94	5600	7990	5750	330	730	80	H0
ATOM 14169 HG3 LYSE 94	-27.198	-4.838	22.410	1.00	50.49	H0	
ANISOU14169 HG3 LYSE 94	5630	7820	5730	390	700	70	H0
ATOM 14170 HD2 LYSE 94	-29.646	-4.812	22.104	1.00	53.09	H0	
ANISOU14170 HD2 LYSE 94	5840	8360	5970	460	700	0	H0
ATOM 14171 HD3 LYSE 94	-28.749	-4.723	20.800	1.00	52.46	H0	
ANISOU14171 HD3 LYSE 94	5850	8140	5950	440	680	20	H0
ATOM 14172 HE2 LYSE 94	-29.143	-6.941	20.297	1.00	53.47	H0	
ANISOU14172 HE2 LYSE 94	5900	8310	6110	270	730	70	H0
ATOM 14173 HE3 LYSE 94	-29.835	-7.188	21.695	1.00	54.01	H0	
ANISOU14173 HE3 LYSE 94	5890	8500	6130	260	760	70	H0

ATOM 14174 HZ1 LYS E 94	-31.563	-5.842	21.019	1.00	55.67		H0
ANISOU14174 HZ1 LYS E 94	6000	8870	6280	410	700	-30	H0
ATOM 14175 HZ2 LYS E 94	-31.407	-6.954	20.057	1.00	55.41		H0
ANISOU14175 HZ2 LYS E 94	5990	8790	6280	290	710	0	H0
ATOM 14176 HZ3 LYS E 94	-30.912	-5.604	19.713	1.00	55.15		H0
ANISOU14176 HZ3 LYS E 94	6040	8680	6240	420	670	-20	H0
ATOM 14177 N PRO E 95	-23.776	-5.887	21.701	1.00	45.65		N0
ANISOU14177 N PRO E 95	5080	6950	5320	260	720	180	N0
ATOM 14178 CA PRO E 95	-22.758	-4.841	21.749	1.00	45.50		C0
ANISOU14178 CA PRO E 95	5100	6870	5320	260	700	160	C0
ATOM 14179 C PRO E 95	-23.418	-3.457	21.663	1.00	45.86		C0
ANISOU14179 C PRO E 95	5210	6910	5300	320	670	110	C0
ATOM 14180 O PRO E 95	-24.220	-3.253	20.776	1.00	47.24		O0
ANISOU14180 O PRO E 95	5420	7090	5440	360	680	80	O0
ATOM 14181 CB PRO E 95	-21.865	-5.155	20.541	1.00	45.82		C0
ANISOU14181 CB PRO E 95	5140	6820	5440	230	740	180	C0
ATOM 14182 CG PRO E 95	-22.764	-5.933	19.596	1.00	45.66		C0
ANISOU14182 CG PRO E 95	5130	6810	5410	230	780	170	C0
ATOM 14183 CD PRO E 95	-23.690	-6.723	20.494	1.00	45.37		C0
ANISOU14183 CD PRO E 95	5050	6860	5330	230	770	190	C0
ATOM 14184 HA PRO E 95	-22.234	-4.924	22.584	1.00	45.84		H0
ANISOU14184 HA PRO E 95	5120	6920	5380	250	670	180	H0
ATOM 14185 HB2 PRO E 95	-21.545	-4.330	20.117	1.00	45.81		H0
ANISOU14185 HB2 PRO E 95	5190	6780	5440	230	740	160	H0
ATOM 14186 HB3 PRO E 95	-21.091	-5.695	20.809	1.00	45.83		H0
ANISOU14186 HB3 PRO E 95	5100	6810	5500	210	750	210	H0
ATOM 14187 HG2 PRO E 95	-23.274	-5.325	19.023	1.00	45.58		H0
ANISOU14187 HG2 PRO E 95	5170	6800	5350	250	780	140	H0
ATOM 14188 HG3 PRO E 95	-22.237	-6.533	19.031	1.00	45.60		H0
ANISOU14188 HG3 PRO E 95	5120	6750	5450	210	820	190	H0
ATOM 14189 HD2 PRO E 95	-24.566	-6.837	20.082	1.00	45.50		H0
ANISOU14189 HD2 PRO E 95	5070	6910	5310	230	770	170	H0
ATOM 14190 HD3 PRO E 95	-23.318	-7.600	20.701	1.00	45.54		H0
ANISOU14190 HD3 PRO E 95	5050	6860	5390	200	780	220	H0
ATOM 14191 N GLU E 96	-23.094	-2.567	22.602	1.00	46.39		N0
ANISOU14191 N GLU E 96	5320	6980	5330	330	630	80	N0
ATOM 14192 CA GLU E 96	-23.531	-1.145	22.589	1.00	48.21		C0
ANISOU14192 CA GLU E 96	5650	7180	5500	390	600	30	C0
ATOM 14193 C GLU E 96	-22.446	-0.309	21.891	1.00	47.18		C0
ANISOU14193 C GLU E 96	5600	6920	5400	340	600	20	C0
ATOM 14194 O GLU E 96	-21.403	-0.025	22.522	1.00	46.90		O0
ANISOU14194 O GLU E 96	5560	6860	5390	270	580	30	O0
ATOM 14195 CB GLU E 96	-23.815	-0.655	24.010	1.00	50.37		C0
ANISOU14195 CB GLU E 96	5930	7510	5700	420	570	-10	C0
ATOM 14196 CG GLU E 96	-24.664	0.604	24.058	1.00	53.36		C0
ANISOU14196 CG GLU E 96	6410	7860	6000	520	560	-80	C0
ATOM 14197 CD GLU E 96	-25.121	1.008	25.451	1.00	56.23		C0
ANISOU14197 CD GLU E 96	6790	8290	6280	560	550	-130	C0
ATOM 14198 OE1 GLU E 96	-26.291	1.427	25.592	1.00	58.97		O0
ANISOU14198 OE1 GLU E 96	7140	8700	6570	680	560	-180	O0
ATOM 14199 OE2 GLU E 96	-24.307	0.901	26.393	1.00	58.62		O0
ANISOU14199 OE2 GLU E 96	7100	8600	6570	480	520	-120	O0
ATOM 14200 H GLU E 96	-22.576	-2.781	23.320	1.00	46.79		H0
ANISOU14200 H GLU E 96	5340	7050	5390	300	610	100	H0

ATOM 14201 HA GLU E 96	-24.362	-1.081	22.065	1.00	48.00		H0
ANISOU14201 HA GLU E 96	5630	7170	5440	440	610	10	H0
ATOM 14202 HB2 GLU E 96	-24.275	-1.368	24.501	1.00	50.43		H0
ANISOU14202 HB2 GLU E 96	5880	7590	5690	420	580	10	H0
ATOM 14203 HB3 GLU E 96	-22.963	-0.482	24.460	1.00	50.64		H0
ANISOU14203 HB3 GLU E 96	5980	7510	5750	360	550	0	H0
ATOM 14204 HG2 GLU E 96	-24.151	1.347	23.673	1.00	53.50		H0
ANISOU14204 HG2 GLU E 96	6510	7790	6020	510	550	-90	H0
ATOM 14205 HG3 GLU E 96	-25.458	0.473	23.497	1.00	53.23		H0
ANISOU14205 HG3 GLU E 96	6370	7880	5980	580	570	-80	H0
ATOM 14206 N VAL E 97	-22.679	0.060	20.629	1.00	45.62		N0
ANISOU14206 N VAL E 97	5470	6660	5200	360	630	20	N0
ATOM 14207 CA VAL E 97	-21.723	0.866	19.812	1.00	44.88		C0
ANISOU14207 CA VAL E 97	5480	6450	5130	290	650	20	C0
ATOM 14208 C VAL E 97	-21.843	2.329	20.251	1.00	44.36		C0
ANISOU14208 C VAL E 97	5560	6300	4990	330	600	-20	C0
ATOM 14209 O VAL E 97	-22.943	2.899	20.129	1.00	44.38		O0
ANISOU14209 O VAL E 97	5640	6300	4930	440	580	-50	O0
ATOM 14210 CB VAL E 97	-21.969	0.687	18.303	1.00	44.85		C0
ANISOU14210 CB VAL E 97	5530	6400	5120	300	690	40	C0
ATOM 14211 CG1 VAL E 97	-20.996	1.520	17.474	1.00	45.77		C0
ANISOU14211 CG1 VAL E 97	5760	6390	5240	220	720	50	C0
ATOM 14212 CG2 VAL E 97	-21.900	-0.781	17.901	1.00	44.18		C0
ANISOU14212 CG2 VAL E 97	5320	6370	5090	270	730	70	C0
ATOM 14213 H VAL E 97	-23.447	-0.151	20.189	1.00	45.60		H0
ANISOU14213 H VAL E 97	5460	6690	5180	410	630	20	H0
ATOM 14214 HA VAL E 97	-20.820	0.558	20.011	1.00	44.82		H0
ANISOU14214 HA VAL E 97	5420	6440	5170	220	660	40	H0
ATOM 14215 HB VAL E 97	-22.884	1.011	18.112	1.00	45.04		H0
ANISOU14215 HB VAL E 97	5590	6430	5090	380	660	20	H0
ATOM 14216 HG11 VAL E 97	-21.260	2.456	17.506	1.00	46.20		H0
ANISOU14216 HG11 VAL E 97	5920	6390	5240	250	690	30	H0
ATOM 14217 HG12 VAL E 97	-21.008	1.213	16.551	1.00	45.62		H0
ANISOU14217 HG12 VAL E 97	5760	6350	5220	210	760	60	H0
ATOM 14218 HG13 VAL E 97	-20.098	1.425	17.836	1.00	45.76		H0
ANISOU14218 HG13 VAL E 97	5710	6390	5290	140	740	50	H0
ATOM 14219 HG21 VAL E 97	-21.065	-1.166	18.221	1.00	44.14		H0
ANISOU14219 HG21 VAL E 97	5250	6370	5150	220	750	90	H0
ATOM 14220 HG22 VAL E 97	-21.941	-0.855	16.932	1.00	44.24		H0
ANISOU14220 HG22 VAL E 97	5370	6350	5090	260	760	80	H0
ATOM 14221 HG23 VAL E 97	-22.649	-1.262	18.294	1.00	43.96		H0
ANISOU14221 HG23 VAL E 97	5240	6420	5050	320	710	70	H0
ATOM 14222 N LEU E 98	-20.750	2.895	20.767	1.00	44.14		N0
ANISOU14222 N LEU E 98	5560	6220	4990	230	590	-30	N0
ATOM 14223 CA LEU E 98	-20.699	4.264	21.349	1.00	44.66		C0
ANISOU14223 CA LEU E 98	5790	6200	4990	220	550	-80	C0
ATOM 14224 C LEU E 98	-20.334	5.286	20.267	1.00	44.80		C0
ANISOU14224 C LEU E 98	5980	6060	4980	180	570	-80	C0
ATOM 14225 O LEU E 98	-20.709	6.465	20.432	1.00	46.12		O0
ANISOU14225 O LEU E 98	6330	6120	5080	230	540	-120	O0
ATOM 14226 CB LEU E 98	-19.663	4.287	22.478	1.00	45.03		C0
ANISOU14226 CB LEU E 98	5780	6270	5060	110	520	-90	C0
ATOM 14227 CG LEU E 98	-19.853	3.246	23.584	1.00	44.68		C0
ANISOU14227 CG LEU E 98	5580	6370	5020	140	490	-80	C0

ATOM 14228 CD1 LEU E 98	-18.749	3.354	24.625	1.00	45.32		C0
ANISOU14228 CD1 LEU E 98	5620	6480	5120	20	430	-90	C0
ATOM 14229 CD2 LEU E 98	-21.209	3.391	24.247	1.00	44.39		C0
ANISOU14229 CD2 LEU E 98	5580	6390	4900	270	470	-120	C0
ATOM 14230 H LEU E 98	-19.947	2.464	20.793	1.00	44.10		H0
ANISOU14230 H LEU E 98	5490	6230	5040	150	610	-10	H0
ATOM 14231 HA LEU E 98	-21.588	4.487	21.709	1.00	44.74		H0
ANISOU14231 HA LEU E 98	5830	6230	4940	330	530	-110	H0
ATOM 14232 HB2 LEU E 98	-18.777	4.157	22.083	1.00	45.16		H0
ANISOU14232 HB2 LEU E 98	5750	6270	5130	10	540	-70	H0
ATOM 14233 HB3 LEU E 98	-19.675	5.175	22.886	1.00	45.80		H0
ANISOU14233 HB3 LEU E 98	5990	6310	5100	100	490	-140	H0
ATOM 14234 HG LEU E 98	-19.804	2.347	23.175	1.00	43.97		H0
ANISOU14234 HG LEU E 98	5390	6330	4990	140	520	-40	H0
ATOM 14235 HD11 LEU E 98	-17.884	3.375	24.179	1.00	45.53		H0
ANISOU14235 HD11 LEU E 98	5610	6480	5200	-70	440	-70	H0
ATOM 14236 HD12 LEU E 98	-18.788	2.586	25.220	1.00	45.04		H0
ANISOU14236 HD12 LEU E 98	5490	6530	5090	30	420	-60	H0
ATOM 14237 HD13 LEU E 98	-18.867	4.170	25.141	1.00	45.98		H0
ANISOU14237 HD13 LEU E 98	5810	6520	5140	20	400	-130	H0
ATOM 14238 HD21 LEU E 98	-21.310	4.297	24.582	1.00	45.19		H0
ANISOU14238 HD21 LEU E 98	5800	6430	4940	290	450	-170	H0
ATOM 14239 HD22 LEU E 98	-21.277	2.762	24.987	1.00	44.31		H0
ANISOU14239 HD22 LEU E 98	5490	6460	4880	270	460	-110	H0
ATOM 14240 HD23 LEU E 98	-21.912	3.204	23.600	1.00	44.15		H0
ANISOU14240 HD23 LEU E 98	5540	6360	4860	350	500	-110	H0
ATOM 14241 N THR E 99	-19.631	4.852	19.216	1.00	43.62		N0
ANISOU14241 N THR E 99	5790	5890	4890	90	630	-40	N0
ATOM 14242 CA THR E 99	-18.945	5.728	18.226	1.00	44.24		C0
ANISOU14242 CA THR E 99	6030	5830	4950	-10	670	-20	C0
ATOM 14243 C THR E 99	-19.728	5.808	16.917	1.00	43.67		C0
ANISOU14243 C THR E 99	6070	5700	4830	70	700	0	C0
ATOM 14244 O THR E 99	-20.494	4.909	16.586	1.00	42.30		O0
ANISOU14244 O THR E 99	5800	5620	4660	170	700	20	O0
ATOM 14245 CB THR E 99	-17.519	5.234	17.970	1.00	44.07		C0
ANISOU14245 CB THR E 99	5880	5840	5020	-190	740	0	C0
ATOM 14246 OG1 THR E 99	-17.583	3.824	17.755	1.00	42.59		O0
ANISOU14246 OG1 THR E 99	5510	5770	4900	-150	770	30	O0
ATOM 14247 CG2 THR E 99	-16.584	5.548	19.118	1.00	44.70		C0
ANISOU14247 CG2 THR E 99	5900	5950	5140	-300	700	-30	C0
ATOM 14248 H THR E 99	-19.519	3.969	19.026	1.00	43.18		H0
ANISOU14248 H THR E 99	5620	5910	4880	80	660	-10	H0
ATOM 14249 HA THR E 99	-18.893	6.629	18.614	1.00	44.89		H0
ANISOU14249 HA THR E 99	6230	5830	4990	-30	640	-50	H0
ATOM 14250 HB THR E 99	-17.179	5.669	17.152	1.00	44.61		H0
ANISOU14250 HB THR E 99	6040	5830	5080	-250	780	10	H0
ATOM 14251 HG21 THR E 99	-16.194	6.432	18.988	1.00	45.62		H0
ANISOU14251 HG21 THR E 99	6130	5970	5230	-390	700	-40	H0
ATOM 14252 HG22 THR E 99	-15.875	4.884	19.151	1.00	44.58		H0
ANISOU14252 HG22 THR E 99	5730	6010	5200	-360	720	-10	H0
ATOM 14253 HG23 THR E 99	-17.080	5.534	19.956	1.00	44.48		H0
ANISOU14253 HG23 THR E 99	5860	5960	5090	-230	640	-50	H0
ATOM 14254 N PRO E 100	-19.541	6.895	16.132	1.00	44.98		N0
ANISOU14254 N PRO E 100	6450	5710	4930	30	710	10	N0

ATOM 14255 CA PRO E 100	-20.075	6.976	14.772	1.00	45.34		C0
ANISOU14255 CA PRO E 100	6620	5690	4910	80	730	50	C0
ATOM 14256 C PRO E 100	-19.732	5.729	13.939	1.00	44.80		C0
ANISOU14256 C PRO E 100	6410	5720	4900	20	800	80	C0
ATOM 14257 O PRO E 100	-18.617	5.237	14.014	1.00	43.78		O0
ANISOU14257 O PRO E 100	6160	5630	4850	-110	880	90	O0
ATOM 14258 CB PRO E 100	-19.397	8.224	14.194	1.00	46.83		C0
ANISOU14258 CB PRO E 100	7060	5690	5040	-40	760	70	C0
ATOM 14259 CG PRO E 100	-19.135	9.088	15.404	1.00	47.39		C0
ANISOU14259 CG PRO E 100	7190	5700	5110	-70	710	20	C0
ATOM 14260 CD PRO E 100	-18.798	8.108	16.509	1.00	46.26		C0
ANISOU14260 CD PRO E 100	6780	5730	5060	-90	700	-10	C0
ATOM 14261 HA PRO E 100	-21.055	7.112	14.807	1.00	45.35		H0
ANISOU14261 HA PRO E 100	6660	5700	4870	220	670	40	H0
ATOM 14262 HB2 PRO E 100	-18.558	7.992	13.741	1.00	46.94		H0
ANISOU14262 HB2 PRO E 100	7040	5710	5090	-170	830	90	H0
ATOM 14263 HB3 PRO E 100	-19.986	8.682	13.557	1.00	47.35		H0
ANISOU14263 HB3 PRO E 100	7280	5680	5030	40	730	90	H0
ATOM 14264 HG2 PRO E 100	-18.387	9.697	15.242	1.00	48.31		H0
ANISOU14264 HG2 PRO E 100	7410	5720	5220	-200	740	20	H0
ATOM 14265 HG3 PRO E 100	-19.928	9.613	15.636	1.00	47.75		H0
ANISOU14265 HG3 PRO E 100	7340	5700	5100	60	650	0	H0
ATOM 14266 HD2 PRO E 100	-17.839	7.934	16.544	1.00	46.41		H0
ANISOU14266 HD2 PRO E 100	6720	5770	5140	-230	750	0	H0
ATOM 14267 HD3 PRO E 100	-19.091	8.444	17.376	1.00	46.42		H0
ANISOU14267 HD3 PRO E 100	6810	5760	5070	-40	650	-50	H0
ATOM 14268 N GLN E 101	-20.711	5.241	13.180	1.00	45.23		N0
ANISOU14268 N GLN E 101	6470	5810	4900	140	780	100	N0
ATOM 14269 CA GLN E 101	-20.662	3.923	12.499	1.00	45.49		C0
ANISOU14269 CA GLN E 101	6370	5940	4970	110	840	120	C0
ATOM 14270 C GLN E 101	-20.083	4.109	11.093	1.00	45.20		C0
ANISOU14270 C GLN E 101	6470	5820	4890	10	930	150	C0
ATOM 14271 O GLN E 101	-20.800	3.850	10.115	1.00	45.63		O0
ANISOU14271 O GLN E 101	6600	5870	4860	70	910	170	O0
ATOM 14272 CB GLN E 101	-22.056	3.301	12.513	1.00	46.85		C0
ANISOU14272 CB GLN E 101	6470	6210	5120	260	770	110	C0
ATOM 14273 CG GLN E 101	-22.499	2.884	13.910	1.00	48.21		C0
ANISOU14273 CG GLN E 101	6480	6500	5340	330	720	80	C0
ATOM 14274 CD GLN E 101	-23.004	1.463	13.910	1.00	49.97		C0
ANISOU14274 CD GLN E 101	6530	6850	5610	350	730	80	C0
ATOM 14275 OE1 GLN E 101	-22.278	0.528	14.255	1.00	52.52		O0
ANISOU14275 OE1 GLN E 101	6720	7220	6010	270	790	80	O0
ATOM 14276 NE2 GLN E 101	-24.241	1.288	13.470	1.00	50.85		N0
ANISOU14276 NE2 GLN E 101	6640	7020	5660	450	670	70	N0
ATOM 14277 H GLN E 101	-21.482	5.701	13.027	1.00	45.64		H0
ANISOU14277 H GLN E 101	6620	5830	4890	240	730	100	H0
ATOM 14278 HA GLN E 101	-20.055	3.338	13.007	1.00	44.97		H0
ANISOU14278 HA GLN E 101	6170	5930	4990	50	880	110	H0
ATOM 14279 HB2 GLN E 101	-22.695	3.951	12.151	1.00	47.43		H0
ANISOU14279 HB2 GLN E 101	6670	6240	5120	340	710	110	H0
ATOM 14280 HB3 GLN E 101	-22.056	2.517	11.925	1.00	46.55		H0
ANISOU14280 HB3 GLN E 101	6380	6220	5090	240	800	120	H0
ATOM 14281 HG2 GLN E 101	-21.744	2.961	14.532	1.00	48.20		H0
ANISOU14281 HG2 GLN E 101	6440	6490	5390	260	740	70	H0

ATOM 14282 HG3 GLN E 101	-23.211	3.483	14.221	1.00	48.63	H0
ANISOU14282 HG3 GLN E 101	6580	6540	5350	430	660	60
ATOM 14283 HE21 GLN E 101	-24.639	0.504	13.569	1.00	50.23	H0
ANISOU14283 HE21 GLN E 101	6470	7020	5590	460	670	70
ATOM 14284 HE22 GLN E 101	-24.671	1.953	13.077	1.00	51.18	H0
ANISOU14284 HE22 GLN E 101	6780	7020	5640	510	630	70
ATOM 14285 N LEU E 102	-18.823	4.549	11.032	1.00	44.89	N0
ANISOU14285 N LEU E 102	6460	5710	4880	-150	1010	160
ATOM 14286 CA LEU E 102	-18.053	4.821	9.793	1.00	45.20	C0
ANISOU14286 CA LEU E 102	6640	5670	4870	-280	1120	180
ATOM 14287 C LEU E 102	-16.792	3.954	9.798	1.00	44.34	C0
ANISOU14287 C LEU E 102	6330	5640	4880	-410	1250	170
ATOM 14288 O LEU E 102	-16.116	3.893	10.837	1.00	43.81	O0
ANISOU14288 O LEU E 102	6110	5630	4910	-460	1240	150
ATOM 14289 CB LEU E 102	-17.690	6.309	9.743	1.00	46.66	C0
ANISOU14289 CB LEU E 102	7050	5690	4980	-360	1120	200
ATOM 14290 CG LEU E 102	-18.867	7.283	9.776	1.00	47.26	C0
ANISOU14290 CG LEU E 102	7340	5660	4950	-210	990	210
ATOM 14291 CD1 LEU E 102	-18.389	8.713	9.594	1.00	49.36	C0
ANISOU14291 CD1 LEU E 102	7870	5740	5140	-310	1000	230
ATOM 14292 CD2 LEU E 102	-19.893	6.936	8.715	1.00	47.79	C0
ANISOU14292 CD2 LEU E 102	7490	5740	4920	-90	940	240
ATOM 14293 H LEU E 102	-18.337	4.708	11.785	1.00	44.91	H0
ANISOU14293 H LEU E 102	6400	5730	4940	-190	1010	140
ATOM 14294 HA LEU E 102	-18.605	4.584	9.015	1.00	45.24	H0
ANISOU14294 HA LEU E 102	6710	5670	4810	-230	1120	200
ATOM 14295 HB2 LEU E 102	-17.105	6.507	10.501	1.00	46.72	H0
ANISOU14295 HB2 LEU E 102	6980	5710	5060	-430	1120	180
ATOM 14296 HB3 LEU E 102	-17.178	6.472	8.926	1.00	47.46	H0
ANISOU14296 HB3 LEU E 102	7240	5740	5050	-470	1200	220
ATOM 14297 HG LEU E 102	-19.301	7.213	10.661	1.00	46.81	H0
ANISOU14297 HG LEU E 102	7190	5660	4930	-120	920	180
ATOM 14298 HD11 LEU E 102	-17.714	8.918	10.264	1.00	49.33	H0
ANISOU14298 HD11 LEU E 102	7810	5730	5200	-410	1020	210
ATOM 14299 HD12 LEU E 102	-19.140	9.323	9.694	1.00	49.61	H0
ANISOU14299 HD12 LEU E 102	8040	5700	5110	-190	910	240
ATOM 14300 HD13 LEU E 102	-18.004	8.817	8.706	1.00	49.95	H0
ANISOU14300 HD13 LEU E 102	8050	5760	5170	-400	1070	270
ATOM 14301 HD21 LEU E 102	-19.439	6.634	7.909	1.00	47.92	H0
ANISOU14301 HD21 LEU E 102	7540	5750	4910	-180	1030	260
ATOM 14302 HD22 LEU E 102	-20.428	7.723	8.510	1.00	48.41	H0
ANISOU14302 HD22 LEU E 102	7750	5730	4920	-10	880	260
ATOM 14303 HD23 LEU E 102	-20.473	6.229	9.045	1.00	46.70	H0
ANISOU14303 HD23 LEU E 102	7210	5710	4820	10	900	220
ATOM 14304 N ALA E 103	-16.508	3.294	8.679	1.00	44.30	N0
ANISOU14304 N ALA E 103	6330	5650	4850	-460	1360	180
ATOM 14305 CA ALA E 103	-15.234	2.592	8.417	1.00	44.81	C0
ANISOU14305 CA ALA E 103	6240	5780	5010	-580	1510	160
ATOM 14306 C ALA E 103	-14.312	3.533	7.639	1.00	46.62	C0
ANISOU14306 C ALA E 103	6620	5920	5180	-760	1630	180
ATOM 14307 O ALA E 103	-14.819	4.466	6.979	1.00	47.31	O0
ANISOU14307 O ALA E 103	6970	5880	5130	-770	1600	210
ATOM 14308 CB ALA E 103	-15.487	1.314	7.655	1.00	44.21	C0
ANISOU14308 CB ALA E 103	6110	5760	4930	-520	1570	150

ATOM 14309 H ALA E 103	-17.088	3.229	7.979	1.00	44.48		H0
ANISOU14309 H ALA E 103	6460	5650	4790	-410	1350	190	H0
ATOM 14310 HA ALA E 103	-14.809	2.373	9.278	1.00	44.47		H0
ANISOU14310 HA ALA E 103	6040	5790	5060	-580	1490	150	H0
ATOM 14311 HB1 ALA E 103	-14.646	0.851	7.509	1.00	44.64		H0
ANISOU14311 HB1 ALA E 103	6050	5850	5050	-580	1680	130	H0
ATOM 14312 HB2 ALA E 103	-16.085	0.744	8.167	1.00	43.33		H0
ANISOU14312 HB2 ALA E 103	5910	5700	4850	-420	1500	140	H0
ATOM 14313 HB3 ALA E 103	-15.895	1.522	6.797	1.00	44.67		H0
ANISOU14313 HB3 ALA E 103	6320	5760	4890	-520	1590	160	H0
ATOM 14314 N ARG E 104	-13.005	3.293	7.730	1.00	47.27		N0
ANISOU14314 N ARG E 104	6530	6060	5370	-890	1750	160	N0
ATOM 14315 CA ARG E 104	-11.972	3.940	6.885	1.00	49.09		C0
ANISOU14315 CA ARG E 104	6850	6240	5560	-1090	1910	170	C0
ATOM 14316 C ARG E 104	-11.625	2.960	5.752	1.00	49.53		C0
ANISOU14316 C ARG E 104	6860	6350	5600	-1100	2070	150	C0
ATOM 14317 O ARG E 104	-11.166	1.838	6.066	1.00	49.46		O0
ANISOU14317 O ARG E 104	6610	6460	5730	-1040	2130	120	O0
ATOM 14318 CB ARG E 104	-10.783	4.328	7.770	1.00	49.85		C0
ANISOU14318 CB ARG E 104	6760	6400	5780	-1230	1940	150	C0
ATOM 14319 CG ARG E 104	-9.852	5.371	7.174	1.00	52.17		C0
ANISOU14319 CG ARG E 104	7180	6620	6020	-1470	2060	160	C0
ATOM 14320 CD ARG E 104	-10.476	6.742	6.991	1.00	52.76		C0
ANISOU14320 CD ARG E 104	7590	6510	5940	-1520	1980	200	C0
ATOM 14321 NE ARG E 104	-9.489	7.693	6.504	1.00	54.61		N0
ANISOU14321 NE ARG E 104	7940	6680	6130	-1780	2110	210	N0
ATOM 14322 CZ ARG E 104	-9.754	8.907	6.032	1.00	56.11		C0
ANISOU14322 CZ ARG E 104	8470	6680	6180	-1880	2100	260	C0
ATOM 14323 NH1 ARG E 104	-10.996	9.356	5.967	1.00	55.56		N0
ANISOU14323 NH1 ARG E 104	8650	6470	5990	-1710	1960	290	N0
ATOM 14324 NH2 ARG E 104	-8.761	9.671	5.611	1.00	58.36		N0
ANISOU14324 NH2 ARG E 104	8830	6910	6430	-2140	2230	270	N0
ATOM 14325 H ARG E 104	-12.662	2.700	8.330	1.00	46.85		H0
ANISOU14325 H ARG E 104	6290	6090	5420	-860	1750	140	H0
ATOM 14326 HA ARG E 104	-12.357	4.755	6.492	1.00	49.60		H0
ANISOU14326 HA ARG E 104	7130	6200	5510	-1120	1880	200	H0
ATOM 14327 HB2 ARG E 104	-11.129	4.668	8.621	1.00	49.35		H0
ANISOU14327 HB2 ARG E 104	6700	6320	5730	-1180	1820	150	H0
ATOM 14328 HB3 ARG E 104	-10.264	3.520	7.961	1.00	49.79		H0
ANISOU14328 HB3 ARG E 104	6540	6500	5880	-1210	1990	130	H0
ATOM 14329 HG2 ARG E 104	-9.066	5.462	7.754	1.00	52.66		H0
ANISOU14329 HG2 ARG E 104	7080	6750	6180	-1560	2080	140	H0
ATOM 14330 HG3 ARG E 104	-9.538	5.053	6.300	1.00	52.76		H0
ANISOU14330 HG3 ARG E 104	7270	6710	6070	-1520	2190	160	H0
ATOM 14331 HD2 ARG E 104	-11.215	6.681	6.350	1.00	52.36		H0
ANISOU14331 HD2 ARG E 104	7700	6400	5800	-1430	1970	230	H0
ATOM 14332 HD3 ARG E 104	-10.838	7.054	7.848	1.00	52.08		H0
ANISOU14332 HD3 ARG E 104	7500	6400	5880	-1460	1860	190	H0
ATOM 14333 HE ARG E 104	-8.652	7.446	6.519	1.00	55.44		H0
ANISOU14333 HE ARG E 104	7880	6870	6320	-1880	2200	190	H0
ATOM 14334 HH11 ARG E 104	-11.663	8.856	6.243	1.00	54.19		H0
ANISOU14334 HH11 ARG E 104	8410	6340	5840	-1540	1870	280	H0
ATOM 14335 HH12 ARG E 104	-11.154	10.162	5.652	1.00	56.47		H0
ANISOU14335 HH12 ARG E 104	9000	6450	6010	-1760	1940	330	H0

ATOM 14336	HH21	ARG E 104	-7.932	9.376	5.650	1.00	58.93		H0
ANISOU14336	HH21	ARG E 104	8720	7090	6580	-2250	2330	240	H0
ATOM 14337	HH22	ARG E 104	-8.928	10.473	5.296	1.00	59.26		H0
ANISOU14337	HH22	ARG E 104	9190	6890	6440	-2210	2230	300	H0
ATOM 14338	N	VAL E 105	-11.898	3.346	4.498	1.00	49.58		N0
ANISOU14338	N	VAL E 105	7120	6260	5450	-1150	2150	180	N0
ATOM 14339	CA	VAL E 105	-11.625	2.538	3.271	1.00	50.20		C0
ANISOU14339	CA	VAL E 105	7230	6370	5480	-1180	2310	160	C0
ATOM 14340	C	VAL E 105	-10.441	3.170	2.524	1.00	52.06		C0
ANISOU14340	C	VAL E 105	7520	6590	5670	-1400	2520	160	C0
ATOM 14341	O	VAL E 105	-10.540	4.343	2.123	1.00	52.98		O0
ANISOU14341	O	VAL E 105	7890	6580	5660	-1520	2510	210	O0
ATOM 14342	CB	VAL E 105	-12.874	2.424	2.373	1.00	49.71		C0
ANISOU14342	CB	VAL E 105	7410	6230	5240	-1080	2240	180	C0
ATOM 14343	CG1	VAL E 105	-12.625	1.561	1.144	1.00	50.36		C0
ANISOU14343	CG1	VAL E 105	7540	6350	5250	-1110	2410	150	C0
ATOM 14344	CG2	VAL E 105	-14.073	1.898	3.147	1.00	47.85		C0
ANISOU14344	CG2	VAL E 105	7110	6030	5040	-880	2040	180	C0
ATOM 14345	H	VAL E 105	-12.279	4.152	4.313	1.00	50.14		H0
ANISOU14345	H	VAL E 105	7380	6240	5430	-1180	2090	210	H0
ATOM 14346	HA	VAL E 105	-11.369	1.642	3.549	1.00	49.64		H0
ANISOU14346	HA	VAL E 105	6960	6390	5510	-1120	2350	120	H0
ATOM 14347	HB	VAL E 105	-13.096	3.335	2.060	1.00	50.40		H0
ANISOU14347	HB	VAL E 105	7700	6230	5220	-1130	2210	220	H0
ATOM 14348	HG11	VAL E 105	-12.000	2.012	0.551	1.00	51.79		H0
ANISOU14348	HG11	VAL E 105	7810	6500	5370	-1240	2530	160	H0
ATOM 14349	HG12	VAL E 105	-13.464	1.411	0.675	1.00	50.12		H0
ANISOU14349	HG12	VAL E 105	7650	6280	5120	-1040	2330	160	H0
ATOM 14350	HG13	VAL E 105	-12.251	0.705	1.418	1.00	50.03		H0
ANISOU14350	HG13	VAL E 105	7300	6380	5320	-1070	2460	110	H0
ATOM 14351	HG21	VAL E 105	-13.836	1.062	3.585	1.00	47.19		H0
ANISOU14351	HG21	VAL E 105	6830	6030	5070	-840	2060	140	H0
ATOM 14352	HG22	VAL E 105	-14.813	1.744	2.535	1.00	47.78		H0
ANISOU14352	HG22	VAL E 105	7230	6000	4930	-830	2000	190	H0
ATOM 14353	HG23	VAL E 105	-14.339	2.551	3.818	1.00	47.50		H0
ANISOU14353	HG23	VAL E 105	7080	5960	5010	-860	1940	200	H0
ATOM 14354	N	VAL E 106	-9.364	2.402	2.350	1.00	52.94		N0
ANISOU14354	N	VAL E 106	7400	6820	5900	-1460	2700	110	N0
ATOM 14355	CA	VAL E 106	-8.110	2.816	1.654	1.00	55.33		C0
ANISOU14355	CA	VAL E 106	7690	7150	6190	-1680	2930	100	C0
ATOM 14356	C	VAL E 106	-8.240	2.459	0.165	1.00	56.46		C0
ANISOU14356	C	VAL E 106	8030	7250	6170	-1710	3090	90	C0
ATOM 14357	O	VAL E 106	-9.058	1.577	-0.156	1.00	55.14		O0
ANISOU14357	O	VAL E 106	7920	7080	5960	-1550	3040	80	O0
ATOM 14358	CB	VAL E 106	-6.890	2.146	2.316	1.00	55.77		C0
ANISOU14358	CB	VAL E 106	7350	7370	6460	-1700	3030	40	C0
ATOM 14359	CG1	VAL E 106	-5.575	2.681	1.769	1.00	58.02		C0
ANISOU14359	CG1	VAL E 106	7570	7710	6760	-1940	3260	30	C0
ATOM 14360	CG2	VAL E 106	-6.939	2.281	3.832	1.00	54.43		C0
ANISOU14360	CG2	VAL E 106	6990	7250	6440	-1630	2840	50	C0
ATOM 14361	H	VAL E 106	-9.336	1.540	2.643	1.00	52.24		H0
ANISOU14361	H	VAL E 106	7150	6800	5900	-1360	2700	80	H0
ATOM 14362	HA	VAL E 106	-8.016	3.782	1.735	1.00	55.98		H0
ANISOU14362	HA	VAL E 106	7890	7160	6220	-1800	2900	140	H0

ATOM 14363 HB VAL E 106	-6.932	1.181	2.101	1.00	55.34		H0
ANISOU14363 HB VAL E 106	7210	7370	6450	-1590	3080	10	H0
ATOM 14364 HG11 VAL E 106	-5.413	2.305	0.886	1.00	58.95		H0
ANISOU14364 HG11 VAL E 106	7750	7840	6810	-1960	3410	10	H0
ATOM 14365 HG12 VAL E 106	-4.847	2.431	2.364	1.00	58.49		H0
ANISOU14365 HG12 VAL E 106	7380	7880	6960	-1960	3280	0	H0
ATOM 14366 HG13 VAL E 106	-5.621	3.651	1.704	1.00	58.72		H0
ANISOU14366 HG13 VAL E 106	7830	7720	6760	-2070	3240	70	H0
ATOM 14367 HG21 VAL E 106	-7.159	3.199	4.069	1.00	54.54		H0
ANISOU14367 HG21 VAL E 106	7140	7180	6400	-1710	2760	80	H0
ATOM 14368 HG22 VAL E 106	-6.072	2.050	4.208	1.00	55.19		H0
ANISOU14368 HG22 VAL E 106	6860	7450	6660	-1680	2900	20	H0
ATOM 14369 HG23 VAL E 106	-7.616	1.683	4.191	1.00	52.99		H0
ANISOU14369 HG23 VAL E 106	6790	7070	6280	-1470	2730	50	H0
ATOM 14370 N SER E 107	-7.459	3.112	-0.702	1.00	58.81		N0
ANISOU14370 N SER E 107	8460	7520	6370	-1930	3290	100	N0
ATOM 14371 CA SER E 107	-7.545	3.024	-2.188	1.00	60.92		C0
ANISOU14371 CA SER E 107	8980	7740	6430	-2000	3450	110	C0
ATOM 14372 C SER E 107	-7.248	1.606	-2.704	1.00	61.64		C0
ANISOU14372 C SER E 107	8910	7940	6580	-1900	3610	20	C0
ATOM 14373 O SER E 107	-7.667	1.311	-3.840	1.00	62.56		O0
ANISOU14373 O SER E 107	9260	8000	6510	-1890	3690	20	O0
ATOM 14374 CB SER E 107	-6.627	4.024	-2.844	1.00	63.10		C0
ANISOU14374 CB SER E 107	9390	7980	6610	-2270	3650	140	C0
ATOM 14375 OG SER E 107	-5.274	3.763	-2.508	1.00	64.03		O0
ANISOU14375 OG SER E 107	9170	8250	6910	-2390	3830	80	O0
ATOM 14376 H SER E 107	-6.804	3.685	-0.434	1.00	59.87		H0
ANISOU14376 H SER E 107	8530	7670	6550	-2060	3340	110	H0
ATOM 14377 HA SER E 107	-8.479	3.250	-2.446	1.00	60.15		H0
ANISOU14377 HA SER E 107	9110	7540	6210	-1930	3320	150	H0
ATOM 14378 HB2 SER E 107	-6.738	3.978	-3.820	1.00	64.11		H0
ANISOU14378 HB2 SER E 107	9710	8070	6590	-2320	3750	140	H0
ATOM 14379 HB3 SER E 107	-6.869	4.931	-2.550	1.00	63.15		H0
ANISOU14379 HB3 SER E 107	9530	7890	6570	-2340	3540	190	H0
ATOM 14380 N ASP E 108	-6.540	0.773	-1.930	1.00	61.87		N0
ANISOU14380 N ASP E 108	8570	8110	6830	-1820	3660	-40	N0
ATOM 14381 CA ASP E 108	-6.173	-0.617	-2.321	1.00	62.76		C0
ANISOU14381 CA ASP E 108	8510	8310	7020	-1700	3810	-130	C0
ATOM 14382 C ASP E 108	-7.275	-1.602	-1.895	1.00	60.74		C0
ANISOU14382 C ASP E 108	8250	8030	6800	-1460	3620	-140	C0
ATOM 14383 O ASP E 108	-7.135	-2.797	-2.209	1.00	61.04		O0
ANISOU14383 O ASP E 108	8200	8110	6880	-1350	3720	-210	O0
ATOM 14384 CB ASP E 108	-4.798	-1.011	-1.766	1.00	64.16		C0
ANISOU14384 CB ASP E 108	8300	8650	7430	-1720	3960	-190	C0
ATOM 14385 CG ASP E 108	-4.712	-1.137	-0.252	1.00	62.92		C0
ANISOU14385 CG ASP E 108	7860	8560	7490	-1610	3770	-170	C0
ATOM 14386 OD1 ASP E 108	-5.700	-0.806	0.436	1.00	60.72		O0
ANISOU14386 OD1 ASP E 108	7690	8200	7180	-1540	3520	-120	O0
ATOM 14387 OD2 ASP E 108	-3.646	-1.566	0.227	1.00	64.36		O0
ANISOU14387 OD2 ASP E 108	7700	8890	7860	-1600	3860	-220	O0
ATOM 14388 H ASP E 108	-6.226	1.015	-1.111	1.00	61.52		H0
ANISOU14388 H ASP E 108	8360	8100	6910	-1830	3590	-30	H0
ATOM 14389 HA ASP E 108	-6.109	-0.644	-3.304	1.00	63.93		H0
ANISOU14389 HA ASP E 108	8820	8430	7040	-1760	3950	-140	H0

ATOM 14390 HB2 ASP E 108	-4.539	-1.871	-2.155	1.00	64.72		H0
ANISOU14390 HB2 ASP E 108	8290	8770	7530	-1640	4090	-240	H0
ATOM 14391 HB3 ASP E 108	-4.143	-0.342	-2.051	1.00	65.73		H0
ANISOU14391 HB3 ASP E 108	8500	8880	7600	-1890	4080	-180	H0
ATOM 14392 N GLY E 109	-8.318	-1.126	-1.206	1.00	59.26		N0
ANISOU14392 N GLY E 109	8160	7770	6580	-1390	3360	-80	N0
ATOM 14393 CA GLY E 109	-9.512	-1.916	-0.841	1.00	57.46		C0
ANISOU14393 CA GLY E 109	7970	7510	6360	-1200	3160	-80	C0
ATOM 14394 C GLY E 109	-9.520	-2.331	0.623	1.00	56.22		C0
ANISOU14394 C GLY E 109	7530	7420	6410	-1070	3020	-80	C0
ATOM 14395 O GLY E 109	-10.494	-3.002	1.030	1.00	54.03		O0
ANISOU14395 O GLY E 109	7260	7130	6140	-920	2860	-80	O0
ATOM 14396 H GLY E 109	-8.347	-0.269	-0.904	1.00	59.19		H0
ANISOU14396 H GLY E 109	8210	7730	6550	-1460	3290	-30	H0
ATOM 14397 HA2 GLY E 109	-10.320	-1.377	-1.030	1.00	57.00		H0
ANISOU14397 HA2 GLY E 109	8100	7380	6170	-1200	3050	-40	H0
ATOM 14398 HA3 GLY E 109	-9.549	-2.726	-1.409	1.00	57.81		H0
ANISOU14398 HA3 GLY E 109	8030	7560	6370	-1150	3250	-130	H0
ATOM 14399 N GLU E 110	-8.487	-1.963	1.392	1.00	57.34		N0
ANISOU14399 N GLU E 110	7440	7640	6700	-1130	3060	-80	N0
ATOM 14400 CA GLU E 110	-8.413	-2.238	2.852	1.00	56.87		C0
ANISOU14400 CA GLU E 110	7130	7650	6830	-1030	2900	-70	C0
ATOM 14401 C GLU E 110	-9.555	-1.493	3.555	1.00	55.16		C0
ANISOU14401 C GLU E 110	7060	7360	6540	-990	2660	-10	C0
ATOM 14402 O GLU E 110	-9.809	-0.324	3.208	1.00	54.73		O0
ANISOU14402 O GLU E 110	7210	7220	6360	-1110	2630	30	O0
ATOM 14403 CB GLU E 110	-7.065	-1.830	3.452	1.00	58.74		C0
ANISOU14403 CB GLU E 110	7110	7990	7220	-1140	2980	-80	C0
ATOM 14404 CG GLU E 110	-6.905	-2.287	4.896	1.00	58.82		C0
ANISOU14404 CG GLU E 110	6860	8080	7410	-1020	2830	-80	C0
ATOM 14405 CD GLU E 110	-5.653	-1.820	5.622	1.00	60.79		C0
ANISOU14405 CD GLU E 110	6840	8450	7810	-1120	2860	-80	C0
ATOM 14406 OE1 GLU E 110	-4.806	-1.163	4.986	1.00	63.31		O0
ANISOU14406 OE1 GLU E 110	7150	8800	8100	-1310	3020	-90	O0
ATOM 14407 OE2 GLU E 110	-5.535	-2.113	6.833	1.00	61.08		O0
ANISOU14407 OE2 GLU E 110	6680	8550	7970	-1040	2710	-70	O0
ATOM 14408 H GLU E 110	-7.762	-1.521	1.065	1.00	58.71		H0
ANISOU14408 H GLU E 110	7600	7830	6870	-1250	3180	-80	H0
ATOM 14409 HA GLU E 110	-8.538	-3.205	2.988	1.00	56.33		H0
ANISOU14409 HA GLU E 110	6970	7600	6820	-910	2900	-100	H0
ATOM 14410 HB2 GLU E 110	-6.346	-2.218	2.910	1.00	60.16		H0
ANISOU14410 HB2 GLU E 110	7210	8220	7430	-1160	3150	-120	H0
ATOM 14411 HB3 GLU E 110	-6.983	-0.854	3.412	1.00	59.32		H0
ANISOU14411 HB3 GLU E 110	7280	8030	7230	-1260	2970	-50	H0
ATOM 14412 HG2 GLU E 110	-7.681	-1.979	5.410	1.00	57.41		H0
ANISOU14412 HG2 GLU E 110	6770	7850	7190	-980	2670	-40	H0
ATOM 14413 HG3 GLU E 110	-6.916	-3.268	4.914	1.00	58.46		H0
ANISOU14413 HG3 GLU E 110	6720	8060	7430	-890	2850	-100	H0
ATOM 14414 N VAL E 111	-10.216	-2.160	4.502	1.00	53.77		N0
ANISOU14414 N VAL E 111	6780	7200	6450	-840	2500	-10	N0
ATOM 14415 CA VAL E 111	-11.306	-1.583	5.340	1.00	52.62		C0
ANISOU14415 CA VAL E 111	6720	7010	6260	-780	2280	30	C0
ATOM 14416 C VAL E 111	-10.859	-1.631	6.803	1.00	52.45		C0
ANISOU14416 C VAL E 111	6460	7070	6400	-740	2180	40	C0

ATOM 14417 O VAL E 111	-10.472	-2.718	7.267	1.00	51.88		O0
ANISOU14417 O VAL E 111	6180	7070	6460	-650	2200	20	O0
ATOM 14418 CB VAL E 111	-12.634	-2.332	5.121	1.00	51.52		C0
ANISOU14418 CB VAL E 111	6690	6840	6040	-640	2180	30	C0
ATOM 14419 CG1 VAL E 111	-13.738	-1.808	6.033	1.00	49.80		C0
ANISOU14419 CG1 VAL E 111	6520	6610	5800	-560	1960	70	C0
ATOM 14420 CG2 VAL E 111	-13.059	-2.279	3.659	1.00	52.28		C0
ANISOU14420 CG2 VAL E 111	7030	6870	5970	-680	2260	20	C0
ATOM 14421 H VAL E 111	-10.037	-3.031	4.700	1.00	53.62		H0
ANISOU14421 H VAL E 111	6630	7230	6510	-760	2530	-40	H0
ATOM 14422 HA VAL E 111	-11.431	-0.652	5.084	1.00	53.04		H0
ANISOU14422 HA VAL E 111	6920	7010	6230	-850	2260	60	H0
ATOM 14423 HB VAL E 111	-12.478	-3.280	5.354	1.00	51.15		H0
ANISOU14423 HB VAL E 111	6510	6840	6080	-570	2200	10	H0
ATOM 14424 HG11 VAL E 111	-13.636	-2.192	6.921	1.00	49.29		H0
ANISOU14424 HG11 VAL E 111	6300	6590	5830	-510	1910	60	H0
ATOM 14425 HG12 VAL E 111	-14.606	-2.057	5.671	1.00	49.45		H0
ANISOU14425 HG12 VAL E 111	6570	6540	5670	-510	1910	70	H0
ATOM 14426 HG13 VAL E 111	-13.678	-0.839	6.090	1.00	50.25		H0
ANISOU14426 HG13 VAL E 111	6660	6620	5810	-620	1940	90	H0
ATOM 14427 HG21 VAL E 111	-13.077	-1.354	3.359	1.00	52.80		H0
ANISOU14427 HG21 VAL E 111	7230	6890	5950	-760	2250	50	H0
ATOM 14428 HG22 VAL E 111	-13.946	-2.668	3.563	1.00	51.56		H0
ANISOU14428 HG22 VAL E 111	7000	6770	5820	-610	2170	20	H0
ATOM 14429 HG23 VAL E 111	-12.426	-2.783	3.118	1.00	53.11		H0
ANISOU14429 HG23 VAL E 111	7090	6990	6090	-710	2400	-10	H0
ATOM 14430 N LEU E 112	-10.897	-0.483	7.484	1.00	53.21		N0
ANISOU14430 N LEU E 112	6600	7140	6480	-810	2080	70	N0
ATOM 14431 CA LEU E 112	-10.634	-0.357	8.941	1.00	53.14		C0
ANISOU14431 CA LEU E 112	6410	7200	6580	-780	1950	70	C0
ATOM 14432 C LEU E 112	-11.933	0.077	9.631	1.00	51.72		C0
ANISOU14432 C LEU E 112	6360	6960	6330	-690	1760	100	C0
ATOM 14433 O LEU E 112	-12.367	1.220	9.407	1.00	52.69		O0
ANISOU14433 O LEU E 112	6690	6990	6340	-750	1720	110	O0
ATOM 14434 CB LEU E 112	-9.512	0.658	9.181	1.00	55.12		C0
ANISOU14434 CB LEU E 112	6600	7470	6870	-960	2000	70	C0
ATOM 14435 CG LEU E 112	-8.130	0.276	8.649	1.00	57.71		C0
ANISOU14435 CG LEU E 112	6740	7890	7300	-1060	2180	40	C0
ATOM 14436 CD1 LEU E 112	-7.946	0.720	7.203	1.00	58.88		C0
ANISOU14436 CD1 LEU E 112	7080	7970	7330	-1190	2360	40	C0
ATOM 14437 CD2 LEU E 112	-7.031	0.872	9.516	1.00	59.19		C0
ANISOU14437 CD2 LEU E 112	6730	8160	7600	-1200	2160	30	C0
ATOM 14438 H LEU E 112	-11.090	0.312	7.084	1.00	53.50		H0
ANISOU14438 H LEU E 112	6790	7110	6420	-880	2080	80	H0
ATOM 14439 HA LEU E 112	-10.364	-1.236	9.291	1.00	52.93		H0
ANISOU14439 HA LEU E 112	6220	7240	6650	-710	1960	60	H0
ATOM 14440 HB2 LEU E 112	-9.775	1.506	8.773	1.00	55.53		H0
ANISOU14440 HB2 LEU E 112	6840	7430	6830	-1040	2000	80	H0
ATOM 14441 HB3 LEU E 112	-9.440	0.809	10.145	1.00	54.89		H0
ANISOU14441 HB3 LEU E 112	6480	7470	6900	-950	1890	70	H0
ATOM 14442 HG LEU E 112	-8.048	-0.710	8.681	1.00	57.29		H0
ANISOU14442 HG LEU E 112	6560	7890	7320	-960	2210	30	H0
ATOM 14443 HD11 LEU E 112	-8.606	0.280	6.639	1.00	58.27		H0
ANISOU14443 HD11 LEU E 112	7110	7840	7180	-1110	2370	40	H0

ATOM 14444 HD12 LEU E 112	-7.053	0.481	6.901	1.00	60.11		H0
ANISOU14444 HD12 LEU E 112	7100	8190	7550	-1250	2490	10	H0
ATOM 14445 HD13 LEU E 112	-8.060	1.684	7.142	1.00	59.27		H0
ANISOU14445 HD13 LEU E 112	7270	7940	7300	-1290	2330	60	H0
ATOM 14446 HD21 LEU E 112	-7.187	1.825	9.629	1.00	59.30		H0
ANISOU14446 HD21 LEU E 112	6880	8110	7540	-1290	2110	50	H0
ATOM 14447 HD22 LEU E 112	-6.168	0.734	9.088	1.00	60.41		H0
ANISOU14447 HD22 LEU E 112	6770	8380	7800	-1270	2290	10	H0
ATOM 14448 HD23 LEU E 112	-7.033	0.438	10.386	1.00	58.51		H0
ANISOU14448 HD23 LEU E 112	6510	8140	7590	-1110	2060	30	H0
ATOM 14449 N TYR E 113	-12.539	-0.820	10.414	1.00	50.14		N0
ANISOU14449 N TYR E 113	6060	6810	6180	-550	1660	100	N0
ATOM 14450 CA TYR E 113	-13.734	-0.545	11.250	1.00	48.57		C0
ANISOU14450 CA TYR E 113	5930	6600	5930	-450	1500	110	C0
ATOM 14451 C TYR E 113	-13.360	-0.769	12.718	1.00	47.21		C0
ANISOU14451 C TYR E 113	5570	6510	5860	-420	1410	110	C0
ATOM 14452 O TYR E 113	-13.204	-1.932	13.120	1.00	45.96		O0
ANISOU14452 O TYR E 113	5260	6420	5790	-350	1410	110	O0
ATOM 14453 CB TYR E 113	-14.915	-1.415	10.813	1.00	48.37		C0
ANISOU14453 CB TYR E 113	5970	6570	5840	-330	1470	110	C0
ATOM 14454 CG TYR E 113	-16.175	-1.183	11.610	1.00	48.02		C0
ANISOU14454 CG TYR E 113	5970	6530	5750	-230	1320	120	C0
ATOM 14455 CD1 TYR E 113	-16.656	0.100	11.815	1.00	48.89		C0
ANISOU14455 CD1 TYR E 113	6220	6580	5770	-240	1240	120	C0
ATOM 14456 CD2 TYR E 113	-16.883	-2.234	12.169	1.00	47.70		C0
ANISOU14456 CD2 TYR E 113	5840	6550	5740	-140	1260	120	C0
ATOM 14457 CE1 TYR E 113	-17.805	0.333	12.552	1.00	48.84		C0
ANISOU14457 CE1 TYR E 113	6240	6590	5720	-130	1120	120	C0
ATOM 14458 CE2 TYR E 113	-18.039	-2.019	12.904	1.00	47.20		C0
ANISOU14458 CE2 TYR E 113	5800	6510	5620	-60	1140	120	C0
ATOM 14459 CZ TYR E 113	-18.499	-0.730	13.099	1.00	47.85		C0
ANISOU14459 CZ TYR E 113	6000	6550	5630	-40	1070	120	C0
ATOM 14460 OH TYR E 113	-19.633	-0.497	13.822	1.00	49.77		O0
ANISOU14460 OH TYR E 113	6260	6830	5820	50	970	110	O0
ATOM 14461 H TYR E 113	-12.256	-1.683	10.490	1.00	50.06		H0
ANISOU14461 H TYR E 113	5930	6850	6240	-500	1700	90	H0
ATOM 14462 HA TYR E 113	-13.985	0.405	11.134	1.00	48.85		H0
ANISOU14462 HA TYR E 113	6100	6570	5890	-490	1470	120	H0
ATOM 14463 HB2 TYR E 113	-15.100	-1.237	9.867	1.00	48.70		H0
ANISOU14463 HB2 TYR E 113	6130	6560	5810	-360	1520	110	H0
ATOM 14464 HB3 TYR E 113	-14.655	-2.357	10.895	1.00	48.20		H0
ANISOU14464 HB3 TYR E 113	5830	6590	5890	-300	1510	100	H0
ATOM 14465 HD1 TYR E 113	-16.190	0.833	11.448	1.00	49.61		H0
ANISOU14465 HD1 TYR E 113	6390	6620	5840	-310	1280	130	H0
ATOM 14466 HD2 TYR E 113	-16.576	-3.117	12.043	1.00	47.63		H0
ANISOU14466 HD2 TYR E 113	5750	6570	5780	-130	1310	110	H0
ATOM 14467 HE1 TYR E 113	-18.117	1.215	12.679	1.00	48.91		H0
ANISOU14467 HE1 TYR E 113	6350	6550	5670	-120	1070	120	H0
ATOM 14468 HE2 TYR E 113	-18.507	-2.748	13.276	1.00	46.76		H0
ANISOU14468 HE2 TYR E 113	5680	6510	5580	-10	1110	120	H0
ATOM 14469 N MET E 114	-13.224	0.318	13.484	1.00	47.27		N0
ANISOU14469 N MET E 114	5620	6500	5850	-490	1330	110	N0
ATOM 14470 CA MET E 114	-12.757	0.303	14.898	1.00	47.87		C0
ANISOU14470 CA MET E 114	5540	6650	6000	-490	1230	110	C0

ATOM 14471 C MET E 114	-13.840	0.898	15.798	1.00	45.82		C0
ANISOU14471 C MET E 114	5390	6360	5660	-420	1090	100	C0
ATOM 14472 O MET E 114	-13.636	1.952	16.391	1.00	45.83		O0
ANISOU14472 O MET E 114	5460	6330	5630	-490	1040	90	O0
ATOM 14473 CB MET E 114	-11.462	1.108	15.065	1.00	50.92		C0
ANISOU14473 CB MET E 114	5860	7050	6440	-650	1260	100	C0
ATOM 14474 CG MET E 114	-10.520	1.074	13.864	1.00	53.41		C0
ANISOU14474 CG MET E 114	6140	7360	6790	-760	1430	90	C0
ATOM 14475 SD MET E 114	-9.759	-0.542	13.565	1.00	56.41		S0
ANISOU14475 SD MET E 114	6270	7860	7310	-680	1530	90	S0
ATOM 14476 CE MET E 114	-8.112	-0.050	13.054	1.00	58.06		C0
ANISOU14476 CE MET E 114	6330	8130	7600	-870	1670	70	C0
ATOM 14477 H MET E 114	-13.414	1.155	13.178	1.00	47.80		H0
ANISOU14477 H MET E 114	5820	6490	5840	-530	1320	110	H0
ATOM 14478 HA MET E 114	-12.601	-0.631	15.168	1.00	47.50		H0
ANISOU14478 HA MET E 114	5360	6670	6020	-430	1230	120	H0
ATOM 14479 HB2 MET E 114	-11.694	2.038	15.250	1.00	51.04		H0
ANISOU14479 HB2 MET E 114	6000	7000	6390	-710	1220	90	H0
ATOM 14480 HB3 MET E 114	-10.985	0.765	15.846	1.00	51.00		H0
ANISOU14480 HB3 MET E 114	5720	7140	6520	-650	1210	100	H0
ATOM 14481 HG2 MET E 114	-11.015	1.341	13.060	1.00	53.58		H0
ANISOU14481 HG2 MET E 114	6320	7310	6730	-770	1470	90	H0
ATOM 14482 HG3 MET E 114	-9.807	1.732	14.004	1.00	54.74		H0
ANISOU14482 HG3 MET E 114	6290	7540	6970	-890	1440	80	H0
ATOM 14483 HE1 MET E 114	-7.669	-0.798	12.634	1.00	58.65		H0
ANISOU14483 HE1 MET E 114	6290	8250	7740	-830	1760	60	H0
ATOM 14484 HE2 MET E 114	-8.175	0.681	12.428	1.00	58.65		H0
ANISOU14484 HE2 MET E 114	6550	8140	7600	-970	1730	60	H0
ATOM 14485 HE3 MET E 114	-7.607	0.230	13.828	1.00	58.75		H0
ANISOU14485 HE3 MET E 114	6310	8280	7740	-920	1610	60	H0
ATOM 14486 N PRO E 115	-15.033	0.269	15.924	1.00	43.66		N0
ANISOU14486 N PRO E 115	5150	6100	5340	-280	1050	110	N0
ATOM 14487 CA PRO E 115	-16.083	0.803	16.791	1.00	42.87		C0
ANISOU14487 CA PRO E 115	5130	5990	5160	-210	940	100	C0
ATOM 14488 C PRO E 115	-15.666	0.734	18.263	1.00	42.20		C0
ANISOU14488 C PRO E 115	4930	5980	5120	-220	850	90	C0
ATOM 14489 O PRO E 115	-15.004	-0.211	18.627	1.00	41.90		O0
ANISOU14489 O PRO E 115	4730	6020	5170	-220	860	120	O0
ATOM 14490 CB PRO E 115	-17.288	-0.118	16.532	1.00	42.06		C0
ANISOU14490 CB PRO E 115	5030	5920	5030	-80	930	110	C0
ATOM 14491 CG PRO E 115	-16.659	-1.410	16.055	1.00	42.13		C0
ANISOU14491 CG PRO E 115	4910	5970	5130	-90	1010	130	C0
ATOM 14492 CD PRO E 115	-15.450	-0.973	15.251	1.00	42.85		C0
ANISOU14492 CD PRO E 115	5000	6020	5260	-210	1100	120	C0
ATOM 14493 HA PRO E 115	-16.301	1.732	16.529	1.00	43.21		H0
ANISOU14493 HA PRO E 115	5310	5960	5140	-230	930	90	H0
ATOM 14494 HB2 PRO E 115	-17.807	-0.262	17.353	1.00	41.69		H0
ANISOU14494 HB2 PRO E 115	4950	5920	4970	-30	870	100	H0
ATOM 14495 HB3 PRO E 115	-17.878	0.258	15.845	1.00	42.08		H0
ANISOU14495 HB3 PRO E 115	5140	5880	4970	-60	930	100	H0
ATOM 14496 HG2 PRO E 115	-16.388	-1.966	16.814	1.00	41.92		H0
ANISOU14496 HG2 PRO E 115	4770	6000	5150	-80	980	140	H0
ATOM 14497 HG3 PRO E 115	-17.284	-1.918	15.499	1.00	41.66		H0
ANISOU14497 HG3 PRO E 115	4880	5910	5040	-50	1030	130	H0

ATOM 14498	HD2 PRO E 115	-14.745	-1.644	15.281	1.00	43.21	H0
ANISOU14498	HD2 PRO E 115	4930	6110	5380	-220	1150 130	H0
ATOM 14499	HD3 PRO E 115	-15.689	-0.803	14.322	1.00	43.09	H0
ANISOU14499	HD3 PRO E 115	5130	6000	5240	-220	1150 120	H0
ATOM 14500	N SER E 116	-16.035	1.739	19.057	1.00	42.39	N0
ANISOU14500	N SER E 116	5060	5970	5070	-220	770 70	N0
ATOM 14501	CA SER E 116	-15.974	1.665	20.538	1.00	42.52	C0
ANISOU14501	CA SER E 116	5000	6060	5090	-210	680 60	C0
ATOM 14502	C SER E 116	-17.267	1.011	21.029	1.00	41.72	C0
ANISOU14502	C SER E 116	4900	6020	4940	-70	650 60	C0
ATOM 14503	O SER E 116	-18.358	1.518	20.700	1.00	40.74	O0
ANISOU14503	O SER E 116	4900	5850	4730	10	640 40	O0
ATOM 14504	CB SER E 116	-15.746	3.000	21.181	1.00	43.48	C0
ANISOU14504	CB SER E 116	5250	6120	5150	-280	620 10	C0
ATOM 14505	OG SER E 116	-15.443	2.834	22.561	1.00	44.10	O0
ANISOU14505	OG SER E 116	5240	6280	5230	-300	530 0	O0
ATOM 14506	H SER E 116	-16.350	2.539	18.754	1.00	42.70	H0
ANISOU14506	H SER E 116	5230	5940	5060	-220	770 50	H0
ATOM 14507	HA SER E 116	-15.215	1.071	20.783	1.00	42.72	H0
ANISOU14507	HA SER E 116	4900	6150	5190	-240	680 80	H0
ATOM 14508	HB2 SER E 116	-15.001	3.460	20.732	1.00	44.24	H0
ANISOU14508	HB2 SER E 116	5360	6180	5270	-380	650 10	H0
ATOM 14509	HB3 SER E 116	-16.554	3.553	21.086	1.00	43.45	H0
ANISOU14509	HB3 SER E 116	5370	6060	5070	-220	610 -10	H0
ATOM 14510	N ILE E 117	-17.135	-0.077	21.785	1.00	42.01	N0
ANISOU14510	N ILE E 117	4800	6150	5020	-40	620 90	N0
ATOM 14511	CA ILE E 117	-18.268	-0.952	22.199	1.00	42.27	C0
ANISOU14511	CA ILE E 117	4800	6240	5010	60	610 110	C0
ATOM 14512	C ILE E 117	-18.296	-1.041	23.733	1.00	43.30	C0
ANISOU14512	C ILE E 117	4900	6450	5100	70	530 110	C0
ATOM 14513	O ILE E 117	-17.218	-1.165	24.343	1.00	43.42	O0
ANISOU14513	O ILE E 117	4840	6490	5170	0	480 130	O0
ATOM 14514	CB ILE E 117	-18.134	-2.324	21.503	1.00	41.39	C0
ANISOU14514	CB ILE E 117	4590	6150	4980	80	670 150	C0
ATOM 14515	CG1 ILE E 117	-18.264	-2.167	19.980	1.00	41.31	C0
ANISOU14515	CG1 ILE E 117	4650	6070	4980	70	750 140	C0
ATOM 14516	CG2 ILE E 117	-19.129	-3.323	22.075	1.00	41.03	C0
ANISOU14516	CG2 ILE E 117	4520	6170	4900	140	650 180	C0
ATOM 14517	CD1 ILE E 117	-18.047	-3.435	19.183	1.00	40.89	C0
ANISOU14517	CD1 ILE E 117	4530	6020	4990	80	820 170	C0
ATOM 14518	H ILE E 117	-16.329	-0.358	22.103	1.00	42.46	H0
ANISOU14518	H ILE E 117	4770	6240	5130	-90	600 110	H0
ATOM 14519	HA ILE E 117	-19.096	-0.542	21.900	1.00	41.95	H0
ANISOU14519	HA ILE E 117	4840	6180	4920	110	620 80	H0
ATOM 14520	HB ILE E 117	-17.225	-2.664	21.690	1.00	41.86	H0
ANISOU14520	HB ILE E 117	4580	6230	5110	40	660 170	H0
ATOM 14521	HG12 ILE E 117	-19.160	-1.823	19.779	1.00	41.01	H0
ANISOU14521	HG12 ILE E 117	4680	6020	4870	120	740 120	H0
ATOM 14522	HG13 ILE E 117	-17.614	-1.498	19.678	1.00	41.69	H0
ANISOU14522	HG13 ILE E 117	4720	6080	5040	20	760 130	H0
ATOM 14523	HG21 ILE E 117	-18.851	-3.586	22.970	1.00	41.23	H0
ANISOU14523	HG21 ILE E 117	4500	6240	4930	140	610 190	H0
ATOM 14524	HG22 ILE E 117	-19.167	-4.111	21.508	1.00	40.76	H0
ANISOU14524	HG22 ILE E 117	4450	6130	4910	150	690 200	H0

ATOM 14525 HG23 ILE E 117	-20.012	-2.915	22.119	1.00	40.82	H0	
ANISOU14525 HG23 ILE E 117	4550	6150	4810	180	640	150	H0
ATOM 14526 HD11 ILE E 117	-17.271	-3.909	19.529	1.00	41.23	H0	
ANISOU14526 HD11 ILE E 117	4480	6080	5100	70	820	190	H0
ATOM 14527 HD12 ILE E 117	-17.897	-3.210	18.248	1.00	41.05	H0	
ANISOU14527 HD12 ILE E 117	4590	5990	5010	60	870	160	H0
ATOM 14528 HD13 ILE E 117	-18.833	-4.005	19.255	1.00	40.55	H0	
ANISOU14528 HD13 ILE E 117	4490	6000	4920	120	810	180	H0
ATOM 14529 N ARG E 118	-19.486	-0.941	24.328	1.00	44.22	N0	
ANISOU14529 N ARG E 118	5070	6600	5130	140	510	90	N0
ATOM 14530 CA ARG E 118	-19.751	-1.356	25.731	1.00	45.47	C0	
ANISOU14530 CA ARG E 118	5200	6850	5230	150	460	100	C0
ATOM 14531 C ARG E 118	-20.528	-2.673	25.684	1.00	44.11	C0	
ANISOU14531 C ARG E 118	4960	6730	5060	200	500	140	C0
ATOM 14532 O ARG E 118	-21.567	-2.715	25.004	1.00	42.92	O0	
ANISOU14532 O ARG E 118	4830	6590	4890	250	550	120	O0
ATOM 14533 CB ARG E 118	-20.528	-0.284	26.501	1.00	47.67	C0	
ANISOU14533 CB ARG E 118	5590	7130	5390	190	430	30	C0
ATOM 14534 CG ARG E 118	-20.644	-0.559	27.994	1.00	49.44	C0	
ANISOU14534 CG ARG E 118	5810	7440	5540	180	380	30	C0
ATOM 14535 CD ARG E 118	-21.746	0.258	28.635	1.00	51.79	C0	
ANISOU14535 CD ARG E 118	6200	7760	5710	250	400	-50	C0
ATOM 14536 NE ARG E 118	-21.766	0.089	30.082	1.00	54.62	N0	
ANISOU14536 NE ARG E 118	6580	8200	5970	230	360	-50	N0
ATOM 14537 CZ ARG E 118	-22.775	0.430	30.885	1.00	57.02	C0	
ANISOU14537 CZ ARG E 118	6940	8570	6160	290	390	-110	C0
ATOM 14538 NH1 ARG E 118	-23.880	0.970	30.393	1.00	57.46	N0	
ANISOU14538 NH1 ARG E 118	7020	8620	6190	390	450	-170	N0
ATOM 14539 NH2 ARG E 118	-22.675	0.221	32.189	1.00	58.09	N0	
ANISOU14539 NH2 ARG E 118	7100	8770	6200	250	350	-100	N0
ATOM 14540 H ARG E 118	-20.219	-0.606	23.902	1.00	43.99	H0	
ANISOU14540 H ARG E 118	5100	6550	5060	180	530	60	H0
ATOM 14541 HA ARG E 118	-18.891	-1.509	26.179	1.00	45.81	H0	
ANISOU14541 HA ARG E 118	5200	6900	5310	100	420	120	H0
ATOM 14542 HB2 ARG E 118	-20.082	0.578	26.372	1.00	47.95	H0	
ANISOU14542 HB2 ARG E 118	5690	7110	5420	160	420	-10	H0
ATOM 14543 HB3 ARG E 118	-21.428	-0.217	26.121	1.00	47.29	H0	
ANISOU14543 HB3 ARG E 118	5560	7090	5320	250	470	10	H0
ATOM 14544 HG2 ARG E 118	-20.828	-1.511	28.139	1.00	49.29	H0	
ANISOU14544 HG2 ARG E 118	5720	7480	5530	190	400	80	H0
ATOM 14545 HG3 ARG E 118	-19.792	-0.345	28.431	1.00	50.06	H0	
ANISOU14545 HG3 ARG E 118	5880	7510	5620	120	330	30	H0
ATOM 14546 HD2 ARG E 118	-21.615	1.206	28.420	1.00	52.15	H0	
ANISOU14546 HD2 ARG E 118	6330	7740	5740	250	390	-90	H0
ATOM 14547 HD3 ARG E 118	-22.609	-0.021	28.263	1.00	51.49	H0	
ANISOU14547 HD3 ARG E 118	6140	7760	5670	310	450	-50	H0
ATOM 14548 HE ARG E 118	-21.066	-0.271	30.452	1.00	54.79	H0	
ANISOU14548 HE ARG E 118	6570	8240	6010	170	310	-10	H0
ATOM 14549 HH11 ARG E 118	-23.956	1.115	29.531	1.00	56.76	H0	
ANISOU14549 HH11 ARG E 118	6930	8480	6160	420	470	-160	H0
ATOM 14550 HH12 ARG E 118	-24.535	1.193	30.934	1.00	57.70	H0	
ANISOU14550 HH12 ARG E 118	7080	8700	6150	440	480	-210	H0
ATOM 14551 HH21 ARG E 118	-21.944	-0.142	32.522	1.00	58.02	H0	
ANISOU14551 HH21 ARG E 118	7070	8770	6200	190	300	-60	H0

ATOM 14552	HH22	ARG E 118	-23.340	0.445	32.723	1.00	58.37	H0	
ANISOU14552	HH22	ARG E 118	7180	8850	6150	290	380	-140	H0
ATOM 14553	N	GLN E 119	-20.034	-3.707	26.368	1.00	43.83	N0	
ANISOU14553	N	GLN E 119	4850	6740	5060	170	470	200	N0
ATOM 14554	CA	GLN E 119	-20.635	-5.066	26.335	1.00	43.64	C0	
ANISOU14554	CA	GLN E 119	4790	6750	5040	190	500	260	C0
ATOM 14555	C	GLN E 119	-20.377	-5.776	27.668	1.00	44.27	C0	
ANISOU14555	C	GLN E 119	4850	6890	5080	180	450	320	C0
ATOM 14556	O	GLN E 119	-19.358	-5.476	28.309	1.00	44.52	O0	
ANISOU14556	O	GLN E 119	4870	6920	5120	150	370	330	O0
ATOM 14557	CB	GLN E 119	-20.067	-5.838	25.142	1.00	42.62	C0	
ANISOU14557	CB	GLN E 119	4610	6560	5030	190	550	290	C0
ATOM 14558	CG	GLN E 119	-20.871	-7.069	24.752	1.00	41.79	C0	
ANISOU14558	CG	GLN E 119	4500	6450	4930	200	610	320	C0
ATOM 14559	CD	GLN E 119	-20.463	-7.599	23.396	1.00	41.77	C0	
ANISOU14559	CD	GLN E 119	4480	6370	5020	200	670	320	C0
ATOM 14560	OE1	GLN E 119	-19.366	-7.335	22.902	1.00	40.44	O0	
ANISOU14560	OE1	GLN E 119	4280	6160	4920	200	680	320	O0
ATOM 14561	NE2	GLN E 119	-21.356	-8.356	22.776	1.00	41.40	N0	
ANISOU14561	NE2	GLN E 119	4450	6320	4950	200	720	320	N0
ATOM 14562	H	GLN E 119	-19.293	-3.641	26.895	1.00	44.42	H0	
ANISOU14562	H	GLN E 119	4910	6820	5140	140	420	220	H0
ATOM 14563	HA	GLN E 119	-21.608	-4.972	26.214	1.00	43.27	H0	
ANISOU14563	HA	GLN E 119	4770	6730	4950	220	540	230	H0
ATOM 14564	HB2	GLN E 119	-20.024	-5.229	24.375	1.00	42.42	H0	
ANISOU14564	HB2	GLN E 119	4600	6490	5020	190	580	250	H0
ATOM 14565	HB3	GLN E 119	-19.152	-6.109	25.357	1.00	43.00	H0	
ANISOU14565	HB3	GLN E 119	4610	6590	5130	180	530	320	H0
ATOM 14566	HG2	GLN E 119	-20.739	-7.770	25.425	1.00	42.31	H0	
ANISOU14566	HG2	GLN E 119	4550	6540	4990	200	590	370	H0
ATOM 14567	HG3	GLN E 119	-21.825	-6.841	24.736	1.00	41.80	H0	
ANISOU14567	HG3	GLN E 119	4520	6490	4870	210	630	290	H0
ATOM 14568	HE21	GLN E 119	-21.185	-8.667	21.966	1.00	41.34	H0	
ANISOU14568	HE21	GLN E 119	4450	6270	4990	190	760	320	H0
ATOM 14569	HE22	GLN E 119	-22.122	-8.552	23.170	1.00	41.45	H0	
ANISOU14569	HE22	GLN E 119	4470	6370	4910	190	720	320	H0
ATOM 14570	N	ARG E 120	-21.289	-6.668	28.066	1.00	45.36	N0	
ANISOU14570	N	ARG E 120	5000	7070	5170	180	480	350	N0
ATOM 14571	CA	ARG E 120	-21.155	-7.526	29.275	1.00	46.90	C0	
ANISOU14571	CA	ARG E 120	5210	7300	5310	160	430	420	C0
ATOM 14572	C	ARG E 120	-20.731	-8.927	28.839	1.00	45.39	C0	
ANISOU14572	C	ARG E 120	4990	7050	5210	160	450	510	C0
ATOM 14573	O	ARG E 120	-21.225	-9.394	27.790	1.00	44.06	O0	
ANISOU14573	O	ARG E 120	4810	6840	5090	170	520	490	O0
ATOM 14574	CB	ARG E 120	-22.456	-7.597	30.081	1.00	49.68	C0	
ANISOU14574	CB	ARG E 120	5610	7740	5530	140	470	410	C0
ATOM 14575	CG	ARG E 120	-22.628	-6.469	31.089	1.00	52.97	C0	
ANISOU14575	CG	ARG E 120	6080	8230	5830	140	440	350	C0
ATOM 14576	CD	ARG E 120	-23.670	-5.464	30.637	1.00	54.75	C0	
ANISOU14576	CD	ARG E 120	6310	8480	6010	190	500	250	C0
ATOM 14577	NE	ARG E 120	-25.003	-6.047	30.713	1.00	56.64	N0	
ANISOU14577	NE	ARG E 120	6520	8810	6190	180	580	240	N0
ATOM 14578	CZ	ARG E 120	-26.075	-5.601	30.067	1.00	57.46	C0	
ANISOU14578	CZ	ARG E 120	6590	8950	6290	230	650	170	C0

ATOM 14579 NH1 ARG E 120	-27.233	-6.225	30.219	1.00	58.28	N0
ANISOU14579 NH1 ARG E 120	6650	9160	6340	210	720	180
ATOM 14580 NH2 ARG E 120	-25.994	-4.543	29.275	1.00	57.55	N0
ANISOU14580 NH2 ARG E 120	6610	8910	6340	300	630	110
ATOM 14581 H ARG E 120	-22.063	-6.809	27.607	1.00	44.96	H0
ANISOU14581 H ARG E 120	4950	7030	5100	190	530	330
ATOM 14582 HA ARG E 120	-20.450	-7.148	29.845	1.00	47.35	H0
ANISOU14582 HA ARG E 120	5270	7370	5350	150	370	430
ATOM 14583 HB2 ARG E 120	-23.211	-7.582	29.456	1.00	49.29	H0
ANISOU14583 HB2 ARG E 120	5540	7700	5480	150	530	370
ATOM 14584 HB3 ARG E 120	-22.480	-8.452	30.560	1.00	50.11	H0
ANISOU14584 HB3 ARG E 120	5680	7810	5560	120	470	470
ATOM 14585 HG2 ARG E 120	-22.899	-6.845	31.954	1.00	53.39	H0
ANISOU14585 HG2 ARG E 120	6160	8330	5800	120	430	380
ATOM 14586 HG3 ARG E 120	-21.772	-6.007	31.215	1.00	52.91	H0
ANISOU14586 HG3 ARG E 120	6070	8190	5840	140	380	340
ATOM 14587 HD2 ARG E 120	-23.627	-4.666	31.207	1.00	55.06	H0
ANISOU14587 HD2 ARG E 120	6390	8540	5990	200	480	200
ATOM 14588 HD3 ARG E 120	-23.480	-5.192	29.714	1.00	54.10	H0
ANISOU14588 HD3 ARG E 120	6210	8350	6000	210	510	230
ATOM 14589 HE ARG E 120	-25.106	-6.748	31.222	1.00	56.89	H0
ANISOU14589 HE ARG E 120	6560	8870	6190	150	590	290
ATOM 14590 HH11 ARG E 120	-27.288	-6.928	30.745	1.00	58.44	H0
ANISOU14590 HH11 ARG E 120	6670	9200	6330	150	730	220
ATOM 14591 HH12 ARG E 120	-27.947	-5.935	29.796	1.00	58.07	H0
ANISOU14591 HH12 ARG E 120	6580	9170	6310	240	750	130
ATOM 14592 HH21 ARG E 120	-25.229	-4.124	29.170	1.00	57.15	H0
ANISOU14592 HH21 ARG E 120	6600	8800	6320	300	590	110
ATOM 14593 HH22 ARG E 120	-26.713	-4.257	28.853	1.00	57.30	H0
ANISOU14593 HH22 ARG E 120	6560	8910	6300	340	670	70
ATOM 14594 N PHE E 121	-19.855	-9.561	29.625	1.00	44.82	N0
ANISOU14594 N PHE E 121	4910	6970	5150	170	370	580
ATOM 14595 CA PHE E 121	-19.271	-10.894	29.335	1.00	44.78	C0
ANISOU14595 CA PHE E 121	4900	6880	5230	200	370	670
ATOM 14596 C PHE E 121	-19.389	-11.800	30.562	1.00	46.24	C0
ANISOU14596 C PHE E 121	5160	7080	5330	190	310	770
ATOM 14597 O PHE E 121	-19.377	-11.308	31.712	1.00	46.36	O0
ANISOU14597 O PHE E 121	5200	7170	5240	170	240	770
ATOM 14598 CB PHE E 121	-17.816	-10.750	28.884	1.00	44.99	C0
ANISOU14598 CB PHE E 121	4830	6870	5390	250	320	680
ATOM 14599 CG PHE E 121	-17.639	-9.866	27.678	1.00	43.72	C0
ANISOU14599 CG PHE E 121	4610	6690	5300	250	380	590
ATOM 14600 CD1 PHE E 121	-17.537	-8.491	27.818	1.00	43.30	C0
ANISOU14600 CD1 PHE E 121	4550	6690	5210	210	350	520
ATOM 14601 CD2 PHE E 121	-17.611	-10.407	26.402	1.00	43.18	C0
ANISOU14601 CD2 PHE E 121	4530	6550	5330	270	470	580
ATOM 14602 CE1 PHE E 121	-17.387	-7.676	26.709	1.00	42.49	C0
ANISOU14602 CE1 PHE E 121	4430	6550	5160	190	410	450
ATOM 14603 CE2 PHE E 121	-17.455	-9.591	25.294	1.00	42.08	C0
ANISOU14603 CE2 PHE E 121	4360	6390	5240	250	530	510
ATOM 14604 CZ PHE E 121	-17.347	-8.229	25.449	1.00	42.10	C0
ANISOU14604 CZ PHE E 121	4360	6440	5200	220	500	450
ATOM 14605 H PHE E 121	-19.547	-9.212	30.408	1.00	45.55	H0
ANISOU14605 H PHE E 121	5020	7100	5190	160	310	590

ATOM 14606 HA PHE E 121	-19.786	-11.307	28.597	1.00	44.48	H0	
ANISOU14606 HA PHE E 121	4870	6810	5220	200	440	660	H0
ATOM 14607 HB2 PHE E 121	-17.295	-10.382	29.627	1.00	45.50	H0	
ANISOU14607 HB2 PHE E 121	4870	6980	5430	250	240	690	H0
ATOM 14608 HB3 PHE E 121	-17.463	-11.641	28.681	1.00	45.32	H0	
ANISOU14608 HB3 PHE E 121	4860	6860	5500	290	330	730	H0
ATOM 14609 HD1 PHE E 121	-17.563	-8.108	28.681	1.00	43.66	H0	
ANISOU14609 HD1 PHE E 121	4620	6780	5190	190	300	520	H0
ATOM 14610 HD2 PHE E 121	-17.682	-11.342	26.290	1.00	43.33	H0	
ANISOU14610 HD2 PHE E 121	4570	6520	5370	290	500	620	H0
ATOM 14611 HE1 PHE E 121	-17.310	-6.742	26.818	1.00	42.56	H0	
ANISOU14611 HE1 PHE E 121	4450	6580	5140	170	390	410	H0
ATOM 14612 HE2 PHE E 121	-17.428	-9.969	24.433	1.00	42.09	H0	
ANISOU14612 HE2 PHE E 121	4360	6340	5290	270	600	500	H0
ATOM 14613 HZ PHE E 121	-17.244	-7.676	24.693	1.00	41.79	H0	
ANISOU14613 HZ PHE E 121	4320	6380	5180	200	540	410	H0
ATOM 14614 N SER E 122	-19.529	-13.098	30.293	1.00	46.80	N0	
ANISOU14614 N SER E 122	5270	7070	5440	200	350	830	N0
ATOM 14615 CA SER E 122	-19.379	-14.205	31.265	1.00	48.49	C0	
ANISOU14615 CA SER E 122	5580	7240	5600	210	300	950	C0
ATOM 14616 C SER E 122	-17.940	-14.723	31.168	1.00	49.72	C0	
ANISOU14616 C SER E 122	5680	7330	5880	320	210	1020	C0
ATOM 14617 O SER E 122	-17.554	-15.203	30.080	1.00	49.59	O0	
ANISOU14617 O SER E 122	5620	7220	6000	370	270	1000	O0
ATOM 14618 CB SER E 122	-20.399	-15.287	31.003	1.00	48.23	C0	
ANISOU14618 CB SER E 122	5650	7140	5530	150	390	980	C0
ATOM 14619 OG SER E 122	-20.170	-16.411	31.833	1.00	49.42	O0	
ANISOU14619 OG SER E 122	5910	7220	5640	160	340	1110	O0
ATOM 14620 H SER E 122	-19.730	-13.405	29.459	1.00	46.40	H0	
ANISOU14620 H SER E 122	5210	6970	5450	210	420	810	H0
ATOM 14621 HA SER E 122	-19.526	-13.843	32.179	1.00	48.81	H0	
ANISOU14621 HA SER E 122	5650	7350	5540	180	250	960	H0
ATOM 14622 HB2 SER E 122	-21.301	-14.933	31.172	1.00	47.92	H0	
ANISOU14622 HB2 SER E 122	5620	7170	5410	80	440	940	H0
ATOM 14623 HB3 SER E 122	-20.349	-15.562	30.059	1.00	47.82	H0	
ANISOU14623 HB3 SER E 122	5570	7030	5570	170	440	960	H0
ATOM 14624 N CYS E 123	-17.163	-14.587	32.244	1.00	50.91	N0	
ANISOU14624 N CYS E 123	5820	7530	5990	350	70	1080	N0
ATOM 14625 CA CYS E 123	-15.732	-14.986	32.295	1.00	52.73	C0	
ANISOU14625 CA CYS E 123	5970	7720	6340	470	-30	1140	C0
ATOM 14626 C CYS E 123	-15.249	-15.023	33.751	1.00	53.46	C0	
ANISOU14626 C CYS E 123	6110	7880	6330	480	-200	1230	C0
ATOM 14627 O CYS E 123	-16.003	-14.571	34.639	1.00	53.34	O0	
ANISOU14627 O CYS E 123	6180	7940	6140	390	-210	1230	O0
ATOM 14628 CB CYS E 123	-14.881	-14.043	31.449	1.00	52.99	C0	
ANISOU14628 CB CYS E 123	5830	7800	6500	500	-30	1050	C0
ATOM 14629 SG CYS E 123	-14.994	-12.312	31.971	1.00	54.22	S0	
ANISOU14629 SG CYS E 123	5940	8100	6560	390	-80	950	S0
ATOM 14630 H CYS E 123	-17.456	-14.234	33.031	1.00	51.27	H0	
ANISOU14630 H CYS E 123	5910	7640	5930	310	40	1080	H0
ATOM 14631 HA CYS E 123	-15.657	-15.893	31.918	1.00	53.01	H0	
ANISOU14631 HA CYS E 123	6040	7660	6440	520	0	1190	H0
ATOM 14632 HB2 CYS E 123	-13.945	-14.323	31.501	1.00	54.15	H0	
ANISOU14632 HB2 CYS E 123	5900	7940	6730	570	-100	1090	H0

ATOM 14633	HB3 CYS E 123	-15.164	-14.106	30.514	1.00	52.38	H0	
ANISOU14633	HB3 CYS E 123	5740	7680	6490	490	70	1000	H0
ATOM 14634	N ASP E 124	-14.042	-15.551	33.984	1.00	54.46	N0	
ANISOU14634	N ASP E 124	6160	7990	6540	600	-320	1310	N0
ATOM 14635	CA ASP E 124	-13.472	-15.755	35.344	1.00	55.62	C0	
ANISOU14635	CA ASP E 124	6360	8190	6590	640	-510	1420	C0
ATOM 14636	C ASP E 124	-13.154	-14.384	35.951	1.00	55.50	C0	
ANISOU14636	C ASP E 124	6260	8330	6500	550	-600	1350	C0
ATOM 14637	O ASP E 124	-12.257	-13.698	35.427	1.00	56.13	O0	
ANISOU14637	O ASP E 124	6160	8470	6700	580	-630	1280	O0
ATOM 14638	CB ASP E 124	-12.241	-16.667	35.315	1.00	56.98	C0	
ANISOU14638	CB ASP E 124	6450	8300	6900	810	-620	1520	C0
ATOM 14639	CG ASP E 124	-11.924	-17.347	36.640	1.00	58.93	C0	
ANISOU14639	CG ASP E 124	6820	8550	7030	870	-800	1670	C0
ATOM 14640	OD1 ASP E 124	-12.560	-16.997	37.661	1.00	58.45	O0	
ANISOU14640	OD1 ASP E 124	6890	8550	6760	750	-840	1690	O0
ATOM 14641	OD2 ASP E 124	-11.040	-18.228	36.643	1.00	60.43	O0	
ANISOU14641	OD2 ASP E 124	6970	8670	7320	1030	-890	1760	O0
ATOM 14642	H ASP E 124	-13.489	-15.817	33.310	1.00	54.51	H0	
ANISOU14642	H ASP E 124	6090	7950	6680	680	-300	1310	H0
ATOM 14643	HA ASP E 124	-14.162	-16.189	35.898	1.00	55.92	H0	
ANISOU14643	HA ASP E 124	6540	8200	6510	590	-490	1470	H0
ATOM 14644	HB2 ASP E 124	-12.378	-17.363	34.641	1.00	56.87	H0	
ANISOU14644	HB2 ASP E 124	6460	8180	6960	870	-530	1530	H0
ATOM 14645	HB3 ASP E 124	-11.460	-16.140	35.050	1.00	57.17	H0	
ANISOU14645	HB3 ASP E 124	6310	8390	7010	840	-670	1470	H0
ATOM 14646	N VAL E 125	-13.881	-14.000	37.003	1.00	55.64	N0	
ANISOU14646	N VAL E 125	6420	8410	6310	450	-630	1350	N0
ATOM 14647	CA VAL E 125	-13.662	-12.737	37.769	1.00	55.68	C0	
ANISOU14647	CA VAL E 125	6400	8550	6210	370	-730	1280	C0
ATOM 14648	C VAL E 125	-12.924	-13.060	39.074	1.00	57.65	C0	
ANISOU14648	C VAL E 125	6700	8860	6350	400	-940	1390	C0
ATOM 14649	O VAL E 125	-12.455	-12.113	39.724	1.00	57.95	O0	
ANISOU14649	O VAL E 125	6700	9010	6310	330	-1060	1340	O0
ATOM 14650	CB VAL E 125	-14.997	-12.012	38.017	1.00	54.74	C0	
ANISOU14650	CB VAL E 125	6400	8470	5930	250	-600	1190	C0
ATOM 14651	CG1 VAL E 125	-14.830	-10.764	38.875	1.00	55.29	C0	
ANISOU14651	CG1 VAL E 125	6490	8650	5860	160	-690	1110	C0
ATOM 14652	CG2 VAL E 125	-15.685	-11.668	36.704	1.00	52.79	C0	
ANISOU14652	CG2 VAL E 125	6100	8170	5790	230	-420	1090	C0
ATOM 14653	H VAL E 125	-14.582	-14.490	37.316	1.00	55.67	H0	
ANISOU14653	H VAL E 125	6550	8380	6230	430	-590	1390	H0
ATOM 14654	HA VAL E 125	-13.093	-12.153	37.236	1.00	55.35	H0	
ANISOU14654	HA VAL E 125	6220	8540	6270	370	-730	1220	H0
ATOM 14655	HB VAL E 125	-15.585	-12.637	38.508	1.00	55.15	H0	
ANISOU14655	HB VAL E 125	6580	8490	5880	230	-580	1250	H0
ATOM 14656	HG11 VAL E 125	-14.754	-11.018	39.811	1.00	56.49	H0	
ANISOU14656	HG11 VAL E 125	6730	8840	5890	150	-780	1180	H0
ATOM 14657	HG12 VAL E 125	-15.604	-10.186	38.761	1.00	54.39	H0	
ANISOU14657	HG12 VAL E 125	6420	8550	5690	110	-590	1030	H0
ATOM 14658	HG13 VAL E 125	-14.027	-10.286	38.602	1.00	55.41	H0	
ANISOU14658	HG13 VAL E 125	6390	8690	5970	170	-760	1080	H0
ATOM 14659	HG21 VAL E 125	-15.057	-11.211	36.119	1.00	52.45	H0	
ANISOU14659	HG21 VAL E 125	5940	8130	5860	250	-430	1040	H0

ATOM 14660 HG22 VAL E 125	-16.448	-11.088	36.876	1.00	52.21	H0	
ANISOU14660 HG22 VAL E 125	6080	8130	5620	170	-350	1020	H0
ATOM 14661 HG23 VAL E 125	-15.991	-12.485	36.274	1.00	52.55	H0	
ANISOU14661 HG23 VAL E 125	6090	8070	5810	260	-350	1130	H0
ATOM 14662 N SER E 126	-12.809	-14.343	39.435	1.00	59.18	N0	
ANISOU14662 N SER E 126	6980	8970	6530	490	-990	1530	N0
ATOM 14663 CA SER E 126	-12.122	-14.809	40.670	1.00	61.87	C0	
ANISOU14663 CA SER E 126	7390	9360	6760	540	-1210	1670	C0
ATOM 14664 C SER E 126	-10.686	-14.274	40.685	1.00	63.32	C0	
ANISOU14664 C SER E 126	7350	9650	7060	600	-1400	1650	C0
ATOM 14665 O SER E 126	-9.992	-14.436	39.664	1.00	63.09	O0	
ANISOU14665 O SER E 126	7130	9590	7250	700	-1360	1620	O0
ATOM 14666 CB SER E 126	-12.147	-16.313	40.793	1.00	63.16	C0	
ANISOU14666 CB SER E 126	7690	9380	6930	650	-1230	1820	C0
ATOM 14667 OG SER E 126	-11.221	-16.913	39.901	1.00	63.59	O0	
ANISOU14667 OG SER E 126	7580	9360	7220	820	-1250	1850	O0
ATOM 14668 H SER E 126	-13.144	-15.033	38.947	1.00	58.80	H0	
ANISOU14668 H SER E 126	6970	8830	6540	530	-910	1570	H0
ATOM 14669 HA SER E 126	-12.605	-14.426	41.446	1.00	62.11	H0	
ANISOU14669 HA SER E 126	7540	9440	6610	440	-1230	1660	H0
ATOM 14670 HB2 SER E 126	-11.924	-16.568	41.717	1.00	64.75	H0	
ANISOU14670 HB2 SER E 126	7980	9610	7010	660	-1360	1910	H0
ATOM 14671 HB3 SER E 126	-13.053	-16.643	40.596	1.00	62.32	H0	
ANISOU14671 HB3 SER E 126	7700	9200	6780	600	-1090	1820	H0
ATOM 14672 N GLY E 127	-10.282	-13.642	41.793	1.00	65.05	N0	
ANISOU14672 N GLY E 127	7600	9990	7120	530	-1580	1650	N0
ATOM 14673 CA GLY E 127	-8.913	-13.147	42.037	1.00	66.76	C0	
ANISOU14673 CA GLY E 127	7610	10340	7420	560	-1790	1650	C0
ATOM 14674 C GLY E 127	-8.770	-11.654	41.784	1.00	65.93	C0	
ANISOU14674 C GLY E 127	7390	10340	7320	410	-1760	1480	C0
ATOM 14675 O GLY E 127	-7.646	-11.149	41.921	1.00	67.13	O0	
ANISOU14675 O GLY E 127	7360	10610	7540	400	-1920	1450	O0
ATOM 14676 H GLY E 127	-10.853	-13.478	42.484	1.00	65.14	H0	
ANISOU14676 H GLY E 127	7760	10030	6970	450	-1580	1660	H0
ATOM 14677 HA2 GLY E 127	-8.666	-13.342	42.976	1.00	68.44	H0	
ANISOU14677 HA2 GLY E 127	7900	10600	7500	570	-1940	1720	H0
ATOM 14678 HA3 GLY E 127	-8.284	-13.638	41.451	1.00	67.15	H0	
ANISOU14678 HA3 GLY E 127	7520	10360	7640	680	-1800	1680	H0
ATOM 14679 N VAL E 128	-9.861	-10.956	41.452	1.00	64.22	N0	
ANISOU14679 N VAL E 128	7280	10080	7040	300	-1570	1360	N0
ATOM 14680 CA VAL E 128	-9.833	-9.526	41.016	1.00	63.30	C0	
ANISOU14680 CA VAL E 128	7090	10020	6950	170	-1510	1200	C0
ATOM 14681 C VAL E 128	-9.300	-8.636	42.148	1.00	65.42	C0	
ANISOU14681 C VAL E 128	7390	10410	7050	50	-1700	1160	C0
ATOM 14682 O VAL E 128	-8.641	-7.635	41.828	1.00	65.41	O0	
ANISOU14682 O VAL E 128	7250	10470	7130	-30	-1740	1060	O0
ATOM 14683 CB VAL E 128	-11.216	-9.053	40.529	1.00	61.20	C0	
ANISOU14683 CB VAL E 128	6960	9670	6620	100	-1270	1100	C0
ATOM 14684 CG1 VAL E 128	-12.220	-8.938	41.668	1.00	61.71	C0	
ANISOU14684 CG1 VAL E 128	7270	9760	6420	30	-1260	1100	C0
ATOM 14685 CG2 VAL E 128	-11.119	-7.743	39.763	1.00	59.99	C0	
ANISOU14685 CG2 VAL E 128	6720	9530	6540	10	-1190	950	C0
ATOM 14686 H VAL E 128	-10.698	-11.313	41.473	1.00	63.43	H0	
ANISOU14686 H VAL E 128	7320	9920	6870	300	-1460	1380	H0

ATOM 14687 HA VAL E 128	-9.214	-9.459	40.268	1.00	63.18		H0
ANISOU14687 HA VAL E 128	6910	10000	7100	200	-1490	1170	H0
ATOM 14688 HB VAL E 128	-11.555	-9.737	39.903	1.00	60.34		H0
ANISOU14688 HB VAL E 128	6840	9490	6600	170	-1170	1140	H0
ATOM 14689 HG11 VAL E 128	-12.021	-9.604	42.349	1.00	62.94		H0
ANISOU14689 HG11 VAL E 128	7480	9930	6500	70	-1370	1200	H0
ATOM 14690 HG12 VAL E 128	-13.119	-9.086	41.325	1.00	60.47		H0
ANISOU14690 HG12 VAL E 128	7180	9550	6250	30	-1110	1080	H0
ATOM 14691 HG13 VAL E 128	-12.168	-8.049	42.059	1.00	61.96		H0
ANISOU14691 HG13 VAL E 128	7330	9850	6370	-50	-1300	1020	H0
ATOM 14692 HG21 VAL E 128	-10.909	-7.020	40.379	1.00	60.80		H0
ANISOU14692 HG21 VAL E 128	6860	9690	6550	-70	-1280	900	H0
ATOM 14693 HG22 VAL E 128	-11.969	-7.559	39.326	1.00	58.64		H0
ANISOU14693 HG22 VAL E 128	6620	9300	6360	0	-1050	890	H0
ATOM 14694 HG23 VAL E 128	-10.418	-7.810	39.092	1.00	60.02		H0
ANISOU14694 HG23 VAL E 128	6570	9530	6700	50	-1200	950	H0
ATOM 14695 N ASP E 129	-9.568	-8.978	43.414	1.00	67.63		N0
ANISOU14695 N ASP E 129	7850	10730	7110	40	-1820	1240	N0
ATOM 14696 CA ASP E 129	-9.164	-8.169	44.599	1.00	69.90		C0
ANISOU14696 CA ASP E 129	8220	11140	7200	-80	-2010	1200	C0
ATOM 14697 C ASP E 129	-7.783	-8.610	45.106	1.00	72.45		C0
ANISOU14697 C ASP E 129	8380	11570	7570	-20	-2290	1300	C0
ATOM 14698 O ASP E 129	-7.323	-8.017	46.105	1.00	74.16		O0
ANISOU14698 O ASP E 129	8650	11900	7630	-130	-2480	1280	O0
ATOM 14699 CB ASP E 129	-10.205	-8.251	45.722	1.00	71.00		C0
ANISOU14699 CB ASP E 129	8650	11270	7050	-140	-1980	1220	C0
ATOM 14700 CG ASP E 129	-11.494	-7.494	45.441	1.00	69.79		C0
ANISOU14700 CG ASP E 129	8630	11060	6820	-220	-1740	1080	C0
ATOM 14701 OD1 ASP E 129	-11.742	-7.159	44.266	1.00	68.94		O0
ANISOU14701 OD1 ASP E 129	8410	10890	6890	-200	-1580	1000	O0
ATOM 14702 OD2 ASP E 129	-12.247	-7.248	46.402	1.00	71.21		O0
ANISOU14702 OD2 ASP E 129	9030	11270	6750	-290	-1710	1060	O0
ATOM 14703 H ASP E 129	-10.024	-9.736	43.630	1.00	67.58		H0
ANISOU14703 H ASP E 129	7950	10680	7050	90	-1790	1320	H0
ATOM 14704 HA ASP E 129	-9.101	-7.227	44.317	1.00	69.38		H0
ANISOU14704 HA ASP E 129	8110	11090	7160	-170	-1970	1080	H0
ATOM 14705 HB2 ASP E 129	-10.429	-9.191	45.880	1.00	71.33		H0
ANISOU14705 HB2 ASP E 129	8750	11280	7070	-60	-1980	1330	H0
ATOM 14706 HB3 ASP E 129	-9.817	-7.890	46.544	1.00	72.57		H0
ANISOU14706 HB3 ASP E 129	8900	11550	7120	-210	-2130	1210	H0
ATOM 14707 N THR E 130	-7.148	-9.595	44.452	1.00	72.57		N0
ANISOU14707 N THR E 130	8220	11550	7800	140	-2310	1410	N0
ATOM 14708 CA THR E 130	-5.791	-10.113	44.794	1.00	75.07		C0
ANISOU14708 CA THR E 130	8340	11980	8210	250	-2570	1510	C0
ATOM 14709 C THR E 130	-4.737	-9.436	43.905	1.00	75.11		C0
ANISOU14709 C THR E 130	8020	12070	8450	220	-2590	1410	C0
ATOM 14710 O THR E 130	-5.131	-8.726	42.955	1.00	73.00		O0
ANISOU14710 O THR E 130	7720	11740	8270	130	-2380	1280	O0
ATOM 14711 CB THR E 130	-5.724	-11.644	44.692	1.00	75.74		C0
ANISOU14711 CB THR E 130	8440	11970	8370	470	-2590	1690	C0
ATOM 14712 OG1 THR E 130	-5.855	-12.032	43.324	1.00	73.38		O0
ANISOU14712 OG1 THR E 130	8010	11560	8310	560	-2380	1660	O0
ATOM 14713 CG2 THR E 130	-6.784	-12.334	45.523	1.00	75.96		C0
ANISOU14713 CG2 THR E 130	8800	11900	8160	470	-2560	1790	C0

ATOM 14714 H THR E 130	-7.509 -10.032 43.743	1.00 71.27	H0
ANISOU14714 H THR E 130	8040 11300 7740	210 -2170 1420	H0
ATOM 14715 HA THR E 130	-5.605 -9.864 45.729	1.00 76.60	H0
ANISOU14715 HA THR E 130	8620 12250 8240	180 -2730 1530	H0
ATOM 14716 HB THR E 130	-4.838 -11.932 45.016	1.00 77.68	H0
ANISOU14716 HB THR E 130	8570 12290 8660	540 -2780 1750	H0
ATOM 14717 HG21 THR E 130	-6.751 -11.999 46.437	1.00 77.12	H0
ANISOU14717 HG21 THR E 130	9050 12120 8130	390 -2680 1790	H0
ATOM 14718 HG22 THR E 130	-6.621 -13.295 45.525	1.00 76.73	H0
ANISOU14718 HG22 THR E 130	8920 11940 8300	610 -2600 1910	H0
ATOM 14719 HG23 THR E 130	-7.663 -12.156 45.144	1.00 74.03	H0
ANISOU14719 HG23 THR E 130	8650 11580 7890	410 -2360 1730	H0
ATOM 14720 N GLU E 131	-3.455 -9.660 44.218	1.00 77.56	N0
ANISOU14720 N GLU E 131	8110 12520 8840	280 -2830 1480	N0
ATOM 14721 CA GLU E 131	-2.271 -9.019 43.579	1.00 78.37	C0
ANISOU14721 CA GLU E 131	7870 12750 9150	230 -2890 1390	C0
ATOM 14722 C GLU E 131	-2.047 -9.608 42.181	1.00 76.90	C0
ANISOU14722 C GLU E 131	7480 12490 9250	380 -2700 1390	C0
ATOM 14723 O GLU E 131	-1.609 -8.852 41.287	1.00 76.06	O0
ANISOU14723 O GLU E 131	7180 12430 9300	280 -2590 1280	O0
ATOM 14724 CB GLU E 131	-1.036 -9.220 44.460	1.00 82.25	C0
ANISOU14724 CB GLU E 131	8180 13440 9630	270 -3220 1470	C0
ATOM 14725 CG GLU E 131	0.202 -8.482 43.976	1.00 83.98	C0
ANISOU14725 CG GLU E 131	8040 13830 10040	180 -3310 1380	C0
ATOM 14726 CD GLU E 131	1.514 -9.060 44.481	1.00 87.93	C0
ANISOU14726 CD GLU E 131	8260 14520 10620	310 -3610 1490	C0
ATOM 14727 OE1 GLU E 131	1.562 -9.477 45.657	1.00 90.02	O0
ANISOU14727 OE1 GLU E 131	8660 14840 10700	360 -3850 1590	O0
ATOM 14728 OE2 GLU E 131	2.483 -9.103 43.694	1.00 89.10	O0
ANISOU14728 OE2 GLU E 131	8060 14770 11020	370 -3600 1460	O0
ATOM 14729 H GLU E 131	-3.222 -10.247 44.874	1.00 79.15	H0
ANISOU14729 H GLU E 131	8350 12750 8970	360 -2980 1580	H0
ATOM 14730 HA GLU E 131	-2.449 -8.054 43.492	1.00 77.64	H0
ANISOU14730 HA GLU E 131	7810 12680 9010	60 -2830 1280	H0
ATOM 14731 HB2 GLU E 131	-1.249 -8.918 45.368	1.00 83.02	H0
ANISOU14731 HB2 GLU E 131	8440 13570 9530	180 -3340 1480	H0
ATOM 14732 HB3 GLU E 131	-0.837 -10.179 44.502	1.00 83.09	H0
ANISOU14732 HB3 GLU E 131	8260 13520 9790	450 -3280 1590	H0
ATOM 14733 HG2 GLU E 131	0.220 -8.490 42.997	1.00 82.71	H0
ANISOU14733 HG2 GLU E 131	7760 13620 10050	210 -3130 1340	H0
ATOM 14734 HG3 GLU E 131	0.146 -7.546 44.262	1.00 83.97	H0
ANISOU14734 HG3 GLU E 131	8090 13880 9930	-10 -3330 1280	H0
ATOM 14735 N SER E 132	-2.311 -10.907 42.007	1.00 76.67	N0
ANISOU14735 N SER E 132	7510 12340 9270	600 -2650 1520	N0
ATOM 14736 CA SER E 132	-2.216 -11.629 40.710	1.00 75.85	C0
ANISOU14736 CA SER E 132	7270 12130 9410	760 -2460 1530	C0
ATOM 14737 C SER E 132	-3.361 -11.188 39.784	1.00 72.40	C0
ANISOU14737 C SER E 132	6980 11550 8970	660 -2160 1420	C0
ATOM 14738 O SER E 132	-3.154 -11.148 38.551	1.00 71.13	O0
ANISOU14738 O SER E 132	6670 11350 9010	690 -1980 1360	O0
ATOM 14739 CB SER E 132	-2.223 -13.121 40.923	1.00 77.26	C0
ANISOU14739 CB SER E 132	7530 12210 9620	1010 -2510 1700	C0
ATOM 14740 OG SER E 132	-3.522 -13.571 41.284	1.00 76.26	O0
ANISOU14740 OG SER E 132	7750 11920 9310	1000 -2410 1750	O0

ATOM 14741 H SER E 132	-2.568 -11.456 42.687	1.00 77.47	H0
ANISOU14741 H SER E 132	7760 12420 9260	660 -2740 1610	H0
ATOM 14742 HA SER E 132	-1.355 -11.377 40.280	1.00 76.75	H0
ANISOU14742 HA SER E 132	7140 12350 9680	770 -2490 1490	H0
ATOM 14743 HB2 SER E 132	-1.937 -13.571 40.096	1.00 77.14	H0
ANISOU14743 HB2 SER E 132	7380 12150 9780	1130 -2410 1690	H0
ATOM 14744 HB3 SER E 132	-1.585 -13.353 41.635	1.00 79.53	H0
ANISOU14744 HB3 SER E 132	7750 12590 9870	1080 -2720 1770	H0
ATOM 14745 N GLY E 133	-4.523 -10.871 40.365	1.00 70.67	N0
ANISOU14745 N GLY E 133	7060 11260 8540	550 -2100 1400	N0
ATOM 14746 CA GLY E 133	-5.709 -10.367 39.647	1.00 67.51	C0
ANISOU14746 CA GLY E 133	6810 10740 8100	450 -1850 1300	C0
ATOM 14747 C GLY E 133	-6.555 -11.495 39.084	1.00 65.94	C0
ANISOU14747 C GLY E 133	6740 10370 7940	580 -1680 1370	C0
ATOM 14748 O GLY E 133	-6.242 -12.671 39.358	1.00 67.23	O0
ANISOU14748 O GLY E 133	6910 10490 8140	740 -1760 1500	O0
ATOM 14749 H GLY E 133	-4.654 -10.962 41.262	1.00 71.62	H0
ANISOU14749 H GLY E 133	7300 11410 8510	530 -2220 1460	H0
ATOM 14750 HA2 GLY E 133	-6.255 -9.826 40.267	1.00 67.21	H0
ANISOU14750 HA2 GLY E 133	6920 10720 7900	340 -1860 1270	H0
ATOM 14751 HA3 GLY E 133	-5.411 -9.782 38.907	1.00 66.89	H0
ANISOU14751 HA3 GLY E 133	6600 10680 8140	390 -1770 1210	H0
ATOM 14752 N ALA E 134	-7.601 -11.142 38.334	1.00 63.49	N0
ANISOU14752 N ALA E 134	6540 9960 7620	500 -1450 1280	N0
ATOM 14753 CA ALA E 134	-8.469 -12.073 37.579	1.00 62.22	C0
ANISOU14753 CA ALA E 134	6490 9650 7510	590 -1260 1320	C0
ATOM 14754 C ALA E 134	-8.037 -12.056 36.111	1.00 61.64	C0
ANISOU14754 C ALA E 134	6230 9530 7660	640 -1120 1250	C0
ATOM 14755 O ALA E 134	-7.508 -11.016 35.668	1.00 61.26	O0
ANISOU14755 O ALA E 134	6030 9560 7680	550 -1100 1150	O0
ATOM 14756 CB ALA E 134	-9.914 -11.670 37.738	1.00 60.38	C0
ANISOU14756 CB ALA E 134	6470 9360 7110	470 -1130 1260	C0
ATOM 14757 H ALA E 134	-7.859 -10.274 38.231	1.00 62.70	H0
ANISOU14757 H ALA E 134	6460 9890 7480	390 -1400 1190	H0
ATOM 14758 HA ALA E 134	-8.346 -12.983 37.936	1.00 63.31	H0
ANISOU14758 HA ALA E 134	6670 9750 7640	690 -1330 1420	H0
ATOM 14759 HB1 ALA E 134	-10.487 -12.360 37.362	1.00 59.71	H0
ANISOU14759 HB1 ALA E 134	6470 9180 7040	520 -1020 1300	H0
ATOM 14760 HB2 ALA E 134	-10.118 -11.559 38.681	1.00 61.12	H0
ANISOU14760 HB2 ALA E 134	6680 9500 7050	430 -1210 1290	H0
ATOM 14761 HB3 ALA E 134	-10.071 -10.831 37.273	1.00 59.34	H0
ANISOU14761 HB3 ALA E 134	6310 9250 7000	390 -1050 1160	H0
ATOM 14762 N THR E 135	-8.240 -13.163 35.393	1.00 61.76	N0
ANISOU14762 N THR E 135	6270 9420 7780	770 -1010 1300	N0
ATOM 14763 CA THR E 135	-7.998 -13.266 33.929	1.00 61.77	C0
ANISOU14763 CA THR E 135	6130 9360 7980	820 -840 1240	C0
ATOM 14764 C THR E 135	-9.317 -13.606 33.227	1.00 60.31	C0
ANISOU14764 C THR E 135	6130 9030 7750	790 -640 1210	C0
ATOM 14765 O THR E 135	-9.704 -14.794 33.230	1.00 60.63	O0
ANISOU14765 O THR E 135	6300 8960 7790	890 -600 1290	O0
ATOM 14766 CB THR E 135	-6.877 -14.260 33.610	1.00 63.45	C0
ANISOU14766 CB THR E 135	6180 9560 8370	1020 -890 1310	C0
ATOM 14767 OG1 THR E 135	-5.704 -13.788 34.274	1.00 65.54	O0
ANISOU14767 OG1 THR E 135	6250 9990 8670	1030 -1080 1320	O0

ATOM 14768	CG2 THR E 135	-6.610	-14.390	32.127	1.00	62.82	C0	
ANISOU14768	CG2 THR E 135	5980	9420	8470	1070	-700	1230	C0
ATOM 14769	H THR E 135	-8.546	-13.942	35.753	1.00	62.30	H0	
ANISOU14769	H THR E 135	6450	9420	7800	840	-1030	1380	H0
ATOM 14770	HA THR E 135	-7.709	-12.382	33.617	1.00	61.27	H0	
ANISOU14770	HA THR E 135	5970	9360	7940	740	-820	1150	H0
ATOM 14771	HB THR E 135	-7.124	-15.143	33.975	1.00	64.11	H0	
ANISOU14771	HB THR E 135	6380	9560	8420	1110	-920	1390	H0
ATOM 14772	HG21 THR E 135	-7.310	-14.928	31.715	1.00	61.87	H0	
ANISOU14772	HG21 THR E 135	5990	9180	8340	1090	-590	1240	H0
ATOM 14773	HG22 THR E 135	-5.748	-14.821	31.988	1.00	64.26	H0	
ANISOU14773	HG22 THR E 135	6010	9630	8770	1190	-740	1260	H0
ATOM 14774	HG23 THR E 135	-6.599	-13.506	31.719	1.00	61.93	H0	
ANISOU14774	HG23 THR E 135	5800	9360	8370	960	-640	1140	H0
ATOM 14775	N CYS E 136	-9.974	-12.586	32.666	1.00	59.14	N0	
ANISOU14775	N CYS E 136	6010	8900	7560	650	-520	1090	N0
ATOM 14776	CA CYS E 136	-11.232	-12.690	31.880	1.00	57.89	C0	
ANISOU14776	CA CYS E 136	5990	8640	7370	610	-330	1040	C0
ATOM 14777	C CYS E 136	-10.880	-12.940	30.409	1.00	57.41	C0	
ANISOU14777	C CYS E 136	5830	8510	7480	660	-190	990	C0
ATOM 14778	O CYS E 136	-10.239	-12.065	29.800	1.00	57.82	O0	
ANISOU14778	O CYS E 136	5740	8620	7610	620	-160	910	O0
ATOM 14779	CB CYS E 136	-12.072	-11.426	32.030	1.00	57.09	C0	
ANISOU14779	CB CYS E 136	5970	8590	7140	460	-290	950	C0
ATOM 14780	SG CYS E 136	-13.511	-11.364	30.928	1.00	56.22	S0	
ANISOU14780	SG CYS E 136	5970	8390	7000	410	-90	870	S0
ATOM 14781	H CYS E 136	-9.683	-11.725	32.729	1.00	59.09	H0	
ANISOU14781	H CYS E 136	5940	8970	7550	580	-550	1040	H0
ATOM 14782	HA CYS E 136	-11.748	-13.455	32.222	1.00	58.02	H0	
ANISOU14782	HA CYS E 136	6120	8590	7330	640	-330	1110	H0
ATOM 14783	HB2 CYS E 136	-12.387	-11.359	32.954	1.00	57.63	H0	
ANISOU14783	HB2 CYS E 136	6120	8690	7090	430	-370	980	H0
ATOM 14784	HB3 CYS E 136	-11.510	-10.645	31.848	1.00	57.34	H0	
ANISOU14784	HB3 CYS E 136	5900	8670	7210	420	-320	890	H0
ATOM 14785	N ARG E 137	-11.284	-14.092	29.868	1.00	56.97	N0	
ANISOU14785	N ARG E 137	5860	8330	7460	750	-100	1030	N0
ATOM 14786	CA ARG E 137	-11.018	-14.496	28.463	1.00	56.55	C0	
ANISOU14786	CA ARG E 137	5740	8190	7550	810	50	980	C0
ATOM 14787	C ARG E 137	-12.249	-14.182	27.608	1.00	54.36	C0	
ANISOU14787	C ARG E 137	5590	7860	7210	700	200	900	C0
ATOM 14788	O ARG E 137	-13.347	-14.644	27.954	1.00	54.24	O0	
ANISOU14788	O ARG E 137	5730	7790	7090	660	220	930	O0
ATOM 14789	CB ARG E 137	-10.642	-15.977	28.403	1.00	58.20	C0	
ANISOU14789	CB ARG E 137	5990	8280	7850	970	50	1070	C0
ATOM 14790	CG ARG E 137	-9.542	-16.354	29.382	1.00	60.57	C0	
ANISOU14790	CG ARG E 137	6180	8640	8190	1090	-130	1160	C0
ATOM 14791	CD ARG E 137	-9.003	-17.754	29.191	1.00	62.60	C0	
ANISOU14791	CD ARG E 137	6460	8770	8560	1290	-130	1240	C0
ATOM 14792	NE ARG E 137	-8.173	-18.106	30.334	1.00	65.62	N0	
ANISOU14792	NE ARG E 137	6780	9210	8940	1410	-330	1350	N0
ATOM 14793	CZ ARG E 137	-6.930	-17.675	30.546	1.00	67.56	C0	
ANISOU14793	CZ ARG E 137	6780	9600	9290	1480	-440	1350	C0
ATOM 14794	NH1 ARG E 137	-6.331	-16.870	29.682	1.00	67.64	N0	
ANISOU14794	NH1 ARG E 137	6580	9710	9410	1430	-360	1240	N0

ATOM 14795 NH2 ARG E 137	-6.282	-18.059	31.633	1.00	69.65		N0
ANISOU14795 NH2 ARG E 137	7010	9920	9540	1590	-650	1460	N0
ATOM 14796 H ARG E 137	-11.759	-14.711	30.339	1.00	57.24		H0
ANISOU14796 H ARG E 137	6000	8310	7430	760	-120	1090	H0
ATOM 14797 HA ARG E 137	-10.259	-13.968	28.130	1.00	56.87		H0
ANISOU14797 HA ARG E 137	5640	8290	7670	810	50	940	H0
ATOM 14798 HB2 ARG E 137	-11.438	-16.513	28.597	1.00	57.89		H0
ANISOU14798 HB2 ARG E 137	6100	8170	7730	950	70	1100	H0
ATOM 14799 HB3 ARG E 137	-10.346	-16.191	27.493	1.00	58.20		H0
ANISOU14799 HB3 ARG E 137	5930	8240	7940	1020	140	1030	H0
ATOM 14800 HG2 ARG E 137	-8.803	-15.717	29.290	1.00	60.97		H0
ANISOU14800 HG2 ARG E 137	6070	8790	8300	1090	-160	1120	H0
ATOM 14801 HG3 ARG E 137	-9.889	-16.276	30.296	1.00	60.71		H0
ANISOU14801 HG3 ARG E 137	6280	8690	8100	1050	-220	1210	H0
ATOM 14802 HD2 ARG E 137	-9.748	-18.387	29.116	1.00	62.34		H0
ANISOU14802 HD2 ARG E 137	6590	8620	8470	1280	-70	1260	H0
ATOM 14803 HD3 ARG E 137	-8.475	-17.799	28.366	1.00	62.96		H0
ANISOU14803 HD3 ARG E 137	6390	8810	8720	1350	-50	1190	H0
ATOM 14804 HE ARG E 137	-8.522	-18.631	30.936	1.00	66.01		H0
ANISOU14804 HE ARG E 137	6960	9200	8920	1430	-390	1420	H0
ATOM 14805 HH11 ARG E 137	-6.749	-16.606	28.958	1.00	66.12		H0
ANISOU14805 HH11 ARG E 137	6420	9480	9230	1360	-230	1170	H0
ATOM 14806 HH12 ARG E 137	-5.510	-16.598	29.837	1.00	68.54		H0
ANISOU14806 HH12 ARG E 137	6520	9920	9600	1470	-430	1240	H0
ATOM 14807 HH21 ARG E 137	-6.672	-18.598	32.211	1.00	70.01		H0
ANISOU14807 HH21 ARG E 137	7210	9890	9500	1610	-700	1540	H0
ATOM 14808 HH22 ARG E 137	-5.458	-17.782	31.775	1.00	70.73		H0
ANISOU14808 HH22 ARG E 137	6970	10160	9750	1630	-730	1460	H0
ATOM 14809 N ILE E 138	-12.061	-13.410	26.537	1.00	53.41		N0
ANISOU14809 N ILE E 138	5390	7750	7150	660	300	810	N0
ATOM 14810 CA ILE E 138	-13.125	-13.031	25.563	1.00	51.50		C0
ANISOU14810 CA ILE E 138	5240	7460	6860	570	430	730	C0
ATOM 14811 C ILE E 138	-12.777	-13.669	24.217	1.00	51.63		C0
ANISOU14811 C ILE E 138	5240	7390	6990	630	570	700	C0
ATOM 14812 O ILE E 138	-11.709	-13.328	23.671	1.00	52.33		O0
ANISOU14812 O ILE E 138	5180	7510	7190	660	600	660	O0
ATOM 14813 CB ILE E 138	-13.249	-11.499	25.471	1.00	50.49		C0
ANISOU14813 CB ILE E 138	5090	7420	6680	460	430	660	C0
ATOM 14814 CG1 ILE E 138	-13.679	-10.899	26.811	1.00	50.93		C0
ANISOU14814 CG1 ILE E 138	5190	7550	6610	410	310	680	C0
ATOM 14815 CG2 ILE E 138	-14.184	-11.096	24.342	1.00	49.29		C0
ANISOU14815 CG2 ILE E 138	5020	7220	6490	400	550	580	C0
ATOM 14816 CD1 ILE E 138	-13.721	-9.391	26.824	1.00	51.08		C0
ANISOU14816 CD1 ILE E 138	5200	7630	6570	310	290	600	C0
ATOM 14817 H ILE E 138	-11.247	-13.057	26.329	1.00	53.92		H0
ANISOU14817 H ILE E 138	5330	7860	7290	670	290	790	H0
ATOM 14818 HA ILE E 138	-13.975	-13.392	25.872	1.00	51.12		H0
ANISOU14818 HA ILE E 138	5310	7390	6730	550	430	750	H0
ATOM 14819 HB ILE E 138	-12.352	-11.141	25.260	1.00	51.22		H0
ANISOU14819 HB ILE E 138	5070	7550	6840	470	420	640	H0
ATOM 14820 HG12 ILE E 138	-14.571	-11.240	27.036	1.00	50.51		H0
ANISOU14820 HG12 ILE E 138	5240	7480	6480	400	320	690	H0
ATOM 14821 HG13 ILE E 138	-13.058	-11.201	27.506	1.00	51.96		H0
ANISOU14821 HG13 ILE E 138	5270	7720	6750	450	220	730	H0

ATOM 14822 HG21 ILE E 138	-13.800	-11.360	23.488	1.00	49.39	H0
ANISOU14822 HG21 ILE E 138	5000	7190	6570	430	630	560
ATOM 14823 HG22 ILE E 138	-14.311	-10.132	24.350	1.00	48.82	H0
ANISOU14823 HG22 ILE E 138	4960	7200	6390	340	540	540
ATOM 14824 HG23 ILE E 138	-15.044	-11.535	24.458	1.00	48.81	H0
ANISOU14824 HG23 ILE E 138	5050	7130	6370	400	570	590
ATOM 14825 HD11 ILE E 138	-12.959	-9.040	26.331	1.00	51.20	H0
ANISOU14825 HD11 ILE E 138	5130	7660	6660	300	310	570
ATOM 14826 HD12 ILE E 138	-13.686	-9.073	27.743	1.00	51.26	H0
ANISOU14826 HD12 ILE E 138	5240	7710	6530	290	210	610
ATOM 14827 HD13 ILE E 138	-14.544	-9.084	26.407	1.00	49.96	H0
ANISOU14827 HD13 ILE E 138	5140	7470	6380	280	360	560
ATOM 14828 N LYS E 139	-13.637	-14.571	23.733	1.00	51.34	N0
ANISOU14828 N LYS E 139	5340	7250	6920	640	650	700
ATOM 14829 CA LYS E 139	-13.508	-15.262	22.423	1.00	51.61	C0
ANISOU14829 CA LYS E 139	5400	7180	7030	690	780	660
ATOM 14830 C LYS E 139	-14.368	-14.529	21.390	1.00	49.59	C0
ANISOU14830 C LYS E 139	5210	6920	6710	580	880	570
ATOM 14831 O LYS E 139	-15.563	-14.291	21.674	1.00	48.04	O0
ANISOU14831 O LYS E 139	5110	6750	6400	490	850	570
ATOM 14832 CB LYS E 139	-13.950	-16.725	22.527	1.00	53.54	C0
ANISOU14832 CB LYS E 139	5780	7290	7270	740	800	710
ATOM 14833 CG LYS E 139	-12.932	-17.676	23.144	1.00	56.61	C0
ANISOU14833 CG LYS E 139	6130	7620	7760	900	740	790
ATOM 14834 CD LYS E 139	-13.094	-19.113	22.679	1.00	58.19	C0
ANISOU14834 CD LYS E 139	6470	7640	8000	980	810	810
ATOM 14835 CE LYS E 139	-11.977	-20.024	23.143	1.00	60.97	C0
ANISOU14835 CE LYS E 139	6780	7930	8460	1170	750	890
ATOM 14836 NZ LYS E 139	-11.677	-21.073	22.138	1.00	62.53	N0
ANISOU14836 NZ LYS E 139	7050	7960	8750	1290	880	850
ATOM 14837 H LYS E 139	-14.381	-14.821	24.194	1.00	51.04	H0
ANISOU14837 H LYS E 139	5390	7190	6810	610	620	730
ATOM 14838 HA LYS E 139	-12.566	-15.230	22.139	1.00	52.46	H0
ANISOU14838 HA LYS E 139	5400	7300	7240	750	800	650
ATOM 14839 HB2 LYS E 139	-14.771	-16.763	23.061	1.00	53.04	H0
ANISOU14839 HB2 LYS E 139	5800	7230	7120	680	760	740
ATOM 14840 HB3 LYS E 139	-14.168	-17.046	21.627	1.00	53.39	H0
ANISOU14840 HB3 LYS E 139	5820	7200	7270	740	900	670
ATOM 14841 HG2 LYS E 139	-12.030	-17.366	22.914	1.00	57.00	H0
ANISOU14841 HG2 LYS E 139	6040	7720	7900	960	740	770
ATOM 14842 HG3 LYS E 139	-13.020	-17.644	24.120	1.00	56.66	H0
ANISOU14842 HG3 LYS E 139	6140	7670	7720	900	640	860
ATOM 14843 HD2 LYS E 139	-13.947	-19.462	23.015	1.00	57.87	H0
ANISOU14843 HD2 LYS E 139	6560	7560	7870	910	800	840
ATOM 14844 HD3 LYS E 139	-13.128	-19.129	21.699	1.00	57.94	H0
ANISOU14844 HD3 LYS E 139	6450	7570	7990	970	920	750
ATOM 14845 HE2 LYS E 139	-11.170	-19.499	23.303	1.00	61.29	H0
ANISOU14845 HE2 LYS E 139	6660	8060	8560	1220	710	890
ATOM 14846 HE3 LYS E 139	-12.231	-20.452	23.982	1.00	61.36	H0
ANISOU14846 HE3 LYS E 139	6910	7950	8460	1180	670	970
ATOM 14847 HZ1 LYS E 139	-12.432	-21.533	21.939	1.00	62.06	H0
ANISOU14847 HZ1 LYS E 139	7140	7810	8630	1220	920	850
ATOM 14848 HZ2 LYS E 139	-11.057	-21.647	22.469	1.00	63.77	H0
ANISOU14848 HZ2 LYS E 139	7190	8070	8970	1420	840	900

ATOM 14849	HZ3 LYS E 139	-11.353	-20.691	21.382	1.00	62.15	H0
ANISOU14849	HZ3 LYS E 139	6920	7940	8750	1280	960 780	H0
ATOM 14850	N ILE E 140	-13.786	-14.213	20.231	1.00	48.41	N0
ANISOU14850	N ILE E 140	5010	6760	6630	580	980 500	N0
ATOM 14851	CA ILE E 140	-14.452	-13.465	19.125	1.00	47.39	C0
ANISOU14851	CA ILE E 140	4940	6630	6430	480	1070 430	C0
ATOM 14852	C ILE E 140	-14.165	-14.188	17.807	1.00	47.18	C0
ANISOU14852	C ILE E 140	4960	6510	6460	520	1210 380	C0
ATOM 14853	O ILE E 140	-12.981	-14.411	17.507	1.00	47.38	O0
ANISOU14853	O ILE E 140	4880	6530	6590	600	1270 370	O0
ATOM 14854	CB ILE E 140	-13.984	-11.997	19.097	1.00	47.52	C0
ANISOU14854	CB ILE E 140	4870	6740	6440	420	1050 390	C0
ATOM 14855	CG1 ILE E 140	-14.579	-11.206	20.265	1.00	47.44	C0
ANISOU14855	CG1 ILE E 140	4880	6810	6340	370	920 420	C0
ATOM 14856	CG2 ILE E 140	-14.307	-11.348	17.758	1.00	47.43	C0
ANISOU14856	CG2 ILE E 140	4930	6710	6380	350	1150 320	C0
ATOM 14857	CD1 ILE E 140	-13.801	-9.964	20.619	1.00	48.27	C0
ANISOU14857	CD1 ILE E 140	4890	6990	6460	320	870 400	C0
ATOM 14858	H ILE E 140	-12.924	-14.440	20.041	1.00	49.58	H0
ANISOU14858	H ILE E 140	5070	6900	6860	640	1010 500	H0
ATOM 14859	HA ILE E 140	-15.411	-13.476	19.282	1.00	46.63	H0
ANISOU14859	HA ILE E 140	4930	6530	6250	440	1040 430	H0
ATOM 14860	HB ILE E 140	-13.001	-11.995	19.204	1.00	48.47	H0
ANISOU14860	HB ILE E 140	4890	6890	6640	460	1050 400	H0
ATOM 14861	HG12 ILE E 140	-15.497	-10.947	20.034	1.00	46.66	H0
ANISOU14861	HG12 ILE E 140	4860	6700	6160	330	930 400	H0
ATOM 14862	HG13 ILE E 140	-14.619	-11.786	21.053	1.00	47.74	H0
ANISOU14862	HG13 ILE E 140	4910	6850	6380	410	860 470	H0
ATOM 14863	HG21 ILE E 140	-13.653	-11.626	17.093	1.00	47.93	H0
ANISOU14863	HG21 ILE E 140	4960	6740	6510	380	1230 300	H0
ATOM 14864	HG22 ILE E 140	-14.279	-10.380	17.849	1.00	46.98	H0
ANISOU14864	HG22 ILE E 140	4860	6690	6290	300	1120 310	H0
ATOM 14865	HG23 ILE E 140	-15.196	-11.618	17.469	1.00	46.74	H0
ANISOU14865	HG23 ILE E 140	4940	6580	6230	330	1160 310	H0
ATOM 14866	HD11 ILE E 140	-12.861	-10.189	20.732	1.00	48.99	H0
ANISOU14866	HD11 ILE E 140	4870	7100	6640	360	870 420	H0
ATOM 14867	HD12 ILE E 140	-14.146	-9.589	21.448	1.00	47.86	H0
ANISOU14867	HD12 ILE E 140	4850	6980	6350	300	790 420	H0
ATOM 14868	HD13 ILE E 140	-13.892	-9.308	19.906	1.00	47.78	H0
ANISOU14868	HD13 ILE E 140	4850	6920	6380	270	930 360	H0
ATOM 14869	N GLY E 141	-15.220	-14.531	17.062	1.00	46.03	N0
ANISOU14869	N GLY E 141	4960	6300	6230	460	1260 340	N0
ATOM 14870	CA GLY E 141	-15.128	-15.282	15.797	1.00	46.09	C0
ANISOU14870	CA GLY E 141	5050	6210	6250	480	1390 280	C0
ATOM 14871	C GLY E 141	-16.357	-15.070	14.936	1.00	44.77	C0
ANISOU14871	C GLY E 141	5020	6020	5960	380	1420 230	C0
ATOM 14872	O GLY E 141	-17.314	-14.422	15.411	1.00	43.75	O0
ANISOU14872	O GLY E 141	4910	5970	5750	310	1330 250	O0
ATOM 14873	H GLY E 141	-16.072	-14.315	17.303	1.00	45.33	H0
ANISOU14873	H GLY E 141	4930	6230	6060	410	1220 350	H0
ATOM 14874	HA2 GLY E 141	-14.325	-14.984	15.301	1.00	46.60	H0
ANISOU14874	HA2 GLY E 141	5050	6280	6370	510	1460 260	H0
ATOM 14875	HA3 GLY E 141	-15.028	-16.245	15.998	1.00	46.81	H0
ANISOU14875	HA3 GLY E 141	5180	6230	6380	540	1400 310	H0

ATOM 14876 N SER E 142	-16.330 -15.583 13.707 1.00 44.21	N0
ANISOU14876 N SER E 142	5050 5870 5880 370 1530 170	N0
ATOM 14877 CA SER E 142	-17.479 -15.561 12.771 1.00 43.47	C0
ANISOU14877 CA SER E 142	5100 5760 5660 270 1550 120	C0
ATOM 14878 C SER E 142	-18.599 -16.437 13.339 1.00 43.51	C0
ANISOU14878 C SER E 142	5180 5730 5620 220 1480 140	C0
ATOM 14879 O SER E 142	-18.279 -17.465 13.976 1.00 44.91	O0
ANISOU14879 O SER E 142	5370 5830 5860 280 1480 190	O0
ATOM 14880 CB SER E 142	-17.081 -16.014 11.400 1.00 44.11	C0
ANISOU14880 CB SER E 142	5270 5750 5740 270 1690 40	C0
ATOM 14881 OG SER E 142	-18.199 -15.982 10.529 1.00 43.74	O0
ANISOU14881 OG SER E 142	5360 5700 5560 170 1690 0	O0
ATOM 14882 H SER E 142	-15.597 -15.989 13.350 1.00 45.23	H0
ANISOU14882 H SER E 142	5160 5950 6070 430 1610 150	H0
ATOM 14883 HA SER E 142	-17.813 -14.625 12.711 1.00 42.79	H0
ANISOU14883 HA SER E 142	4990 5750 5520 220 1510 110	H0
ATOM 14884 HB2 SER E 142	-16.373 -15.427 11.052 1.00 44.33	H0
ANISOU14884 HB2 SER E 142	5240 5810 5790 290 1740 30	H0
ATOM 14885 HB3 SER E 142	-16.726 -16.929 11.449 1.00 44.97	H0
ANISOU14885 HB3 SER E 142	5410 5780 5900 330 1740 40	H0
ATOM 14886 N TRP E 143	-19.856 -16.044 13.112 1.00 42.19	N0
ANISOU14886 N TRP E 143	5070 5630 5340 120 1430 120	N0
ATOM 14887 CA TRP E 143	-21.056 -16.808 13.541 1.00 41.33	C0
ANISOU14887 CA TRP E 143	5030 5510 5160 40 1370 140	C0
ATOM 14888 C TRP E 143	-21.413 -17.859 12.482 1.00 41.66	C0
ANISOU14888 C TRP E 143	5220 5440 5160 -20 1440 80	C0
ATOM 14889 O TRP E 143	-21.831 -18.955 12.882 1.00 41.52	O0
ANISOU14889 O TRP E 143	5280 5350 5150 -60 1440 100	O0
ATOM 14890 CB TRP E 143	-22.235 -15.871 13.833 1.00 40.09	C0
ANISOU14890 CB TRP E 143	4820 5500 4910 -30 1280 140	C0
ATOM 14891 CG TRP E 143	-23.351 -16.564 14.548 1.00 40.34	C0
ANISOU14891 CG TRP E 143	4870 5560 4890 -110 1220 160	C0
ATOM 14892 CD1 TRP E 143	-24.610 -16.810 14.084 1.00 40.33	C0
ANISOU14892 CD1 TRP E 143	4910 5610 4800 -220 1200 120	C0
ATOM 14893 CD2 TRP E 143	-23.286 -17.145 15.863 1.00 40.82	C0
ANISOU14893 CD2 TRP E 143	4910 5610 4990 -100 1190 240	C0
ATOM 14894 NE1 TRP E 143	-25.333 -17.500 15.020 1.00 41.02	N0
ANISOU14894 NE1 TRP E 143	4990 5720 4870 -300 1170 160	N0
ATOM 14895 CE2 TRP E 143	-24.550 -17.716 16.124 1.00 40.84	C0
ANISOU14895 CE2 TRP E 143	4940 5660 4920 -220 1170 240	C0
ATOM 14896 CE3 TRP E 143	-22.285 -17.243 16.837 1.00 40.84	C0
ANISOU14896 CE3 TRP E 143	4860 5580 5070 0 1180 300	C0
ATOM 14897 CZ2 TRP E 143	-24.830 -18.377 17.317 1.00 41.39	C0
ANISOU14897 CZ2 TRP E 143	5020 5720 4980 -260 1150 300	C0
ATOM 14898 CZ3 TRP E 143	-22.568 -17.890 18.019 1.00 41.31	C0
ANISOU14898 CZ3 TRP E 143	4940 5640 5130 -20 1140 370	C0
ATOM 14899 CH2 TRP E 143	-23.823 -18.449 18.252 1.00 41.48	C0
ANISOU14899 CH2 TRP E 143	5010 5690 5060 -150 1130 370	C0
ATOM 14900 H TRP E 143	-20.059 -15.273 12.671 1.00 41.69	H0
ANISOU14900 H TRP E 143	5000 5620 5220 100 1420 100	H0
ATOM 14901 HA TRP E 143	-20.830 -17.274 14.380 1.00 41.55	H0
ANISOU14901 HA TRP E 143	5030 5520 5240 80 1350 190	H0
ATOM 14902 HB2 TRP E 143	-21.914 -15.123 14.376 1.00 39.68	H0
ANISOU14902 HB2 TRP E 143	4690 5510 4880 20 1240 170	H0

ATOM 14903 HB3 TRP E 143	-22.566	-15.511	12.984	1.00	40.12		H0
ANISOU14903 HB3 TRP E 143	4860	5520	4860	-60	1290	100	H0
ATOM 14904 HD1 TRP E 143	-24.944	-16.542	13.241	1.00	40.52		H0
ANISOU14904 HD1 TRP E 143	4960	5650	4780	-250	1200	80	H0
ATOM 14905 HE1 TRP E 143	-26.166	-17.748	14.930	1.00	41.28		H0
ANISOU14905 HE1 TRP E 143	5040	5800	4850	-380	1150	150	H0
ATOM 14906 HE3 TRP E 143	-21.430	-16.874	16.683	1.00	40.74		H0
ANISOU14906 HE3 TRP E 143	4810	5550	5120	70	1200	300	H0
ATOM 14907 HZ2 TRP E 143	-25.679	-18.745	17.482	1.00	41.77		H0
ANISOU14907 HZ2 TRP E 143	5090	5800	4980	-350	1140	300	H0
ATOM 14908 HZ3 TRP E 143	-21.901	-17.957	18.684	1.00	41.43		H0
ANISOU14908 HZ3 TRP E 143	4920	5630	5190	40	1120	420	H0
ATOM 14909 HH2 TRP E 143	-23.991	-18.876	19.073	1.00	41.90		H0
ANISOU14909 HH2 TRP E 143	5080	5730	5100	-180	1110	430	H0
ATOM 14910 N THR E 144	-21.265	-17.541	11.189	1.00	41.31		N0
ANISOU14910 N THR E 144	5240	5380	5070	-40	1510	10	N0
ATOM 14911 CA THR E 144	-21.779	-18.386	10.074	1.00	42.45		C0
ANISOU14911 CA THR E 144	5550	5430	5140	-120	1560	-70	C0
ATOM 14912 C THR E 144	-20.707	-18.716	9.024	1.00	43.28		C0
ANISOU14912 C THR E 144	5740	5420	5280	-60	1700	-130	C0
ATOM 14913 O THR E 144	-21.053	-19.475	8.103	1.00	44.63		O0
ANISOU14913 O THR E 144	6070	5500	5380	-130	1760	-200	O0
ATOM 14914 CB THR E 144	-22.998	-17.736	9.402	1.00	41.91		C0
ANISOU14914 CB THR E 144	5510	5480	4940	-240	1490	-100	C0
ATOM 14915 OG1 THR E 144	-22.571	-16.569	8.701	1.00	40.99		O0
ANISOU14915 OG1 THR E 144	5370	5420	4790	-200	1500	-120	O0
ATOM 14916 CG2 THR E 144	-24.088	-17.374	10.387	1.00	41.31		C0
ANISOU14916 CG2 THR E 144	5330	5530	4830	-290	1360	-60	C0
ATOM 14917 H THR E 144	-20.870	-16.773	10.899	1.00	41.15		H0
ANISOU14917 H THR E 144	5180	5400	5060	-10	1520	0	H0
ATOM 14918 HA THR E 144	-22.077	-19.233	10.468	1.00	42.84		H0
ANISOU14918 HA THR E 144	5650	5430	5200	-150	1560	-50	H0
ATOM 14919 HB THR E 144	-23.366	-18.379	8.750	1.00	42.62		H0
ANISOU14919 HB THR E 144	5710	5510	4980	-310	1510	-150	H0
ATOM 14920 HG21 THR E 144	-24.272	-18.136	10.965	1.00	41.63		H0
ANISOU14920 HG21 THR E 144	5380	5540	4900	-310	1360	-30	H0
ATOM 14921 HG22 THR E 144	-24.898	-17.133	9.903	1.00	41.36		H0
ANISOU14921 HG22 THR E 144	5350	5600	4750	-350	1320	-90	H0
ATOM 14922 HG23 THR E 144	-23.800	-16.619	10.931	1.00	40.57		H0
ANISOU14922 HG23 THR E 144	5140	5500	4770	-220	1340	-20	H0
ATOM 14923 N HIS E 145	-19.481	-18.188	9.130	1.00	43.34		N0
ANISOU14923 N HIS E 145	5640	5440	5380	50	1770	-110	N0
ATOM 14924 CA HIS E 145	-18.400	-18.379	8.121	1.00	44.49		C0
ANISOU14924 CA HIS E 145	5840	5510	5560	110	1920	-170	C0
ATOM 14925 C HIS E 145	-17.256	-19.203	8.720	1.00	45.67		C0
ANISOU14925 C HIS E 145	5920	5570	5860	260	1990	-150	C0
ATOM 14926 O HIS E 145	-16.596	-18.706	9.653	1.00	45.48		O0
ANISOU14926 O HIS E 145	5730	5610	5940	340	1950	-80	O0
ATOM 14927 CB HIS E 145	-17.911	-17.033	7.568	1.00	43.98		C0
ANISOU14927 CB HIS E 145	5700	5540	5470	110	1960	-180	C0
ATOM 14928 CG HIS E 145	-18.942	-16.320	6.765	1.00	43.41		C0
ANISOU14928 CG HIS E 145	5730	5530	5230	-10	1900	-210	C0
ATOM 14929 ND1 HIS E 145	-19.294	-16.727	5.494	1.00	44.17		N0
ANISOU14929 ND1 HIS E 145	6000	5570	5210	-80	1960	-290	N0

ATOM 14930	CD2 HIS E 145	-19.707	-15.244	7.047	1.00	42.25	C0
ANISOU14930	CD2 HIS E 145	5530	5500	5020	-60	1770 -170	C0
ATOM 14931	CE1 HIS E 145	-20.229	-15.930	5.024	1.00	43.96	C0
ANISOU14931	CE1 HIS E 145	6020	5620	5060	-170	1870 -290	C0
ATOM 14932	NE2 HIS E 145	-20.502	-15.010	5.960	1.00	42.86	N0
ANISOU14932	NE2 HIS E 145	5750	5590	4950	-140	1750 -220	N0
ATOM 14933	H HIS E 145	-19.211	-17.678	9.834	1.00	42.74	H0
ANISOU14933	H HIS E 145	5460	5430	5350	90	1720 -60	H0
ATOM 14934	HA HIS E 145	-18.779	-18.893	7.370	1.00	45.14	H0
ANISOU14934	HA HIS E 145	6050	5530	5570	60	1970 -230	H0
ATOM 14935	HB2 HIS E 145	-17.635	-16.460	8.316	1.00	43.35	H0
ANISOU14935	HB2 HIS E 145	5500	5530	5440	140	1900 -130	H0
ATOM 14936	HB3 HIS E 145	-17.121	-17.189	7.004	1.00	44.82	H0
ANISOU14936	HB3 HIS E 145	5820	5600	5600	150	2070 -220	H0
ATOM 14937	HD2 HIS E 145	-19.697	-14.745	7.839	1.00	41.64	H0
ANISOU14937	HD2 HIS E 145	5360	5480	4990	-30	1710 -120	H0
ATOM 14938	HE1 HIS E 145	-20.633	-15.995	4.177	1.00	44.46	H0
ANISOU14938	HE1 HIS E 145	6200	5670	5020	-230	1880 -330	H0
ATOM 14939	N HIS E 146	-17.035	-20.411	8.190	1.00	46.98	N0
ANISOU14939	N HIS E 146	6230	5580	6040	300	2100 -200	N0
ATOM 14940	CA HIS E 146	-15.941	-21.334	8.594	1.00	48.86	C0
ANISOU14940	CA HIS E 146	6440	5700	6430	470	2180 -190	C0
ATOM 14941	C HIS E 146	-14.608	-20.824	8.030	1.00	50.03	C0
ANISOU14941	C HIS E 146	6460	5890	6660	570	2310 -230	C0
ATOM 14942	O HIS E 146	-14.612	-19.758	7.392	1.00	49.20	O0
ANISOU14942	O HIS E 146	6310	5900	6480	490	2340 -260	O0
ATOM 14943	CB HIS E 146	-16.265	-22.788	8.207	1.00	50.13	C0
ANISOU14943	CB HIS E 146	6820	5660	6570	470	2240 -240	C0
ATOM 14944	CG HIS E 146	-16.580	-23.026	6.770	1.00	50.83	C0
ANISOU14944	CG HIS E 146	7100	5680	6540	380	2350 -360	C0
ATOM 14945	ND1 HIS E 146	-15.619	-22.991	5.777	1.00	52.64	N0
ANISOU14945	ND1 HIS E 146	7340	5880	6780	460	2520 -450	N0
ATOM 14946	CD2 HIS E 146	-17.739	-23.356	6.163	1.00	51.03	C0
ANISOU14946	CD2 HIS E 146	7310	5660	6410	210	2310 -410	C0
ATOM 14947	CE1 HIS E 146	-16.179	-23.269	4.615	1.00	53.24	C0
ANISOU14947	CE1 HIS E 146	7620	5890	6720	350	2590 -540	C0
ATOM 14948	NE2 HIS E 146	-17.481	-23.496	4.828	1.00	53.01	N0
ANISOU14948	NE2 HIS E 146	7700	5850	6590	190	2450 -530	N0
ATOM 14949	H HIS E 146	-17.556	-20.759	7.529	1.00	47.49	H0
ANISOU14949	H HIS E 146	6430	5590	6030	230	2120 -250	H0
ATOM 14950	HA HIS E 146	-15.877	-21.297	9.577	1.00	48.38	H0
ANISOU14950	HA HIS E 146	6280	5670	6430	510	2090 -120	H0
ATOM 14951	HB2 HIS E 146	-15.502	-23.356	8.453	1.00	51.24	H0
ANISOU14951	HB2 HIS E 146	6940	5720	6810	600	2290 -230	H0
ATOM 14952	HB3 HIS E 146	-17.033	-23.086	8.743	1.00	49.77	H0
ANISOU14952	HB3 HIS E 146	6830	5600	6480	400	2140 -200	H0
ATOM 14953	HD2 HIS E 146	-18.575	-23.463	6.577	1.00	50.64	H0
ANISOU14953	HD2 HIS E 146	7290	5630	6320	120	2210 -380	H0
ATOM 14954	HE1 HIS E 146	-15.741	-23.297	3.782	1.00	54.27	H0
ANISOU14954	HE1 HIS E 146	7810	5990	6820	370	2710 -620	H0
ATOM 14955	N SER E 147	-13.519	-21.564	8.271	1.00	52.47	N0
ANISOU14955	N SER E 147	6700	6120	7110	750	2390 -230	N0
ATOM 14956	CA SER E 147	-12.106	-21.148	8.052	1.00	54.29	C0
ANISOU14956	CA SER E 147	6740	6430	7460	880	2510 -250	C0

ATOM 14957 C SER E 147	-11.773 -20.955 6.564 1.00 55.77	C0
ANISOU14957 C SER E 147	7010 6610 7570 840 2710 -370	C0
ATOM 14958 O SER E 147	-10.797 -20.240 6.282 1.00 56.50	O0
ANISOU14958 O SER E 147	6930 6810 7720 870 2800 -390	O0
ATOM 14959 CB SER E 147	-11.168 -22.139 8.681 1.00 55.83	C0
ANISOU14959 CB SER E 147	6860 6540 7810 1090 2540 -230	C0
ATOM 14960 OG SER E 147	-11.303 -23.410 8.070 1.00 57.34	O0
ANISOU14960 OG SER E 147	7270 6520 7990 1160 2640 -300	O0
ATOM 14961 H SER E 147	-13.571 -22.408 8.607 1.00 53.13	H0
ANISOU14961 H SER E 147	6860 6100 7230 810 2380 -220	H0
ATOM 14962 HA SER E 147	-11.977 -20.275 8.507 1.00 53.26	H0
ANISOU14962 HA SER E 147	6470 6420 7340 840 2440 -210	H0
ATOM 14963 HB2 SER E 147	-10.242 -21.822 8.582 1.00 56.60	H0
ANISOU14963 HB2 SER E 147	6800 6710 8000 1170 2610 -240	H0
ATOM 14964 HB3 SER E 147	-11.366 -22.213 9.642 1.00 55.31	H0
ANISOU14964 HB3 SER E 147	6750 6480 7780 1110 2410 -150	H0
ATOM 14965 N ARG E 148	-12.522 -21.578 5.649 1.00 57.28	N0
ANISOU14965 N ARG E 148	7450 6670 7630 760 2770 -450	N0
ATOM 14966 CA ARG E 148	-12.304 -21.458 4.178 1.00 59.58	C0
ANISOU14966 CA ARG E 148	7870 6950 7820 700 2950 -560	C0
ATOM 14967 C ARG E 148	-13.004 -20.199 3.650 1.00 57.41	C0
ANISOU14967 C ARG E 148	7620 6800 7390 510 2890 -560	C0
ATOM 14968 O ARG E 148	-12.798 -19.872 2.464 1.00 56.88	O0
ANISOU14968 O ARG E 148	7650 6740 7220 450 3030 -630	O0
ATOM 14969 CB ARG E 148	-12.822 -22.698 3.439 1.00 62.30	C0
ANISOU14969 CB ARG E 148	8490 7090 8080 690 3030 -660	C0
ATOM 14970 CG ARG E 148	-12.023 -23.971 3.684 1.00 65.70	C0
ANISOU14970 CG ARG E 148	8940 7360 8660 900 3130 -690	C0
ATOM 14971 CD ARG E 148	-11.015 -24.295 2.592 1.00 69.61	C0
ANISOU14971 CD ARG E 148	9470 7810 9170 1010 3380 -810	C0
ATOM 14972 NE ARG E 148	-9.726 -23.636 2.793 1.00 71.66	N0
ANISOU14972 NE ARG E 148	9440 8220 9570 1130 3470 -790	N0
ATOM 14973 CZ ARG E 148	-9.355 -22.463 2.272 1.00 71.83	C0
ANISOU14973 CZ ARG E 148	9340 8410 9550 1040 3540 -800	C0
ATOM 14974 NH1 ARG E 148	-10.172 -21.778 1.486 1.00 71.29	N0
ANISOU14974 NH1 ARG E 148	9420 8380 9280 830 3520 -830	N0
ATOM 14975 NH2 ARG E 148	-8.154 -21.978 2.542 1.00 72.76	N0
ANISOU14975 NH2 ARG E 148	9180 8660 9810 1150 3620 -790	N0
ATOM 14976 H ARG E 148	-13.208 -22.131 5.873 1.00 57.09	H0
ANISOU14976 H ARG E 148	7550 6570 7570 720 2700 -440	H0
ATOM 14977 HA ARG E 148	-11.337 -21.373 4.014 1.00 60.49	H0
ANISOU14977 HA ARG E 148	7870 7090 8020 800 3060 -590	H0
ATOM 14978 HB2 ARG E 148	-13.746 -22.854 3.713 1.00 61.37	H0
ANISOU14978 HB2 ARG E 148	8470 6950 7900 600 2910 -630	H0
ATOM 14979 HB3 ARG E 148	-12.827 -22.508 2.478 1.00 62.80	H0
ANISOU14979 HB3 ARG E 148	8650 7160 8050 630 3130 -730	H0
ATOM 14980 HG2 ARG E 148	-11.545 -23.887 4.536 1.00 65.56	H0
ANISOU14980 HG2 ARG E 148	8760 7390 8760 1000 3070 -620	H0
ATOM 14981 HG3 ARG E 148	-12.646 -24.725 3.768 1.00 65.98	H0
ANISOU14981 HG3 ARG E 148	9150 7270 8650 870 3080 -700	H0
ATOM 14982 HD2 ARG E 148	-10.874 -25.265 2.572 1.00 70.94	H0
ANISOU14982 HD2 ARG E 148	9750 7830 9380 1110 3440 -850	H0
ATOM 14983 HD3 ARG E 148	-11.384 -24.033 1.723 1.00 69.53	H0
ANISOU14983 HD3 ARG E 148	9590 7800 9020 890 3440 -870	H0

ATOM 14984 HE ARG E 148	-9.148	-24.041	3.306	1.00	72.34	H0
ANISOU14984 HE ARG E 148	9420	8280	9780	1280	3480	-770 H0
ATOM 14985 HH11 ARG E 148	-10.969	-22.087	1.297	1.00	70.59	H0
ANISOU14985 HH11 ARG E 148	9510	8220	9100	750	3460	-840 H0
ATOM 14986 HH12 ARG E 148	-9.910	-21.012	1.147	1.00	70.85	H0
ANISOU14986 HH12 ARG E 148	9300	8420	9190	770	3570	-830 H0
ATOM 14987 HH21 ARG E 148	-7.605	-22.429	3.063	1.00	73.52	H0
ANISOU14987 HH21 ARG E 148	9160	8740	10040	1290	3620	-770 H0
ATOM 14988 HH22 ARG E 148	-7.902	-21.208	2.198	1.00	72.48	H0
ANISOU14988 HH22 ARG E 148	9070	8730	9740	1070	3670	-790 H0
ATOM 14989 N GLU E 149	-13.803	-19.530	4.491	1.00	55.14	N0
ANISOU14989 N GLU E 149	7270	6600	7080	430	2690	-460 N0
ATOM 14990 CA GLU E 149	-14.610	-18.339	4.111	1.00	53.90	C0
ANISOU14990 CA GLU E 149	7150	6550	6780	270	2600	-450 C0
ATOM 14991 C GLU E 149	-14.134	-17.106	4.888	1.00	52.45	C0
ANISOU14991 C GLU E 149	6750	6510	6670	280	2530	-370 C0
ATOM 14992 O GLU E 149	-13.991	-16.046	4.258	1.00	52.00	O0
ANISOU14992 O GLU E 149	6700	6530	6530	200	2570	-370 O0
ATOM 14993 CB GLU E 149	-16.093	-18.623	4.344	1.00	53.46	C0
ANISOU14993 CB GLU E 149	7220	6470	6620	170	2440	-430 C0
ATOM 14994 CG GLU E 149	-16.690	-19.573	3.320	1.00	55.13	C0
ANISOU14994 CG GLU E 149	7680	6560	6710	100	2500	-520 C0
ATOM 14995 CD GLU E 149	-18.180	-19.803	3.495	1.00	55.19	C0
ANISOU14995 CD GLU E 149	7790	6580	6600	-30	2340	-510 C0
ATOM 14996 OE1 GLU E 149	-18.732	-19.310	4.495	1.00	54.65	O0
ANISOU14996 OE1 GLU E 149	7590	6600	6570	-50	2190	-420 O0
ATOM 14997 OE2 GLU E 149	-18.789	-20.471	2.637	1.00	56.29	O0
ANISOU14997 OE2 GLU E 149	8130	6640	6620	-120	2360	-580 O0
ATOM 14998 H GLU E 149	-13.920	-19.780	5.356	1.00	54.80	H0
ANISOU14998 H GLU E 149	7160	6550	7110	470	2600	-410 H0
ATOM 14999 HA GLU E 149	-14.475	-18.170	3.150	1.00	54.59	H0
ANISOU14999 HA GLU E 149	7330	6630	6780	230	2700	-510 H0
ATOM 15000 HB2 GLU E 149	-16.201	-19.008	5.239	1.00	53.09	H0
ANISOU15000 HB2 GLU E 149	7110	6410	6650	210	2370	-380 H0
ATOM 15001 HB3 GLU E 149	-16.583	-17.775	4.317	1.00	52.50	H0
ANISOU15001 HB3 GLU E 149	7090	6440	6420	100	2360	-400 H0
ATOM 15002 HG2 GLU E 149	-16.532	-19.214	2.420	1.00	55.69	H0
ANISOU15002 HG2 GLU E 149	7820	6650	6690	60	2580	-570 H0
ATOM 15003 HG3 GLU E 149	-16.231	-20.438	3.380	1.00	56.22	H0
ANISOU15003 HG3 GLU E 149	7850	6600	6910	180	2580	-550 H0
ATOM 15004 N ILE E 150	-13.930	-17.231	6.203	1.00	51.61	N0
ANISOU15004 N ILE E 150	6480	6430	6690	360	2430	-290 N0
ATOM 15005 CA ILE E 150	-13.313	-16.175	7.062	1.00	50.94	C0
ANISOU15005 CA ILE E 150	6190	6480	6690	380	2360	-220 C0
ATOM 15006 C ILE E 150	-12.222	-16.816	7.920	1.00	52.25	C0
ANISOU15006 C ILE E 150	6170	6640	7040	530	2380	-190 C0
ATOM 15007 O ILE E 150	-12.510	-17.824	8.585	1.00	53.02	O0
ANISOU15007 O ILE E 150	6300	6650	7180	610	2320	-160 O0
ATOM 15008 CB ILE E 150	-14.366	-15.457	7.932	1.00	49.09	C0
ANISOU15008 CB ILE E 150	5940	6310	6400	300	2160	-150 C0
ATOM 15009 CG1 ILE E 150	-15.229	-14.509	7.097	1.00	48.40	C0
ANISOU15009 CG1 ILE E 150	5980	6260	6140	170	2130	-170 C0
ATOM 15010 CG2 ILE E 150	-13.709	-14.737	9.103	1.00	48.47	C0
ANISOU15010 CG2 ILE E 150	5660	6340	6420	340	2080	-80 C0

ATOM 15011	CD1 ILE E 150	-16.310	-13.799	7.885	1.00	47.16	C0	
ANISOU15011	CD1 ILE E 150	5810	6180	5930	120	1950	-110	C0
ATOM 15012	H ILE E 150	-14.170	-17.977	6.667	1.00	51.78	H0	
ANISOU15012	H ILE E 150	6530	6400	6750	410	2380	-270	H0
ATOM 15013	HA ILE E 150	-12.899	-15.514	6.482	1.00	51.27	H0	
ANISOU15013	HA ILE E 150	6210	6570	6710	340	2430	-240	H0
ATOM 15014	HB ILE E 150	-14.965	-16.151	8.305	1.00	48.88	H0	
ANISOU15014	HB ILE E 150	5970	6240	6360	310	2100	-130	H0
ATOM 15015	HG12 ILE E 150	-14.648	-13.836	6.683	1.00	48.77	H0	
ANISOU15015	HG12 ILE E 150	6000	6350	6190	150	2200	-180	H0
ATOM 15016	HG13 ILE E 150	-15.652	-15.025	6.380	1.00	48.88	H0	
ANISOU15016	HG13 ILE E 150	6170	6270	6130	140	2180	-210	H0
ATOM 15017	HG21 ILE E 150	-13.373	-15.389	9.742	1.00	48.91	H0	
ANISOU15017	HG21 ILE E 150	5650	6370	6570	430	2060	-50	H0
ATOM 15018	HG22 ILE E 150	-14.361	-14.166	9.545	1.00	47.48	H0	
ANISOU15018	HG22 ILE E 150	5540	6260	6250	290	1970	-40	H0
ATOM 15019	HG23 ILE E 150	-12.972	-14.192	8.779	1.00	49.01	H0	
ANISOU15019	HG23 ILE E 150	5650	6450	6520	330	2150	-90	H0
ATOM 15020	HD11 ILE E 150	-16.632	-14.381	8.595	1.00	46.81	H0	
ANISOU15020	HD11 ILE E 150	5740	6120	5920	150	1890	-80	H0
ATOM 15021	HD12 ILE E 150	-17.049	-13.573	7.293	1.00	46.86	H0	
ANISOU15021	HD12 ILE E 150	5880	6140	5780	60	1930	-130	H0
ATOM 15022	HD13 ILE E 150	-15.948	-12.984	8.274	1.00	46.72	H0	
ANISOU15022	HD13 ILE E 150	5670	6180	5900	120	1920	-80	H0
ATOM 15023	N SER E 151	-11.019	-16.239	7.894	1.00	53.70	N0	
ANISOU15023	N SER E 151	6170	6910	7320	570	2460	-190	N0
ATOM 15024	CA SER E 151	-9.941	-16.480	8.885	1.00	55.46	C0	
ANISOU15024	CA SER E 151	6160	7190	7720	710	2440	-150	C0
ATOM 15025	C SER E 151	-9.872	-15.264	9.813	1.00	55.46	C0	
ANISOU15025	C SER E 151	6010	7330	7730	630	2290	-80	C0
ATOM 15026	O SER E 151	-10.072	-14.134	9.316	1.00	54.90	O0	
ANISOU15026	O SER E 151	5980	7310	7570	500	2310	-90	O0
ATOM 15027	CB SER E 151	-8.621	-16.756	8.206	1.00	57.64	C0	
ANISOU15027	CB SER E 151	6310	7490	8100	810	2630	-210	C0
ATOM 15028	OG SER E 151	-8.170	-15.615	7.496	1.00	57.73	O0	
ANISOU15028	OG SER E 151	6270	7600	8070	680	2730	-250	O0
ATOM 15029	H SER E 151	-10.767	-15.644	7.252	1.00	53.97	H0	
ANISOU15029	H SER E 151	6210	6990	7310	510	2540	-230	H0
ATOM 15030	HA SER E 151	-10.192	-17.273	9.426	1.00	55.58	H0	
ANISOU15030	HA SER E 151	6210	7140	7770	790	2370	-120	H0
ATOM 15031	HB2 SER E 151	-7.952	-17.006	8.880	1.00	58.35	H0	
ANISOU15031	HB2 SER E 151	6250	7610	8310	910	2600	-180	H0
ATOM 15032	HB3 SER E 151	-8.726	-17.510	7.582	1.00	58.38	H0	
ANISOU15032	HB3 SER E 151	6530	7480	8170	850	2730	-270	H0
ATOM 15033	N VAL E 152	-9.648	-15.486	11.111	1.00	56.80	N0	
ANISOU15033	N VAL E 152	6050	7530	8000	720	2150	0	N0
ATOM 15034	CA VAL E 152	-9.497	-14.400	12.123	1.00	57.67	C0	
ANISOU15034	CA VAL E 152	6020	7770	8120	650	2010	60	C0
ATOM 15035	C VAL E 152	-8.174	-14.615	12.864	1.00	60.34	C0	
ANISOU15035	C VAL E 152	6110	8190	8630	770	1990	90	C0
ATOM 15036	O VAL E 152	-8.025	-15.650	13.527	1.00	62.31	O0	
ANISOU15036	O VAL E 152	6330	8390	8950	920	1930	130	O0
ATOM 15037	CB VAL E 152	-10.699	-14.309	13.088	1.00	56.15	C0	
ANISOU15037	CB VAL E 152	5930	7560	7840	610	1830	120	C0

ATOM 15038	CG1 VAL E 152	-12.008	-14.113	12.339	1.00	55.14	C0
ANISOU15038	CG1 VAL E 152	6020	7380	7550	500	1840	90
ATOM 15039	CG2 VAL E 152	-10.805	-15.505	14.020	1.00	57.02	C0
ANISOU15039	CG2 VAL E 152	6050	7610	8010	740	1740	180
ATOM 15040	H VAL E 152	-9.569	-16.324	11.459	1.00	57.40	H0
ANISOU15040	H VAL E 152	6130	7550	8130	820	2130	10
ATOM 15041	HA VAL E 152	-9.438	-13.557	11.647	1.00	57.31	H0
ANISOU15041	HA VAL E 152	5980	7770	8030	550	2050	30
ATOM 15042	HB VAL E 152	-10.559	-13.508	13.651	1.00	55.83	H0
ANISOU15042	HB VAL E 152	5810	7600	7800	560	1750	150
ATOM 15043	HG11 VAL E 152	-11.927	-13.353	11.737	1.00	54.91	H0
ANISOU15043	HG11 VAL E 152	6000	7380	7480	430	1890	60
ATOM 15044	HG12 VAL E 152	-12.725	-13.946	12.975	1.00	54.11	H0
ANISOU15044	HG12 VAL E 152	5930	7260	7380	470	1730	130
ATOM 15045	HG13 VAL E 152	-12.211	-14.913	11.824	1.00	55.47	H0
ANISOU15045	HG13 VAL E 152	6150	7340	7590	530	1900	60
ATOM 15046	HG21 VAL E 152	-10.526	-16.310	13.551	1.00	57.80	H0
ANISOU15046	HG21 VAL E 152	6180	7630	8150	810	1830	150
ATOM 15047	HG22 VAL E 152	-11.726	-15.607	14.315	1.00	55.90	H0
ANISOU15047	HG22 VAL E 152	6020	7440	7790	690	1670	200
ATOM 15048	HG23 VAL E 152	-10.233	-15.367	14.795	1.00	57.27	H0
ANISOU15048	HG23 VAL E 152	5950	7700	8110	780	1670	220
ATOM 15049	N ASP E 153	-7.241	-13.673	12.721	1.00	62.48	N0
ANISOU15049	N ASP E 153	6200	8590	8950	710	2030	70
ATOM 15050	CA ASP E 153	-5.958	-13.645	13.469	1.00	65.14	C0
ANISOU15050	CA ASP E 153	6260	9050	9440	790	1990	100
ATOM 15051	C ASP E 153	-5.915	-12.375	14.309	1.00	65.42	C0
ANISOU15051	C ASP E 153	6210	9210	9440	650	1840	140
ATOM 15052	O ASP E 153	-6.561	-11.383	13.976	1.00	63.16	O0
ANISOU15052	O ASP E 153	6050	8910	9040	490	1850	120
ATOM 15053	CB ASP E 153	-4.752	-13.707	12.528	1.00	67.40	C0
ANISOU15053	CB ASP E 153	6380	9400	9830	820	2190	20
ATOM 15054	CG ASP E 153	-4.736	-14.934	11.634	1.00	68.39	C0
ANISOU15054	CG ASP E 153	6600	9400	9980	970	2360	-30
ATOM 15055	OD1 ASP E 153	-5.673	-15.078	10.829	1.00	67.45	O0
ANISOU15055	OD1 ASP E 153	6730	9170	9730	900	2430	-70
ATOM 15056	OD2 ASP E 153	-3.789	-15.735	11.753	1.00	71.11	O0
ANISOU15056	OD2 ASP E 153	6770	9770	10470	1150	2410	-40
ATOM 15057	H ASP E 153	-7.336	-12.977	12.141	1.00	62.04	H0
ANISOU15057	H ASP E 153	6190	8550	8830	600	2090	40
ATOM 15058	HA ASP E 153	-5.929	-14.426	14.068	1.00	65.55	H0
ANISOU15058	HA ASP E 153	6290	9070	9550	910	1920	140
ATOM 15059	HB2 ASP E 153	-4.751	-12.911	11.958	1.00	67.09	H0
ANISOU15059	HB2 ASP E 153	6360	9400	9730	690	2260	-10
ATOM 15060	HB3 ASP E 153	-3.931	-13.702	13.061	1.00	68.54	H0
ANISOU15060	HB3 ASP E 153	6320	9640	10080	880	2150	40
ATOM 15061	N PRO E 154	-5.150	-12.365	15.422	1.00	68.37	N0
ANISOU15061	N PRO E 154	6370	9690	9920	710	1710	190
ATOM 15062	CA PRO E 154	-4.841	-11.117	16.111	1.00	70.15	C0
ANISOU15062	CA PRO E 154	6490	10040	10130	560	1600	200
ATOM 15063	C PRO E 154	-3.853	-10.320	15.248	1.00	74.30	C0
ANISOU15063	C PRO E 154	6860	10660	10700	440	1750	140
ATOM 15064	O PRO E 154	-3.049	-10.941	14.568	1.00	77.59	O0
ANISOU15064	O PRO E 154	7150	11110	11230	530	1900	100

ATOM 15065	CB PRO E 154	-4.233	-11.579	17.442	1.00	70.64		C0
ANISOU15065	CB PRO E 154	6370	10190	10290	680	1420	270	C0
ATOM 15066	CG PRO E 154	-3.631	-12.935	17.124	1.00	71.65		C0
ANISOU15066	CG PRO E 154	6400	10280	10540	900	1500	270	C0
ATOM 15067	CD PRO E 154	-4.525	-13.535	16.058	1.00	70.05		C0
ANISOU15067	CD PRO E 154	6450	9900	10260	920	1650	230	C0
ATOM 15068	HA PRO E 154	-5.669	-10.602	16.273	1.00	68.68		H0
ANISOU15068	HA PRO E 154	6450	9810	9830	470	1540	210	H0
ATOM 15069	HB2 PRO E 154	-3.542	-10.954	17.750	1.00	71.49		H0
ANISOU15069	HB2 PRO E 154	6320	10410	10440	610	1370	270	H0
ATOM 15070	HB3 PRO E 154	-4.922	-11.658	18.136	1.00	69.57		H0
ANISOU15070	HB3 PRO E 154	6340	10010	10080	680	1300	320	H0
ATOM 15071	HG2 PRO E 154	-2.715	-12.838	16.791	1.00	73.19		H0
ANISOU15071	HG2 PRO E 154	6410	10560	10830	920	1570	240	H0
ATOM 15072	HG3 PRO E 154	-3.616	-13.503	17.921	1.00	72.00		H0
ANISOU15072	HG3 PRO E 154	6420	10320	10620	1010	1380	330	H0
ATOM 15073	HD2 PRO E 154	-4.003	-14.046	15.412	1.00	71.33		H0
ANISOU15073	HD2 PRO E 154	6550	10050	10500	1010	1780	190	H0
ATOM 15074	HD3 PRO E 154	-5.199	-14.118	16.453	1.00	69.38		H0
ANISOU15074	HD3 PRO E 154	6490	9730	10140	980	1580	270	H0
ATOM 15075	N THR E 155	-3.947	-8.988	15.267	1.00	76.81		N0
ANISOU15075	N THR E 155	7220	11030	10940	230	1720	130	N0
ATOM 15076	CA THR E 155	-2.975	-8.079	14.605	1.00	81.04		C0
ANISOU15076	CA THR E 155	7620	11660	11510	70	1850	70	C0
ATOM 15077	C THR E 155	-1.596	-8.336	15.218	1.00	86.12		C0
ANISOU15077	C THR E 155	7910	12480	12330	130	1820	80	C0
ATOM 15078	O THR E 155	-1.537	-8.638	16.428	1.00	86.97		O0
ANISOU15078	O THR E 155	7930	12640	12480	220	1620	140	O0
ATOM 15079	CB THR E 155	-3.385	-6.607	14.742	1.00	80.78		C0
ANISOU15079	CB THR E 155	7720	11620	11360	-160	1790	70	C0
ATOM 15080	OG1 THR E 155	-3.573	-6.337	16.131	1.00	80.92		O0
ANISOU15080	OG1 THR E 155	7700	11680	11360	-160	1570	120	O0
ATOM 15081	CG2 THR E 155	-4.646	-6.267	13.977	1.00	79.04		C0
ANISOU15081	CG2 THR E 155	7820	11240	10970	-210	1850	60	C0
ATOM 15082	H THR E 155	-4.613	-8.540	15.697	1.00	75.46		H0
ANISOU15082	H THR E 155	7170	10820	10680	170	1630	150	H0
ATOM 15083	HA THR E 155	-2.943	-8.310	13.648	1.00	81.45		H0
ANISOU15083	HA THR E 155	7720	11670	11560	80	2010	30	H0
ATOM 15084	HB THR E 155	-2.647	-6.047	14.404	1.00	82.06		H0
ANISOU15084	HB THR E 155	7770	11860	11550	-270	1870	40	H0
ATOM 15085	HG21 THR E 155	-4.474	-6.333	13.020	1.00	79.43		H0
ANISOU15085	HG21 THR E 155	7900	11270	11010	-230	2000	30	H0
ATOM 15086	HG22 THR E 155	-4.923	-5.358	14.193	1.00	78.46		H0
ANISOU15086	HG22 THR E 155	7830	11160	10820	-330	1790	70	H0
ATOM 15087	HG23 THR E 155	-5.355	-6.888	14.222	1.00	77.88		H0
ANISOU15087	HG23 THR E 155	7760	11030	10790	-100	1790	90	H0
ATOM 15088	N THR E 156	-0.535	-8.221	14.417	1.00	90.96		N0
ANISOU15088	N THR E 156	8320	13200	13040	80	2000	20	N0
ATOM 15089	CA THR E 156	0.876	-8.431	14.842	1.00	96.10		C0
ANISOU15089	CA THR E 156	8590	14050	13870	140	1980	10	C0
ATOM 15090	C THR E 156	1.294	-7.349	15.853	1.00	98.76		C0
ANISOU15090	C THR E 156	8800	14520	14210	-50	1800	40	C0
ATOM 15091	O THR E 156	2.381	-7.499	16.447	1.00	101.52		O0
ANISOU15091	O THR E 156	8820	15050	14700	-10	1730	40	O0

ATOM 15092	CB THR E 156	1.804	-8.491	13.620	1.00	98.01		C0
ANISOU15092	CB THR E 156	8670	14370	14190	110	2260	-70	C0
ATOM 15093	OG1 THR E 156	1.310	-7.580	12.637	1.00	97.14		O0
ANISOU15093	OG1 THR E 156	8800	14180	13930	-110	2400	-100	O0
ATOM 15094	CG2 THR E 156	1.897	-9.878	13.021	1.00	98.57		C0
ANISOU15094	CG2 THR E 156	8730	14380	14340	370	2390	-90	C0
ATOM 15095	H THR E 156	-0.604	-7.999	13.536	1.00	90.84		H0
ANISOU15095	H THR E 156	8390	13140	12980	10	2140	-20	H0
ATOM 15096	HA THR E 156	0.919	-9.303	15.298	1.00	96.24		H0
ANISOU15096	HA THR E 156	8550	14060	13960	330	1910	40	H0
ATOM 15097	HB THR E 156	2.707	-8.204	13.899	1.00	99.82		H0
ANISOU15097	HB THR E 156	8650	14760	14520	60	2240	-80	H0
ATOM 15098	HG21 THR E 156	2.258	-10.495	13.682	1.00	99.45		H0
ANISOU15098	HG21 THR E 156	8690	14540	14560	530	2290	-60	H0
ATOM 15099	HG22 THR E 156	2.482	-9.858	12.242	1.00	100.07		H0
ANISOU15099	HG22 THR E 156	8820	14630	14580	340	2580	-150	H0
ATOM 15100	HG23 THR E 156	1.009	-10.176	12.751	1.00	96.95		H0
ANISOU15100	HG23 THR E 156	8770	14030	14040	410	2400	-80	H0
ATOM 15101	N GLU E 157	0.462	-6.318	16.058	1.00	99.29		N0
ANISOU15101	N GLU E 157	9110	14500	14120	-230	1720	50	N0
ATOM 15102	CA GLU E 157	0.732	-5.169	16.967	1.00	101.40		C0
ANISOU15102	CA GLU E 157	9330	14850	14350	-440	1560	60	C0
ATOM 15103	C GLU E 157	0.566	-5.596	18.431	1.00	101.62		C0
ANISOU15103	C GLU E 157	9300	14920	14390	-310	1290	120	C0
ATOM 15104	O GLU E 157	-0.561	-5.496	18.957	1.00	98.59		O0
ANISOU15104	O GLU E 157	9180	14400	13880	-290	1180	160	O0
ATOM 15105	CB GLU E 157	-0.196	-3.996	16.638	1.00	100.44		C0
ANISOU15105	CB GLU E 157	9530	14580	14050	-640	1570	50	C0
ATOM 15106	CG GLU E 157	0.004	-3.442	15.239	1.00	101.37		C0
ANISOU15106	CG GLU E 157	9730	14660	14130	-800	1820	-10	C0
ATOM 15107	CD GLU E 157	-0.203	-1.943	15.124	1.00	101.63		C0
ANISOU15107	CD GLU E 157	9950	14640	14030	-1070	1810	-20	C0
ATOM 15108	OE1 GLU E 157	0.804	-1.220	14.981	1.00	102.89		O0
ANISOU15108	OE1 GLU E 157	9940	14910	14240	-1280	1880	-50	O0
ATOM 15109	OE2 GLU E 157	-1.367	-1.502	15.180	1.00	100.35		O0
ANISOU15109	OE2 GLU E 157	10090	14310	13720	-1080	1750	0	O0
ATOM 15110	H GLU E 157	-0.335	-6.246	15.629	1.00	97.59		H0
ANISOU15110	H GLU E 157	9120	14160	13800	-250	1770	50	H0
ATOM 15111	HA GLU E 157	1.664	-4.881	16.829	1.00	103.21		H0
ANISOU15111	HA GLU E 157	9340	15210	14660	-530	1610	30	H0
ATOM 15112	HB2 GLU E 157	-1.125	-4.294	16.732	1.00	98.55		H0
ANISOU15112	HB2 GLU E 157	9480	14230	13730	-550	1530	70	H0
ATOM 15113	HB3 GLU E 157	-0.040	-3.281	17.290	1.00	100.61		H0
ANISOU15113	HB3 GLU E 157	9530	14650	14040	-760	1460	50	H0
ATOM 15114	HG2 GLU E 157	0.913	-3.654	14.938	1.00	103.18		H0
ANISOU15114	HG2 GLU E 157	9730	15010	14460	-800	1910	-30	H0
ATOM 15115	HG3 GLU E 157	-0.621	-3.889	14.628	1.00	100.27		H0
ANISOU15115	HG3 GLU E 157	9740	14420	13940	-700	1900	-10	H0
ATOM 15116	N ASNE 158	1.661	-6.036	19.062	1.00	105.61		N0
ANISOU15116	N ASNE 158	9480	15600	15050	-230	1200	140	N0
ATOM 15117	CA ASNE 158	1.755	-6.298	20.524	1.00	106.89		C0
ANISOU15117	CA ASNE 158	9550	15840	15220	-140	930	200	C0
ATOM 15118	C ASNE 158	2.109	-4.980	21.226	1.00	107.70		C0
ANISOU15118	C ASNE 158	9610	16050	15260	-410	790	180	C0

ATOM 15119 O ASN E 158	3.216 -4.882 21.803	1.00109.66	O0
ANISOU15119 O ASN E 158	9550 16500 15620	-450 680 180	O0
ATOM 15120 CB ASN E 158	2.762 -7.411 20.838	1.00109.45	C0
ANISOU15120 CB ASN E 158	9550 16310 15720	90 880 230	C0
ATOM 15121 CG ASN E 158	2.395 -8.753 20.234	1.00108.82	C0
ANISOU15121 CG ASN E 158	9550 16100 15690	360 1000 250	C0
ATOM 15122 OD1 ASN E 158	1.339 -8.902 19.622	1.00107.09	O0
ANISOU15122 OD1 ASN E 158	9630 15690 15370	370 1110 240	O0
ATOM 15123 ND2 ASN E 158	3.263 -9.738 20.398	1.00110.41	N0
ANISOU15123 ND2 ASN E 158	9490 16400 16060	590 980 270	N0
ATOM 15124 H ASN E 158	2.438 -6.205 18.617	1.00107.03	H0
ANISOU15124 H ASN E 158	9460 15880 15330	-220 1300 110	H0
ATOM 15125 HA ASN E 158	0.871 -6.596 20.843	1.00105.02	H0
ANISOU15125 HA ASN E 158	9520 15480 14900	-60 860 240	H0
ATOM 15126 HB2 ASN E 158	3.637 -7.143 20.499	1.00111.19	H0
ANISOU15126 HB2 ASN E 158	9550 16660 16040	20 950 190	H0
ATOM 15127 HB3 ASN E 158	2.831 -7.509 21.809	1.00109.70	H0
ANISOU15127 HB3 ASN E 158	9540 16390 15750	130 690 280	H0
ATOM 15128 HD21 ASN E 158	3.101 -10.533 20.048	1.00110.51	H0
ANISOU15128 HD21 ASN E 158	9550 16340 16110	750 1050 280	H0
ATOM 15129 HD22 ASN E 158	4.007 -9.601 20.857	1.00112.29	H0
ANISOU15129 HD22 ASN E 158	9500 16790 16370	580 880 280	H0
ATOM 15130 N SER E 159	1.192 -4.005 21.173	1.00105.91	N0
ANISOU15130 N SER E 159	9690 15680 14870	-580 790 160	N0
ATOM 15131 CA SER E 159	1.346 -2.638 21.739	1.00106.03	C0
ANISOU15131 CA SER E 159	9750 15730 14800	-860 690 130	C0
ATOM 15132 C SER E 159	1.276 -2.699 23.270	1.00105.50	C0
ANISOU15132 C SER E 159	9670 15730 14690	-810 410 170	C0
ATOM 15133 O SER E 159	1.165 -3.818 23.815	1.00105.62	O0
ANISOU15133 O SER E 159	9620 15760 14750	-580 310 240	O0
ATOM 15134 CB SER E 159	0.301 -1.702 21.179	1.00103.86	C0
ANISOU15134 CB SER E 159	9840 15260 14360	-1000 780 100	C0
ATOM 15135 OG SER E 159	-0.982 -1.993 21.715	1.00101.82	O0
ANISOU15135 OG SER E 159	9840 14860 13980	-860 690 140	O0
ATOM 15136 H SER E 159	0.377 -4.121 20.783	1.00104.10	H0
ANISOU15136 H SER E 159	9670 15310 14570	-540 860 160	H0
ATOM 15137 HA SER E 159	2.245 -2.297 21.481	1.00107.77	H0
ANISOU15137 HA SER E 159	9780 16070 15100	-980 740 100	H0
ATOM 15138 HB2 SER E 159	0.544 -0.773 21.395	1.00104.66	H0
ANISOU15138 HB2 SER E 159	9960 15380 14420	-1190 740 70	H0
ATOM 15139 HB3 SER E 159	0.275 -1.791 20.199	1.00103.78	H0
ANISOU15139 HB3 SER E 159	9860 15200 14370	-1000 950 80	H0
ATOM 15140 N ASP E 160	1.348 -1.539 23.933	1.00104.75	N0
ANISOU15140 N ASP E 160	9640 15650 14500	-1040 290 140	N0
ATOM 15141 CA ASP E 160	1.103 -1.406 25.394	1.00103.04	C0
ANISOU15141 CA ASP E 160	9490 15470 14190	-1040 30 170	C0
ATOM 15142 C ASP E 160	-0.325 -1.894 25.656	1.00 98.98	C0
ANISOU15142 C ASP E 160	9280 14780 13550	-870 20 210	C0
ATOM 15143 O ASP E 160	-1.255 -1.406 24.979	1.00 98.19	O0
ANISOU15143 O ASP E 160	9450 14510 13350	-910 150 180	O0
ATOM 15144 CB ASP E 160	1.336 0.026 25.890	1.00104.15	C0
ANISOU15144 CB ASP E 160	9710 15630 14230	-1340 -60 110	C0
ATOM 15145 CG ASP E 160	1.387 0.152 27.404	1.00104.82	C0
ANISOU15145 CG ASP E 160	9800 15790 14230	-1360 -330 120	C0

ATOM 15146 OD1 ASP E 160	2.193	-0.567	28.020	1.00107.48			O0
ANISOU15146 OD1 ASP E 160	9860	16310	14660	-1260	-470	170	O0
ATOM 15147 OD2 ASP E 160	0.617	0.963	27.957	1.00103.26			O0
ANISOU15147 OD2 ASP E 160	9890	15480	13870	-1460	-400	90	O0
ATOM 15148 H ASP E 160	1.557	-0.753	23.523	1.00105.09			H0
ANISOU15148 H ASP E 160	9720	15690	14520	-1220	360	90	H0
ATOM 15149 HA ASP E 160	1.731	-2.002	25.865	1.00104.46			H0
ANISOU15149 HA ASP E 160	9460	15780	14450	-950	-70	200	H0
ATOM 15150 HB2 ASP E 160	2.184	0.356	25.528	1.00105.75			H0
ANISOU15150 HB2 ASP E 160	9730	15930	14520	-1470	-10	70	H0
ATOM 15151 HB3 ASP E 160	0.620	0.601	25.557	1.00102.61			H0
ANISOU15151 HB3 ASP E 160	9760	15290	13940	-1410	20	80	H0
ATOM 15152 N ASP E 161	-0.477	-2.858	26.564	1.0096.34			N0
ANISOU15152 N ASP E 161	8910	14480	13210	-670	-130	280	N0
ATOM 15153 CA ASP E 161	-1.777	-3.502	26.892	1.0091.96			C0
ANISOU15153 CA ASP E 161	8610	13780	12550	-500	-150	340	C0
ATOM 15154 C ASP E 161	-2.712	-2.434	27.475	1.0088.11			C0
ANISOU15154 C ASP E 161	8410	13200	11870	-640	-210	300	C0
ATOM 15155 O ASP E 161	-3.876	-2.352	27.035	1.0085.24			O0
ANISOU15155 O ASP E 161	8290	12680	11420	-600	-100	290	O0
ATOM 15156 CB ASP E 161	-1.559	-4.686	27.839	1.0093.15			C0
ANISOU15156 CB ASP E 161	8660	14010	12730	-300	-310	430	C0
ATOM 15157 CG ASP E 161	-0.533	-5.691	27.335	1.0095.09			C0
ANISOU15157 CG ASP E 161	8600	14350	13170	-140	-270	460	C0
ATOM 15158 OD1 ASP E 161	-0.430	-5.860	26.101	1.0094.55			O0
ANISOU15158 OD1 ASP E 161	8490	14230	13200	-120	-60	420	O0
ATOM 15159 OD2 ASP E 161	0.166	-6.287	28.180	1.0097.25			O0
ANISOU15159 OD2 ASP E 161	8700	14750	13500	-30	-450	520	O0
ATOM 15160 H ASP E 161	0.220	-3.171	27.059	1.0097.96			H0
ANISOU15160 H ASP E 161	8930	14810	13480	-640	-240	310	H0
ATOM 15161 HA ASP E 161	-2.173	-3.842	26.056	1.0090.83			H0
ANISOU15161 HA ASP E 161	8530	13550	12430	-430	0	330	H0
ATOM 15162 HB2 ASP E 161	-1.257	-4.347	28.707	1.0094.06			H0
ANISOU15162 HB2 ASP E 161	8730	14200	12800	-360	-470	430	H0
ATOM 15163 HB3 ASP E 161	-2.409	-5.149	27.973	1.0091.47			H0
ANISOU15163 HB3 ASP E 161	8610	13690	12450	-200	-300	460	H0
ATOM 15164 N SER E 162	-2.184	-1.625	28.398	1.0087.53			N0
ANISOU15164 N SER E 162	8300	13220	11740	-800	-370	270	N0
ATOM 15165 CA SER E 162	-2.889	-0.547	29.138	1.0085.71			C0
ANISOU15165 CA SER E 162	8330	12910	11330	-940	-450	220	C0
ATOM 15166 C SER E 162	-2.650	0.811	28.460	1.0083.96			C0
ANISOU15166 C SER E 162	8180	12630	11090	-1180	-360	130	C0
ATOM 15167 O SER E 162	-2.552	1.818	29.193	1.0085.08			O0
ANISOU15167 O SER E 162	8430	12770	11120	-1360	-470	70	O0
ATOM 15168 CB SER E 162	-2.417	-0.542	30.579	1.0088.06			C0
ANISOU15168 CB SER E 162	8560	13340	11560	-980	-700	240	C0
ATOM 15169 OG SER E 162	-3.141	0.390	31.367	1.0088.69			O0
ANISOU15169 OG SER E 162	8910	13340	11450	-1090	-770	180	O0
ATOM 15170 H SER E 162	-1.311	-1.687	28.651	1.0089.39			H0
ANISOU15170 H SER E 162	8340	13580	12050	-840	-450	270	H0
ATOM 15171 HA SER E 162	-3.865	-0.741	29.122	1.0084.01			H0
ANISOU15171 HA SER E 162	8300	12590	11030	-850	-410	230	H0
ATOM 15172 HB2 SER E 162	-2.525	-1.443	30.958	1.0087.93			H0
ANISOU15172 HB2 SER E 162	8500	13350	11560	-820	-750	300	H0

ATOM 15173 HB3 SER E 162	-1.459	-0.315	30.605	1.00	89.87		H0
ANISOU15173 HB3 SER E 162	8600	13680	11860	-1080	-750	220	H0
ATOM 15174 N GLU E 163	-2.570	0.850	27.121	1.00	80.59		N0
ANISOU15174 N GLU E 163	7730	12140	10750	-1200	-150	110	N0
ATOM 15175 CA GLU E 163	-2.110	2.041	26.348	1.00	79.48		C0
ANISOU15175 CA GLU E 163	7630	11960	10610	-1440	-50	40	C0
ATOM 15176 C GLU E 163	-3.124	3.180	26.485	1.00	75.86		C0
ANISOU15176 C GLU E 163	7530	11310	9980	-1540	-40	-10	C0
ATOM 15177 O GLU E 163	-2.710	4.297	26.849	1.00	76.47		O0
ANISOU15177 O GLU E 163	7670	11380	10000	-1760	-100	-70	O0
ATOM 15178 CB GLU E 163	-1.919	1.721	24.864	1.00	79.54		C0
ANISOU15178 CB GLU E 163	7560	11930	10730	-1410	180	40	C0
ATOM 15179 CG GLU E 163	-1.370	2.895	24.067	1.00	81.06		C0
ANISOU15179 CG GLU E 163	7790	12090	10920	-1680	300	-20	C0
ATOM 15180 CD GLU E 163	-0.860	2.556	22.676	1.00	81.94		C0
ANISOU15180 CD GLU E 163	7770	12220	11140	-1680	520	-20	C0
ATOM 15181 OE1 GLU E 163	-1.282	1.520	22.123	1.00	81.02		O0
ANISOU15181 OE1 GLU E 163	7630	12080	11080	-1460	610	20	O0
ATOM 15182 OE2 GLU E 163	-0.039	3.334	22.150	1.00	83.68		O0
ANISOU15182 OE2 GLU E 163	7920	12480	11400	-1920	600	-60	O0
ATOM 15183 H GLU E 163	-2.810	0.146	26.595	1.00	79.91		H0
ANISOU15183 H GLU E 163	7620	12030	10710	-1070	-70	140	H0
ATOM 15184 HA GLU E 163	-1.250	2.339	26.722	1.00	81.24		H0
ANISOU15184 HA GLU E 163	7700	12300	10880	-1570	-130	20	H0
ATOM 15185 HB2 GLU E 163	-1.305	0.966	24.781	1.00	80.34		H0
ANISOU15185 HB2 GLU E 163	7440	12140	10940	-1330	180	70	H0
ATOM 15186 HB3 GLU E 163	-2.782	1.453	24.486	1.00	77.81		H0
ANISOU15186 HB3 GLU E 163	7500	11600	10460	-1300	250	60	H0
ATOM 15187 HG2 GLU E 163	-2.074	3.572	23.977	1.00	80.20		H0
ANISOU15187 HG2 GLU E 163	7930	11840	10700	-1720	320	-40	H0
ATOM 15188 HG3 GLU E 163	-0.635	3.303	24.573	1.00	82.77		H0
ANISOU15188 HG3 GLU E 163	7890	12400	11160	-1820	210	-40	H0
ATOM 15189 N TYR E 164	-4.390	2.903	26.170	1.00	71.34		N0
ANISOU15189 N TYR E 164	7170	10600	9330	-1370	30	10	N0
ATOM 15190 CA TYR E 164	-5.504	3.885	26.169	1.00	69.20		C0
ANISOU15190 CA TYR E 164	7240	10150	8910	-1400	60	-40	C0
ATOM 15191 C TYR E 164	-6.491	3.575	27.302	1.00	66.01		C0
ANISOU15191 C TYR E 164	6970	9730	8390	-1250	-60	-30	C0
ATOM 15192 O TYR E 164	-7.548	4.226	27.355	1.00	65.39		O0
ANISOU15192 O TYR E 164	7150	9510	8180	-1220	-30	-60	O0
ATOM 15193 CB TYR E 164	-6.203	3.882	24.807	1.00	68.44		C0
ANISOU15193 CB TYR E 164	7280	9910	8810	-1330	250	-30	C0
ATOM 15194 CG TYR E 164	-5.314	4.221	23.636	1.00	70.39		C0
ANISOU15194 CG TYR E 164	7430	10160	9150	-1480	390	-40	C0
ATOM 15195 CD1 TYR E 164	-4.557	5.383	23.623	1.00	72.76		C0
ANISOU15195 CD1 TYR E 164	7770	10440	9440	-1740	380	-90	C0
ATOM 15196 CD2 TYR E 164	-5.241	3.391	22.527	1.00	70.23		C0
ANISOU15196 CD2 TYR E 164	7310	10150	9220	-1380	540	-10	C0
ATOM 15197 CE1 TYR E 164	-3.745	5.709	22.547	1.00	74.29		C0
ANISOU15197 CE1 TYR E 164	7880	10640	9700	-1900	530	-100	C0
ATOM 15198 CE2 TYR E 164	-4.436	3.703	21.442	1.00	71.80		C0
ANISOU15198 CE2 TYR E 164	7430	10360	9490	-1520	680	-20	C0
ATOM 15199 CZ TYR E 164	-3.685	4.866	21.451	1.00	73.82		C0
ANISOU15199 CZ TYR E 164	7710	10610	9730	-1790	680	-70	C0

ATOM 15200 OH TYR E 164	-2.889	5.180	20.386	1.00	75.88		O0
ANISOU15200 OH TYR E 164	7900	10880	10050	-1950	850	-80	O0
ATOM 15201 H TYR E 164	-4.666	2.070	25.922	1.00	70.71		H0
ANISOU15201 H TYR E 164	7040	10530	9300	-1220	80	50	H0
ATOM 15202 HA TYR E 164	-5.129	4.788	26.326	1.00	70.28		H0
ANISOU15202 HA TYR E 164	7440	10260	9010	-1570	30	-90	H0
ATOM 15203 HB2 TYR E 164	-6.592	2.994	24.662	1.00	67.42		H0
ANISOU15203 HB2 TYR E 164	7100	9800	8720	-1170	270	10	H0
ATOM 15204 HB3 TYR E 164	-6.940	4.528	24.837	1.00	67.89		H0
ANISOU15204 HB3 TYR E 164	7420	9730	8650	-1330	250	-60	H0
ATOM 15205 HD1 TYR E 164	-4.592	5.964	24.364	1.00	73.25		H0
ANISOU15205 HD1 TYR E 164	7910	10490	9430	-1810	280	-130	H0
ATOM 15206 HD2 TYR E 164	-5.750	2.598	22.509	1.00	69.06		H0
ANISOU15206 HD2 TYR E 164	7150	10010	9090	-1220	540	30	H0
ATOM 15207 HE1 TYR E 164	-3.237	6.503	22.560	1.00	75.62		H0
ANISOU15207 HE1 TYR E 164	8080	10800	9850	-2090	520	-140	H0
ATOM 15208 HE2 TYR E 164	-4.399	3.124	20.699	1.00	71.36		H0
ANISOU15208 HE2 TYR E 164	7310	10310	9490	-1450	790	0	H0
ATOM 15209 N PHE E 165	-6.168	2.626	28.187	1.00	64.39		N0
ANISOU15209 N PHE E 165	6590	9660	8210	-1160	-180	20	N0
ATOM 15210 CA PHE E 165	-7.038	2.263	29.338	1.00	62.23		C0
ANISOU15210 CA PHE E 165	6440	9390	7810	-1040	-290	40	C0
ATOM 15211 C PHE E 165	-7.081	3.445	30.310	1.00	61.39		C0
ANISOU15211 C PHE E 165	6500	9260	7560	-1190	-400	-40	C0
ATOM 15212 O PHE E 165	-6.016	3.992	30.634	1.00	62.81		O0
ANISOU15212 O PHE E 165	6580	9520	7770	-1370	-490	-70	O0
ATOM 15213 CB PHE E 165	-6.568	0.985	30.037	1.00	62.77		C0
ANISOU15213 CB PHE E 165	6300	9610	7940	-920	-400	120	C0
ATOM 15214 CG PHE E 165	-7.522	0.508	31.103	1.00	62.01		C0
ANISOU15214 CG PHE E 165	6340	9510	7710	-800	-480	160	C0
ATOM 15215 CD1 PHE E 165	-8.621	-0.273	30.776	1.00	60.30		C0
ANISOU15215 CD1 PHE E 165	6210	9220	7480	-630	-380	200	C0
ATOM 15216 CD2 PHE E 165	-7.351	0.880	32.427	1.00	63.31		C0
ANISOU15216 CD2 PHE E 165	6560	9740	7760	-870	-650	140	C0
ATOM 15217 CE1 PHE E 165	-9.507	-0.700	31.753	1.00	59.33		C0
ANISOU15217 CE1 PHE E 165	6210	9100	7220	-540	-440	230	C0
ATOM 15218 CE2 PHE E 165	-8.239	0.455	33.402	1.00	62.41		C0
ANISOU15218 CE2 PHE E 165	6590	9620	7500	-770	-710	170	C0
ATOM 15219 CZ PHE E 165	-9.315	-0.333	33.064	1.00	60.57		C0
ANISOU15219 CZ PHE E 165	6430	9330	7260	-610	-600	210	C0
ATOM 15220 H PHE E 165	-5.399	2.140	28.158	1.00	65.36		H0
ANISOU15220 H PHE E 165	6520	9890	8430	-1160	-210	50	H0
ATOM 15221 HA PHE E 165	-7.954	2.110	28.996	1.00	60.67		H0
ANISOU15221 HA PHE E 165	6360	9110	7580	-940	-210	50	H0
ATOM 15222 HB2 PHE E 165	-6.461	0.280	29.364	1.00	62.26		H0
ANISOU15222 HB2 PHE E 165	6130	9550	7980	-830	-320	170	H0
ATOM 15223 HB3 PHE E 165	-5.692	1.153	30.443	1.00	64.28		H0
ANISOU15223 HB3 PHE E 165	6360	9890	8170	-1010	-500	120	H0
ATOM 15224 HD1 PHE E 165	-8.757	-0.530	29.878	1.00	59.36		H0
ANISOU15224 HD1 PHE E 165	6070	9060	7430	-580	-270	210	H0
ATOM 15225 HD2 PHE E 165	-6.614	1.419	32.667	1.00	64.55		H0
ANISOU15225 HD2 PHE E 165	6660	9950	7920	-1000	-730	110	H0
ATOM 15226 HE1 PHE E 165	-10.244	-1.240	31.517	1.00	58.34		H0
ANISOU15226 HE1 PHE E 165	6140	8940	7090	-440	-370	250	H0

ATOM 15227 HE2 PHE E 165	-8.104	0.706	34.298	1.00	63.44		H0
ANISOU15227 HE2 PHE E 165	6760	9800	7540	-820	-820	150	H0
ATOM 15228 HZ PHE E 165	-9.918	-0.622	33.730	1.00	60.36		H0
ANISOU15228 HZ PHE E 165	6490	9310	7130	-550	-630	230	H0
ATOM 15229 N SER E 166	-8.285	3.825	30.745	1.00	59.03		N0
ANISOU15229 N SER E 166	6450	8860	7120	-1120	-390	-70	N0
ATOM 15230 CA SER E 166	-8.549	5.001	31.618	1.00	59.17		C0
ANISOU15230 CA SER E 166	6700	8810	6980	-1230	-470	-160	C0
ATOM 15231 C SER E 166	-7.730	4.894	32.911	1.00	59.98		C0
ANISOU15231 C SER E 166	6700	9060	7030	-1330	-670	-160	C0
ATOM 15232 O SER E 166	-7.783	3.834	33.566	1.00	58.97		O0
ANISOU15232 O SER E 166	6470	9040	6900	-1210	-740	-90	O0
ATOM 15233 CB SER E 166	-10.024	5.140	31.915	1.00	57.60		C0
ANISOU15233 CB SER E 166	6730	8510	6640	-1080	-420	-190	C0
ATOM 15234 OG SER E 166	-10.279	6.289	32.711	1.00	58.61		O0
ANISOU15234 OG SER E 166	7090	8560	6620	-1180	-470	-290	O0
ATOM 15235 H SER E 166	-9.049	3.377	30.535	1.00	57.88		H0
ANISOU15235 H SER E 166	6360	8670	6960	-990	-330	-50	H0
ATOM 15236 HA SER E 166	-8.251	5.814	31.129	1.00	59.67		H0
ANISOU15236 HA SER E 166	6820	8800	7050	-1350	-430	-210	H0
ATOM 15237 HB2 SER E 166	-10.522	5.210	31.069	1.00	56.62		H0
ANISOU15237 HB2 SER E 166	6660	8300	6550	-1020	-300	-190	H0
ATOM 15238 HB3 SER E 166	-10.338	4.337	32.389	1.00	57.12		H0
ANISOU15238 HB3 SER E 166	6620	8520	6560	-980	-450	-140	H0
ATOM 15239 N GLN E 167	-7.001	5.962	33.250	1.00	61.13		N0
ANISOU15239 N GLN E 167	6900	9190	7130	-1550	-750	-240	N0
ATOM 15240 CA GLN E 167	-6.316	6.148	34.560	1.00	62.85		C0
ANISOU15240 CA GLN E 167	7090	9530	7260	-1680	-950	-270	C0
ATOM 15241 C GLN E 167	-7.356	6.279	35.687	1.00	62.03		C0
ANISOU15241 C GLN E 167	7230	9390	6950	-1590	-1000	-300	C0
ATOM 15242 O GLN E 167	-6.974	6.089	36.857	1.00	62.25		O0
ANISOU15242 O GLN E 167	7240	9530	6880	-1630	-1170	-300	O0
ATOM 15243 CB GLN E 167	-5.405	7.379	34.521	1.00	65.12		C0
ANISOU15243 CB GLN E 167	7410	9790	7540	-1960	-1000	-360	C0
ATOM 15244 CG GLN E 167	-6.115	8.662	34.103	1.00	65.07		C0
ANISOU15244 CG GLN E 167	7730	9550	7440	-2030	-890	-450	C0
ATOM 15245 CD GLN E 167	-5.232	9.879	34.220	1.00	67.56		C0
ANISOU15245 CD GLN E 167	8120	9830	7720	-2340	-950	-550	C0
ATOM 15246 OE1 GLN E 167	-4.856	10.491	33.223	1.00	67.61		O0
ANISOU15246 OE1 GLN E 167	8140	9740	7810	-2470	-850	-570	O0
ATOM 15247 NE2 GLN E 167	-4.896	10.241	35.449	1.00	69.48		N0
ANISOU15247 NE2 GLN E 167	8430	10130	7840	-2460	-1130	-610	N0
ATOM 15248 H GLN E 167	-6.863	6.647	32.669	1.00	61.48		H0
ANISOU15248 H GLN E 167	7010	9160	7200	-1650	-680	-280	H0
ATOM 15249 HA GLN E 167	-5.764	5.351	34.735	1.00	63.20		H0
ANISOU15249 HA GLN E 167	6930	9710	7380	-1640	-1020	-200	H0
ATOM 15250 HB2 GLN E 167	-5.016	7.505	35.412	1.00	66.54		H0
ANISOU15250 HB2 GLN E 167	7580	10050	7650	-2050	-1150	-380	H0
ATOM 15251 HB3 GLN E 167	-4.671	7.202	33.897	1.00	65.56		H0
ANISOU15251 HB3 GLN E 167	7270	9910	7730	-2020	-980	-330	H0
ATOM 15252 HG2 GLN E 167	-6.416	8.578	33.174	1.00	63.86		H0
ANISOU15252 HG2 GLN E 167	7580	9330	7360	-1960	-760	-430	H0
ATOM 15253 HG3 GLN E 167	-6.909	8.790	34.664	1.00	64.55		H0
ANISOU15253 HG3 GLN E 167	7840	9430	7250	-1940	-900	-480	H0

ATOM 15254 HE21 GLN E 167	-4.379	10.947	35.576	1.00	71.02		H0
ANISOU15254 HE21 GLN E 167	8670	10310	8010	-2650	-1180	-670	H0
ATOM 15255 HE22 GLN E 167	-5.188	9.777	36.143	1.00	69.19		H0
ANISOU15255 HE22 GLN E 167	8390	10160	7740	-2360	-1200	-590	H0
ATOM 15256 N TYR E 168	-8.617	6.583	35.348	1.00	60.17		N0
ANISOU15256 N TYR E 168	7220	9000	6650	-1460	-860	-340	N0
ATOM 15257 CA TYR E 168	-9.707	6.911	36.306	1.00	59.81		C0
ANISOU15257 CA TYR E 168	7430	8890	6400	-1380	-870	-400	C0
ATOM 15258 C TYR E 168	-10.586	5.686	36.591	1.00	57.99		C0
ANISOU15258 C TYR E 168	7150	8740	6150	-1160	-830	-310	C0
ATOM 15259 O TYR E 168	-11.504	5.803	37.415	1.00	58.20		O0
ANISOU15259 O TYR E 168	7350	8750	6010	-1090	-820	-350	O0
ATOM 15260 CB TYR E 168	-10.539	8.079	35.770	1.00	59.40		C0
ANISOU15260 CB TYR E 168	7640	8640	6290	-1370	-740	-500	C0
ATOM 15261 CG TYR E 168	-9.740	9.335	35.532	1.00	60.90		C0
ANISOU15261 CG TYR E 168	7940	8720	6480	-1610	-770	-580	C0
ATOM 15262 CD1 TYR E 168	-9.093	9.975	36.577	1.00	62.85		C0
ANISOU15262 CD1 TYR E 168	8270	9000	6610	-1790	-920	-660	C0
ATOM 15263 CD2 TYR E 168	-9.615	9.875	34.262	1.00	60.45		C0
ANISOU15263 CD2 TYR E 168	7900	8540	6530	-1650	-650	-590	C0
ATOM 15264 CE1 TYR E 168	-8.343	11.120	36.368	1.00	64.77		C0
ANISOU15264 CE1 TYR E 168	8610	9150	6850	-2040	-950	-740	C0
ATOM 15265 CE2 TYR E 168	-8.872	11.023	34.037	1.00	62.21		C0
ANISOU15265 CE2 TYR E 168	8240	8650	6750	-1890	-670	-660	C0
ATOM 15266 CZ TYR E 168	-8.236	11.649	35.094	1.00	64.23		C0
ANISOU15266 CZ TYR E 168	8570	8940	6890	-2090	-820	-740	C0
ATOM 15267 OH TYR E 168	-7.508	12.783	34.882	1.00	66.23		O0
ANISOU15267 OH TYR E 168	8950	9080	7140	-2350	-840	-820	O0
ATOM 15268 H TYR E 168	-8.901	6.626	34.485	1.00	59.17		H0
ANISOU15268 H TYR E 168	7100	8800	6590	-1410	-750	-330	H0
ATOM 15269 HA TYR E 168	-9.293	7.194	37.161	1.00	61.26		H0
ANISOU15269 HA TYR E 168	7650	9130	6500	-1480	-990	-430	H0
ATOM 15270 HB2 TYR E 168	-10.958	7.803	34.929	1.00	58.00		H0
ANISOU15270 HB2 TYR E 168	7430	8410	6190	-1270	-630	-460	H0
ATOM 15271 HB3 TYR E 168	-11.253	8.274	36.412	1.00	59.41		H0
ANISOU15271 HB3 TYR E 168	7800	8610	6170	-1310	-730	-540	H0
ATOM 15272 HD1 TYR E 168	-9.160	9.620	37.448	1.00	63.34		H0
ANISOU15272 HD1 TYR E 168	8320	9150	6590	-1770	-1000	-660	H0
ATOM 15273 HD2 TYR E 168	-10.045	9.455	33.536	1.00	59.04		H0
ANISOU15273 HD2 TYR E 168	7670	8340	6420	-1530	-550	-540	H0
ATOM 15274 HE1 TYR E 168	-7.915	11.544	37.093	1.00	66.35		H0
ANISOU15274 HE1 TYR E 168	8880	9370	6970	-2180	-1060	-800	H0
ATOM 15275 HE2 TYR E 168	-8.803	11.379	33.167	1.00	61.98		H0
ANISOU15275 HE2 TYR E 168	8240	8530	6780	-1930	-580	-660	H0
ATOM 15276 N SER E 169	-10.326	4.549	35.941	1.00	56.69		N0
ANISOU15276 N SER E 169	6750	8650	6140	-1070	-800	-200	N0
ATOM 15277 CA SER E 169	-10.971	3.248	36.258	1.00	55.27		C0
ANISOU15277 CA SER E 169	6510	8540	5950	-890	-780	-100	C0
ATOM 15278 C SER E 169	-10.669	2.888	37.718	1.00	56.97		C0
ANISOU15278 C SER E 169	6740	8880	6030	-920	-950	-80	C0
ATOM 15279 O SER E 169	-9.676	3.407	38.259	1.00	58.40		O0
ANISOU15279 O SER E 169	6890	9120	6180	-1070	-1100	-110	O0
ATOM 15280 CB SER E 169	-10.506	2.168	35.314	1.00	53.87		C0
ANISOU15280 CB SER E 169	6100	8410	5960	-810	-730	0	C0

ATOM 15281	OG SER E 169	-11.100	0.916	35.620	1.00	52.48	O0	
ANISOU15281	OG SER E 169	5890	8280	5770	-650	-720	100	O0
ATOM 15282	H SER E 169	-9.737	4.487	35.249	1.00	56.65	H0	
ANISOU15282	H SER E 169	6620	8650	6250	-1110	-780	-180	H0
ATOM 15283	HA SER E 169	-11.955	3.356	36.159	1.00	54.32	H0	
ANISOU15283	HA SER E 169	6510	8360	5770	-800	-680	-130	H0
ATOM 15284	HB2 SER E 169	-10.736	2.422	34.392	1.00	52.98	H0	
ANISOU15284	HB2 SER E 169	5990	8210	5920	-790	-620	-20	H0
ATOM 15285	HB3 SER E 169	-9.529	2.088	35.372	1.00	54.94	H0	
ANISOU15285	HB3 SER E 169	6100	8610	6170	-880	-820	20	H0
ATOM 15286	N ARG E 170	-11.518	2.063	38.336	1.00	57.05	N0	
ANISOU15286	N ARG E 170	6810	8920	5940	-790	-930	-20	N0
ATOM 15287	CA ARG E 170	-11.249	1.428	39.657	1.00	59.09	C0	
ANISOU15287	CA ARG E 170	7080	9310	6070	-800	-1090	40	C0
ATOM 15288	C ARG E 170	-10.169	0.359	39.473	1.00	59.01	C0	
ANISOU15288	C ARG E 170	6810	9400	6210	-760	-1200	170	C0
ATOM 15289	O ARG E 170	-9.422	0.101	40.431	1.00	60.57	O0	
ANISOU15289	O ARG E 170	6970	9710	6340	-810	-1390	210	O0
ATOM 15290	CB ARG E 170	-12.500	0.756	40.234	1.00	58.82	C0	
ANISOU15290	CB ARG E 170	7180	9280	5900	-670	-1010	80	C0
ATOM 15291	CG ARG E 170	-13.326	1.634	41.161	1.00	60.17	C0	
ANISOU15291	CG ARG E 170	7600	9420	5840	-710	-980	-30	C0
ATOM 15292	CD ARG E 170	-14.493	0.851	41.733	1.00	60.30	C0	
ANISOU15292	CD ARG E 170	7710	9470	5730	-600	-890	10	C0
ATOM 15293	NE ARG E 170	-15.390	0.411	40.671	1.00	58.99	N0	
ANISOU15293	NE ARG E 170	7480	9250	5690	-480	-710	40	N0
ATOM 15294	CZ ARG E 170	-16.341	-0.513	40.795	1.00	58.61	C0	
ANISOU15294	CZ ARG E 170	7440	9230	5600	-380	-610	100	C0
ATOM 15295	NH1 ARG E 170	-16.537	-1.126	41.952	1.00	59.86	N0	
ANISOU15295	NH1 ARG E 170	7690	9470	5590	-390	-670	160	N0
ATOM 15296	NH2 ARG E 170	-17.090	-0.823	39.747	1.00	56.74	N0	
ANISOU15296	NH2 ARG E 170	7140	8940	5480	-290	-460	110	N0
ATOM 15297	H ARG E 170	-12.325	1.839	37.977	1.00	55.84	H0	
ANISOU15297	H ARG E 170	6700	8730	5790	-700	-820	-10	H0
ATOM 15298	HA ARG E 170	-10.925	2.115	40.284	1.00	60.24	H0	
ANISOU15298	HA ARG E 170	7300	9470	6120	-900	-1180	-20	H0
ATOM 15299	HB2 ARG E 170	-13.065	0.463	39.491	1.00	57.44	H0	
ANISOU15299	HB2 ARG E 170	6970	9050	5800	-590	-880	100	H0
ATOM 15300	HB3 ARG E 170	-12.222	-0.043	40.730	1.00	59.40	H0	
ANISOU15300	HB3 ARG E 170	7190	9420	5950	-640	-1090	170	H0
ATOM 15301	HG2 ARG E 170	-12.763	1.961	41.895	1.00	61.65	H0	
ANISOU15301	HG2 ARG E 170	7830	9660	5940	-800	-1110	-60	H0
ATOM 15302	HG3 ARG E 170	-13.666	2.409	40.665	1.00	59.67	H0	
ANISOU15302	HG3 ARG E 170	7600	9280	5800	-720	-890	-120	H0
ATOM 15303	HD2 ARG E 170	-14.152	0.071	42.219	1.00	60.90	H0	
ANISOU15303	HD2 ARG E 170	7740	9620	5780	-590	-980	110	H0
ATOM 15304	HD3 ARG E 170	-14.987	1.415	42.366	1.00	60.98	H0	
ANISOU15304	HD3 ARG E 170	7950	9550	5670	-620	-870	-60	H0
ATOM 15305	HE ARG E 170	-15.301	0.787	39.889	1.00	58.22	H0	
ANISOU15305	HE ARG E 170	7340	9090	5690	-470	-660	10	H0
ATOM 15306	HH11 ARG E 170	-16.044	-0.926	42.650	1.00	60.98	H0	
ANISOU15306	HH11 ARG E 170	7880	9650	5640	-450	-770	160	H0
ATOM 15307	HH12 ARG E 170	-17.167	-1.736	42.021	1.00	59.40	H0	
ANISOU15307	HH12 ARG E 170	7640	9430	5500	-340	-590	200	H0

ATOM 15308 HH21 ARG E 170	-16.959	-0.415	38.977	1.00	56.14		H0
ANISOU15308 HH21 ARG E 170	7020	8810	5500	-290	-420	80	H0
ATOM 15309 HH22 ARG E 170	-17.720	-1.434	39.823	1.00	56.42		H0
ANISOU15309 HH22 ARG E 170	7100	8920	5410	-250	-390	150	H0
ATOM 15310 N PHE E 171	-10.130	-0.243	38.282	1.00	57.38		N0
ANISOU15310 N PHE E 171	6460	9150	6200	-670	-1090	220	N0
ATOM 15311 CA PHE E 171	-9.286	-1.410	37.926	1.00	58.10		C0
ANISOU15311 CA PHE E 171	6310	9310	6450	-590	-1150	340	C0
ATOM 15312 C PHE E 171	-8.058	-0.941	37.138	1.00	59.33		C0
ANISOU15312 C PHE E 171	6260	9500	6780	-690	-1170	310	C0
ATOM 15313 O PHE E 171	-8.074	0.192	36.602	1.00	58.50		O0
ANISOU15313 O PHE E 171	6220	9330	6680	-810	-1100	210	O0
ATOM 15314 CB PHE E 171	-10.118	-2.423	37.138	1.00	55.88		C0
ANISOU15314 CB PHE E 171	6030	8960	6250	-430	-980	410	C0
ATOM 15315 CG PHE E 171	-11.396	-2.824	37.831	1.00	55.21		C0
ANISOU15315 CG PHE E 171	6130	8840	6000	-360	-930	430	C0
ATOM 15316 CD1 PHE E 171	-11.410	-3.866	38.746	1.00	56.21		C0
ANISOU15316 CD1 PHE E 171	6280	9030	6040	-300	-1030	540	C0
ATOM 15317 CD2 PHE E 171	-12.578	-2.141	37.591	1.00	54.08		C0
ANISOU15317 CD2 PHE E 171	6150	8620	5770	-370	-780	340	C0
ATOM 15318 CE1 PHE E 171	-12.582	-4.227	39.393	1.00	55.96		C0
ANISOU15318 CE1 PHE E 171	6430	8980	5850	-260	-960	560	C0
ATOM 15319 CE2 PHE E 171	-13.749	-2.504	38.238	1.00	53.94		C0
ANISOU15319 CE2 PHE E 171	6290	8610	5600	-310	-720	350	C0
ATOM 15320 CZ PHE E 171	-13.749	-3.544	39.140	1.00	54.72		C0
ANISOU15320 CZ PHE E 171	6410	8770	5620	-270	-800	460	C0
ATOM 15321 H PHE E 171	-10.646	0.024	37.581	1.00	56.36		H0
ANISOU15321 H PHE E 171	6370	8940	6110	-650	-960	180	H0
ATOM 15322 HA PHE E 171	-8.974	-1.840	38.762	1.00	59.20		H0
ANISOU15322 HA PHE E 171	6440	9530	6520	-580	-1280	400	H0
ATOM 15323 HB2 PHE E 171	-10.337	-2.036	36.265	1.00	54.95		H0
ANISOU15323 HB2 PHE E 171	5900	8770	6200	-440	-870	360	H0
ATOM 15324 HB3 PHE E 171	-9.573	-3.223	36.985	1.00	56.33		H0
ANISOU15324 HB3 PHE E 171	5950	9050	6400	-370	-1030	490	H0
ATOM 15325 HD1 PHE E 171	-10.612	-4.337	38.926	1.00	57.21		H0
ANISOU15325 HD1 PHE E 171	6300	9210	6230	-280	-1140	610	H0
ATOM 15326 HD2 PHE E 171	-12.586	-1.426	36.975	1.00	53.64		H0
ANISOU15326 HD2 PHE E 171	6100	8520	5760	-400	-720	270	H0
ATOM 15327 HE1 PHE E 171	-12.578	-4.942	40.010	1.00	56.61		H0
ANISOU15327 HE1 PHE E 171	6540	9100	5870	-230	-1030	640	H0
ATOM 15328 HE2 PHE E 171	-14.548	-2.034	38.061	1.00	53.16		H0
ANISOU15328 HE2 PHE E 171	6280	8470	5450	-300	-620	290	H0
ATOM 15329 HZ PHE E 171	-14.547	-3.790	39.579	1.00	54.60		H0
ANISOU15329 HZ PHE E 171	6490	8760	5490	-250	-750	470	H0
ATOM 15330 N GLU E 172	-7.024	-1.789	37.105	1.00	60.91		N0
ANISOU15330 N GLU E 172	6230	9800	7110	-630	-1280	400	N0
ATOM 15331 CA GLU E 172	-5.782	-1.604	36.305	1.00	62.28		C0
ANISOU15331 CA GLU E 172	6140	10040	7480	-700	-1290	390	C0
ATOM 15332 C GLU E 172	-5.522	-2.893	35.518	1.00	62.08		C0
ANISOU15332 C GLU E 172	5930	10020	7640	-520	-1220	490	C0
ATOM 15333 O GLU E 172	-5.866	-3.973	36.027	1.00	61.84		O0
ANISOU15333 O GLU E 172	5940	9990	7570	-360	-1260	580	O0
ATOM 15334 CB GLU E 172	-4.605	-1.226	37.208	1.00	65.02		C0
ANISOU15334 CB GLU E 172	6360	10550	7800	-830	-1520	380	C0

ATOM 15335 CG GLU E 172	-4.234	-2.284	38.236	1.00	66.57		C0
ANISOU15335 CG GLU E 172	6480	10860	7950	-710	-1720	500	C0
ATOM 15336 CD GLU E 172	-3.225	-1.827	39.279	1.00	69.49		C0
ANISOU15336 CD GLU E 172	6760	11390	8250	-850	-1970	480	C0
ATOM 15337 OE1 GLU E 172	-2.607	-0.767	39.077	1.00	71.03		O0
ANISOU15337 OE1 GLU E 172	6890	11630	8470	-1050	-2000	380	O0
ATOM 15338 OE2 GLU E 172	-3.066	-2.524	40.297	1.00	70.63		O0
ANISOU15338 OE2 GLU E 172	6910	11620	8300	-760	-2160	570	O0
ATOM 15339 H GLU E 172	-7.026	-2.563	37.585	1.00	61.27		H0
ANISOU15339 H GLU E 172	6260	9890	7130	-550	-1340	480	H0
ATOM 15340 HA GLU E 172	-5.934	-0.872	35.664	1.00	61.62		H0
ANISOU15340 HA GLU E 172	6100	9890	7420	-780	-1180	310	H0
ATOM 15341 HB2 GLU E 172	-3.824	-1.049	36.642	1.00	65.73		H0
ANISOU15341 HB2 GLU E 172	6270	10690	8020	-890	-1510	360	H0
ATOM 15342 HB3 GLU E 172	-4.828	-0.395	37.676	1.00	65.34		H0
ANISOU15342 HB3 GLU E 172	6540	10570	7720	-950	-1550	310	H0
ATOM 15343 HG2 GLU E 172	-5.046	-2.575	38.701	1.00	65.79		H0
ANISOU15343 HG2 GLU E 172	6560	10700	7730	-640	-1700	520	H0
ATOM 15344 HG3 GLU E 172	-3.864	-3.065	37.771	1.00	66.62		H0
ANISOU15344 HG3 GLU E 172	6330	10890	8100	-590	-1700	560	H0
ATOM 15345 N ILE E 173	-4.964	-2.776	34.311	1.00	62.59		N0
ANISOU15345 N ILE E 173	5830	10070	7880	-530	-1090	460	N0
ATOM 15346 CA ILE E 173	-4.609	-3.941	33.449	1.00	62.91		C0
ANISOU15346 CA ILE E 173	5690	10110	8100	-360	-1000	530	C0
ATOM 15347 C ILE E 173	-3.156	-4.334	33.739	1.00	65.70		C0
ANISOU15347 C ILE E 173	5740	10640	8580	-340	-1160	580	C0
ATOM 15348 O ILE E 173	-2.273	-3.454	33.664	1.00	67.25		O0
ANISOU15348 O ILE E 173	5790	10930	8830	-510	-1210	510	O0
ATOM 15349 CB ILE E 173	-4.842	-3.626	31.959	1.00	61.75		C0
ANISOU15349 CB ILE E 173	5540	9860	8060	-390	-770	470	C0
ATOM 15350 CG1 ILE E 173	-6.294	-3.218	31.691	1.00	59.48		C0
ANISOU15350 CG1 ILE E 173	5540	9420	7640	-390	-640	430	C0
ATOM 15351 CG2 ILE E 173	-4.414	-4.802	31.092	1.00	61.82		C0
ANISOU15351 CG2 ILE E 173	5370	9870	8240	-220	-680	530	C0
ATOM 15352 CD1 ILE E 173	-6.588	-2.891	30.245	1.00	58.39		C0
ANISOU15352 CD1 ILE E 173	5420	9180	7580	-410	-430	380	C0
ATOM 15353 H ILE E 173	-4.763	-1.970	33.937	1.00	62.64		H0
ANISOU15353 H ILE E 173	5830	10070	7900	-660	-1050	390	H0
ATOM 15354 HA ILE E 173	-5.184	-4.688	33.692	1.00	62.23		H0
ANISOU15354 HA ILE E 173	5690	9980	7970	-240	-1000	590	H0
ATOM 15355 HB ILE E 173	-4.268	-2.856	31.724	1.00	62.51		H0
ANISOU15355 HB ILE E 173	5560	10000	8190	-520	-770	410	H0
ATOM 15356 HG12 ILE E 173	-6.883	-3.950	31.974	1.00	58.88		H0
ANISOU15356 HG12 ILE E 173	5530	9320	7520	-280	-640	480	H0
ATOM 15357 HG13 ILE E 173	-6.506	-2.432	32.239	1.00	59.71		H0
ANISOU15357 HG13 ILE E 173	5670	9450	7560	-490	-700	380	H0
ATOM 15358 HG21 ILE E 173	-3.521	-5.092	31.346	1.00	63.43		H0
ANISOU15358 HG21 ILE E 173	5390	10180	8530	-190	-770	560	H0
ATOM 15359 HG22 ILE E 173	-4.407	-4.533	30.157	1.00	61.22		H0
ANISOU15359 HG22 ILE E 173	5280	9750	8230	-250	-540	490	H0
ATOM 15360 HG23 ILE E 173	-5.038	-5.540	31.210	1.00	60.98		H0
ANISOU15360 HG23 ILE E 173	5360	9710	8110	-100	-660	580	H0
ATOM 15361 HD11 ILE E 173	-5.991	-2.184	29.942	1.00	59.06		H0
ANISOU15361 HD11 ILE E 173	5440	9290	7710	-530	-420	330	H0

ATOM 15362 HD12 ILE E 173	-7.510	-2.594	30.160	1.00	57.08		H0
ANISOU15362 HD12 ILE E 173	5430	8930	7330	-410	-370	350	H0
ATOM 15363 HD13 ILE E 173	-6.456	-3.683	29.696	1.00	58.10		H0
ANISOU15363 HD13 ILE E 173	5300	9140	7640	-310	-370	420	H0
ATOM 15364 N LEU E 174	-2.934	-5.610	34.062	1.00	66.78		N0
ANISOU15364 N LEU E 174	5790	10810	8770	-140	-1240	690	N0
ATOM 15365 CA LEU E 174	-1.593	-6.201	34.311	1.00	69.94		C0
ANISOU15365 CA LEU E 174	5890	11370	9320	-60	-1390	750	C0
ATOM 15366 C LEU E 174	-1.019	-6.704	32.983	1.00	70.61		C0
ANISOU15366 C LEU E 174	5750	11450	9630	50	-1220	740	C0
ATOM 15367 O LEU E 174	0.133	-6.348	32.665	1.00	72.37		O0
ANISOU15367 O LEU E 174	5690	11820	9980	-20	-1240	700	O0
ATOM 15368 CB LEU E 174	-1.728	-7.341	35.325	1.00	70.74		C0
ANISOU15368 CB LEU E 174	6050	11480	9350	130	-1560	880	C0
ATOM 15369 CG LEU E 174	-2.313	-6.961	36.685	1.00	70.74		C0
ANISOU15369 CG LEU E 174	6280	11490	9110	40	-1730	890	C0
ATOM 15370 CD1 LEU E 174	-2.428	-8.186	37.578	1.00	71.97		C0
ANISOU15370 CD1 LEU E 174	6510	11640	9190	240	-1870	1040	C0
ATOM 15371 CD2 LEU E 174	-1.482	-5.887	37.371	1.00	72.72		C0
ANISOU15371 CD2 LEU E 174	6430	11900	9300	-160	-1910	830	C0
ATOM 15372 H LEU E 174	-3.613	-6.212	34.149	1.00	65.83		H0
ANISOU15372 H LEU E 174	5800	10610	8610	-40	-1200	730	H0
ATOM 15373 HA LEU E 174	-1.000	-5.502	34.671	1.00	71.24		H0
ANISOU15373 HA LEU E 174	5960	11640	9470	-190	-1500	700	H0
ATOM 15374 HB2 LEU E 174	-2.293	-8.034	34.930	1.00	69.53		H0
ANISOU15374 HB2 LEU E 174	5990	11210	9210	250	-1450	920	H0
ATOM 15375 HB3 LEU E 174	-0.843	-7.730	35.467	1.00	72.58		H0
ANISOU15375 HB3 LEU E 174	6080	11820	9680	210	-1670	920	H0
ATOM 15376 HG LEU E 174	-3.222	-6.601	36.540	1.00	69.04		H0
ANISOU15376 HG LEU E 174	6260	11170	8800	-10	-1610	850	H0
ATOM 15377 HD11 LEU E 174	-3.066	-8.810	37.191	1.00	70.59		H0
ANISOU15377 HD11 LEU E 174	6440	11350	9030	340	-1750	1070	H0
ATOM 15378 HD12 LEU E 174	-2.734	-7.917	38.461	1.00	72.22		H0
ANISOU15378 HD12 LEU E 174	6690	11690	9060	170	-1980	1050	H0
ATOM 15379 HD13 LEU E 174	-1.559	-8.616	37.653	1.00	73.67		H0
ANISOU15379 HD13 LEU E 174	6530	11950	9510	320	-1980	1090	H0
ATOM 15380 HD21 LEU E 174	-0.554	-6.175	37.420	1.00	74.55		H0
ANISOU15380 HD21 LEU E 174	6430	12250	9640	-110	-2020	860	H0
ATOM 15381 HD22 LEU E 174	-1.822	-5.738	38.270	1.00	73.03		H0
ANISOU15381 HD22 LEU E 174	6620	11950	9180	-200	-2020	840	H0
ATOM 15382 HD23 LEU E 174	-1.537	-5.058	36.865	1.00	72.02		H0
ANISOU15382 HD23 LEU E 174	6340	11790	9230	-300	-1810	740	H0
ATOM 15383 N ASP E 175	-1.809	-7.486	32.238	1.00	69.55		N0
ANISOU15383 N ASP E 175	5750	11160	9520	190	-1040	760	N0
ATOM 15384 CA ASP E 175	-1.390	-8.147	30.973	1.00	70.15		C0
ANISOU15384 CA ASP E 175	5660	11200	9790	320	-860	760	C0
ATOM 15385 C ASP E 175	-2.605	-8.335	30.054	1.00	67.54		C0
ANISOU15385 C ASP E 175	5570	10670	9420	340	-630	730	C0
ATOM 15386 O ASP E 175	-3.723	-8.529	30.574	1.00	65.89		O0
ANISOU15386 O ASP E 175	5620	10360	9060	360	-650	760	O0
ATOM 15387 CB ASP E 175	-0.702	-9.483	31.271	1.00	72.45		C0
ANISOU15387 CB ASP E 175	5790	11540	10200	570	-960	860	C0
ATOM 15388 CG ASP E 175	0.146	-10.019	30.129	1.00	73.97		C0
ANISOU15388 CG ASP E 175	5730	11760	10610	690	-810	840	C0

ATOM 15389 OD1 ASP E 175	-0.359 -10.062 28.989	1.00 72.78	OO
ANISOU15389 OD1 ASP E 175	5670 11490 10490	690 -580 780	OO
ATOM 15390 OD2 ASP E 175	1.309 -10.386 30.390	1.00 77.15	OO
ANISOU15390 OD2 ASP E 175	5850 12320 11150	800 -930 870	OO
ATOM 15391 H ASP E 175	-2.670 -7.670 32.474	1.00 68.20	H0
ANISOU15391 H ASP E 175	5780 10890 9250	210 -1020 780	H0
ATOM 15392 HA ASP E 175	-0.741 -7.559 30.519	1.00 70.88	H0
ANISOU15392 HA ASP E 175	5600 11370 9960	210 -820 700	H0
ATOM 15393 HB2 ASP E 175	-0.126 -9.374 32.056	1.00 74.10	H0
ANISOU15393 HB2 ASP E 175	5890 11870 10390	560 -1140 890	H0
ATOM 15394 HB3 ASP E 175	-1.384 -10.151 31.485	1.00 71.60	H0
ANISOU15394 HB3 ASP E 175	5850 11320 10030	670 -950 920	H0
ATOM 15395 N VAL E 176	-2.374 -8.281 28.737	1.00 67.52	N0
ANISOU15395 N VAL E 176	5480 10640 9540	330 -430 670	N0
ATOM 15396 CA VAL E 176	-3.347 -8.644 27.662	1.00 65.73	C0
ANISOU15396 CA VAL E 176	5440 10240 9300	380 -210 650	C0
ATOM 15397 C VAL E 176	-2.590 -9.456 26.604	1.00 67.40	C0
ANISOU15397 C VAL E 176	5460 10450 9690	520 -70 640	C0
ATOM 15398 O VAL E 176	-1.676 -8.891 25.978	1.00 68.66	O0
ANISOU15398 O VAL E 176	5420 10710 9960	430 0 580	O0
ATOM 15399 CB VAL E 176	-4.013 -7.397 27.044	1.00 63.71	C0
ANISOU15399 CB VAL E 176	5340 9920 8950	180 -90 550	C0
ATOM 15400 CG1 VAL E 176	-4.872 -7.744 25.838	1.00 61.89	C0
ANISOU15400 CG1 VAL E 176	5260 9540 8720	230 110 530	C0
ATOM 15401 CG2 VAL E 176	-4.827 -6.619 28.067	1.00 62.52	C0
ANISOU15401 CG2 VAL E 176	5390 9750 8620	70 -220 550	C0
ATOM 15402 H VAL E 176	-1.570 -8.014 28.404	1.00 68.73	H0
ANISOU15402 H VAL E 176	5450 10880 9780	290 -410 640	H0
ATOM 15403 HA VAL E 176	-4.039 -9.205 28.050	1.00 64.94	H0
ANISOU15403 HA VAL E 176	5490 10060 9130	460 -250 700	H0
ATOM 15404 HB VAL E 176	-3.287 -6.805 26.730	1.00 64.70	H0
ANISOU15404 HB VAL E 176	5330 10120 9140	80 -70 510	H0
ATOM 15405 HG11 VAL E 176	-4.303 -7.881 25.061	1.00 62.51	H0
ANISOU15405 HG11 VAL E 176	5220 9630 8900	240 220 500	H0
ATOM 15406 HG12 VAL E 176	-5.492 -7.016 25.658	1.00 60.75	H0
ANISOU15406 HG12 VAL E 176	5250 9340 8490	120 150 490	H0
ATOM 15407 HG13 VAL E 176	-5.373 -8.558 26.019	1.00 61.40	H0
ANISOU15407 HG13 VAL E 176	5280 9410 8640	340 110 580	H0
ATOM 15408 HG21 VAL E 176	-5.561 -7.172 28.386	1.00 61.77	H0
ANISOU15408 HG21 VAL E 176	5420 9590 8450	150 -230 590	H0
ATOM 15409 HG22 VAL E 176	-5.183 -5.813 27.655	1.00 61.77	H0
ANISOU15409 HG22 VAL E 176	5380 9620 8470	-50 -140 490	H0
ATOM 15410 HG23 VAL E 176	-4.258 -6.375 28.816	1.00 63.90	H0
ANISOU15410 HG23 VAL E 176	5470 10020 8780	30 -350 560	H0
ATOM 15411 N THR E 177	-2.941 -10.732 26.430	1.00 68.42	N0
ANISOU15411 N THR E 177	5670 10470 9860	720 -30 700	N0
ATOM 15412 CA THR E 177	-2.370 -11.636 25.393	1.00 70.63	C0
ANISOU15412 CA THR E 177	5820 10720 10300	880 130 690	C0
ATOM 15413 C THR E 177	-3.498 -12.083 24.460	1.00 69.96	C0
ANISOU15413 C THR E 177	5990 10440 10160	900 310 660	C0
ATOM 15414 O THR E 177	-4.606 -12.336 24.963	1.00 68.90	O0
ANISOU15414 O THR E 177	6090 10200 9890	900 260 700	O0
ATOM 15415 CB THR E 177	-1.638 -12.829 26.021	1.00 72.60	C0
ANISOU15415 CB THR E 177	5930 11000 10660	1130 0 780	C0

ATOM 15416	OG1 THR E 177	-2.468	-13.393	27.036	1.00	71.82		OO
ANISOU15416	OG1 THR E 177	6060	10800	10430	1190	-140	870	OO
ATOM 15417	CG2 THR E 177	-0.303	-12.450	26.620	1.00	75.23		CO
ANISOU15417	CG2 THR E 177	5940	11550	11090	1130	-150	790	CO
ATOM 15418	H THR E 177	-3.568	-11.148	26.945	1.00	67.78		H0
ANISOU15418	H THR E 177	5730	10320	9700	770	-90	750	H0
ATOM 15419	HA THR E 177	-1.720	-11.118	24.866	1.00	71.33		H0
ANISOU15419	HA THR E 177	5750	10890	10460	810	200	630	H0
ATOM 15420	HB THR E 177	-1.490	-13.506	25.318	1.00	73.03		H0
ANISOU15420	HB THR E 177	5970	10990	10800	1250	120	770	H0
ATOM 15421	HG21 THR E 177	0.224	-11.963	25.960	1.00	75.69		H0
ANISOU15421	HG21 THR E 177	5850	11680	11220	1050	-50	720	H0
ATOM 15422	HG22 THR E 177	0.176	-13.256	26.885	1.00	76.76		H0
ANISOU15422	HG22 THR E 177	6040	11760	11360	1310	-220	840	H0
ATOM 15423	HG23 THR E 177	-0.445	-11.887	27.400	1.00	75.01		H0
ANISOU15423	HG23 THR E 177	5950	11580	10970	1020	-290	800	H0
ATOM 15424	N GLN E 178	-3.222	-12.145	23.155	1.00	72.12		N0
ANISOU15424	N GLN E 178	6210	10680	10520	910	520	590	N0
ATOM 15425	CA GLN E 178	-4.191	-12.551	22.101	1.00	72.12		CO
ANISOU15425	CA GLN E 178	6430	10510	10460	920	700	550	CO
ATOM 15426	C GLN E 178	-3.625	-13.767	21.362	1.00	73.62		CO
ANISOU15426	C GLN E 178	6540	10640	10790	1120	820	550	CO
ATOM 15427	O GLN E 178	-2.534	-13.640	20.772	1.00	76.95		OO
ANISOU15427	O GLN E 178	6740	11160	11340	1150	920	500	OO
ATOM 15428	CB GLN E 178	-4.461	-11.400	21.128	1.00	72.12		CO
ANISOU15428	CB GLN E 178	6480	10510	10410	720	840	460	CO
ATOM 15429	CG GLN E 178	-4.660	-10.053	21.810	1.00	73.01		CO
ANISOU15429	CG GLN E 178	6620	10710	10420	530	730	450	CO
ATOM 15430	CD GLN E 178	-5.546	-9.116	21.024	1.00	72.88		CO
ANISOU15430	CD GLN E 178	6800	10610	10280	370	830	390	CO
ATOM 15431	OE1 GLN E 178	-5.800	-9.313	19.836	1.00	73.78		OO
ANISOU15431	OE1 GLN E 178	6990	10650	10400	370	1010	350	OO
ATOM 15432	NE2 GLN E 178	-6.036	-8.084	21.693	1.00	72.06		N0
ANISOU15432	NE2 GLN E 178	6790	10530	10070	230	730	390	N0
ATOM 15433	H GLN E 178	-2.400	-11.936	22.824	1.00	73.22		H0
ANISOU15433	H GLN E 178	6160	10910	10750	900	560	560	H0
ATOM 15434	HA GLN E 178	-5.037	-12.807	22.533	1.00	70.87		H0
ANISOU15434	HA GLN E 178	6440	10270	10210	920	640	590	H0
ATOM 15435	HB2 GLN E 178	-3.707	-11.334	20.505	1.00	73.31		H0
ANISOU15435	HB2 GLN E 178	6490	10720	10640	720	940	420	H0
ATOM 15436	HB3 GLN E 178	-5.262	-11.619	20.607	1.00	70.99		H0
ANISOU15436	HB3 GLN E 178	6510	10260	10200	720	920	450	H0
ATOM 15437	HG2 GLN E 178	-5.057	-10.197	22.696	1.00	72.63		H0
ANISOU15437	HG2 GLN E 178	6640	10650	10310	550	600	500	H0
ATOM 15438	HG3 GLN E 178	-3.785	-9.628	21.941	1.00	74.29		H0
ANISOU15438	HG3 GLN E 178	6600	10980	10640	480	700	440	H0
ATOM 15439	HE21 GLN E 178	-5.913	-7.262	21.391	1.00	71.99		H0
ANISOU15439	HE21 GLN E 178	6790	10530	10030	120	760	350	H0
ATOM 15440	HE22 GLN E 178	-6.487	-8.215	22.442	1.00	71.58		H0
ANISOU15440	HE22 GLN E 178	6790	10460	9950	260	630	420	H0
ATOM 15441	N LYS E 179	-4.335	-14.897	21.409	1.00	72.66		N0
ANISOU15441	N LYS E 179	6610	10360	10640	1250	830	590	N0
ATOM 15442	CA LYS E 179	-3.969	-16.147	20.689	1.00	73.71		CO
ANISOU15442	CA LYS E 179	6750	10380	10880	1460	960	580	CO

ATOM 15443 C LYSE 179	-5.136 -16.567 19.787 1.00 70.98	C0
ANISOU15443 C LYSE 179	6680 9850 10440 1410 1110 540	C0
ATOM 15444 O LYSE 179	-6.303 -16.382 20.195 1.00 68.32	O0
ANISOU15444 O LYSE 179	6550 9450 9960 1300 1040 570	O0
ATOM 15445 CB LYSE 179	-3.584 -17.253 21.678 1.00 76.23	C0
ANISOU15445 CB LYSE 179	7040 10660 11260 1680 810 680	C0
ATOM 15446 CG LYSE 179	-4.691 -17.723 22.614 1.00 75.72	C0
ANISOU15446 CG LYSE 179	7230 10480 11060 1660 670 780	C0
ATOM 15447 CD LYSE 179	-4.208 -18.675 23.691 1.00 78.41	C0
ANISOU15447 CD LYSE 179	7540 10800 11450 1870 500 890	C0
ATOM 15448 CE LYSE 179	-3.805 -20.037 23.161 1.00 80.79	C0
ANISOU15448 CE LYSE 179	7880 10940 11870 2110 590 900	C0
ATOM 15449 NZ LYSE 179	-4.974 -20.810 22.676 1.00 79.96	N0
ANISOU15449 NZ LYSE 179	8100 10610 11670 2080 700 900	N0
ATOM 15450 H LYSE 179	-5.106 -14.968 21.888 1.00 71.63	H0
ANISOU15450 H LYSE 179	6640 10170 10410 1220 760 630	H0
ATOM 15451 HA LYSE 179	-3.189 -15.956 20.118 1.00 74.80	H0
ANISOU15451 HA LYSE 179	6720 10590 11110 1470 1050 530	H0
ATOM 15452 HB2 LYSE 179	-3.266 -18.025 21.165 1.00 77.32	H0
ANISOU15452 HB2 LYSE 179	7170 10730 11480 1820 900 670	H0
ATOM 15453 HB3 LYSE 179	-2.836 -16.931 22.223 1.00 77.35	H0
ANISOU15453 HB3 LYSE 179	6990 10940 11470 1700 700 710	H0
ATOM 15454 HG2 LYSE 179	-5.097 -16.940 23.042 1.00 74.52	H0
ANISOU15454 HG2 LYSE 179	7100 10390 10820 1520 600 780	H0
ATOM 15455 HG3 LYSE 179	-5.386 -18.169 22.085 1.00 74.87	H0
ANISOU15455 HG3 LYSE 179	7300 10240 10910 1650 770 750	H0
ATOM 15456 HD2 LYSE 179	-3.437 -18.274 24.147 1.00 79.44	H0
ANISOU15456 HD2 LYSE 179	7480 11070 11640 1890 400 910	H0
ATOM 15457 HD3 LYSE 179	-4.920 -18.793 24.355 1.00 77.55	H0
ANISOU15457 HD3 LYSE 179	7590 10640 11230 1820 410 950	H0
ATOM 15458 HE2 LYSE 179	-3.170 -19.929 22.428 1.00 81.52	H0
ANISOU15458 HE2 LYSE 179	7830 11080 12060 2160 700 830	H0
ATOM 15459 HE3 LYSE 179	-3.363 -20.544 23.869 1.00 82.30	H0
ANISOU15459 HE3 LYSE 179	8030 11140 12100 2250 460 980	H0
ATOM 15460 HZ1 LYSE 179	-5.655 -20.747 23.272 1.00 78.86	H0
ANISOU15460 HZ1 LYSE 179	8090 10450 11430 2000 620 950	H0
ATOM 15461 HZ2 LYSE 179	-4.747 -21.682 22.578 1.00 81.14	H0
ANISOU15461 HZ2 LYSE 179	8300 10650 11880 2240 720 920	H0
ATOM 15462 HZ3 LYSE 179	-5.248 -20.484 21.876 1.00 78.82	H0
ANISOU15462 HZ3 LYSE 179	7980 10460 11510 1990 830 820	H0
ATOM 15463 N LYSE 180	-4.813 -17.101 18.605 1.00 70.61	N0
ANISOU15463 N LYSE 180	6630 9730 10460 1490 1300 460	N0
ATOM 15464 CA LYSE 180	-5.778 -17.609 17.595 1.00 68.25	C0
ANISOU15464 CA LYSE 180	6590 9260 10080 1450 1450 410	C0
ATOM 15465 C LYSE 180	-6.053 -19.091 17.867 1.00 68.33	C0
ANISOU15465 C LYSE 180	6760 9090 10110 1630 1430 460	C0
ATOM 15466 O LYSE 180	-5.104 -19.806 18.229 1.00 69.84	O0
ANISOU15466 O LYSE 180	6820 9280 10440 1840 1400 500	O0
ATOM 15467 CB LYSE 180	-5.215 -17.422 16.183 1.00 68.84	C0
ANISOU15467 CB LYSE 180	6600 9350 10200 1440 1680 300	C0
ATOM 15468 CG LYSE 180	-6.012 -18.095 15.076 1.00 68.35	C0
ANISOU15468 CG LYSE 180	6800 9110 10060 1430 1830 230	C0
ATOM 15469 CD LYSE 180	-5.306 -18.093 13.750 1.00 69.76	C0
ANISOU15469 CD LYSE 180	6910 9300 10300 1450 2060 130	C0

ATOM 15470 CE LYS E 180	-6.236	-18.392	12.597	1.00	69.00		C0
ANISOU15470 CE LYS E 180	7090	9060	10070	1370	2200	50	C0
ATOM 15471 NZ LYS E 180	-5.484	-18.676	11.351	1.00	71.64		N0
ANISOU15471 NZ LYS E 180	7380	9380	10460	1430	2440	-50	N0
ATOM 15472 H LYS E 180	-3.945	-17.192	18.343	1.00	72.06		H0
ANISOU15472 H LYS E 180	6650	9980	10750	1570	1350	440	H0
ATOM 15473 HA LYS E 180	-6.620	-17.103	17.678	1.00	66.61		H0
ANISOU15473 HA LYS E 180	6510	9050	9760	1320	1410	410	H0
ATOM 15474 HB2 LYS E 180	-5.168	-16.461	15.993	1.00	68.21		H0
ANISOU15474 HB2 LYS E 180	6470	9370	10090	1300	1690	270	H0
ATOM 15475 HB3 LYS E 180	-4.301	-17.774	16.165	1.00	70.65		H0
ANISOU15475 HB3 LYS E 180	6670	9620	10550	1570	1710	290	H0
ATOM 15476 HG2 LYS E 180	-6.197	-19.022	15.333	1.00	68.89		H0
ANISOU15476 HG2 LYS E 180	6960	9070	10150	1540	1810	260	H0
ATOM 15477 HG3 LYS E 180	-6.872	-17.632	14.980	1.00	66.73		H0
ANISOU15477 HG3 LYS E 180	6720	8890	9740	1290	1810	230	H0
ATOM 15478 HD2 LYS E 180	-4.893	-17.215	13.608	1.00	69.70		H0
ANISOU15478 HD2 LYS E 180	6770	9420	10300	1360	2090	110	H0
ATOM 15479 HD3 LYS E 180	-4.591	-18.765	13.766	1.00	71.49		H0
ANISOU15479 HD3 LYS E 180	7030	9510	10620	1610	2110	120	H0
ATOM 15480 HE2 LYS E 180	-6.793	-19.162	12.816	1.00	68.98		H0
ANISOU15480 HE2 LYS E 180	7230	8930	10040	1420	2160	80	H0
ATOM 15481 HE3 LYS E 180	-6.821	-17.627	12.446	1.00	67.69		H0
ANISOU15481 HE3 LYS E 180	6990	8930	9810	1210	2180	50	H0
ATOM 15482 HZ1 LYS E 180	-4.940	-17.977	11.154	1.00	71.66		H0
ANISOU15482 HZ1 LYS E 180	7250	9490	10490	1370	2490	-70	H0
ATOM 15483 HZ2 LYS E 180	-6.063	-18.805	10.665	1.00	70.81		H0
ANISOU15483 HZ2 LYS E 180	7450	9190	10260	1370	2520	-100	H0
ATOM 15484 HZ3 LYS E 180	-4.981	-19.423	11.460	1.00	72.80		H0
ANISOU15484 HZ3 LYS E 180	7480	9480	10700	1590	2470	-50	H0
ATOM 15485 N ASN E 181	-7.303	-19.526	17.689	1.00	66.09		N0
ANISOU15485 N ASN E 181	6750	8660	9700	1550	1440	460	N0
ATOM 15486 CA ASN E 181	-7.707	-20.954	17.761	1.00	66.70		C0
ANISOU15486 CA ASN E 181	7030	8530	9780	1680	1450	500	C0
ATOM 15487 C ASN E 181	-8.362	-21.352	16.437	1.00	65.37		C0
ANISOU15487 C ASN E 181	7070	8220	9550	1620	1630	400	C0
ATOM 15488 O ASN E 181	-9.010	-20.492	15.808	1.00	63.49		O0
ANISOU15488 O ASN E 181	6870	8040	9210	1430	1690	340	O0
ATOM 15489 CB ASN E 181	-8.652	-21.240	18.930	1.00	66.01		C0
ANISOU15489 CB ASN E 181	7100	8390	9590	1630	1280	600	C0
ATOM 15490 CG ASN E 181	-8.018	-20.985	20.281	1.00	67.32		C0
ANISOU15490 CG ASN E 181	7110	8680	9800	1700	1090	710	C0
ATOM 15491 OD1 ASN E 181	-6.981	-21.562	20.603	1.00	69.52		O0
ANISOU15491 OD1 ASN E 181	7260	8950	10200	1900	1050	750	O0
ATOM 15492 ND2 ASN E 181	-8.637	-20.131	21.082	1.00	66.23		N0
ANISOU15492 ND2 ASN E 181	6970	8640	9550	1540	970	750	N0
ATOM 15493 H ASN E 181	-7.995	-18.961	17.510	1.00	64.74		H0
ANISOU15493 H ASN E 181	6660	8510	9440	1410	1450	440	H0
ATOM 15494 HA ASN E 181	-6.897	-21.502	17.889	1.00	68.36		H0
ANISOU15494 HA ASN E 181	7150	8720	10100	1850	1450	520	H0
ATOM 15495 HB2 ASN E 181	-9.448	-20.679	18.837	1.00	64.48		H0
ANISOU15495 HB2 ASN E 181	6980	8230	9290	1470	1280	590	H0
ATOM 15496 HB3 ASN E 181	-8.937	-22.176	18.884	1.00	66.76		H0
ANISOU15496 HB3 ASN E 181	7350	8340	9680	1690	1300	620	H0

ATOM 15497 HD21 ASN E 181	-8.433 -20.105 21.943	1.00 66.51	H0
ANISOU15497 HD21 ASN E 181	6970 8730 9580	1570 850 820	H0
ATOM 15498 HD22 ASN E 181	-9.251 -19.583 20.759	1.00 64.69	H0
ANISOU15498 HD22 ASN E 181	6830 8470 9280	1410 1010 710	H0
ATOM 15499 N SER E 182	-8.164 -22.607 16.038	1.00 66.33	N0
ANISOU15499 N SER E 182	7310 8160 9730	1770 1720 380	N0
ATOM 15500 CA SER E 182	-8.891 -23.296 14.943	1.00 66.17	C0
ANISOU15500 CA SER E 182	7550 7970 9630	1720 1870 300	C0
ATOM 15501 C SER E 182	-9.537 -24.554 15.532	1.00 66.61	C0
ANISOU15501 C SER E 182	7840 7810 9650	1770 1800 360	C0
ATOM 15502 O SER E 182	-8.796 -25.489 15.889	1.00 68.63	O0
ANISOU15502 O SER E 182	8100 7960 10020	2000 1790 410	O0
ATOM 15503 CB SER E 182	-7.969 -23.607 13.791	1.00 67.90	C0
ANISOU15503 CB SER E 182	7710 8150 9940	1850 2070 190	C0
ATOM 15504 OG SER E 182	-8.711 -23.956 12.633	1.00 67.58	O0
ANISOU15504 OG SER E 182	7900 7980 9800	1740 2210 90	O0
ATOM 15505 H SER E 182	-7.542 -23.150 16.423	1.00 67.96	H0
ANISOU15505 H SER E 182	7460 8340 10020	1930 1690 420	H0
ATOM 15506 HA SER E 182	-9.612 -22.693 14.618	1.00 64.56	H0
ANISOU15506 HA SER E 182	7400 7810 9330	1550 1880 270	H0
ATOM 15507 HB2 SER E 182	-7.411 -22.820 13.599	1.00 67.77	H0
ANISOU15507 HB2 SER E 182	7510 8280 9960	1830 2100 160	H0
ATOM 15508 HB3 SER E 182	-7.376 -24.349 14.038	1.00 69.62	H0
ANISOU15508 HB3 SER E 182	7900 8290 10260	2030 2070 210	H0
ATOM 15509 N VAL E 183	-10.864 -24.538 15.678	1.00 65.21	N0
ANISOU15509 N VAL E 183	7860 7590 9330	1580 1750 380	N0
ATOM 15510 CA VAL E 183	-11.658 -25.576 16.399	1.00 65.96	C0
ANISOU15510 CA VAL E 183	8190 7510 9360	1560 1660 460	C0
ATOM 15511 C VAL E 183	-12.674 -26.174 15.424	1.00 66.37	C0
ANISOU15511 C VAL E 183	8500 7410 9310	1410 1770 380	C0
ATOM 15512 O VAL E 183	-13.282 -25.411 14.650	1.00 64.72	O0
ANISOU15512 O VAL E 183	8280 7300 9010	1240 1820 300	O0
ATOM 15513 CB VAL E 183	-12.366 -24.993 17.639	1.00 64.24	C0
ANISOU15513 CB VAL E 183	7940 7410 9060	1430 1490 570	C0
ATOM 15514 CG1 VAL E 183	-12.977 -26.087 18.503	1.00 64.86	C0
ANISOU15514 CG1 VAL E 183	8240 7320 9080	1420 1410 670	C0
ATOM 15515 CG2 VAL E 183	-11.439 -24.111 18.465	1.00 63.99	C0
ANISOU15515 CG2 VAL E 183	7630 7580 9100	1510 1380 630	C0
ATOM 15516 H VAL E 183	-11.382 -23.871 15.335	1.00 63.85	H0
ANISOU15516 H VAL E 183	7680 7500 9080	1430 1760 350	H0
ATOM 15517 HA VAL E 183	-11.053 -26.282 16.690	1.00 67.61	H0
ANISOU15517 HA VAL E 183	8410 7620 9650	1720 1650 500	H0
ATOM 15518 HB VAL E 183	-13.105 -24.423 17.313	1.00 62.74	H0
ANISOU15518 HB VAL E 183	7770 7290 8780	1270 1500 530	H0
ATOM 15519 HG11 VAL E 183	-13.710 -26.510 18.023	1.00 64.82	H0
ANISOU15519 HG11 VAL E 183	8400 7220 9010	1320 1470 630	H0
ATOM 15520 HG12 VAL E 183	-13.314 -25.699 19.329	1.00 64.18	H0
ANISOU15520 HG12 VAL E 183	8120 7330 8940	1350 1300 740	H0
ATOM 15521 HG13 VAL E 183	-12.299 -26.753 18.711	1.00 66.58	H0
ANISOU15521 HG13 VAL E 183	8480 7440 9380	1590 1400 710	H0
ATOM 15522 HG21 VAL E 183	-10.605 -24.584 18.633	1.00 65.58	H0
ANISOU15522 HG21 VAL E 183	7780 7730 9400	1690 1370 660	H0
ATOM 15523 HG22 VAL E 183	-11.865 -23.896 19.313	1.00 63.38	H0
ANISOU15523 HG22 VAL E 183	7570 7550 8960	1450 1270 700	H0

ATOM 15524 HG23 VAL E 183	-11.254	-23.289	17.980	1.00	63.19	H0	
ANISOU15524 HG23 VAL E 183	7410	7590	9010	1460	1420	570	H0
ATOM 15525 N THR E 184	-12.843	-27.494	15.473	1.00	69.17	N0	
ANISOU15525 N THR E 184	9090	7520	9670	1480	1800	400	N0
ATOM 15526 CA THR E 184	-13.954	-28.223	14.811	1.00	70.33	C0	
ANISOU15526 CA THR E 184	9530	7500	9690	1310	1860	330	C0
ATOM 15527 C THR E 184	-14.994	-28.565	15.886	1.00	70.40	C0	
ANISOU15527 C THR E 184	9670	7470	9610	1160	1730	440	C0
ATOM 15528 O THR E 184	-14.590	-28.935	17.009	1.00	70.93	O0	
ANISOU15528 O THR E 184	9730	7500	9720	1280	1630	570	O0
ATOM 15529 CB THR E 184	-13.428	-29.430	14.025	1.00	73.18	C0	
ANISOU15529 CB THR E 184	10080	7610	10120	1460	2000	260	C0
ATOM 15530 OG1 THR E 184	-14.509	-29.888	13.212	1.00	73.57	O0	
ANISOU15530 OG1 THR E 184	10380	7540	10030	1250	2070	170	O0
ATOM 15531 CG2 THR E 184	-12.908	-30.550	14.900	1.00	75.74	C0	
ANISOU15531 CG2 THR E 184	10520	7730	10520	1660	1940	360	C0
ATOM 15532 H THR E 184	-12.285	-28.049	15.929	1.00	70.52	H0	
ANISOU15532 H THR E 184	9270	7610	9910	1630	1770	450	H0
ATOM 15533 HA THR E 184	-14.374	-27.605	14.169	1.00	69.09	H0	
ANISOU15533 HA THR E 184	9340	7440	9470	1180	1900	260	H0
ATOM 15534 HB THR E 184	-12.697	-29.121	13.438	1.00	73.58	H0	
ANISOU15534 HB THR E 184	10010	7710	10230	1560	2090	200	H0
ATOM 15535 HG21 THR E 184	-12.301	-30.189	15.570	1.00	75.60	H0	
ANISOU15535 HG21 THR E 184	10330	7810	10580	1780	1870	430	H0
ATOM 15536 HG22 THR E 184	-12.433	-31.198	14.350	1.00	77.27	H0	
ANISOU15536 HG22 THR E 184	10810	7770	10770	1790	2040	310	H0
ATOM 15537 HG23 THR E 184	-13.655	-30.991	15.345	1.00	75.62	H0	
ANISOU15537 HG23 THR E 184	10670	7620	10430	1550	1890	420	H0
ATOM 15538 N TYR E 185	-16.279	-28.412	15.558	1.00	69.70	N0	
ANISOU15538 N TYR E 185	9690	7420	9380	900	1730	400	N0
ATOM 15539 CA TYR E 185	-17.424	-28.580	16.490	1.00	69.72	C0	
ANISOU15539 CA TYR E 185	9780	7430	9270	710	1630	490	C0
ATOM 15540 C TYR E 185	-18.349	-29.679	15.955	1.00	71.65	C0	
ANISOU15540 C TYR E 185	10330	7470	9430	550	1690	440	C0
ATOM 15541 O TYR E 185	-18.225	-30.036	14.771	1.00	72.88	O0	
ANISOU15541 O TYR E 185	10590	7520	9590	550	1800	320	O0
ATOM 15542 CB TYR E 185	-18.145	-27.243	16.675	1.00	66.75	C0	
ANISOU15542 CB TYR E 185	9220	7330	8820	550	1560	480	C0
ATOM 15543 CG TYR E 185	-17.309	-26.154	17.300	1.00	65.47	C0	
ANISOU15543 CG TYR E 185	8790	7360	8720	680	1490	530	C0
ATOM 15544 CD1 TYR E 185	-17.137	-26.077	18.675	1.00	65.59	C0	
ANISOU15544 CD1 TYR E 185	8750	7430	8750	730	1370	660	C0
ATOM 15545 CD2 TYR E 185	-16.701	-25.182	16.519	1.00	64.75	C0	
ANISOU15545 CD2 TYR E 185	8520	7400	8680	730	1540	450	C0
ATOM 15546 CE1 TYR E 185	-16.383	-25.068	19.256	1.00	64.58	C0	
ANISOU15546 CE1 TYR E 185	8390	7480	8670	830	1290	690	C0
ATOM 15547 CE2 TYR E 185	-15.945	-24.166	17.084	1.00	63.73	C0	
ANISOU15547 CE2 TYR E 185	8160	7440	8610	820	1480	490	C0
ATOM 15548 CZ TYR E 185	-15.785	-24.107	18.458	1.00	63.96	C0	
ANISOU15548 CZ TYR E 185	8130	7520	8650	870	1350	610	C0
ATOM 15549 OH TYR E 185	-15.039	-23.108	19.014	1.00	63.25	O0	
ANISOU15549 OH TYR E 185	7820	7600	8610	940	1280	640	O0
ATOM 15550 H TYR E 185	-16.551	-28.189	14.717	1.00	69.26	H0	
ANISOU15550 H TYR E 185	9650	7380	9280	820	1800	310	H0

ATOM 15551 HA TYR E 185	-17.075	-28.872	17.370	1.00	70.30	H0	
ANISOU15551 HA TYR E 185	9860	7470	9380	800	1560	580	H0
ATOM 15552 HB2 TYR E 185	-18.456	-26.937	15.798	1.00	66.26	H0	
ANISOU15552 HB2 TYR E 185	9150	7310	8720	470	1620	390	H0
ATOM 15553 HB3 TYR E 185	-18.935	-27.394	17.235	1.00	66.63	H0	
ANISOU15553 HB3 TYR E 185	9260	7330	8730	420	1510	530	H0
ATOM 15554 HD1 TYR E 185	-17.544	-26.724	19.227	1.00	66.23	H0	
ANISOU15554 HD1 TYR E 185	8960	7420	8790	690	1340	720	H0
ATOM 15555 HD2 TYR E 185	-16.808	-25.209	15.583	1.00	64.66	H0	
ANISOU15555 HD2 TYR E 185	8560	7350	8650	700	1620	370	H0
ATOM 15556 HE1 TYR E 185	-16.278	-25.035	20.193	1.00	64.86	H0	
ANISOU15556 HE1 TYR E 185	8390	7550	8700	850	1210	770	H0
ATOM 15557 HE2 TYR E 185	-15.540	-23.516	16.534	1.00	63.34	H0	
ANISOU15557 HE2 TYR E 185	8000	7470	8590	840	1520	440	H0
ATOM 15558 N SER E 186	-19.234	-30.201	16.812	1.00	72.97	N0	
ANISOU15558 N SER E 186	10630	7590	9510	390	1620	520	N0
ATOM 15559 CA SER E 186	-20.142	-31.345	16.523	1.00	75.02	C0	
ANISOU15559 CA SER E 186	11190	7640	9680	210	1660	500	C0
ATOM 15560 C SER E 186	-21.043	-31.025	15.322	1.00	74.72	C0	
ANISOU15560 C SER E 186	11160	7680	9550	-10	1720	360	C0
ATOM 15561 O SER E 186	-21.217	-31.921	14.465	1.00	76.14	O0	
ANISOU15561 O SER E 186	11570	7660	9700	-70	1810	270	O0
ATOM 15562 CB SER E 186	-20.957	-31.711	17.739	1.00	75.37	C0	
ANISOU15562 CB SER E 186	11320	7680	9640	50	1580	620	C0
ATOM 15563 OG SER E 186	-21.711	-30.598	18.198	1.00	73.27	O0	
ANISOU15563 OG SER E 186	10830	7700	9300	-100	1510	640	O0
ATOM 15564 H SER E 186	-19.346	-29.881	17.658	1.00	72.32	H0	
ANISOU15564 H SER E 186	10470	7600	9410	380	1540	610	H0
ATOM 15565 HA SER E 186	-19.576	-32.127	16.282	1.00	76.60	H0	
ANISOU15565 HA SER E 186	11530	7640	9940	330	1710	490	H0
ATOM 15566 HB2 SER E 186	-21.566	-32.450	17.514	1.00	76.44	H0	
ANISOU15566 HB2 SER E 186	11650	7680	9720	-100	1610	600	H0
ATOM 15567 HB3 SER E 186	-20.355	-32.017	18.455	1.00	76.17	H0	
ANISOU15567 HB3 SER E 186	11450	7700	9790	190	1540	710	H0
ATOM 15568 N CYS E 187	-21.581	-29.798	15.264	1.00	72.85	N0	
ANISOU15568 N CYS E 187	10690	7720	9260	-110	1670	330	N0
ATOM 15569 CA CYS E 187	-22.502	-29.308	14.198	1.00	72.53	C0	
ANISOU15569 CA CYS E 187	10630	7810	9120	-310	1690	210	C0
ATOM 15570 C CYS E 187	-21.912	-29.583	12.812	1.00	72.88	C0	
ANISOU15570 C CYS E 187	10780	7720	9190	-230	1810	90	C0
ATOM 15571 O CYS E 187	-22.641	-30.110	11.950	1.00	73.87	O0	
ANISOU15571 O CYS E 187	11070	7770	9220	-400	1850	-10	O0
ATOM 15572 CB CYS E 187	-22.778	-27.810	14.317	1.00	70.85	C0	
ANISOU15572 CB CYS E 187	10130	7900	8890	-320	1630	210	C0
ATOM 15573 SG CYS E 187	-21.351	-26.742	13.964	1.00	70.30	S0	
ANISOU15573 SG CYS E 187	9860	7920	8940	-60	1660	200	S0
ATOM 15574 H CYS E 187	-21.421	-29.162	15.895	1.00	71.93	H0	
ANISOU15574 H CYS E 187	10420	7740	9170	-60	1610	390	H0
ATOM 15575 HA CYS E 187	-23.355	-29.793	14.282	1.00	73.05	H0	
ANISOU15575 HA CYS E 187	10800	7840	9120	-480	1680	210	H0
ATOM 15576 HB2 CYS E 187	-23.499	-27.572	13.698	1.00	70.50	H0	
ANISOU15576 HB2 CYS E 187	10090	7930	8770	-460	1630	150	H0
ATOM 15577 HB3 CYS E 187	-23.090	-27.616	15.225	1.00	70.41	H0	
ANISOU15577 HB3 CYS E 187	10010	7920	8820	-360	1560	290	H0

ATOM 15578 N CYS E 188	-20.633	-29.247	12.629	1.00	72.46	N0	
ANISOU15578 N CYS E 188	10620	7660	9250	20	1860	80	N0
ATOM 15579 CA CYS E 188	-20.046	-28.838	11.328	1.00	72.43	C0	
ANISOU15579 CA CYS E 188	10590	7670	9260	90	1960	-40	C0
ATOM 15580 C CYS E 188	-18.720	-29.552	11.076	1.00	72.89	C0	
ANISOU15580 C CYS E 188	10720	7530	9440	350	2080	-60	C0
ATOM 15581 O CYS E 188	-17.848	-29.567	11.940	1.00	72.99	O0	
ANISOU15581 O CYS E 188	10620	7540	9570	540	2050	30	O0
ATOM 15582 CB CYS E 188	-19.869	-27.325	11.328	1.00	70.95	C0	
ANISOU15582 CB CYS E 188	10120	7760	9080	120	1920	-30	C0
ATOM 15583 SG CYS E 188	-21.343	-26.452	11.924	1.00	71.95	S0	
ANISOU15583 SG CYS E 188	10130	8120	9090	-110	1770	20	S0
ATOM 15584 H CYS E 188	-20.018	-29.241	13.301	1.00	72.62	H0	
ANISOU15584 H CYS E 188	10570	7670	9350	160	1840	150	H0
ATOM 15585 HA CYS E 188	-20.682	-29.078	10.617	1.00	72.62	H0	
ANISOU15585 HA CYS E 188	10730	7660	9200	-50	1990	-120	H0
ATOM 15586 HB2 CYS E 188	-19.110	-27.089	11.901	1.00	71.28	H0	
ANISOU15586 HB2 CYS E 188	10050	7830	9210	270	1900	30	H0
ATOM 15587 HB3 CYS E 188	-19.671	-27.022	10.422	1.00	71.39	H0	
ANISOU15587 HB3 CYS E 188	10180	7830	9110	130	1980	-110	H0
ATOM 15588 N PRO E 189	-18.521	-30.154	9.879	1.00	73.15	N0	
ANISOU15588 N PRO E 189	10940	7410	9450	360	2210	-190	N0
ATOM 15589 CA PRO E 189	-17.249	-30.793	9.540	1.00	74.30	C0	
ANISOU15589 CA PRO E 189	11140	7380	9710	620	2340	-230	C0
ATOM 15590 C PRO E 189	-16.110	-29.793	9.276	1.00	72.99	C0	
ANISOU15590 C PRO E 189	10700	7390	9640	800	2400	-240	C0
ATOM 15591 O PRO E 189	-14.962	-30.203	9.315	1.00	74.89	O0	
ANISOU15591 O PRO E 189	10910	7540	10010	1050	2480	-250	O0
ATOM 15592 CB PRO E 189	-17.569	-31.587	8.264	1.00	75.67	C0	
ANISOU15592 CB PRO E 189	11600	7360	9790	520	2460	-380	C0
ATOM 15593 CG PRO E 189	-18.729	-30.845	7.633	1.00	74.32	C0	
ANISOU15593 CG PRO E 189	11410	7370	9460	240	2410	-440	C0
ATOM 15594 CD PRO E 189	-19.507	-30.251	8.790	1.00	72.76	C0	
ANISOU15594 CD PRO E 189	11050	7350	9240	120	2240	-310	C0
ATOM 15595 HA PRO E 189	-16.992	-31.419	10.263	1.00	75.23	H0	
ANISOU15595 HA PRO E 189	11320	7380	9890	710	2310	-160	H0
ATOM 15596 HB2 PRO E 189	-16.797	-31.606	7.658	1.00	76.60	H0	
ANISOU15596 HB2 PRO E 189	11710	7440	9950	660	2570	-450	H0
ATOM 15597 HB3 PRO E 189	-17.821	-32.507	8.480	1.00	77.13	H0	
ANISOU15597 HB3 PRO E 189	11980	7360	9960	500	2460	-370	H0
ATOM 15598 HG2 PRO E 189	-18.405	-30.139	7.037	1.00	73.66	H0	
ANISOU15598 HG2 PRO E 189	11220	7410	9360	270	2450	-480	H0
ATOM 15599 HG3 PRO E 189	-19.292	-31.458	7.118	1.00	75.32	H0	
ANISOU15599 HG3 PRO E 189	11740	7380	9500	110	2430	-500	H0
ATOM 15600 HD2 PRO E 189	-19.857	-29.371	8.557	1.00	71.40	H0	
ANISOU15600 HD2 PRO E 189	10740	7360	9020	40	2200	-320	H0
ATOM 15601 HD3 PRO E 189	-20.251	-30.828	9.044	1.00	73.33	H0	
ANISOU15601 HD3 PRO E 189	11260	7350	9260	-20	2190	-290	H0
ATOM 15602 N GLU E 190	-16.447	-28.524	9.016	1.00	69.49	N0	
ANISOU15602 N GLU E 190	10070	7190	9140	680	2350	-250	N0
ATOM 15603 CA GLU E 190	-15.472	-27.446	8.697	1.00	67.44	C0	
ANISOU15603 CA GLU E 190	9570	7110	8950	800	2410	-270	C0
ATOM 15604 C GLU E 190	-15.040	-26.785	10.010	1.00	64.62	C0	
ANISOU15604 C GLU E 190	8960	6900	8690	890	2280	-140	C0

ATOM 15605 O GLU E 190	-15.887 -26.678 10.923 1.00 63.27	O0
ANISOU15605 O GLU E 190	8790 6780 8470 770 2140 -50	O0
ATOM 15606 CB GLU E 190	-16.064 -26.416 7.727 1.00 66.68	C0
ANISOU15606 CB GLU E 190	9440 7180 8720 620 2430 -350	C0
ATOM 15607 CG GLU E 190	-17.023 -26.993 6.693 1.00 67.78	C0
ANISOU15607 CG GLU E 190	9850 7200 8700 440 2470 -450	C0
ATOM 15608 CD GLU E 190	-18.496 -26.968 7.082 1.00 67.24	C0
ANISOU15608 CD GLU E 190	9850 7190 8510 210 2320 -410	C0
ATOM 15609 OE1 GLU E 190	-19.349 -27.195 6.196 1.00 67.34	O0
ANISOU15609 OE1 GLU E 190	10030 7170 8390 30 2330 -500	O0
ATOM 15610 OE2 GLU E 190	-18.793 -26.729 8.274 1.00 66.78	O0
ANISOU15610 OE2 GLU E 190	9660 7210 8500 200 2190 -300	O0
ATOM 15611 H GLU E 190	-17.306 -28.234 9.045 1.00 68.51	H0
ANISOU15611 H GLU E 190	9970 7140 8920 520 2280 -250	H0
ATOM 15612 HA GLU E 190	-14.685 -27.855 8.277 1.00 68.88	H0
ANISOU15612 HA GLU E 190	9770 7210 9190 940 2520 -320	H0
ATOM 15613 HB2 GLU E 190	-16.532 -25.731 8.248 1.00 65.14	H0
ANISOU15613 HB2 GLU E 190	9140 7120 8500 540 2320 -290	H0
ATOM 15614 HB3 GLU E 190	-15.325 -25.976 7.257 1.00 66.82	H0
ANISOU15614 HB3 GLU E 190	9360 7250 8770 700 2510 -390	H0
ATOM 15615 HG2 GLU E 190	-16.920 -26.492 5.856 1.00 67.66	H0
ANISOU15615 HG2 GLU E 190	9830 7250 8630 400 2530 -520	H0
ATOM 15616 HG3 GLU E 190	-16.770 -27.922 6.510 1.00 69.38	H0
ANISOU15616 HG3 GLU E 190	10200 7230 8930 500 2540 -490	H0
ATOM 15617 N ALA E 191	-13.773 -26.374 10.102 1.00 63.30	N0
ANISOU15617 N ALA E 191	8580 6810 8650 1080 2340 -130	N0
ATOM 15618 CA ALA E 191	-13.193 -25.692 11.282 1.00 61.70	C0
ANISOU15618 CA ALA E 191	8130 6770 8550 1170 2210 -20	C0
ATOM 15619 C ALA E 191	-13.630 -24.221 11.302 1.00 58.84	C0
ANISOU15619 C ALA E 191	7600 6640 8110 1010 2140 -10	C0
ATOM 15620 O ALA E 191	-13.820 -23.626 10.221 1.00 58.04	O0
ANISOU15620 O ALA E 191	7520 6600 7930 910 2230 -90	O0
ATOM 15621 CB ALA E 191	-11.690 -25.817 11.277 1.00 63.14	C0
ANISOU15621 CB ALA E 191	8130 6960 8900 1420 2300 -20	C0
ATOM 15622 H ALA E 191	-13.165 -26.484 9.432 1.00 64.49	H0
ANISOU15622 H ALA E 191	8730 6930 8840 1160 2450 -200	H0
ATOM 15623 HA ALA E 191	-13.541 -26.129 12.094 1.00 61.75	H0
ANISOU15623 HA ALA E 191	8190 6720 8560 1170 2120 60	H0
ATOM 15624 HB1 ALA E 191	-11.325 -25.396 12.074 1.00 62.83	H0
ANISOU15624 HB1 ALA E 191	7930 7020 8920 1470 2210 50	H0
ATOM 15625 HB2 ALA E 191	-11.442 -26.757 11.266 1.00 64.78	H0
ANISOU15625 HB2 ALA E 191	8450 7010 9150 1540 2340 -30	H0
ATOM 15626 HB3 ALA E 191	-11.330 -25.379 10.487 1.00 63.28	H0
ANISOU15626 HB3 ALA E 191	8090 7040 8910 1410 2400 -100	H0
ATOM 15627 N TYR E 192	-13.790 -23.665 12.502 1.00 56.98	N0
ANISOU15627 N TYR E 192	7240 6520 7890 990 1990 100	N0
ATOM 15628 CA TYR E 192	-14.126 -22.241 12.750 1.00 54.58	C0
ANISOU15628 CA TYR E 192	6780 6430 7530 870 1910 120	C0
ATOM 15629 C TYR E 192	-12.962 -21.609 13.514 1.00 55.06	C0
ANISOU15629 C TYR E 192	6590 6620 7720 1000 1860 180	C0
ATOM 15630 O TYR E 192	-12.404 -22.270 14.412 1.00 56.12	O0
ANISOU15630 O TYR E 192	6680 6700 7940 1140 1800 250	O0
ATOM 15631 CB TYR E 192	-15.463 -22.130 13.486 1.00 52.82	C0
ANISOU15631 CB TYR E 192	6630 6240 7200 720 1770 180	C0

ATOM 15632	CG TYR E 192	-16.664	-22.280	12.589	1.00	52.06	C0
ANISOU15632	CG TYR E 192	6710	6110	6960	550	1810 110	C0
ATOM 15633	CD1 TYR E 192	-17.086	-23.527	12.155	1.00	53.30	C0
ANISOU15633	CD1 TYR E 192	7080	6080	7090	520	1860 70	C0
ATOM 15634	CD2 TYR E 192	-17.372	-21.171	12.158	1.00	50.71	C0
ANISOU15634	CD2 TYR E 192	6500	6080	6690	410	1780 70	C0
ATOM 15635	CE1 TYR E 192	-18.182	-23.669	11.320	1.00	53.23	C0
ANISOU15635	CE1 TYR E 192	7230	6050	6950	340	1880 0	C0
ATOM 15636	CE2 TYR E 192	-18.473	-21.294	11.325	1.00	50.77	C0
ANISOU15636	CE2 TYR E 192	6650	6070	6570	260	1790 10	C0
ATOM 15637	CZ TYR E 192	-18.879	-22.547	10.903	1.00	51.90	C0
ANISOU15637	CZ TYR E 192	6990	6050	6690	220	1840 -30	C0
ATOM 15638	OH TYR E 192	-19.962	-22.667	10.083	1.00	52.11	O0
ANISOU15638	OH TYR E 192	7150	6070	6580	50	1830 -100	O0
ATOM 15639	H TYR E 192	-13.701	-24.135	13.277	1.00	57.53	H0
ANISOU15639	H TYR E 192	7310	6540	8000	1060	1920 170	H0
ATOM 15640	HA TYR E 192	-14.210	-21.780	11.877	1.00	54.30	H0
ANISOU15640	HA TYR E 192	6750	6430	7450	810	1980 50	H0
ATOM 15641	HB2 TYR E 192	-15.496	-22.822	14.179	1.00	53.47	H0
ANISOU15641	HB2 TYR E 192	6760	6250	7310	760	1730 240	H0
ATOM 15642	HB3 TYR E 192	-15.504	-21.258	13.931	1.00	51.82	H0
ANISOU15642	HB3 TYR E 192	6390	6240	7060	680	1710 210	H0
ATOM 15643	HD1 TYR E 192	-16.615	-24.296	12.432	1.00	54.49	H0
ANISOU15643	HD1 TYR E 192	7280	6110	7310	620	1890 90	H0
ATOM 15644	HD2 TYR E 192	-17.101	-20.312	12.439	1.00	50.00	H0
ANISOU15644	HD2 TYR E 192	6280	6100	6620	430	1740 100	H0
ATOM 15645	HE1 TYR E 192	-18.456	-24.526	11.037	1.00	54.21	H0
ANISOU15645	HE1 TYR E 192	7500	6040	7050	310	1920 -30	H0
ATOM 15646	HE2 TYR E 192	-18.942	-20.526	11.044	1.00	49.80	H0
ANISOU15646	HE2 TYR E 192	6490	6050	6390	190	1750 -10	H0
ATOM 15647	N GLU E 193	-12.598	-20.380	13.142	1.00	54.62	N0
ANISOU15647	N GLU E 193	6380	6710	7660	940	1880 150	N0
ATOM 15648	CA GLU E 193	-11.454	-19.638	13.730	1.00	55.41	C0
ANISOU15648	CA GLU E 193	6230	6950	7870	1030	1850 180	C0
ATOM 15649	C GLU E 193	-11.981	-18.571	14.693	1.00	54.32	C0
ANISOU15649	C GLU E 193	6020	6950	7670	920	1690 250	C0
ATOM 15650	O GLU E 193	-13.036	-17.962	14.402	1.00	52.99	O0
ANISOU15650	O GLU E 193	5950	6810	7370	770	1670 230	O0
ATOM 15651	CB GLU E 193	-10.599	-19.025	12.624	1.00	55.99	C0
ANISOU15651	CB GLU E 193	6200	7090	7980	1030	2000 100	C0
ATOM 15652	CG GLU E 193	-9.985	-20.062	11.696	1.00	57.82	C0
ANISOU15652	CG GLU E 193	6500	7200	8270	1160	2180 20	C0
ATOM 15653	CD GLU E 193	-8.884	-19.514	10.808	1.00	58.92	C0
ANISOU15653	CD GLU E 193	6480	7420	8480	1180	2340 -50	C0
ATOM 15654	OE1 GLU E 193	-8.303	-20.293	10.014	1.00	60.55	O0
ANISOU15654	OE1 GLU E 193	6730	7540	8740	1300	2510 -130	O0
ATOM 15655	OE2 GLU E 193	-8.601	-18.306	10.925	1.00	58.03	O0
ANISOU15655	OE2 GLU E 193	6220	7470	8360	1080	2310 -40	O0
ATOM 15656	H GLU E 193	-13.038	-19.915	12.495	1.00	53.93	H0
ANISOU15656	H GLU E 193	6350	6650	7490	850	1920 100	H0
ATOM 15657	HA GLU E 193	-10.902	-20.273	14.236	1.00	56.55	H0
ANISOU15657	HA GLU E 193	6330	7060	8100	1160	1820 220	H0
ATOM 15658	HB2 GLU E 193	-11.155	-18.414	12.097	1.00	54.97	H0
ANISOU15658	HB2 GLU E 193	6140	6990	7750	900	2020 60	H0

ATOM 15659 HB3 GLU E 193	-9.882 -18.502 13.038	1.00 56.25	H0
ANISOU15659 HB3 GLU E 193	6060 7230 8080	1060 1970 120	H0
ATOM 15660 HG2 GLU E 193	-9.617 -20.795 12.234	1.00 58.85	H0
ANISOU15660 HG2 GLU E 193	6610 7270 8490	1290 2150 60	H0
ATOM 15661 HG3 GLU E 193	-10.689 -20.437 11.124	1.00 57.57	H0
ANISOU15661 HG3 GLU E 193	6650 7070 8160	1090 2220 -20	H0
ATOM 15662 N ASP E 194	-11.268 -18.368 15.802	1.00 55.05	N0
ANISOU15662 N ASP E 194	5950 7130 7840	990 1580 320	N0
ATOM 15663 CA ASP E 194	-11.584 -17.329 16.816	1.00 54.56	C0
ANISOU15663 CA ASP E 194	5810 7200 7720	900 1430 380	C0
ATOM 15664 C ASP E 194	-10.279 -16.769 17.388	1.00 54.69	C0
ANISOU15664 C ASP E 194	5580 7340 7850	970 1380 400	C0
ATOM 15665 O ASP E 194	-9.286 -17.515 17.447	1.00 56.27	O0
ANISOU15665 O ASP E 194	5680 7520 8180	1130 1410 420	O0
ATOM 15666 CB ASP E 194	-12.500 -17.893 17.907	1.00 54.93	C0
ANISOU15666 CB ASP E 194	5970 7200 7700	890 1300 460	C0
ATOM 15667 CG ASP E 194	-11.914 -19.075 18.656	1.00 57.26	C0
ANISOU15667 CG ASP E 194	6270 7410 8080	1050 1250 530	C0
ATOM 15668 OD1 ASP E 194	-11.049 -18.843 19.526	1.00 58.75	O0
ANISOU15668 OD1 ASP E 194	6300 7680 8340	1130 1150 590	O0
ATOM 15669 OD2 ASP E 194	-12.320 -20.218 18.356	1.00 58.83	O0
ANISOU15669 OD2 ASP E 194	6630 7450 8270	1090 1300 540	O0
ATOM 15670 H ASP E 194	-10.533 -18.866 16.008	1.00 56.38	H0
ANISOU15670 H ASP E 194	6050 7280 8100	1110 1590 340	H0
ATOM 15671 HA ASP E 194	-12.064 -16.598 16.364	1.00 53.39	H0
ANISOU15671 HA ASP E 194	5690 7090 7500	800 1450 340	H0
ATOM 15672 HB2 ASP E 194	-12.696 -17.185 18.554	1.00 54.16	H0
ANISOU15672 HB2 ASP E 194	5820 7190 7560	830 1220 480	H0
ATOM 15673 HB3 ASP E 194	-13.345 -18.175 17.499	1.00 54.35	H0
ANISOU15673 HB3 ASP E 194	6030 7060 7550	820 1340 430	H0
ATOM 15674 N VAL E 195	-10.293 -15.492 17.775	1.00 53.23	N0
ANISOU15674 N VAL E 195	5310 7290 7620	860 1310 400	N0
ATOM 15675 CA VAL E 195	-9.228 -14.851 18.600	1.00 54.03	C0
ANISOU15675 CA VAL E 195	5200 7530 7800	880 1210 440	C0
ATOM 15676 C VAL E 195	-9.693 -14.876 20.059	1.00 53.25	C0
ANISOU15676 C VAL E 195	5130 7460 7640	880 1030 520	C0
ATOM 15677 O VAL E 195	-10.804 -14.370 20.338	1.00 51.53	O0
ANISOU15677 O VAL E 195	5040 7240 7300	770 980 530	O0
ATOM 15678 CB VAL E 195	-8.918 -13.416 18.133	1.00 53.79	C0
ANISOU15678 CB VAL E 195	5080 7600 7750	740 1250 380	C0
ATOM 15679 CG1 VAL E 195	-7.857 -12.765 19.010	1.00 54.91	C0
ANISOU15679 CG1 VAL E 195	5010 7890 7970	730 1140 410	C0
ATOM 15680 CG2 VAL E 195	-8.504 -13.377 16.666	1.00 54.44	C0
ANISOU15680 CG2 VAL E 195	5160 7660 7870	720 1450 300	C0
ATOM 15681 H VAL E 195	-10.968 -14.922 17.555	1.00 52.23	H0
ANISOU15681 H VAL E 195	5260 7170 7410	760 1310 380	H0
ATOM 15682 HA VAL E 195	-8.416 -15.382 18.523	1.00 55.38	H0
ANISOU15682 HA VAL E 195	5270 7700 8080	990 1240 440	H0
ATOM 15683 HB VAL E 195	-9.750 -12.889 18.225	1.00 52.51	H0
ANISOU15683 HB VAL E 195	5030 7430 7490	650 1220 380	H0
ATOM 15684 HG11 VAL E 195	-8.256 -12.486 19.853	1.00 54.30	H0
ANISOU15684 HG11 VAL E 195	4960 7840 7830	700 1020 450	H0
ATOM 15685 HG12 VAL E 195	-7.489 -11.987 18.555	1.00 54.98	H0
ANISOU15685 HG12 VAL E 195	4950 7950 7980	650 1200 360	H0

ATOM 15686 HG13 VAL E 195	-7.144 -13.404 19.186 1.00 56.20	H0
ANISOU15686 HG13 VAL E 195	5060 8070 8230 850 1140 430	H0
ATOM 15687 HG21 VAL E 195	-7.750 -13.976 16.525 1.00 55.73	H0
ANISOU15687 HG21 VAL E 195	5220 7820 8130 830 1500 290	H0
ATOM 15688 HG22 VAL E 195	-8.247 -12.471 16.423 1.00 54.29	H0
ANISOU15688 HG22 VAL E 195	5090 7700 7840 630 1470 270	H0
ATOM 15689 HG23 VAL E 195	-9.250 -13.661 16.110 1.00 53.68	H0
ANISOU15689 HG23 VAL E 195	5210 7480 7710 700 1500 280	H0
ATOM 15690 N GLU E 196	-8.883 -15.463 20.942 1.00 54.44	N0
ANISOU15690 N GLU E 196	5170 7640 7880 1010 920 590	N0
ATOM 15691 CA GLU E 196	-9.113 -15.455 22.409 1.00 54.66	C0
ANISOU15691 CA GLU E 196	5210 7710 7840 1010 730 680	C0
ATOM 15692 C GLU E 196	-8.261 -14.342 23.024 1.00 53.95	C0
ANISOU15692 C GLU E 196	4930 7790 7780 950 630 680	C0
ATOM 15693 O GLU E 196	-7.028 -14.434 22.948 1.00 54.88	O0
ANISOU15693 O GLU E 196	4840 7980 8030 1040 620 680	O0
ATOM 15694 CB GLU E 196	-8.788 -16.816 23.021 1.00 57.19	C0
ANISOU15694 CB GLU E 196	5560 7940 8220 1190 670 770	C0
ATOM 15695 CG GLU E 196	-9.152 -16.904 24.491 1.00 58.37	C0
ANISOU15695 CG GLU E 196	5780 8120 8280 1180 480 870	C0
ATOM 15696 CD GLU E 196	-9.141 -18.309 25.065 1.00 60.68	C0
ANISOU15696 CD GLU E 196	6180 8290 8580 1330 420 980	C0
ATOM 15697 OE1 GLU E 196	-10.092 -18.648 25.795 1.00 61.83	O0
ANISOU15697 OE1 GLU E 196	6510 8380 8600 1270 370 1040	O0
ATOM 15698 OE2 GLU E 196	-8.182 -19.056 24.787 1.00 63.02	O0
ANISOU15698 OE2 GLU E 196	6390 8540 9020 1510 440 990	O0
ATOM 15699 H GLU E 196	-8.130 -15.911 20.694 1.00 55.81	H0
ANISOU15699 H GLU E 196	5250 7800 8150 1110 960 590	H0
ATOM 15700 HA GLU E 196	-10.063 -15.254 22.575 1.00 53.33	H0
ANISOU15700 HA GLU E 196	5180 7520 7570 930 720 680	H0
ATOM 15701 HB2 GLU E 196	-9.275 -17.508 22.528 1.00 57.03	H0
ANISOU15701 HB2 GLU E 196	5670 7810 8190 1210 750 770	H0
ATOM 15702 HB3 GLU E 196	-7.828 -16.988 22.918 1.00 58.57	H0
ANISOU15702 HB3 GLU E 196	5590 8160 8510 1290 670 770	H0
ATOM 15703 HG2 GLU E 196	-8.524 -16.355 25.008 1.00 58.87	H0
ANISOU15703 HG2 GLU E 196	5710 8300 8360 1180 390 890	H0
ATOM 15704 HG3 GLU E 196	-10.048 -16.524 24.619 1.00 56.99	H0
ANISOU15704 HG3 GLU E 196	5710 7950 7990 1070 490 860	H0
ATOM 15705 N VAL E 197	-8.910 -13.317 23.579 1.00 52.29	N0
ANISOU15705 N VAL E 197	4780 7640 7450 810 560 670	N0
ATOM 15706 CA VAL E 197	-8.244 -12.195 24.303 1.00 52.42	C0
ANISOU15706 CA VAL E 197	4660 7800 7460 720 440 660	C0
ATOM 15707 C VAL E 197	-8.296 -12.500 25.802 1.00 52.30	C0
ANISOU15707 C VAL E 197	4670 7830 7380 760 250 750	C0
ATOM 15708 O VAL E 197	-9.414 -12.609 26.340 1.00 50.73	O0
ANISOU15708 O VAL E 197	4650 7580 7040 720 220 780	O0
ATOM 15709 CB VAL E 197	-8.904 -10.846 23.968 1.00 51.06	C0
ANISOU15709 CB VAL E 197	4570 7650 7180 540 480 590	C0
ATOM 15710 CG1 VAL E 197	-8.205 -9.689 24.667 1.00 52.04	C0
ANISOU15710 CG1 VAL E 197	4580 7900 7290 440 370 570	C0
ATOM 15711 CG2 VAL E 197	-8.955 -10.617 22.466 1.00 50.82	C0
ANISOU15711 CG2 VAL E 197	4560 7560 7190 500 670 510	C0
ATOM 15712 H VAL E 197	-9.817 -13.237 23.548 1.00 51.17	H0
ANISOU15712 H VAL E 197	4770 7450 7220 750 580 660	H0

ATOM 15713 HA VAL E 197	-7.312 -12.159 24.026	1.00 53.49	H0
ANISOU15713 HA VAL E 197	4640 7990 7690	750 460 650	H0
ATOM 15714 HB VAL E 197	-9.835 -10.880 24.299	1.00 50.16	H0
ANISOU15714 HB VAL E 197	4600 7490 6970	520 460 600	H0
ATOM 15715 HG11 VAL E 197	-8.406 -9.714 25.619	1.00 52.06	H0
ANISOU15715 HG11 VAL E 197	4620 7930 7230	440 260 610	H0
ATOM 15716 HG12 VAL E 197	-8.516 -8.846 24.294	1.00 51.19	H0
ANISOU15716 HG12 VAL E 197	4530 7790 7140	330 420 520	H0
ATOM 15717 HG13 VAL E 197	-7.243 -9.765 24.538	1.00 53.20	H0
ANISOU15717 HG13 VAL E 197	4560 8110 7540	460 370 570	H0
ATOM 15718 HG21 VAL E 197	-8.105 -10.877 22.069	1.00 51.81	H0
ANISOU15718 HG21 VAL E 197	4550 7710 7420	550 720 500	H0
ATOM 15719 HG22 VAL E 197	-9.121 -9.677 22.284	1.00 50.20	H0
ANISOU15719 HG22 VAL E 197	4510 7510 7060	400 680 470	H0
ATOM 15720 HG23 VAL E 197	-9.669 -11.153 22.079	1.00 50.00	H0
ANISOU15720 HG23 VAL E 197	4570 7380 7050	540 730 510	H0
ATOM 15721 N SER E 198	-7.129 -12.648 26.436	1.00 53.84	N0
ANISOU15721 N SER E 198	4680 8120 7660	830 130 800	N0
ATOM 15722 CA SER E 198	-6.977 -12.901 27.892	1.00 54.44	C0
ANISOU15722 CA SER E 198	4760 8260 7670	880 -80 890	C0
ATOM 15723 C SER E 198	-6.647 -11.587 28.603	1.00 54.29	C0
ANISOU15723 C SER E 198	4670 8380 7580	720 -200 850	C0
ATOM 15724 O SER E 198	-5.517 -11.101 28.444	1.00 55.40	O0
ANISOU15724 O SER E 198	4590 8640 7830	700 -230 820	O0
ATOM 15725 CB SER E 198	-5.941 -13.953 28.149	1.00 56.77	C0
ANISOU15725 CB SER E 198	4910 8570 8090	1070 -160 970	C0
ATOM 15726 OG SER E 198	-6.359 -15.202 27.623	1.00 56.80	O0
ANISOU15726 OG SER E 198	5040 8410 8130	1210 -60 1000	O0
ATOM 15727 H SER E 198	-6.325 -12.601 26.010	1.00 54.74	H0
ANISOU15727 H SER E 198	4640 8280 7880	870 160 770	H0
ATOM 15728 HA SER E 198	-7.848 -13.232 28.239	1.00 53.67	H0
ANISOU15728 HA SER E 198	4830 8090 7470	870 -90 920	H0
ATOM 15729 HB2 SER E 198	-5.091 -13.687 27.730	1.00 57.68	H0
ANISOU15729 HB2 SER E 198	4840 8760 8320	1090 -140 930	H0
ATOM 15730 HB3 SER E 198	-5.792 -14.037 29.118	1.00 57.61	H0
ANISOU15730 HB3 SER E 198	5020 8720 8150	1090 -310 1030	H0
ATOM 15731 N LEU E 199	-7.619 -11.036 29.335	1.00 53.40	N0
ANISOU15731 N LEU E 199	4730 8260 7300	620 -250 850	N0
ATOM 15732 CA LEU E 199	-7.503 -9.762 30.093	1.00 53.88	C0
ANISOU15732 CA LEU E 199	4790 8430 7260	460 -360 810	C0
ATOM 15733 C LEU E 199	-7.182 -10.083 31.557	1.00 55.20	C0
ANISOU15733 C LEU E 199	4960 8670 7340	500 -580 890	C0
ATOM 15734 O LEU E 199	-8.107 -10.490 32.286	1.00 54.18	O0
ANISOU15734 O LEU E 199	5020 8490 7070	510 -610 950	O0
ATOM 15735 CB LEU E 199	-8.819 -8.983 29.964	1.00 52.28	C0
ANISOU15735 CB LEU E 199	4800 8160 6910	340 -270 740	C0
ATOM 15736 CG LEU E 199	-8.895 -7.639 30.693	1.00 52.92	C0
ANISOU15736 CG LEU E 199	4930 8310 6870	190 -360 680	C0
ATOM 15737 CD1 LEU E 199	-7.850 -6.663 30.171	1.00 54.01	C0
ANISOU15737 CD1 LEU E 199	4900 8520 7100	80 -360 610	C0
ATOM 15738 CD2 LEU E 199	-10.287 -7.034 30.564	1.00 51.58	C0
ANISOU15738 CD2 LEU E 199	4970 8070 6570	130 -260 620	C0
ATOM 15739 H LEU E 199	-8.439 -11.425 29.416	1.00 52.58	H0
ANISOU15739 H LEU E 199	4780 8080 7120	630 -220 870	H0

ATOM 15740 HA LEU E 199	-6.767	-9.232	29.711	1.00	54.44	H0	
ANISOU15740 HA LEU E 199	4720	8560	7410	410	-350	760	H0
ATOM 15741 HB2 LEU E 199	-8.986	-8.824	29.013	1.00	51.50	H0	
ANISOU15741 HB2 LEU E 199	4690	8010	6860	330	-150	690	H0
ATOM 15742 HB3 LEU E 199	-9.544	-9.551	30.295	1.00	51.85	H0	
ANISOU15742 HB3 LEU E 199	4860	8050	6790	390	-270	780	H0
ATOM 15743 HG LEU E 199	-8.717	-7.796	31.653	1.00	53.85	H0	
ANISOU15743 HG LEU E 199	5050	8480	6930	200	-490	720	H0
ATOM 15744 HD11 LEU E 199	-6.962	-6.971	30.425	1.00	55.31	H0	
ANISOU15744 HD11 LEU E 199	4920	8760	7340	120	-440	640	H0
ATOM 15745 HD12 LEU E 199	-8.008	-5.782	30.553	1.00	53.87	H0	
ANISOU15745 HD12 LEU E 199	4950	8520	7000	-20	-390	560	H0
ATOM 15746 HD13 LEU E 199	-7.910	-6.611	29.202	1.00	53.26	H0	
ANISOU15746 HD13 LEU E 199	4790	8370	7070	80	-230	570	H0
ATOM 15747 HD21 LEU E 199	-10.534	-6.986	29.624	1.00	50.58	H0	
ANISOU15747 HD21 LEU E 199	4840	7880	6490	130	-140	590	H0
ATOM 15748 HD22 LEU E 199	-10.290	-6.140	30.945	1.00	51.59	H0	
ANISOU15748 HD22 LEU E 199	5000	8100	6500	40	-310	570	H0
ATOM 15749 HD23 LEU E 199	-10.928	-7.591	31.038	1.00	51.17	H0	
ANISOU15749 HD23 LEU E 199	5010	7990	6440	180	-270	670	H0
ATOM 15750 N ASN E 200	-5.913	-9.920	31.949	1.00	57.45	N0	
ANISOU15750 N ASN E 200	5030	9090	7710	510	-720	910	N0
ATOM 15751 CA ASN E 200	-5.441	-9.989	33.357	1.00	59.21	C0	
ANISOU15751 CA ASN E 200	5240	9420	7840	520	-960	980	C0
ATOM 15752 C ASN E 200	-5.542	-8.578	33.949	1.00	59.43	C0	
ANISOU15752 C ASN E 200	5320	9530	7740	310	-1030	900	C0
ATOM 15753 O ASN E 200	-4.787	-7.697	33.506	1.00	60.33	O0	
ANISOU15753 O ASN E 200	5270	9720	7930	200	-1020	820	O0
ATOM 15754 CB ASN E 200	-4.026	-10.568	33.453	1.00	61.81	C0	
ANISOU15754 CB ASN E 200	5300	9860	8330	640	-1090	1040	C0
ATOM 15755 CG ASN E 200	-3.570	-10.839	34.875	1.00	63.85	C0	
ANISOU15755 CG ASN E 200	5550	10220	8490	690	-1350	1140	C0
ATOM 15756 OD1 ASN E 200	-4.361	-11.237	35.728	1.00	63.34	O0	
ANISOU15756 OD1 ASN E 200	5710	10090	8260	700	-1410	1210	O0
ATOM 15757 ND2 ASN E 200	-2.288	-10.643	35.140	1.00	66.10	N0	
ANISOU15757 ND2 ASN E 200	5570	10670	8880	700	-1510	1140	N0
ATOM 15758 H ASN E 200	-5.243	-9.753	31.355	1.00	57.90	H0	
ANISOU15758 H ASN E 200	4940	9180	7880	510	-680	870	H0
ATOM 15759 HA ASN E 200	-6.042	-10.586	33.855	1.00	59.07	H0	
ANISOU15759 HA ASN E 200	5370	9340	7740	570	-980	1040	H0
ATOM 15760 HB2 ASN E 200	-3.995	-11.405	32.946	1.00	61.81	H0	
ANISOU15760 HB2 ASN E 200	5280	9790	8420	780	-1010	1080	H0
ATOM 15761 HB3 ASN E 200	-3.402	-9.940	33.034	1.00	62.22	H0	
ANISOU15761 HB3 ASN E 200	5190	9990	8460	570	-1070	980	H0
ATOM 15762 HD21 ASN E 200	-2.019	-10.549	35.976	1.00	67.37	H0	
ANISOU15762 HD21 ASN E 200	5720	10910	8970	680	-1670	1180	H0
ATOM 15763 HD22 ASN E 200	-1.699	-10.609	34.481	1.00	66.59	H0	
ANISOU15763 HD22 ASN E 200	5450	10770	9080	720	-1450	1110	H0
ATOM 15764 N PHE E 201	-6.465	-8.374	34.889	1.00	59.53	N0	
ANISOU15764 N PHE E 201	5560	9510	7550	250	-1080	910	N0
ATOM 15765 CA PHE E 201	-6.759	-7.069	35.536	1.00	59.96	C0	
ANISOU15765 CA PHE E 201	5720	9610	7450	70	-1140	820	C0
ATOM 15766 C PHE E 201	-7.005	-7.296	37.031	1.00	61.59	C0	
ANISOU15766 C PHE E 201	6070	9870	7460	70	-1310	890	C0

ATOM 15767 O PHE E 201	-7.232	-8.455	37.424	1.00	61.54	O0
ANISOU15767 O PHE E 201	6120	9830	7430	200	-1350	1000 O0
ATOM 15768 CB PHE E 201	-7.978	-6.417	34.877	1.00	57.72	C0
ANISOU15768 CB PHE E 201	5620	9210	7100	0	-940	730 C0
ATOM 15769 CG PHE E 201	-9.290	-7.077	35.222	1.00	56.71	C0
ANISOU15769 CG PHE E 201	5700	9000	6850	70	-870	780 C0
ATOM 15770 CD1 PHE E 201	-9.643	-8.294	34.658	1.00	55.99	C0
ANISOU15770 CD1 PHE E 201	5610	8830	6830	200	-780	850 C0
ATOM 15771 CD2 PHE E 201	-10.160	-6.495	36.130	1.00	56.65	C0
ANISOU15771 CD2 PHE E 201	5890	9000	6640	-10	-890	740 C0
ATOM 15772 CE1 PHE E 201	-10.838	-8.912	34.991	1.00	55.34	C0
ANISOU15772 CE1 PHE E 201	5720	8680	6630	240	-710	900 C0
ATOM 15773 CE2 PHE E 201	-11.358	-7.112	36.459	1.00	56.21	C0
ANISOU15773 CE2 PHE E 201	6010	8890	6460	40	-820	780 C0
ATOM 15774 CZ PHE E 201	-11.696	-8.319	35.888	1.00	55.39	C0
ANISOU15774 CZ PHE E 201	5890	8710	6440	150	-730	860 C0
ATOM 15775 H PHE E 201	-6.993	-9.043	35.212	1.00	59.25	H0
ANISOU15775 H PHE E 201	5630	9420	7460	330	-1080	970 H0
ATOM 15776 HA PHE E 201	-5.976	-6.473	35.429	1.00	60.87	H0
ANISOU15776 HA PHE E 201	5700	9800	7620	-10	-1190	780 H0
ATOM 15777 HB2 PHE E 201	-8.013	-5.477	35.151	1.00	57.85	H0
ANISOU15777 HB2 PHE E 201	5680	9250	7040	-110	-970	660 H0
ATOM 15778 HB3 PHE E 201	-7.855	-6.442	33.905	1.00	57.08	H0
ANISOU15778 HB3 PHE E 201	5460	9090	7140	20	-830	710 H0
ATOM 15779 HD1 PHE E 201	-9.059	-8.707	34.043	1.00	56.34	H0
ANISOU15779 HD1 PHE E 201	5530	8860	7010	270	-750	870 H0
ATOM 15780 HD2 PHE E 201	-9.934	-5.670	36.529	1.00	57.24	H0
ANISOU15780 HD2 PHE E 201	5980	9120	6650	-100	-950	690 H0
ATOM 15781 HE1 PHE E 201	-11.068	-9.736	34.593	1.00	55.02	H0
ANISOU15781 HE1 PHE E 201	5690	8570	6650	310	-650	940 H0
ATOM 15782 HE2 PHE E 201	-11.941	-6.703	37.077	1.00	56.02	H0
ANISOU15782 HE2 PHE E 201	6110	8880	6300	-10	-820	750 H0
ATOM 15783 HZ PHE E 201	-12.513	-8.736	36.110	1.00	54.89	H0
ANISOU15783 HZ PHE E 201	5950	8610	6300	170	-670	890 H0
ATOM 15784 N ARG E 202	-6.977	-6.224	37.827	1.00	63.24	N0
ANISOU15784 N ARG E 202	6360	10150	7520	-90	-1410	820 N0
ATOM 15785 CA ARG E 202	-7.307	-6.263	39.278	1.00	65.41	C0
ANISOU15785 CA ARG E 202	6810	10470	7570	-120	-1570	860 C0
ATOM 15786 C ARG E 202	-7.703	-4.866	39.768	1.00	65.79	C0
ANISOU15786 C ARG E 202	7010	10530	7460	-300	-1570	730 C0
ATOM 15787 O ARG E 202	-7.368	-3.874	39.093	1.00	65.18	O0
ANISOU15787 O ARG E 202	6860	10450	7460	-410	-1510	620 O0
ATOM 15788 CB ARG E 202	-6.132	-6.826	40.086	1.00	68.76	C0
ANISOU15788 CB ARG E 202	7090	11020	8010	-60	-1820	960 C0
ATOM 15789 CG ARG E 202	-4.891	-5.947	40.142	1.00	70.90	C0
ANISOU15789 CG ARG E 202	7150	11430	8350	-190	-1960	890 C0
ATOM 15790 CD ARG E 202	-3.856	-6.589	41.048	1.00	74.33	C0
ANISOU15790 CD ARG E 202	7450	12010	8780	-120	-2240	1000 C0
ATOM 15791 NE ARG E 202	-2.499	-6.086	40.862	1.00	77.06	N0
ANISOU15791 NE ARG E 202	7500	12510	9270	-190	-2370	960 N0
ATOM 15792 CZ ARG E 202	-1.995	-4.995	41.435	1.00	78.65	C0
ANISOU15792 CZ ARG E 202	7680	12830	9380	-400	-2510	870 C0
ATOM 15793 NH1 ARG E 202	-2.742	-4.246	42.232	1.00	78.74	N0
ANISOU15793 NH1 ARG E 202	7970	12800	9150	-540	-2530	810 N0

ATOM 15794 NH2 ARG E 202	-0.743	-4.646	41.193	1.00	80.00		N0
ANISOU15794 NH2 ARG E 202	7550	13150	9700	-480	-2620	840	N0
ATOM 15795 H ARG E 202	-6.747	-5.396	37.523	1.00	63.16		H0
ANISOU15795 H ARG E 202	6310	10150	7540	-190	-1390	740	H0
ATOM 15796 HA ARG E 202	-8.080	-6.861	39.396	1.00	64.64		H0
ANISOU15796 HA ARG E 202	6840	10310	7410	-50	-1500	910	H0
ATOM 15797 HB2 ARG E 202	-6.437	-6.989	41.002	1.00	69.35		H0
ANISOU15797 HB2 ARG E 202	7300	11120	7930	-70	-1910	1000	H0
ATOM 15798 HB3 ARG E 202	-5.882	-7.687	39.699	1.00	68.77		H0
ANISOU15798 HB3 ARG E 202	7000	11000	8130	70	-1800	1040	H0
ATOM 15799 HG2 ARG E 202	-4.517	-5.841	39.241	1.00	70.50		H0
ANISOU15799 HG2 ARG E 202	6950	11380	8460	-180	-1880	860	H0
ATOM 15800 HG3 ARG E 202	-5.123	-5.060	40.490	1.00	70.90		H0
ANISOU15800 HG3 ARG E 202	7260	11440	8240	-330	-1980	810	H0
ATOM 15801 HD2 ARG E 202	-4.123	-6.450	41.981	1.00	75.06		H0
ANISOU15801 HD2 ARG E 202	7690	12130	8700	-170	-2340	1020	H0
ATOM 15802 HD3 ARG E 202	-3.856	-7.556	40.885	1.00	74.37		H0
ANISOU15802 HD3 ARG E 202	7420	11980	8860	40	-2220	1100	H0
ATOM 15803 HE ARG E 202	-1.968	-6.550	40.350	1.00	77.34		H0
ANISOU15803 HE ARG E 202	7350	12570	9460	-100	-2360	1000	H0
ATOM 15804 HH11 ARG E 202	-3.575	-4.467	42.397	1.00	77.36		H0
ANISOU15804 HH11 ARG E 202	7980	12540	8880	-500	-2440	820	H0
ATOM 15805 HH12 ARG E 202	-2.400	-3.524	42.599	1.00	79.58		H0
ANISOU15805 HH12 ARG E 202	8070	12970	9200	-680	-2620	740	H0
ATOM 15806 HH21 ARG E 202	-0.243	-5.140	40.661	1.00	80.58		H0
ANISOU15806 HH21 ARG E 202	7430	13260	9930	-380	-2600	880	H0
ATOM 15807 HH22 ARG E 202	-0.409	-3.920	41.565	1.00	81.26		H0
ANISOU15807 HH22 ARG E 202	7700	13380	9790	-630	-2710	780	H0
ATOM 15808 N LYS E 203	-8.397	-4.807	40.908	1.00	67.01		N0
ANISOU15808 N LYS E 203	7380	10700	7380	-330	-1630	740	N0
ATOM 15809 CA LYS E 203	-8.758	-3.538	41.591	1.00	68.11		C0
ANISOU15809 CA LYS E 203	7700	10850	7330	-490	-1650	610	C0
ATOM 15810 C LYS E 203	-7.467	-2.871	42.077	1.00	70.12		C0
ANISOU15810 C LYS E 203	7830	11220	7590	-620	-1860	580	C0
ATOM 15811 O LYS E 203	-6.582	-3.593	42.581	1.00	71.10		O0
ANISOU15811 O LYS E 203	7820	11450	7740	-570	-2060	680	O0
ATOM 15812 CB LYS E 203	-9.727	-3.800	42.751	1.00	69.28		C0
ANISOU15812 CB LYS E 203	8100	11000	7230	-470	-1660	640	C0
ATOM 15813 CG LYS E 203	-10.303	-2.549	43.403	1.00	70.35		C0
ANISOU15813 CG LYS E 203	8440	11120	7160	-610	-1630	500	C0
ATOM 15814 CD LYS E 203	-11.026	-2.801	44.715	1.00	71.75		C0
ANISOU15814 CD LYS E 203	8850	11340	7070	-610	-1670	530	C0
ATOM 15815 CE LYS E 203	-12.198	-3.752	44.586	1.00	70.75		C0
ANISOU15815 CE LYS E 203	8810	11150	6910	-490	-1500	600	C0
ATOM 15816 NZ LYS E 203	-13.097	-3.379	43.469	1.00	68.46		N0
ANISOU15816 NZ LYS E 203	8510	10760	6740	-460	-1260	520	N0
ATOM 15817 H LYS E 203	-8.692	-5.553	41.339	1.00	67.21		H0
ANISOU15817 H LYS E 203	7470	10720	7350	-250	-1650	820	H0
ATOM 15818 HA LYS E 203	-9.196	-2.946	40.937	1.00	66.82		H0
ANISOU15818 HA LYS E 203	7560	10610	7210	-520	-1510	530	H0
ATOM 15819 HB2 LYS E 203	-10.468	-4.347	42.417	1.00	68.02		H0
ANISOU15819 HB2 LYS E 203	7980	10780	7090	-390	-1530	680	H0
ATOM 15820 HB3 LYS E 203	-9.257	-4.320	43.435	1.00	70.69		H0
ANISOU15820 HB3 LYS E 203	8260	11240	7350	-450	-1810	730	H0

ATOM 15821	HG2	LYS	E	203	-9.572	-1.917	43.566	1.00	71.39		H0
ANISOU15821	HG2	LYS	E	203	8530	11300	7300	-700	-1740	450	H0
ATOM 15822	HG3	LYS	E	203	-10.925	-2.126	42.774	1.00	68.86		H0
ANISOU15822	HG3	LYS	E	203	8290	10860	7010	-600	-1480	430	H0
ATOM 15823	HD2	LYS	E	203	-10.389	-3.171	45.363	1.00	73.28		H0
ANISOU15823	HD2	LYS	E	203	9020	11610	7210	-620	-1840	600	H0
ATOM 15824	HD3	LYS	E	203	-11.351	-1.946	45.068	1.00	72.01		H0
ANISOU15824	HD3	LYS	E	203	9010	11360	6980	-690	-1650	420	H0
ATOM 15825	HE2	LYS	E	203	-11.867	-4.656	44.437	1.00	70.76		H0
ANISOU15825	HE2	LYS	E	203	8720	11160	7000	-420	-1540	720	H0
ATOM 15826	HE3	LYS	E	203	-12.709	-3.752	45.417	1.00	71.36		H0
ANISOU15826	HE3	LYS	E	203	9050	11260	6810	-520	-1500	600	H0
ATOM 15827	HZ1	LYS	E	203	-13.178	-2.477	43.424	1.00	68.42		H0
ANISOU15827	HZ1	LYS	E	203	8550	10740	6700	-520	-1240	420	H0
ATOM 15828	HZ2	LYS	E	203	-13.918	-3.742	43.602	1.00	67.95		H0
ANISOU15828	HZ2	LYS	E	203	8530	10680	6600	-420	-1160	540	H0
ATOM 15829	HZ3	LYS	E	203	-12.761	-3.689	42.685	1.00	67.71		H0
ANISOU15829	HZ3	LYS	E	203	8280	10640	6810	-410	-1240	550	H0
ATOM 15830	N	LYS	E	204	-7.365	-1.551	41.902	1.00	70.49		N0
ANISOU15830	N	LYS	E	204	7920	11250	7610	-780	-1840	440	N0
ATOM 15831	CA	LYS	E	204	-6.240	-0.722	42.412	1.00	73.04		C0
ANISOU15831	CA	LYS	E	204	8160	11680	7910	-960	-2040	370	C0
ATOM 15832	C	LYS	E	204	-6.379	-0.600	43.934	1.00	74.80		C0
ANISOU15832	C	LYS	E	204	8580	11970	7860	-1020	-2210	380	C0
ATOM 15833	O	LYS	E	204	-7.525	-0.507	44.412	1.00	74.39		O0
ANISOU15833	O	LYS	E	204	8780	11850	7630	-990	-2110	350	O0
ATOM 15834	CB	LYS	E	204	-6.233	0.641	41.714	1.00	72.52		C0
ANISOU15834	CB	LYS	E	204	8140	11530	7880	-1120	-1920	220	C0
ATOM 15835	CG	LYS	E	204	-6.011	0.577	40.209	1.00	71.39		C0
ANISOU15835	CG	LYS	E	204	7810	11320	7990	-1080	-1760	220	C0
ATOM 15836	CD	LYS	E	204	-5.794	1.926	39.559	1.00	71.78		C0
ANISOU15836	CD	LYS	E	204	7900	11300	8070	-1260	-1680	90	C0
ATOM 15837	CE	LYS	E	204	-6.976	2.856	39.726	1.00	71.12		C0
ANISOU15837	CE	LYS	E	204	8140	11060	7820	-1290	-1560	-20	C0
ATOM 15838	NZ	LYS	E	204	-7.059	3.838	38.620	1.00	70.51		N0
ANISOU15838	NZ	LYS	E	204	8110	10850	7830	-1380	-1400	-110	N0
ATOM 15839	H	LYS	E	204	-7.996	-1.070	41.454	1.00	69.21		H0
ANISOU15839	H	LYS	E	204	7850	11000	7450	-790	-1700	370	H0
ATOM 15840	HA	LYS	E	204	-5.396	-1.188	42.209	1.00	73.85		H0
ANISOU15840	HA	LYS	E	204	8060	11860	8140	-930	-2130	440	H0
ATOM 15841	HB2	LYS	E	204	-7.091	1.083	41.886	1.00	71.80		H0
ANISOU15841	HB2	LYS	E	204	8250	11350	7680	-1130	-1830	160	H0
ATOM 15842	HB3	LYS	E	204	-5.527	1.191	42.112	1.00	74.27		H0
ANISOU15842	HB3	LYS	E	204	8320	11820	8070	-1260	-2060	180	H0
ATOM 15843	HG2	LYS	E	204	-5.230	0.012	40.032	1.00	72.14		H0
ANISOU15843	HG2	LYS	E	204	7700	11510	8200	-1040	-1830	290	H0
ATOM 15844	HG3	LYS	E	204	-6.789	0.148	39.795	1.00	69.70		H0
ANISOU15844	HG3	LYS	E	204	7660	11030	7790	-960	-1620	250	H0
ATOM 15845	HD2	LYS	E	204	-5.000	2.347	39.952	1.00	73.55		H0
ANISOU15845	HD2	LYS	E	204	8060	11600	8280	-1400	-1810	60	H0
ATOM 15846	HD3	LYS	E	204	-5.625	1.795	38.601	1.00	70.95		H0
ANISOU15846	HD3	LYS	E	204	7680	11160	8120	-1230	-1570	100	H0
ATOM 15847	HE2	LYS	E	204	-7.801	2.335	39.751	1.00	69.79		H0
ANISOU15847	HE2	LYS	E	204	8050	10850	7620	-1160	-1470	20	H0

ATOM 15848 HE3 LYS E 204	-6.896	3.336	40.571	1.00	72.36		H0
ANISOU15848 HE3 LYS E 204	8410	11240	7840	-1390	-1660	-70	H0
ATOM 15849 HZ1 LYS E 204	-6.270	4.278	38.539	1.00	71.67		H0
ANISOU15849 HZ1 LYS E 204	8170	11030	8030	-1510	-1470	-140	H0
ATOM 15850 HZ2 LYS E 204	-7.718	4.438	38.790	1.00	70.13		H0
ANISOU15850 HZ2 LYS E 204	8250	10710	7680	-1400	-1350	-180	H0
ATOM 15851 HZ3 LYS E 204	-7.242	3.410	37.841	1.00	69.20		H0
ANISOU15851 HZ3 LYS E 204	7860	10650	7780	-1290	-1290	-70	H0
ATOM 15852 N GLY E 205	-5.256	-0.620	44.659	1.00	77.99		N0
ANISOU15852 N GLY E 205	8860	12530	8240	-1100	-2470	410	N0
ATOM 15853 CA GLY E 205	-5.211	-0.585	46.135	1.00	80.41		C0
ANISOU15853 CA GLY E 205	9340	12930	8280	-1170	-2680	420	C0
ATOM 15854 C GLY E 205	-5.947	-1.764	46.750	1.00	80.17		C0
ANISOU15854 C GLY E 205	9440	12890	8130	-990	-2670	560	C0
ATOM 15855 O GLY E 205	-5.462	-2.394	47.687	1.00	82.16		O0
ANISOU15855 O GLY E 205	9690	13250	8280	-960	-2890	670	O0
ATOM 15856 H GLY E 205	-4.434	-0.658	44.269	1.00	78.61		H0
ANISOU15856 H GLY E 205	8730	12670	8460	-1120	-2530	420	H0
ATOM 15857 HA2 GLY E 205	-4.265	-0.597	46.429	1.00	82.25		H0
ANISOU15857 HA2 GLY E 205	9430	13280	8550	-1220	-2870	450	H0
ATOM 15858 HA3 GLY E 205	-5.621	0.259	46.450	1.00	80.43		H0
ANISOU15858 HA3 GLY E 205	9520	12880	8150	-1280	-2640	310	H0
TER 15859 GLY E 205							
HETATM15860 OAV H8U A 401	-54.502	-20.412	21.837	1.00	40.31		O0
ANISOU15860 OAV H8U A 401	4750	6380	4180	-930	460	-510	O0
HETATM15861 CAP H8U A 401	-53.352	-20.491	22.257	1.00	39.92		C0
ANISOU15861 CAP H8U A 401	4820	6150	4190	-890	480	-430	C0
HETATM15862 NAO H8U A 401	-53.035	-21.199	23.325	1.00	40.31		N0
ANISOU15862 NAO H8U A 401	4930	6110	4270	-970	540	-380	N0
HETATM15863 CAN H8U A 401	-51.744	-21.022	23.583	1.00	40.53		C0
ANISOU15863 CAN H8U A 401	5060	5980	4360	-880	530	-290	C0
HETATM15864 CBA H8U A 401	-51.031	-21.442	24.652	1.00	41.40		C0
ANISOU15864 CBA H8U A 401	5250	5980	4500	-890	570	-210	C0
HETATM15865 OBF H8U A 401	-51.746	-22.190	25.532	1.00	43.60		O0
ANISOU15865 OBF H8U A 401	5520	6290	4750	-1020	620	-210	O0
HETATM15866 CBE H8U A 401	-51.211	-22.645	26.712	1.00	44.84		C0
ANISOU15866 CBE H8U A 401	5750	6360	4920	-1040	660	-130	C0
HETATM15867 CBD H8U A 401	-50.105	-22.221	27.451	1.00	45.40		C0
ANISOU15867 CBD H8U A 401	5870	6360	5020	-930	640	-40	C0
HETATM15868 CBC H8U A 401	-49.138	-21.250	27.121	1.00	45.31		C0
ANISOU15868 CBC H8U A 401	5850	6320	5040	-790	580	-10	C0
HETATM15869 CBG H8U A 401	-47.863	-21.493	27.947	1.00	45.75		C0
ANISOU15869 CBG H8U A 401	5990	6270	5120	-740	580	90	C0
HETATM15870 CBH H8U A 401	-49.614	-19.818	27.437	1.00	45.28		C0
ANISOU15870 CBH H8U A 401	5750	6460	5000	-720	540	-50	C0
HETATM15871 OBB H8U A 401	-48.780	-21.412	25.730	1.00	43.09		O0
ANISOU15871 OBB H8U A 401	5600	5970	4800	-760	570	-50	O0
HETATM15872 CAZ H8U A 401	-49.700	-21.095	24.763	1.00	41.79		C0
ANISOU15872 CAZ H8U A 401	5370	5910	4600	-780	550	-140	C0
HETATM15873 CAY H8U A 401	-49.147	-20.317	23.750	1.00	40.61		C0
ANISOU15873 CAY H8U A 401	5220	5740	4470	-670	510	-150	C0
HETATM15874 CAX H8U A 401	-49.928	-19.895	22.680	1.00	40.13		C0
ANISOU15874 CAX H8U A 401	5100	5780	4370	-660	480	-230	C0
HETATM15875 CAM H8U A 401	-51.217	-20.243	22.597	1.00	39.98		C0

ANISOU15875	CAM H8U A 401	5000	5890	4300	-760	490	-300	C0
HETATM15876	CAH H8U A 401	-52.221	-19.929	21.639	1.00	39.33		C0
ANISOU15876	CAH H8U A 401	4820	5960	4160	-760	450	-380	C0
HETATM15877	CAI H8U A 401	-52.401	-18.416	21.481	1.00	38.29		C0
ANISOU15877	CAI H8U A 401	4620	5930	4000	-590	400	-380	C0
HETATM15878	CAG H8U A 401	-52.016	-20.502	20.168	1.00	39.47		C0
ANISOU15878	CAG H8U A 401	4890	5940	4170	-790	450	-430	C0
HETATM15879	CBI H8U A 401	-52.382	-21.994	20.077	1.00	40.32		C0
ANISOU15879	CBI H8U A 401	5030	6000	4280	-980	510	-480	C0
HETATM15880	CBJ H8U A 401	-50.584	-20.342	19.638	1.00	38.72		C0
ANISOU15880	CBJ H8U A 401	4910	5670	4140	-690	450	-370	C0
HETATM15881	CAC H8U A 401	-53.088	-19.642	19.436	1.00	39.44		C0
ANISOU15881	CAC H8U A 401	4750	6140	4090	-720	390	-490	C0
HETATM15882	CAB H8U A 401	-53.174	-19.585	17.869	1.00	39.29		C0
ANISOU15882	CAB H8U A 401	4730	6180	4020	-700	350	-550	C0
HETATM15883	CAA H8U A 401	-53.483	-18.107	17.543	1.00	38.89		C0
ANISOU15883	CAA H8U A 401	4610	6240	3920	-510	280	-530	C0
HETATM15884	CAR H8U A 401	-54.486	-17.575	18.426	1.00	39.49		C0
ANISOU15884	CAR H8U A 401	4570	6470	3960	-480	270	-540	C0
HETATM15885	OAU H8U A 401	-55.559	-17.099	18.051	1.00	40.63		O0
ANISOU15885	OAU H8U A 401	4590	6820	4030	-430	220	-600	O0
HETATM15886	NAS H8U A 401	-54.194	-17.601	19.739	1.00	38.88		N0
ANISOU15886	NAS H8U A 401	4510	6320	3940	-510	310	-500	N0
HETATM15887	CAT H8U A 401	-55.128	-17.102	20.780	1.00	39.72		C0
ANISOU15887	CAT H8U A 401	4510	6570	4020	-490	310	-520	C0
HETATM15888	CAD H8U A 401	-52.886	-18.220	20.003	1.00	38.23		C0
ANISOU15888	CAD H8U A 401	4580	6010	3940	-560	350	-440	C0
HETATM15889	CAE H8U A 401	-51.902	-17.339	19.203	1.00	37.20		C0
ANISOU15889	CAE H8U A 401	4520	5780	3830	-410	330	-390	C0
HETATM15890	NAF H8U A 401	-52.231	-17.362	17.760	1.00	37.72		N0
ANISOU15890	NAF H8U A 401	4570	5920	3840	-390	290	-440	N0
HETATM15891	CAJ H8U A 401	-52.431	-16.057	17.105	1.00	37.68		C0
ANISOU15891	CAJ H8U A 401	4550	5990	3780	-220	240	-430	C0
HETATM15892	CAK H8U A 401	-53.385	-16.333	15.936	1.00	38.82		C0
ANISOU15892	CAK H8U A 401	4610	6310	3830	-240	200	-500	C0
HETATM15893	CAL H8U A 401	-53.663	-17.834	16.026	1.00	39.03		C0
ANISOU15893	CAL H8U A 401	4620	6340	3870	-450	230	-570	C0
HETATM15894	CAQ H8U A 401	-55.046	-18.184	15.456	1.00	40.21		C0
ANISOU15894	CAQ H8U A 401	4630	6740	3910	-520	190	-670	C0
HETATM15895	OAW H8U A 401	-52.653	-18.510	15.296	1.00	38.47		O0
ANISOU15895	OAW H8U A 401	4670	6110	3830	-500	270	-560	O0
HETATM15896	HAO H8U A 401	-53.688	-21.648	23.932	1.00	41.17		H0
ANISOU15896	HAO H8U A 401	5010	6270	4360	-1070	570	-400	H0
HETATM15897	HBE H8U A 401	-51.795	-23.429	27.194	1.00	45.78		H0
ANISOU15897	HBE H8U A 401	5890	6490	5020	-1160	710	-130	H0
HETATM15898	HBD H8U A 401	-49.940	-22.773	28.377	1.00	45.71		H0
ANISOU15898	HBD H8U A 401	5960	6360	5050	-980	670	30	H0
HETATM15899	HBG H8U A 401	-47.252	-20.586	27.941	1.00	44.86		H0
ANISOU15899	HBG H8U A 401	5850	6180	5020	-650	540	100	H0
HETATM15900	HBH H8U A 401	-47.292	-22.308	27.500	1.00	45.74		H0
ANISOU15900	HBH H8U A 401	6060	6160	5160	-740	610	120	H0
HETATM15901	HBI H8U A 401	-48.115	-21.746	28.978	1.00	45.99		H0
ANISOU15901	HBI H8U A 401	6020	6330	5120	-780	610	130	H0
HETATM15902	HBJ H8U A 401	-50.657	-19.707	27.142	1.00	45.57		H0

ANISOU15902	HBJ H8U A 401	5710	6600	5000	-760	540	-120	H0
HETATM15903	HBK H8U A 401	-49.004	-19.102	26.886	1.00	44.50		H0
ANISOU15903	HBK H8U A 401	5650	6330	4920	-630	510	-50	H0
HETATM15904	HBL H8U A 401	-49.519	-19.628	28.506	1.00	45.20		H0
ANISOU15904	HBL H8U A 401	5730	6470	4970	-720	540	-20	H0
HETATM15905	HAY H8U A 401	-48.113	-20.029	23.802	1.00	39.91		H0
ANISOU15905	HAY H8U A 401	5180	5570	4420	-600	500	-100	H0
HETATM15906	HAX H8U A 401	-49.476	-19.282	21.910	1.00	39.56		H0
ANISOU15906	HAX H8U A 401	5030	5690	4310	-580	450	-230	H0
HETATM15907	HAJ H8U A 401	-53.189	-18.008	22.021	1.00	38.68		H0
ANISOU15907	HAJ H8U A 401	4590	6090	4010	-580	390	-400	H0
HETATM15908	HAI H8U A 401	-51.526	-17.832	21.494	1.00	37.54		H0
ANISOU15908	HAI H8U A 401	4590	5740	3940	-500	390	-330	H0
HETATM15909	HBM H8U A 401	-51.968	-22.403	19.158	1.00	40.44		H0
ANISOU15909	HBM H8U A 401	5110	5950	4310	-990	520	-500	H0
HETATM15910	HBN H8U A 401	-53.464	-22.128	20.065	1.00	41.23		H0
ANISOU15910	HBN H8U A 401	5060	6270	4340	-1060	510	-550	H0
HETATM15911	HBO H8U A 401	-51.955	-22.530	20.926	1.00	40.27		H0
ANISOU15911	HBO H8U A 401	5090	5890	4320	-1020	560	-420	H0
HETATM15912	HBQ H8U A 401	-50.565	-20.440	18.556	1.00	38.87		H0
ANISOU15912	HBQ H8U A 401	4940	5700	4140	-690	440	-410	H0
HETATM15913	HBR H8U A 401	-49.962	-21.127	20.068	1.00	38.61		H0
ANISOU15913	HBR H8U A 401	4970	5530	4170	-750	500	-330	H0
HETATM15914	HBP H8U A 401	-50.169	-19.384	19.919	1.00	38.00		H0
ANISOU15914	HBP H8U A 401	4810	5570	4060	-580	430	-320	H0
HETATM15915	HAD H8U A 401	-54.065	-19.993	19.743	1.00	40.22		H0
ANISOU15915	HAD H8U A 401	4770	6370	4150	-820	400	-550	H0
HETATM15916	HAB H8U A 401	-52.243	-19.904	17.409	1.00	38.89		H0
ANISOU15916	HAB H8U A 401	4780	5980	4010	-690	370	-520	H0
HETATM15917	HAC H8U A 401	-53.991	-20.217	17.522	1.00	40.35		H0
ANISOU15917	HAC H8U A 401	4810	6420	4110	-810	350	-620	H0
HETATM15918	HAU H8U A 401	-56.031	-16.687	20.337	1.00	40.41		H0
ANISOU15918	HAU H8U A 401	4490	6820	4040	-440	270	-570	H0
HETATM15919	HAV H8U A 401	-54.652	-16.322	21.374	1.00	38.95		H0
ANISOU15919	HAV H8U A 401	4450	6400	3950	-400	310	-470	H0
HETATM15920	HAT H8U A 401	-55.422	-17.913	21.446	1.00	39.96		H0
ANISOU15920	HAT H8U A 401	4520	6610	4050	-630	350	-540	H0
HETATM15921	HAF H8U A 401	-51.975	-16.317	19.576	1.00	37.01		H0
ANISOU15921	HAF H8U A 401	4480	5790	3790	-300	310	-370	H0
HETATM15922	HAE H8U A 401	-50.880	-17.673	19.322	1.00	36.63		H0
ANISOU15922	HAE H8U A 401	4540	5560	3810	-420	350	-350	H0
HETATM15923	HAL H8U A 401	-52.879	-15.338	17.780	1.00	37.80		H0
ANISOU15923	HAL H8U A 401	4510	6070	3780	-150	230	-420	H0
HETATM15924	HAK H8U A 401	-51.480	-15.673	16.732	1.00	37.07		H0
ANISOU15924	HAK H8U A 401	4560	5790	3730	-160	250	-380	H0
HETATM15925	HAN H8U A 401	-54.299	-15.752	16.060	1.00	39.41		H0
ANISOU15925	HAN H8U A 401	4580	6540	3850	-170	160	-520	H0
HETATM15926	HAM H8U A 401	-52.905	-16.087	14.987	1.00	38.66		H0
ANISOU15926	HAM H8U A 401	4650	6250	3790	-180	180	-480	H0
HETATM15927	HAQ H8U A 401	-54.927	-18.617	14.463	1.00	40.70		H0
ANISOU15927	HAQ H8U A 401	4720	6800	3940	-560	190	-700	H0
HETATM15928	HAR H8U A 401	-55.669	-17.292	15.384	1.00	40.72		H0
ANISOU15928	HAR H8U A 401	4610	6940	3920	-400	150	-660	H0
HETATM15929	HAS H8U A 401	-55.532	-18.905	16.102	1.00	40.76		H0

ANISOU15929 HAS H8U A 401	4650	6840	3990	-660	230	-710	H0
HETATM15930 HBS H8U A 401	-51.480	-17.823	17.288	1.00	37.39		H0
ANISOU15930 HBS H8U A 401	4610	5770	3830	-420	310	-430	H0
HETATM15931 C1 NAG A 402	-24.551	-29.521	-12.435	1.00	57.38		C0
ANISOU15931 C1 NAG A 402	9240	6390	6170	-140	3080	-1920	C0
HETATM15932 C2 NAG A 402	-25.385	-30.545	-13.190	1.00	58.47		C0
ANISOU15932 C2 NAG A 402	9540	6460	6220	-240	3120	-2070	C0
HETATM15933 C3 NAG A 402	-24.469	-31.603	-13.765	1.00	60.51		C0
ANISOU15933 C3 NAG A 402	9860	6600	6530	-170	3330	-2200	C0
HETATM15934 C4 NAG A 402	-23.418	-30.958	-14.649	1.00	61.30		C0
ANISOU15934 C4 NAG A 402	9920	6810	6560	-150	3440	-2220	C0
HETATM15935 C5 NAG A 402	-22.756	-29.764	-13.978	1.00	60.35		C0
ANISOU15935 C5 NAG A 402	9630	6800	6500	-80	3370	-2060	C0
HETATM15936 C6 NAG A 402	-21.986	-28.986	-15.039	1.00	61.55		C0
ANISOU15936 C6 NAG A 402	9770	7080	6530	-110	3470	-2080	C0
HETATM15937 C7 NAG A 402	-27.626	-31.348	-12.635	1.00	57.44		C0
ANISOU15937 C7 NAG A 402	9520	6260	6040	-410	2950	-2120	C0
HETATM15938 C8 NAG A 402	-28.510	-32.032	-11.625	1.00	56.65		C0
ANISOU15938 C8 NAG A 402	9440	6060	6030	-440	2870	-2110	C0
HETATM15939 N2 NAG A 402	-26.342	-31.182	-12.309	1.00	57.76		N0
ANISOU15939 N2 NAG A 402	9480	6270	6200	-260	3030	-2060	N0
HETATM15940 O3 NAG A 402	-25.234	-32.503	-14.532	1.00	62.13		O0
ANISOU15940 O3 NAG A 402	10230	6740	6630	-290	3370	-2360	O0
HETATM15941 O4 NAG A 402	-22.406	-31.896	-14.936	1.00	62.99		O0
ANISOU15941 O4 NAG A 402	10150	6920	6860	-40	3620	-2320	O0
HETATM15942 O5 NAG A 402	-23.695	-28.899	-13.368	1.00	58.33		O0
ANISOU15942 O5 NAG A 402	9340	6610	6210	-140	3180	-1940	O0
HETATM15943 O6 NAG A 402	-21.355	-27.896	-14.419	1.00	61.20		O0
ANISOU15943 O6 NAG A 402	9580	7130	6550	-70	3420	-1950	O0
HETATM15944 O7 NAG A 402	-28.094	-30.970	-13.705	1.00	57.39		O0
ANISOU15944 O7 NAG A 402	9570	6390	5850	-520	2930	-2190	O0
HETATM15945 H1 NAG A 402	-23.938	-30.056	-11.709	1.00	57.52		H0
ANISOU15945 H1 NAG A 402	9200	6310	6340	-20	3130	-1900	H0
HETATM15946 H2 NAG A 402	-25.911	-30.019	-13.985	1.00	58.56		H0
ANISOU15946 H2 NAG A 402	9600	6580	6070	-340	3080	-2100	H0
HETATM15947 H3 NAG A 402	-24.001	-32.138	-12.939	1.00	60.56		H0
ANISOU15947 H3 NAG A 402	9820	6490	6690	-50	3360	-2170	H0
HETATM15948 H4 NAG A 402	-23.899	-30.652	-15.578	1.00	61.68		H0
ANISOU15948 H4 NAG A 402	10040	6950	6440	-260	3430	-2270	H0
HETATM15949 H5 NAG A 402	-22.044	-30.137	-13.242	1.00	60.41		H0
ANISOU15949 H5 NAG A 402	9550	6740	6660	50	3410	-2020	H0
HETATM15950 H61 NAG A 402	-22.670	-28.657	-15.822	1.00	61.59		H0
ANISOU15950 H61 NAG A 402	9860	7160	6380	-230	3430	-2110	H0
HETATM15951 H62 NAG A 402	-21.233	-29.627	-15.496	1.00	63.01		H0
ANISOU15951 H62 NAG A 402	9970	7230	6750	-60	3620	-2170	H0
HETATM15952 H81 NAG A 402	-27.902	-32.550	-10.884	1.00	56.79		H0
ANISOU15952 H81 NAG A 402	9440	5940	6200	-330	2930	-2070	H0
HETATM15953 H82 NAG A 402	-29.148	-32.754	-12.135	1.00	57.83		H0
ANISOU15953 H82 NAG A 402	9700	6170	6100	-550	2900	-2230	H0
HETATM15954 H83 NAG A 402	-29.133	-31.296	-11.119	1.00	55.40		H0
ANISOU15954 H83 NAG A 402	9210	5990	5840	-470	2730	-2010	H0
HETATM15955 HN2 NAG A 402	-26.005	-31.512	-11.416	1.00	57.34		H0
ANISOU15955 HN2 NAG A 402	9370	6120	6290	-170	3040	-2000	H0
HETATM15956 OAV H8U B 401	-59.852	13.253	25.544	1.00	45.60		O0

ANISOU15956 OAV H8U B 401	6830	5550	4950	1450	80	60	O0
HETATM15957 CAP H8U B 401	-59.457	12.184	26.000	1.00	44.22		C0
ANISOU15957 CAP H8U B 401	6500	5480	4820	1280	80	10	C0
HETATM15958 NAO H8U B 401	-59.847	11.745	27.179	1.00	44.20		N0
ANISOU15958 NAO H8U B 401	6430	5540	4830	1310	130	-50	N0
HETATM15959 CAN H8U B 401	-59.250	10.594	27.427	1.00	43.89		C0
ANISOU15959 CAN H8U B 401	6250	5580	4840	1100	120	-80	C0
HETATM15960 CBA H8U B 401	-59.276	9.863	28.568	1.00	44.93		C0
ANISOU15960 CBA H8U B 401	6310	5780	4990	1050	160	-130	C0
HETATM15961 OBF H8U B 401	-60.078	10.382	29.552	1.00	48.01		O0
ANISOU15961 OBF H8U B 401	6770	6150	5320	1240	240	-160	O0
HETATM15962 CBE H8U B 401	-59.933	9.998	30.865	1.00	48.60		C0
ANISOU15962 CBE H8U B 401	6880	6220	5370	1200	290	-210	C0
HETATM15963 CBD H8U B 401	-59.075	9.094	31.492	1.00	48.06		C0
ANISOU15963 CBD H8U B 401	6780	6160	5330	1010	270	-250	C0
HETATM15964 CBC H8U B 401	-58.090	8.227	30.961	1.00	47.38		C0
ANISOU15964 CBC H8U B 401	6600	6100	5300	790	200	-250	C0
HETATM15965 CBG H8U B 401	-58.033	6.967	31.862	1.00	46.58		C0
ANISOU15965 CBG H8U B 401	6370	6110	5220	700	240	-270	C0
HETATM15966 CBH H8U B 401	-56.686	8.881	30.924	1.00	47.42		C0
ANISOU15966 CBH H8U B 401	6800	5930	5300	640	130	-270	C0
HETATM15967 OBB H8U B 401	-58.441	7.785	29.647	1.00	44.65		O0
ANISOU15967 OBB H8U B 401	6080	5870	5010	770	170	-190	O0
HETATM15968 CAZ H8U B 401	-58.538	8.698	28.639	1.00	43.87		C0
ANISOU15968 CAZ H8U B 401	6050	5710	4900	850	140	-150	C0
HETATM15969 CAY H8U B 401	-57.791	8.333	27.524	1.00	42.26		C0
ANISOU15969 CAY H8U B 401	5800	5520	4740	700	70	-120	C0
HETATM15970 CAX H8U B 401	-57.791	9.134	26.386	1.00	41.73		C0
ANISOU15970 CAX H8U B 401	5810	5400	4650	760	40	-70	C0
HETATM15971 CAM H8U B 401	-58.516	10.253	26.335	1.00	42.62		C0
ANISOU15971 CAM H8U B 401	6040	5430	4710	950	60	-40	C0
HETATM15972 CAH H8U B 401	-58.666	11.243	25.320	1.00	42.76		C0
ANISOU15972 CAH H8U B 401	6180	5370	4690	1060	30	20	C0
HETATM15973 CAI H8U B 401	-57.312	11.854	24.889	1.00	41.76		C0
ANISOU15973 CAI H8U B 401	6250	5050	4560	890	0	40	C0
HETATM15974 CAG H8U B 401	-59.375	10.785	23.973	1.00	42.36		C0
ANISOU15974 CAG H8U B 401	5950	5500	4650	1120	-10	80	C0
HETATM15975 CBI H8U B 401	-60.902	10.721	24.128	1.00	43.90		C0
ANISOU15975 CBI H8U B 401	5980	5860	4830	1350	10	90	C0
HETATM15976 CBJ H8U B 401	-58.901	9.425	23.437	1.00	41.05		C0
ANISOU15976 CBJ H8U B 401	5590	5480	4540	930	-50	70	C0
HETATM15977 CAC H8U B 401	-59.006	11.999	23.096	1.00	42.84		C0
ANISOU15977 CAC H8U B 401	6240	5390	4650	1180	-30	150	C0
HETATM15978 CAB H8U B 401	-59.255	11.987	21.565	1.00	42.57		C0
ANISOU15978 CAB H8U B 401	6150	5440	4590	1230	-90	230	C0
HETATM15979 CAA H8U B 401	-58.060	12.747	20.960	1.00	42.44		C0
ANISOU15979 CAA H8U B 401	6360	5220	4540	1110	-90	270	C0
HETATM15980 CAR H8U B 401	-57.722	13.906	21.727	1.00	43.30		C0
ANISOU15980 CAR H8U B 401	6740	5090	4630	1140	-50	270	C0
HETATM15981 OAU H8U B 401	-57.688	15.048	21.271	1.00	45.05		O0
ANISOU15981 OAU H8U B 401	7190	5130	4790	1230	-40	330	O0
HETATM15982 NAS H8U B 401	-57.395	13.692	23.012	1.00	42.97		N0
ANISOU15982 NAS H8U B 401	6700	5000	4620	1050	-20	180	N0
HETATM15983 CAT H8U B 401	-57.034	14.784	23.952	1.00	44.05		C0

ANISOU15983	CAT H8U B 401	7110	4890	4730	1060	10	150	C0
HETATM15984	CAD H8U B 401	-57.529	12.270	23.382	1.00	41.88		C0
ANISOU15984	CAD H8U B 401	6290	5080	4550	960	-30	130	C0
HETATM15985	CAE H8U B 401	-56.572	11.525	22.410	1.00	40.54		C0
ANISOU15985	CAE H8U B 401	6020	4970	4410	760	-60	160	C0
HETATM15986	NAF H8U B 401	-56.932	11.798	20.997	1.00	41.17		N0
ANISOU15986	NAF H8U B 401	6110	5090	4440	850	-90	240	N0
HETATM15987	CAJ H8U B 401	-55.894	12.413	20.144	1.00	41.04		C0
ANISOU15987	CAJ H8U B 401	6260	4940	4400	730	-90	300	C0
HETATM15988	CAK H8U B 401	-56.673	13.189	19.059	1.00	42.58		C0
ANISOU15988	CAK H8U B 401	6550	5120	4510	930	-110	390	C0
HETATM15989	CAL H8U B 401	-58.161	12.964	19.411	1.00	42.87		C0
ANISOU15989	CAL H8U B 401	6440	5310	4540	1160	-130	370	C0
HETATM15990	CAQ H8U B 401	-59.046	14.144	18.956	1.00	44.46		C0
ANISOU15990	CAQ H8U B 401	6800	5440	4650	1440	-140	440	C0
HETATM15991	OAW H8U B 401	-58.642	11.753	18.789	1.00	41.22		O0
ANISOU15991	OAW H8U B 401	5970	5350	4340	1140	-180	350	O0
HETATM15992	HAO H8U B 401	-60.398	12.262	27.834	1.00	45.56		H0
ANISOU15992	HAO H8U B 401	6680	5670	4960	1460	180	-60	H0
HETATM15993	HBE H8U B 401	-60.597	10.521	31.552	1.00	49.88		H0
ANISOU15993	HBE H8U B 401	7110	6360	5480	1370	360	-230	H0
HETATM15994	HBD H8U B 401	-59.211	9.034	32.573	1.00	48.48		H0
ANISOU15994	HBD H8U B 401	6880	6200	5330	1050	320	-290	H0
HETATM15995	HBG H8U B 401	-57.248	7.071	32.612	1.00	46.46		H0
ANISOU15995	HBG H8U B 401	6480	6000	5170	630	220	-310	H0
HETATM15996	HBH H8U B 401	-57.830	6.089	31.253	1.00	45.55		H0
ANISOU15996	HBH H8U B 401	6100	6060	5140	590	210	-250	H0
HETATM15997	HBI H8U B 401	-58.991	6.822	32.366	1.00	47.23		H0
ANISOU15997	HBI H8U B 401	6390	6270	5280	820	320	-270	H0
HETATM15998	HBJ H8U B 401	-56.779	9.911	30.584	1.00	48.29		H0
ANISOU15998	HBJ H8U B 401	7050	5920	5380	720	120	-260	H0
HETATM15999	HBK H8U B 401	-56.045	8.328	30.237	1.00	46.36		H0
ANISOU15999	HBK H8U B 401	6570	5830	5210	510	80	-240	H0
HETATM16000	HBL H8U B 401	-56.243	8.877	31.919	1.00	47.46		H0
ANISOU16000	HBL H8U B 401	6890	5870	5270	600	130	-310	H0
HETATM16001	HAY H8U B 401	-57.208	7.429	27.539	1.00	40.99		H0
ANISOU16001	HAY H8U B 401	5550	5410	4610	560	60	-130	H0
HETATM16002	HAX H8U B 401	-57.194	8.832	25.532	1.00	41.25		H0
ANISOU16002	HAX H8U B 401	5710	5350	4610	650	0	-40	H0
HETATM16003	HAJ H8U B 401	-57.083	12.762	25.341	1.00	42.76		H0
ANISOU16003	HAJ H8U B 401	6580	5010	4660	920	20	30	H0
HETATM16004	HAI H8U B 401	-56.502	11.210	24.807	1.00	40.71		H0
ANISOU16004	HAI H8U B 401	6050	4950	4470	710	-20	30	H0
HETATM16005	HBM H8U B 401	-61.306	10.130	23.313	1.00	43.61		H0
ANISOU16005	HBM H8U B 401	5780	5980	4810	1340	-40	110	H0
HETATM16006	HBN H8U B 401	-61.349	11.715	24.093	1.00	45.21		H0
ANISOU16006	HBN H8U B 401	6280	5950	4950	1530	20	120	H0
HETATM16007	HBO H8U B 401	-61.156	10.236	25.071	1.00	43.47		H0
ANISOU16007	HBO H8U B 401	5850	5870	4800	1340	60	40	H0
HETATM16008	HBQ H8U B 401	-59.160	9.312	22.389	1.00	41.16		H0
ANISOU16008	HBQ H8U B 401	5540	5570	4530	950	-90	110	H0
HETATM16009	HBR H8U B 401	-59.396	8.637	24.003	1.00	40.54		H0
ANISOU16009	HBR H8U B 401	5370	5530	4500	920	-30	30	H0
HETATM16010	HBP H8U B 401	-57.831	9.314	23.559	1.00	40.15		H0

ANISOU16010	HBP H8U B 401	5540	5270	4440	770	-50	50	H0
HETATM16011	HAD H8U B 401	-59.577	12.850	23.446	1.00	44.14		H0
ANISOU16011	HAD H8U B 401	6520	5480	4770	1360	-10	160	H0
HETATM16012	HAB H8U B 401	-59.314	10.977	21.175	1.00	41.68		H0
ANISOU16012	HAB H8U B 401	5850	5490	4500	1140	-120	210	H0
HETATM16013	HAC H8U B 401	-60.180	12.520	21.342	1.00	43.98		H0
ANISOU16013	HAC H8U B 401	6330	5650	4720	1440	-90	260	H0
HETATM16014	HAU H8U B 401	-56.975	15.742	23.439	1.00	45.40		H0
ANISOU16014	HAU H8U B 401	7480	4910	4860	1120	10	200	H0
HETATM16015	HAV H8U B 401	-56.067	14.587	24.412	1.00	43.37		H0
ANISOU16015	HAV H8U B 401	7060	4740	4680	860	0	110	H0
HETATM16016	HAT H8U B 401	-57.784	14.869	24.739	1.00	44.57		H0
ANISOU16016	HAT H8U B 401	7180	4980	4780	1210	40	110	H0
HETATM16017	HAF H8U B 401	-55.559	11.883	22.590	1.00	40.48		H0
ANISOU16017	HAF H8U B 401	6140	4830	4410	620	-60	150	H0
HETATM16018	HAE H8U B 401	-56.590	10.458	22.580	1.00	39.40		H0
ANISOU16018	HAE H8U B 401	5700	4960	4310	680	-70	120	H0
HETATM16019	HAL H8U B 401	-55.259	13.084	20.704	1.00	41.62		H0
ANISOU16019	HAL H8U B 401	6490	4840	4480	660	-70	290	H0
HETATM16020	HAK H8U B 401	-55.287	11.634	19.681	1.00	40.16		H0
ANISOU16020	HAK H8U B 401	6040	4910	4310	590	-100	300	H0
HETATM16021	HAN H8U B 401	-56.411	14.246	19.096	1.00	43.73		H0
ANISOU16021	HAN H8U B 401	6920	5080	4620	960	-90	430	H0
HETATM16022	HAM H8U B 401	-56.452	12.781	18.072	1.00	42.29		H0
ANISOU16022	HAM H8U B 401	6450	5160	4450	890	-130	430	H0
HETATM16023	HAQ H8U B 401	-59.591	13.859	18.056	1.00	44.97		H0
ANISOU16023	HAQ H8U B 401	6760	5650	4680	1520	-190	480	H0
HETATM16024	HAR H8U B 401	-58.435	15.019	18.739	1.00	45.44		H0
ANISOU16024	HAR H8U B 401	7150	5370	4740	1410	-120	490	H0
HETATM16025	HAS H8U B 401	-59.756	14.388	19.738	1.00	45.24		H0
ANISOU16025	HAS H8U B 401	6890	5550	4760	1580	-120	410	H0
HETATM16026	HBS H8U B 401	-57.198	10.932	20.574	1.00	40.30		H0
ANISOU16026	HBS H8U B 401	5830	5140	4350	830	-120	230	H0
HETATM16027	C1 NAG B 402	-65.066	-17.964	-6.786	1.00	90.94		C0
ANISOU16027	C1 NAG B 402	13760	13320	7480	-1910	-3370	-2760	C0
HETATM16028	C2 NAG B 402	-66.323	-17.224	-7.236	1.00	93.88		C0
ANISOU16028	C2 NAG B 402	13840	14030	7800	-1950	-3680	-2740	C0
HETATM16029	C3 NAG B 402	-67.306	-18.204	-7.872	1.00	98.35		C0
ANISOU16029	C3 NAG B 402	14480	14640	8240	-2260	-3990	-2970	C0
HETATM16030	C4 NAG B 402	-66.620	-18.999	-8.980	1.00	100.17		C0
ANISOU16030	C4 NAG B 402	15220	14680	8160	-2230	-4000	-3140	C0
HETATM16031	C5 NAG B 402	-65.305	-19.614	-8.494	1.00	97.95		C0
ANISOU16031	C5 NAG B 402	15230	14050	7930	-2130	-3660	-3140	C0
HETATM16032	C6 NAG B 402	-64.542	-20.252	-9.654	1.00	100.01		C0
ANISOU16032	C6 NAG B 402	16010	14130	7860	-2030	-3630	-3290	C0
HETATM16033	C7 NAG B 402	-67.353	-15.247	-6.167	1.00	92.83		C0
ANISOU16033	C7 NAG B 402	12990	14310	7980	-1790	-3710	-2430	C0
HETATM16034	C8 NAG B 402	-67.912	-14.649	-4.907	1.00	90.87		C0
ANISOU16034	C8 NAG B 402	12310	14170	8040	-1810	-3650	-2280	C0
HETATM16035	N2 NAG B 402	-66.902	-16.511	-6.100	1.00	92.72		N0
ANISOU16035	N2 NAG B 402	13250	14030	7950	-1970	-3640	-2580	N0
HETATM16036	O3 NAG B 402	-68.409	-17.509	-8.408	1.00	100.97		O0
ANISOU16036	O3 NAG B 402	14550	15320	8500	-2270	-4290	-2950	O0
HETATM16037	O4 NAG B 402	-67.483	-20.023	-9.416	1.00	104.02		O0

ANISOU16037	O4	NAG	B	402	15810	15160	8550	-2560	-4270	-3370	O0
HETATM16038	O5	NAG	B	402	-64.479	-18.641	-7.876	1.00	93.53		O0
ANISOU16038	O5	NAG	B	402	14530	13500	7510	-1860	-3380	-2910	O0
HETATM16039	O6	NAG	B	402	-63.372	-20.873	-9.164	1.00	98.20		O0
ANISOU16039	O6	NAG	B	402	16020	13600	7690	-1940	-3320	-3290	O0
HETATM16040	O7	NAG	B	402	-67.340	-14.564	-7.195	1.00	94.65		O0
ANISOU16040	O7	NAG	B	402	13310	14680	7970	-1590	-3820	-2390	O0
HETATM16041	H1	NAG	B	402	-65.353	-18.698	-6.032	1.00	91.28		H0
ANISOU16041	H1	NAG	B	402	13740	13250	7700	-2130	-3360	-2820	H0
HETATM16042	H2	NAG	B	402	-66.035	-16.510	-8.007	1.00	93.99		H0
ANISOU16042	H2	NAG	B	402	13940	14140	7630	-1720	-3690	-2680	H0
HETATM16043	H3	NAG	B	402	-67.651	-18.892	-7.100	1.00	98.41		H0
ANISOU16043	H3	NAG	B	402	14390	14560	8440	-2510	-3980	-3020	H0
HETATM16044	H4	NAG	B	402	-66.411	-18.322	-9.809	1.00	100.65		H0
ANISOU16044	H4	NAG	B	402	15370	14860	8010	-2010	-4040	-3090	H0
HETATM16045	H5	NAG	B	402	-65.539	-20.392	-7.768	1.00	98.01		H0
ANISOU16045	H5	NAG	B	402	15200	13920	8110	-2360	-3640	-3210	H0
HETATM16046	H61	NAG	B	402	-64.297	-19.488	-10.392	1.00	100.06		H0
ANISOU16046	H61	NAG	B	402	16060	14280	7690	-1800	-3640	-3220	H0
HETATM16047	H62	NAG	B	402	-65.168	-20.999	-10.141	1.00	103.04		H0
ANISOU16047	H62	NAG	B	402	16520	14500	8130	-2250	-3850	-3470	H0
HETATM16048	H81	NAG	B	402	-67.845	-15.362	-4.086	1.00	90.09		H0
ANISOU16048	H81	NAG	B	402	12190	13930	8110	-1990	-3550	-2320	H0
HETATM16049	H82	NAG	B	402	-68.956	-14.376	-5.066	1.00	92.75		H0
ANISOU16049	H82	NAG	B	402	12310	14650	8280	-1880	-3870	-2290	H0
HETATM16050	H83	NAG	B	402	-67.340	-13.760	-4.642	1.00	88.57		H0
ANISOU16050	H83	NAG	B	402	11990	13870	7790	-1580	-3490	-2130	H0
HETATM16051	HN2	NAG	B	402	-66.943	-17.007	-5.221	1.00	91.76		H0
ANISOU16051	HN2	NAG	B	402	13040	13800	8030	-2120	-3550	-2590	H0
HETATM16052	OAV	H8U	C	401	-29.998	29.865	22.996	1.00	57.93		O0
ANISOU16052	OAV	H8U	C	401	7710	7200	7100	-2320	1040	170	O0
HETATM16053	CAP	H8U	C	401	-30.795	29.167	23.617	1.00	57.04		C0
ANISOU16053	CAP	H8U	C	401	7560	7050	7060	-2090	1020	110	C0
HETATM16054	NAO	H8U	C	401	-31.178	29.458	24.847	1.00	57.43		N0
ANISOU16054	NAO	H8U	C	401	7680	6930	7210	-2000	1000	30	N0
HETATM16055	CAN	H8U	C	401	-31.972	28.491	25.275	1.00	56.66		C0
ANISOU16055	CAN	H8U	C	401	7500	6860	7160	-1770	990	-30	C0
HETATM16056	CBA	H8U	C	401	-32.471	28.328	26.516	1.00	57.48		C0
ANISOU16056	CBA	H8U	C	401	7620	6880	7340	-1640	970	-130	C0
HETATM16057	OBF	H8U	C	401	-32.149	29.343	27.369	1.00	60.10		O0
ANISOU16057	OBF	H8U	C	401	8080	7050	7710	-1750	970	-170	O0
HETATM16058	CBE	H8U	C	401	-32.179	29.162	28.724	1.00	60.17		C0
ANISOU16058	CBE	H8U	C	401	8070	7030	7760	-1680	970	-300	C0
HETATM16059	CBD	H8U	C	401	-32.585	28.096	29.525	1.00	59.21		C0
ANISOU16059	CBD	H8U	C	401	7840	7000	7660	-1510	960	-390	C0
HETATM16060	CBC	H8U	C	401	-33.114	26.848	29.192	1.00	58.29		C0
ANISOU16060	CBC	H8U	C	401	7600	7020	7530	-1350	950	-380	C0
HETATM16061	CBG	H8U	C	401	-34.095	26.470	30.315	1.00	57.45		C0
ANISOU16061	CBG	H8U	C	401	7510	6830	7480	-1180	940	-450	C0
HETATM16062	CBH	H8U	C	401	-32.006	25.787	29.130	1.00	57.39		C0
ANISOU16062	CBH	H8U	C	401	7300	7160	7340	-1410	950	-450	C0
HETATM16063	OBB	H8U	C	401	-33.862	26.865	27.952	1.00	57.59		O0
ANISOU16063	OBB	H8U	C	401	7540	6900	7440	-1290	950	-260	O0
HETATM16064	CAZ	H8U	C	401	-33.238	27.218	26.793	1.00	55.93		C0

ANISOU16064 CAZ H8U C 401	7330	6750	7170	-1430	960	-170	C0
HETATM16065 CAY H8U C 401	-33.457	26.301	25.771	1.00	54.44		C0
ANISOU16065 CAY H8U C 401	7040	6710	6930	-1370	950	-120	C0
HETATM16066 CAX H8U C 401	-32.895	26.512	24.513	1.00	54.25		C0
ANISOU16066 CAX H8U C 401	7000	6780	6830	-1500	970	-30	C0
HETATM16067 CAM H8U C 401	-32.162	27.602	24.269	1.00	54.87		C0
ANISOU16067 CAM H8U C 401	7170	6800	6880	-1700	990	20	C0
HETATM16068 CAH H8U C 401	-31.473	28.044	23.113	1.00	55.16		C0
ANISOU16068 CAH H8U C 401	7210	6930	6820	-1890	1010	110	C0
HETATM16069 CAI H8U C 401	-30.467	26.995	22.620	1.00	54.43		C0
ANISOU16069 CAI H8U C 401	6900	7150	6630	-1940	1040	40	C0
HETATM16070 CAG H8U C 401	-32.371	28.430	21.851	1.00	54.91		C0
ANISOU16070 CAG H8U C 401	7290	6800	6780	-1860	990	280	C0
HETATM16071 CBI H8U C 401	-32.983	29.833	21.957	1.00	56.50		C0
ANISOU16071 CBI H8U C 401	7730	6690	7050	-1890	950	380	C0
HETATM16072 CBJ H8U C 401	-33.537	27.468	21.602	1.00	53.17		C0
ANISOU16072 CBJ H8U C 401	7010	6600	6590	-1610	960	290	C0
HETATM16073 CAC H8U C 401	-31.254	28.447	20.766	1.00	56.08		C0
ANISOU16073 CAC H8U C 401	7360	7160	6790	-2080	1030	320	C0
HETATM16074 CAB H8U C 401	-31.599	28.504	19.244	1.00	56.51		C0
ANISOU16074 CAB H8U C 401	7450	7260	6760	-2120	1020	470	C0
HETATM16075 CAA H8U C 401	-30.632	27.528	18.554	1.00	56.37		C0
ANISOU16075 CAA H8U C 401	7220	7590	6610	-2190	1070	410	C0
HETATM16076 CAR H8U C 401	-29.305	27.666	19.065	1.00	57.26		C0
ANISOU16076 CAR H8U C 401	7230	7850	6680	-2370	1120	310	C0
HETATM16077 OAU H8U C 401	-28.333	27.922	18.356	1.00	59.25		O0
ANISOU16077 OAU H8U C 401	7430	8280	6810	-2580	1160	340	O0
HETATM16078 NAS H8U C 401	-29.152	27.486	20.391	1.00	56.38		N0
ANISOU16078 NAS H8U C 401	7090	7680	6650	-2290	1110	190	N0
HETATM16079 CAT H8U C 401	-27.850	27.616	21.088	1.00	57.24		C0
ANISOU16079 CAT H8U C 401	7090	7930	6720	-2460	1140	80	C0
HETATM16080 CAD H8U C 401	-30.437	27.190	21.052	1.00	55.11		C0
ANISOU16080 CAD H8U C 401	7000	7320	6620	-2040	1060	180	C0
HETATM16081 CAE H8U C 401	-30.955	25.916	20.304	1.00	53.53		C0
ANISOU16081 CAE H8U C 401	6680	7280	6380	-1870	1050	170	C0
HETATM16082 NAF H8U C 401	-31.138	26.190	18.857	1.00	54.55		N0
ANISOU16082 NAF H8U C 401	6850	7450	6420	-1950	1060	310	N0
HETATM16083 CAJ H8U C 401	-30.414	25.301	17.917	1.00	54.54		C0
ANISOU16083 CAJ H8U C 401	6680	7750	6290	-1990	1090	270	C0
HETATM16084 CAK H8U C 401	-30.148	26.151	16.666	1.00	56.31		C0
ANISOU16084 CAK H8U C 401	6980	8010	6400	-2200	1120	420	C0
HETATM16085 CAL H8U C 401	-30.736	27.521	17.004	1.00	57.29		C0
ANISOU16085 CAL H8U C 401	7340	7810	6610	-2270	1080	540	C0
HETATM16086 CAQ H8U C 401	-29.974	28.658	16.297	1.00	59.47		C0
ANISOU16086 CAQ H8U C 401	7720	8090	6780	-2560	1110	660	C0
HETATM16087 OAW H8U C 401	-32.115	27.551	16.603	1.00	57.12		O0
ANISOU16087 OAW H8U C 401	7440	7620	6650	-2090	1020	650	O0
HETATM16088 HAO H8U C 401	-30.800	30.190	25.412	1.00	58.40		H0
ANISOU16088 HAO H8U C 401	7890	6950	7340	-2110	1000	0	H0
HETATM16089 HBE H8U C 401	-31.807	30.017	29.288	1.00	61.32		H0
ANISOU16089 HBE H8U C 401	8320	7060	7920	-1790	970	-330	H0
HETATM16090 HBD H8U C 401	-32.473	28.276	30.595	1.00	59.25		H0
ANISOU16090 HBD H8U C 401	7870	6950	7690	-1520	960	-480	H0
HETATM16091 HBG H8U C 401	-33.545	26.089	31.178	1.00	57.07		H0

ANISOU16091	HBG H8U C 401	7400	6860	7420	-1210	940	-550	H0
HETATM16092	HBH H8U C 401	-34.783	25.705	29.961	1.00	56.37		H0
ANISOU16092	HBH H8U C 401	7320	6750	7350	-1060	930	-420	H0
HETATM16093	HBI H8U C 401	-34.667	27.350	30.616	1.00	58.13		H0
ANISOU16093	HBI H8U C 401	7720	6740	7620	-1160	950	-440	H0
HETATM16094	HBJ H8U C 401	-31.201	26.141	28.487	1.00	58.37		H0
ANISOU16094	HBJ H8U C 401	7410	7360	7410	-1550	970	-420	H0
HETATM16095	HBK H8U C 401	-32.413	24.859	28.728	1.00	56.44		H0
ANISOU16095	HBK H8U C 401	7110	7130	7210	-1290	940	-430	H0
HETATM16096	HBL H8U C 401	-31.609	25.608	30.129	1.00	57.29		H0
ANISOU16096	HBL H8U C 401	7260	7180	7330	-1420	940	-540	H0
HETATM16097	HAY H8U C 401	-34.057	25.420	25.950	1.00	53.04		H0
ANISOU16097	HAY H8U C 401	6800	6580	6770	-1220	940	-140	H0
HETATM16098	HAX H8U C 401	-33.073	25.783	23.730	1.00	53.72		H0
ANISOU16098	HAX H8U C 401	6850	6830	6720	-1440	970	0	H0
HETATM16099	HAJ H8U C 401	-29.476	27.177	22.879	1.00	55.17		H0
ANISOU16099	HAJ H8U C 401	6940	7350	6680	-2090	1060	-10	H0
HETATM16100	HAI H8U C 401	-30.762	25.973	22.695	1.00	53.10		H0
ANISOU16100	HAI H8U C 401	6630	7080	6460	-1790	1030	-10	H0
HETATM16101	HBM H8U C 401	-33.753	29.940	21.199	1.00	56.62		H0
ANISOU16101	HBM H8U C 401	7810	6640	7060	-1820	920	480	H0
HETATM16102	HBN H8U C 401	-32.228	30.605	21.804	1.00	57.95		H0
ANISOU16102	HBN H8U C 401	7990	6840	7190	-2090	970	410	H0
HETATM16103	HBO H8U C 401	-33.434	29.951	22.941	1.00	55.97		H0
ANISOU16103	HBO H8U C 401	7710	6490	7070	-1780	940	310	H0
HETATM16104	HBQ H8U C 401	-33.921	27.590	20.593	1.00	53.68		H0
ANISOU16104	HBQ H8U C 401	7120	6660	6620	-1620	950	400	H0
HETATM16105	HBR H8U C 401	-34.336	27.697	22.307	1.00	52.83		H0
ANISOU16105	HBR H8U C 401	7040	6390	6640	-1490	930	270	H0
HETATM16106	HBP H8U C 401	-33.234	26.442	21.748	1.00	52.13		H0
ANISOU16106	HBP H8U C 401	6730	6640	6430	-1560	970	200	H0
HETATM16107	HAD H8U C 401	-30.621	29.309	20.939	1.00	57.45		H0
ANISOU16107	HAD H8U C 401	7610	7270	6940	-2260	1040	340	H0
HETATM16108	HAB H8U C 401	-32.633	28.225	19.061	1.00	55.76		H0
ANISOU16108	HAB H8U C 401	7390	7080	6710	-1940	990	510	H0
HETATM16109	HAC H8U C 401	-31.425	29.513	18.870	1.00	58.19		H0
ANISOU16109	HAC H8U C 401	7800	7360	6940	-2280	1020	570	H0
HETATM16110	HAU H8U C 401	-27.043	27.809	20.383	1.00	58.50		H0
ANISOU16110	HAU H8U C 401	7190	8260	6780	-2640	1180	100	H0
HETATM16111	HAV H8U C 401	-27.615	26.699	21.628	1.00	56.08		H0
ANISOU16111	HAV H8U C 401	6800	7920	6590	-2340	1130	-40	H0
HETATM16112	HAT H8U C 401	-27.881	28.441	21.799	1.00	57.77		H0
ANISOU16112	HAT H8U C 401	7280	7820	6850	-2530	1120	80	H0
HETATM16113	HAF H8U C 401	-30.219	25.124	20.429	1.00	53.19		H0
ANISOU16113	HAF H8U C 401	6480	7440	6290	-1860	1070	70	H0
HETATM16114	HAE H8U C 401	-31.895	25.571	20.709	1.00	52.44		H0
ANISOU16114	HAE H8U C 401	6580	7030	6320	-1690	1020	170	H0
HETATM16115	HAL H8U C 401	-29.481	24.954	18.338	1.00	54.66		H0
ANISOU16115	HAL H8U C 401	6570	7920	6280	-2040	1120	160	H0
HETATM16116	HAK H8U C 401	-31.041	24.446	17.658	1.00	53.41		H0
ANISOU16116	HAK H8U C 401	6490	7650	6160	-1830	1070	260	H0
HETATM16117	HAN H8U C 401	-29.076	26.210	16.478	1.00	57.35		H0
ANISOU16117	HAN H8U C 401	7020	8320	6450	-2360	1170	380	H0
HETATM16118	HAM H8U C 401	-30.659	25.722	15.804	1.00	56.12		H0

ANISOU16118	HAM H8U C 401	6950	8040	6330	-2130	1110	470	H0
HETATM16119	HAQ H8U C 401	-30.555	28.993	15.437	1.00	60.17		H0
ANISOU16119	HAQ H8U C 401	7920	8110	6840	-2570	1080	790	H0
HETATM16120	HAR H8U C 401	-29.000	28.316	15.949	1.00	60.09		H0
ANISOU16120	HAR H8U C 401	7660	8420	6760	-2690	1160	600	H0
HETATM16121	HAS H8U C 401	-29.843	29.495	16.976	1.00	60.24		H0
ANISOU16121	HAS H8U C 401	7930	8020	6940	-2650	1100	660	H0
HETATM16122	HBS H8U C 401	-32.114	26.133	18.647	1.00	53.94		H0
ANISOU16122	HBS H8U C 401	6850	7260	6390	-1830	1020	370	H0
HETATM16123	C1 NAG C 402	-67.106	22.193	-1.982	1.00	85.02		C0
ANISOU16123	C1 NAG C 402	9550	13250	9500	1210	-1940	3150	C0
HETATM16124	C2 NAG C 402	-67.161	23.666	-2.384	1.00	88.03		C0
ANISOU16124	C2 NAG C 402	10080	13430	9930	1410	-2060	3330	C0
HETATM16125	C3 NAG C 402	-68.577	24.116	-2.740	1.00	91.02		C0
ANISOU16125	C3 NAG C 402	10300	13960	10330	1640	-2260	3430	C0
HETATM16126	C4 NAG C 402	-69.298	23.101	-3.623	1.00	91.63		C0
ANISOU16126	C4 NAG C 402	10210	14370	10240	1510	-2350	3460	C0
HETATM16127	C5 NAG C 402	-69.126	21.682	-3.082	1.00	89.20		C0
ANISOU16127	C5 NAG C 402	9770	14230	9890	1290	-2200	3260	C0
HETATM16128	C6 NAG C 402	-69.774	20.631	-3.981	1.00	89.92		C0
ANISOU16128	C6 NAG C 402	9730	14630	9810	1130	-2290	3280	C0
HETATM16129	C7 NAG C 402	-65.982	25.612	-1.449	1.00	89.39		C0
ANISOU16129	C7 NAG C 402	10580	13060	10320	1600	-1990	3380	C0
HETATM16130	C8 NAG C 402	-65.506	26.302	-0.199	1.00	88.89		C0
ANISOU16130	C8 NAG C 402	10590	12740	10440	1710	-1870	3280	C0
HETATM16131	N2 NAG C 402	-66.639	24.460	-1.282	1.00	87.94		N0
ANISOU16131	N2 NAG C 402	10160	13150	10100	1540	-1960	3270	N0
HETATM16132	O3 NAG C 402	-68.529	25.352	-3.419	1.00	93.75		O0
ANISOU16132	O3 NAG C 402	10830	14120	10670	1780	-2390	3630	O0
HETATM16133	O4 NAG C 402	-70.664	23.440	-3.663	1.00	93.90		O0
ANISOU16133	O4 NAG C 402	10290	14830	10560	1740	-2500	3510	O0
HETATM16134	O5 NAG C 402	-67.745	21.406	-2.964	1.00	86.30		O0
ANISOU16134	O5 NAG C 402	9600	13680	9500	1100	-2050	3200	O0
HETATM16135	O6 NAG C 402	-68.911	20.291	-5.045	1.00	89.68		O0
ANISOU16135	O6 NAG C 402	9890	14570	9610	910	-2290	3340	O0
HETATM16136	O7 NAG C 402	-65.760	26.120	-2.551	1.00	91.08		O0
ANISOU16136	O7 NAG C 402	10960	13220	10430	1550	-2090	3560	O0
HETATM16137	H1 NAG C 402	-67.638	22.080	-1.039	1.00	84.94		H0
ANISOU16137	H1 NAG C 402	9380	13280	9600	1320	-1900	3050	H0
HETATM16138	H2 NAG C 402	-66.521	23.800	-3.256	1.00	88.25		H0
ANISOU16138	H2 NAG C 402	10280	13400	9850	1280	-2090	3430	H0
HETATM16139	H3 NAG C 402	-69.143	24.231	-1.815	1.00	91.11		H0
ANISOU16139	H3 NAG C 402	10160	13990	10470	1800	-2230	3340	H0
HETATM16140	H4 NAG C 402	-68.879	23.163	-4.628	1.00	92.11		H0
ANISOU16140	H4 NAG C 402	10420	14410	10160	1390	-2400	3570	H0
HETATM16141	H5 NAG C 402	-69.614	21.632	-2.109	1.00	88.90		H0
ANISOU16141	H5 NAG C 402	9580	14220	9970	1400	-2160	3160	H0
HETATM16142	H61 NAG C 402	-70.715	21.008	-4.382	1.00	92.01		H0
ANISOU16142	H61 NAG C 402	9880	15020	10060	1270	-2440	3370	H0
HETATM16143	H62 NAG C 402	-69.996	19.743	-3.394	1.00	88.66		H0
ANISOU16143	H62 NAG C 402	9440	14590	9660	1040	-2220	3140	H0
HETATM16144	H81 NAG C 402	-65.741	25.704	0.681	1.00	87.44		H0
ANISOU16144	H81 NAG C 402	10250	12650	10330	1730	-1780	3130	H0
HETATM16145	H82 NAG C 402	-65.986	27.277	-0.116	1.00	90.76		H0

ANISOU16145	H82 NAG C 402	10870	12850	10760	1930	-1970	3360	H0
HETATM16146	H83 NAG C 402	-64.424	26.433	-0.246	1.00	87.78		H0
ANISOU16146	H83 NAG C 402	10630	12450	10280	1560	-1790	3290	H0
HETATM16147	HN2 NAG C 402	-66.783	24.105	-0.347	1.00	86.78		H0
ANISOU16147	HN2 NAG C 402	9900	13040	10040	1570	-1870	3130	H0
HETATM16148	OAV H8U D 401	-5.924	6.009	17.751	1.00	59.89		O0
ANISOU16148	OAV H8U D 401	6580	8710	7470	760	1740	-400	O0
HETATM16149	CAP H8U D 401	-6.703	6.606	18.500	1.00	58.84		C0
ANISOU16149	CAP H8U D 401	6480	8530	7350	600	1620	-390	C0
HETATM16150	NAO H8U D 401	-6.342	7.067	19.686	1.00	58.80		N0
ANISOU16150	NAO H8U D 401	6290	8680	7370	570	1510	-330	N0
HETATM16151	CAN H8U D 401	-7.404	7.614	20.271	1.00	58.40		C0
ANISOU16151	CAN H8U D 401	6340	8540	7310	410	1400	-340	C0
HETATM16152	CBA H8U D 401	-7.517	8.127	21.517	1.00	58.89		C0
ANISOU16152	CBA H8U D 401	6300	8690	7380	340	1280	-300	C0
HETATM16153	OBF H8U D 401	-6.360	8.118	22.233	1.00	61.27		O0
ANISOU16153	OBF H8U D 401	6360	9220	7690	430	1250	-250	O0
HETATM16154	CBE H8U D 401	-6.377	8.176	23.605	1.00	61.63		C0
ANISOU16154	CBE H8U D 401	6320	9370	7730	430	1130	-200	C0
HETATM16155	CBD H8U D 401	-7.405	8.312	24.538	1.00	60.80		C0
ANISOU16155	CBD H8U D 401	6320	9180	7600	360	1020	-190	C0
HETATM16156	CBC H8U D 401	-8.791	8.448	24.356	1.00	59.58		C0
ANISOU16156	CBC H8U D 401	6380	8820	7440	250	1000	-230	C0
HETATM16157	CBG H8U D 401	-9.383	9.242	25.534	1.00	58.43		C0
ANISOU16157	CBG H8U D 401	6210	8730	7260	120	880	-240	C0
HETATM16158	CBH H8U D 401	-9.479	7.068	24.337	1.00	59.61		C0
ANISOU16158	CBH H8U D 401	6570	8620	7450	400	1040	-170	C0
HETATM16159	OBB H8U D 401	-9.062	9.196	23.143	1.00	58.17		O0
ANISOU16159	OBB H8U D 401	6270	8560	7270	110	1070	-310	O0
HETATM16160	CAZ H8U D 401	-8.731	8.619	21.949	1.00	57.64		C0
ANISOU16160	CAZ H8U D 401	6270	8420	7210	190	1180	-320	C0
HETATM16161	CAY H8U D 401	-9.808	8.549	21.081	1.00	56.18		C0
ANISOU16161	CAY H8U D 401	6290	8040	7010	120	1220	-370	C0
HETATM16162	CAX H8U D 401	-9.644	7.994	19.821	1.00	55.88		C0
ANISOU16162	CAX H8U D 401	6350	7920	6960	180	1330	-400	C0
HETATM16163	CAM H8U D 401	-8.455	7.535	19.420	1.00	56.76		C0
ANISOU16163	CAM H8U D 401	6350	8130	7080	330	1430	-390	C0
HETATM16164	CAH H8U D 401	-8.044	6.920	18.211	1.00	56.98		C0
ANISOU16164	CAH H8U D 401	6450	8120	7090	440	1560	-430	C0
HETATM16165	CAI H8U D 401	-8.825	5.622	17.922	1.00	56.48		C0
ANISOU16165	CAI H8U D 401	6630	7810	7020	550	1590	-470	C0
HETATM16166	CAG H8U D 401	-8.187	7.825	16.903	1.00	56.21		C0
ANISOU16166	CAG H8U D 401	6390	8030	6930	280	1630	-490	C0
HETATM16167	CBI H8U D 401	-7.057	8.855	16.770	1.00	57.31		C0
ANISOU16167	CBI H8U D 401	6290	8400	7080	210	1670	-470	C0
HETATM16168	CBJ H8U D 401	-9.509	8.610	16.830	1.00	54.43		C0
ANISOU16168	CBJ H8U D 401	6300	7690	6690	80	1540	-520	C0
HETATM16169	CAC H8U D 401	-8.022	6.697	15.836	1.00	57.02		C0
ANISOU16169	CAC H8U D 401	6630	8040	7000	440	1760	-550	C0
HETATM16170	CAB H8U D 401	-8.320	6.968	14.339	1.00	56.63		C0
ANISOU16170	CAB H8U D 401	6710	7950	6860	370	1850	-630	C0
HETATM16171	CAA H8U D 401	-9.048	5.711	13.822	1.00	56.89		C0
ANISOU16171	CAA H8U D 401	7000	7760	6860	460	1880	-710	C0
HETATM16172	CAR H8U D 401	-8.465	4.502	14.317	1.00	58.38		C0

ANISOU16172	CAR H8U D 401	7180	7900	7100	690	1930	-700	C0
HETATM16173	OAU H8U D 401	-8.069	3.589	13.595	1.00	59.58		O0
ANISOU16173	OAU H8U D 401	7430	7980	7230	860	2050	-760	O0
HETATM16174	NAS H8U D 401	-8.408	4.372	15.659	1.00	58.15		N0
ANISOU16174	NAS H8U D 401	7060	7880	7160	730	1830	-610	N0
HETATM16175	CAT H8U D 401	-7.849	3.173	16.337	1.00	59.71		C0
ANISOU16175	CAT H8U D 401	7250	8020	7420	980	1860	-560	C0
HETATM16176	CAD H8U D 401	-8.929	5.563	16.347	1.00	56.57		C0
ANISOU16176	CAD H8U D 401	6770	7760	6970	520	1710	-560	C0
HETATM16177	CAE H8U D 401	-10.395	5.643	15.825	1.00	54.94		C0
ANISOU16177	CAE H8U D 401	6790	7370	6720	360	1650	-620	C0
HETATM16178	NAF H8U D 401	-10.418	5.818	14.349	1.00	55.37		N0
ANISOU16178	NAF H8U D 401	6930	7420	6680	320	1740	-700	N0
HETATM16179	CAJ H8U D 401	-11.183	4.811	13.584	1.00	55.97		C0
ANISOU16179	CAJ H8U D 401	7250	7300	6710	350	1770	-800	C0
HETATM16180	CAK H8U D 401	-10.504	4.750	12.196	1.00	57.12		C0
ANISOU16180	CAK H8U D 401	7430	7510	6760	410	1920	-880	C0
HETATM16181	CAL H8U D 401	-9.313	5.714	12.291	1.00	57.26		C0
ANISOU16181	CAL H8U D 401	7190	7780	6790	420	1970	-800	C0
HETATM16182	CAQ H8U D 401	-8.128	5.255	11.410	1.00	59.69		C0
ANISOU16182	CAQ H8U D 401	7450	8190	7040	600	2150	-840	C0
HETATM16183	OAW H8U D 401	-9.703	7.009	11.845	1.00	55.59		O0
ANISOU16183	OAW H8U D 401	6950	7650	6530	220	1940	-780	O0
HETATM16184	HAO H8U D 401	-5.447	6.937	20.111	1.00	60.34		H0
ANISOU16184	HAO H8U D 401	6320	9030	7580	670	1520	-280	H0
HETATM16185	HBE H8U D 401	-5.389	8.097	24.056	1.00	63.15		H0
ANISOU16185	HBE H8U D 401	6320	9760	7920	520	1120	-150	H0
HETATM16186	HBD H8U D 401	-7.062	8.318	25.572	1.00	61.45		H0
ANISOU16186	HBD H8U D 401	6280	9410	7660	400	940	-150	H0
HETATM16187	HBG H8U D 401	-10.443	9.008	25.634	1.00	57.47		H0
ANISOU16187	HBG H8U D 401	6240	8470	7130	100	860	-240	H0
HETATM16188	HBH H8U D 401	-9.268	10.309	25.343	1.00	58.17		H0
ANISOU16188	HBH H8U D 401	6120	8760	7230	-30	860	-300	H0
HETATM16189	HBI H8U D 401	-8.879	8.986	26.466	1.00	59.44		H0
ANISOU16189	HBI H8U D 401	6220	9000	7360	200	820	-190	H0
HETATM16190	HBJ H8U D 401	-8.823	6.343	23.855	1.00	60.76		H0
ANISOU16190	HBJ H8U D 401	6710	8760	7620	540	1110	-150	H0
HETATM16191	HBK H8U D 401	-10.416	7.134	23.786	1.00	58.48		H0
ANISOU16191	HBK H8U D 401	6590	8320	7310	310	1050	-220	H0
HETATM16192	HBL H8U D 401	-9.681	6.745	25.358	1.00	59.75		H0
ANISOU16192	HBL H8U D 401	6580	8670	7450	440	970	-110	H0
HETATM16193	HAY H8U D 401	-10.775	8.918	21.383	1.00	54.75		H0
ANISOU16193	HAY H8U D 401	6200	7780	6830	10	1150	-380	H0
HETATM16194	HAX H8U D 401	-10.505	7.949	19.165	1.00	55.15		H0
ANISOU16194	HAX H8U D 401	6420	7690	6850	120	1340	-440	H0
HETATM16195	HAJ H8U D 401	-8.285	4.760	18.122	1.00	57.83		H0
ANISOU16195	HAJ H8U D 401	6780	7970	7220	720	1640	-440	H0
HETATM16196	HAI H8U D 401	-9.835	5.556	18.203	1.00	55.42		H0
ANISOU16196	HAI H8U D 401	6620	7550	6890	460	1520	-470	H0
HETATM16197	HBM H8U D 401	-7.348	9.610	16.044	1.00	56.73		H0
ANISOU16197	HBM H8U D 401	6270	8320	6970	70	1690	-490	H0
HETATM16198	HBN H8U D 401	-6.139	8.373	16.432	1.00	58.77		H0
ANISOU16198	HBN H8U D 401	6390	8690	7260	340	1770	-460	H0
HETATM16199	HBO H8U D 401	-6.882	9.336	17.733	1.00	56.93		H0

ANISOU16199	HBO H8U D 401	6120	8440	7070	150	1580	-430	H0
HETATM16200	HBQ H8U D 401	-9.697	8.940	15.813	1.00	54.37		H0
ANISOU16200	HBQ H8U D 401	6370	7660	6630	10	1590	-550	H0
HETATM16201	HBR H8U D 401	-9.431	9.491	17.467	1.00	53.83		H0
ANISOU16201	HBR H8U D 401	6120	7700	6640	-30	1470	-490	H0
HETATM16202	HBP H8U D 401	-10.341	8.011	17.167	1.00	53.75		H0
ANISOU16202	HBP H8U D 401	6350	7470	6610	100	1490	-520	H0
HETATM16203	HAD H8U D 401	-6.999	6.350	15.860	1.00	58.51		H0
ANISOU16203	HAD H8U D 401	6690	8340	7200	590	1830	-530	H0
HETATM16204	HAB H8U D 401	-8.933	7.854	14.209	1.00	55.50		H0
ANISOU16204	HAB H8U D 401	6590	7800	6700	190	1790	-620	H0
HETATM16205	HAC H8U D 401	-7.382	7.095	13.800	1.00	58.02		H0
ANISOU16205	HAC H8U D 401	6770	8260	7010	420	1950	-620	H0
HETATM16206	HAU H8U D 401	-7.642	2.378	15.624	1.00	61.09		H0
ANISOU16206	HAU H8U D 401	7540	8100	7570	1110	1970	-620	H0
HETATM16207	HAV H8U D 401	-8.555	2.791	17.073	1.00	59.03		H0
ANISOU16207	HAV H8U D 401	7250	7810	7370	960	1780	-530	H0
HETATM16208	HAT H8U D 401	-6.917	3.424	16.845	1.00	60.40		H0
ANISOU16208	HAT H8U D 401	7130	8290	7530	1060	1870	-490	H0
HETATM16209	HAF H8U D 401	-10.895	4.710	16.079	1.00	55.18		H0
ANISOU16209	HAF H8U D 401	6950	7250	6770	430	1630	-630	H0
HETATM16210	HAE H8U D 401	-10.939	6.454	16.287	1.00	53.62		H0
ANISOU16210	HAE H8U D 401	6580	7230	6560	220	1560	-590	H0
HETATM16211	HAL H8U D 401	-11.158	3.831	14.051	1.00	56.55		H0
ANISOU16211	HAL H8U D 401	7390	7260	6840	470	1780	-800	H0
HETATM16212	HAK H8U D 401	-12.218	5.139	13.476	1.00	54.71		H0
ANISOU16212	HAK H8U D 401	7190	7070	6530	200	1700	-810	H0
HETATM16213	HAN H8U D 401	-10.176	3.732	11.989	1.00	58.61		H0
ANISOU16213	HAN H8U D 401	7700	7620	6950	570	2000	-930	H0
HETATM16214	HAM H8U D 401	-11.198	5.084	11.424	1.00	56.74		H0
ANISOU16214	HAM H8U D 401	7490	7440	6630	290	1900	-930	H0
HETATM16215	HAQ H8U D 401	-8.037	5.922	10.552	1.00	59.79		H0
ANISOU16215	HAQ H8U D 401	7450	8300	6980	510	2200	-860	H0
HETATM16216	HAR H8U D 401	-8.290	4.239	11.050	1.00	60.65		H0
ANISOU16216	HAR H8U D 401	7720	8180	7140	720	2200	-920	H0
HETATM16217	HAS H8U D 401	-7.210	5.288	11.976	1.00	60.34		H0
ANISOU16217	HAS H8U D 401	7340	8400	7180	690	2180	-780	H0
HETATM16218	HBS H8U D 401	-10.800	6.719	14.143	1.00	54.38		H0
ANISOU16218	HBS H8U D 401	6790	7340	6530	180	1700	-700	H0
HETATM16219	C1 NAG D 402	-28.967	36.393	-6.551	1.00	97.28		C0
ANISOU16219	C1 NAG D 402	14530	12640	9800	450	1000	4100	C0
HETATM16220	C2 NAG D 402	-27.828	36.464	-7.570	1.00	100.23		C0
ANISOU16220	C2 NAG D 402	15000	13070	10010	290	1160	4250	C0
HETATM16221	C3 NAG D 402	-27.685	37.865	-8.163	1.00	103.97		C0
ANISOU16221	C3 NAG D 402	15680	13320	10500	370	1260	4640	C0
HETATM16222	C4 NAG D 402	-29.036	38.473	-8.539	1.00	106.14		C0
ANISOU16222	C4 NAG D 402	15990	13660	10680	670	1110	4890	C0
HETATM16223	C5 NAG D 402	-30.068	38.286	-7.428	1.00	103.87		C0
ANISOU16223	C5 NAG D 402	15570	13310	10580	830	960	4690	C0
HETATM16224	C6 NAG D 402	-31.447	38.806	-7.833	1.00	106.26		C0
ANISOU16224	C6 NAG D 402	15870	13740	10770	1150	810	4930	C0
HETATM16225	C7 NAG D 402	-25.637	35.304	-7.555	1.00	99.51		C0
ANISOU16225	C7 NAG D 402	14850	13050	9910	-140	1390	3930	C0
HETATM16226	C8 NAG D 402	-24.425	34.931	-6.745	1.00	97.40		C0

ANISOU16226	C8	NAG D 402	14520	12630	9850	-370	1520	3700	C0
HETATM16227	N2	NAG D 402	-26.587	36.024	-6.934	1.00	98.97		N0
ANISOU16227	N2	NAG D 402	14810	12780	10010	30	1290	4010	N0
HETATM16228	O3	NAG D 402	-26.873	37.799	-9.315	1.00	106.36		O0
ANISOU16228	O3	NAG D 402	16050	13800	10570	240	1380	4800	O0
HETATM16229	O4	NAG D 402	-28.858	39.846	-8.822	1.00	109.38		O0
ANISOU16229	O4	NAG D 402	16600	13760	11190	750	1230	5230	O0
HETATM16230	O5	NAG D 402	-30.162	36.913	-7.098	1.00	100.35		O0
ANISOU16230	O5	NAG D 402	14930	13140	10050	720	870	4350	O0
HETATM16231	O6	NAG D 402	-32.085	37.888	-8.692	1.00	106.33		O0
ANISOU16231	O6	NAG D 402	15740	14230	10440	1190	660	4910	O0
HETATM16232	O7	NAG D 402	-25.704	34.941	-8.734	1.00	101.65		O0
ANISOU16232	O7	NAG D 402	15130	13630	9870	-120	1380	4040	O0
HETATM16233	H1	NAG D 402	-28.689	36.979	-5.674	1.00	97.16		H0
ANISOU16233	H1	NAG D 402	14570	12300	10050	430	1070	4060	H0
HETATM16234	H2	NAG D 402	-28.070	35.789	-8.391	1.00	100.56		H0
ANISOU16234	H2	NAG D 402	14990	13440	9770	300	1090	4240	H0
HETATM16235	H3	NAG D 402	-27.210	38.505	-7.420	1.00	103.81		H0
ANISOU16235	H3	NAG D 402	15730	12960	10750	300	1360	4630	H0
HETATM16236	H4	NAG D 402	-29.406	37.964	-9.429	1.00	107.07		H0
ANISOU16236	H4	NAG D 402	16050	14120	10510	720	1030	4940	H0
HETATM16237	H5	NAG D 402	-29.737	38.856	-6.559	1.00	103.32		H0
ANISOU16237	H5	NAG D 402	15570	12900	10790	790	1040	4640	H0
HETATM16238	H61	NAG D 402	-31.353	39.774	-8.325	1.00	109.08		H0
ANISOU16238	H61	NAG D 402	16390	13930	11130	1240	880	5230	H0
HETATM16239	H62	NAG D 402	-32.056	38.947	-6.939	1.00	105.27		H0
ANISOU16239	H62	NAG D 402	15690	13480	10830	1260	750	4820	H0
HETATM16240	H81	NAG D 402	-24.464	35.404	-5.764	1.00	96.46		H0
ANISOU16240	H81	NAG D 402	14410	12250	9990	-370	1520	3640	H0
HETATM16241	H82	NAG D 402	-23.525	35.255	-7.268	1.00	98.79		H0
ANISOU16241	H82	NAG D 402	14760	12790	9990	-490	1670	3820	H0
HETATM16242	H83	NAG D 402	-24.397	33.850	-6.610	1.00	95.40		H0
ANISOU16242	H83	NAG D 402	14150	12570	9520	-410	1470	3460	H0
HETATM16243	HN2	NAG D 402	-26.455	36.279	-5.966	1.00	97.67		H0
ANISOU16243	HN2	NAG D 402	14640	12380	10090	0	1310	3900	H0
HETATM16244	OAV	H8U E 401	-21.031	-24.909	16.881	1.00	52.95		O0
ANISOU16244	OAV	H8U E 401	7230	6090	6790	60	1430	430	O0
HETATM16245	CAP	H8U E 401	-20.643	-23.914	17.492	1.00	51.94		C0
ANISOU16245	CAP	H8U E 401	6930	6120	6690	130	1370	470	C0
HETATM16246	NAO	H8U E 401	-19.856	-23.997	18.551	1.00	52.42		N0
ANISOU16246	NAO	H8U E 401	6940	6170	6810	260	1310	570	N0
HETATM16247	CAN	H8U E 401	-19.668	-22.771	19.030	1.00	51.55		C0
ANISOU16247	CAN	H8U E 401	6640	6250	6700	290	1240	580	C0
HETATM16248	CBA	H8U E 401	-19.047	-22.412	20.169	1.00	52.17		C0
ANISOU16248	CBA	H8U E 401	6620	6400	6810	380	1160	670	C0
HETATM16249	OBF	H8U E 401	-18.513	-23.474	20.843	1.00	54.69		O0
ANISOU16249	OBF	H8U E 401	7040	6570	7180	480	1130	760	O0
HETATM16250	CBE	H8U E 401	-17.954	-23.350	22.088	1.00	55.59		C0
ANISOU16250	CBE	H8U E 401	7090	6730	7300	560	1020	860	C0
HETATM16251	CBD	H8U E 401	-17.993	-22.313	23.018	1.00	55.08		C0
ANISOU16251	CBD	H8U E 401	6890	6850	7190	540	930	900	C0
HETATM16252	CBC	H8U E 401	-18.594	-21.051	22.922	1.00	53.76		C0
ANISOU16252	CBC	H8U E 401	6600	6860	6960	440	920	830	C0
HETATM16253	CBG	H8U E 401	-17.913	-20.103	23.925	1.00	53.83		C0

ANISOU16253	CBG H8U E 401	6470	7010	6970	500	810	880	C0
HETATM16254	CBH H8U E 401	-20.082	-21.116	23.280	1.00	53.27		C0
ANISOU16254	CBH H8U E 401	6630	6850	6760	250	930	840	C0
HETATM16255	OBB H8U E 401	-18.405	-20.482	21.603	1.00	52.64		O0
ANISOU16255	OBB H8U E 401	6390	6740	6870	440	1000	730	O0
HETATM16256	CAZ H8U E 401	-18.999	-21.077	20.525	1.00	51.27		C0
ANISOU16256	CAZ H8U E 401	6330	6470	6680	370	1100	660	C0
HETATM16257	CAY H8U E 401	-19.611	-20.149	19.691	1.00	49.81		C0
ANISOU16257	CAY H8U E 401	6090	6390	6450	280	1140	570	C0
HETATM16258	CAX H8U E 401	-20.251	-20.585	18.534	1.00	49.53		C0
ANISOU16258	CAX H8U E 401	6160	6290	6380	200	1220	490	C0
HETATM16259	CAM H8U E 401	-20.279	-21.882	18.212	1.00	50.17		C0
ANISOU16259	CAM H8U E 401	6400	6190	6470	190	1270	490	C0
HETATM16260	CAH H8U E 401	-20.871	-22.573	17.125	1.00	50.30		C0
ANISOU16260	CAH H8U E 401	6560	6110	6450	100	1350	420	C0
HETATM16261	CAI H8U E 401	-22.362	-22.280	17.049	1.00	49.46		C0
ANISOU16261	CAI H8U E 401	6460	6110	6220	-100	1320	390	C0
HETATM16262	CAG H8U E 401	-20.277	-22.247	15.680	1.00	50.06		C0
ANISOU16262	CAG H8U E 401	6520	6050	6460	150	1440	320	C0
HETATM16263	CBI H8U E 401	-18.977	-23.007	15.420	1.00	51.53		C0
ANISOU16263	CBI H8U E 401	6750	6070	6760	320	1520	320	C0
HETATM16264	CBJ H8U E 401	-19.976	-20.758	15.431	1.00	48.61		C0
ANISOU16264	CBJ H8U E 401	6160	6040	6270	180	1420	290	C0
HETATM16265	CAC H8U E 401	-21.429	-22.844	14.824	1.00	50.28		C0
ANISOU16265	CAC H8U E 401	6700	6020	6380	-20	1480	240	C0
HETATM16266	CAB H8U E 401	-21.542	-22.548	13.308	1.00	50.10		C0
ANISOU16266	CAB H8U E 401	6720	6000	6310	-60	1550	130	C0
HETATM16267	CAA H8U E 401	-23.057	-22.371	13.031	1.00	49.63		C0
ANISOU16267	CAA H8U E 401	6690	6040	6120	-260	1490	90	C0
HETATM16268	CAR H8U E 401	-23.862	-23.325	13.750	1.00	50.49		C0
ANISOU16268	CAR H8U E 401	6890	6100	6200	-380	1460	140	C0
HETATM16269	OAU H8U E 401	-24.679	-24.068	13.206	1.00	51.18		O0
ANISOU16269	OAU H8U E 401	7110	6120	6210	-540	1480	80	O0
HETATM16270	NAS H8U E 401	-23.723	-23.329	15.091	1.00	50.02		N0
ANISOU16270	NAS H8U E 401	6760	6070	6170	-340	1410	240	N0
HETATM16271	CAT H8U E 401	-24.476	-24.237	15.997	1.00	51.26		C0
ANISOU16271	CAT H8U E 401	7020	6170	6290	-460	1380	300	C0
HETATM16272	CAD H8U E 401	-22.710	-22.355	15.527	1.00	49.30		C0
ANISOU16272	CAD H8U E 401	6510	6060	6160	-170	1390	270	C0
HETATM16273	CAE H8U E 401	-23.250	-20.992	14.992	1.00	47.81		C0
ANISOU16273	CAE H8U E 401	6190	6060	5910	-210	1350	220	C0
HETATM16274	NAF H8U E 401	-23.361	-21.020	13.514	1.00	48.25		N0
ANISOU16274	NAF H8U E 401	6330	6080	5930	-260	1410	120	N0
HETATM16275	CAJ H8U E 401	-24.674	-20.678	12.927	1.00	47.80		C0
ANISOU16275	CAJ H8U E 401	6270	6140	5750	-410	1370	70	C0
HETATM16276	CAK H8U E 401	-24.740	-21.438	11.594	1.00	48.83		C0
ANISOU16276	CAK H8U E 401	6570	6140	5840	-480	1430	-20	C0
HETATM16277	CAL H8U E 401	-23.422	-22.224	11.523	1.00	49.54		C0
ANISOU16277	CAL H8U E 401	6760	6030	6030	-340	1540	-20	C0
HETATM16278	CAQ H8U E 401	-23.601	-23.543	10.741	1.00	50.81		C0
ANISOU16278	CAQ H8U E 401	7140	6000	6160	-430	1610	-80	C0
HETATM16279	OAW H8U E 401	-22.443	-21.422	10.872	1.00	48.84		O0
ANISOU16279	OAW H8U E 401	6610	5970	5980	-220	1590	-50	O0
HETATM16280	HAO H8U E 401	-19.595	-24.845	19.011	1.00	53.71		H0

ANISOU16280	HAO H8U E 401	7200	6210	7000	310	1300	630	H0
HETATM16281	HBE H8U E 401	-17.406	-24.230	22.422	1.00	57.07		H0
ANISOU16281	HBE H8U E 401	7360	6780	7540	670	1000	930	H0
HETATM16282	HBD H8U E 401	-17.449	-22.517	23.941	1.00	55.89		H0
ANISOU16282	HBD H8U E 401	6990	6940	7310	620	850	980	H0
HETATM16283	HBG H8U E 401	-18.515	-19.202	24.038	1.00	52.61		H0
ANISOU16283	HBG H8U E 401	6260	6980	6750	410	800	840	H0
HETATM16284	HBH H8U E 401	-16.922	-19.834	23.557	1.00	53.91		H0
ANISOU16284	HBH H8U E 401	6370	7030	7080	600	810	860	H0
HETATM16285	HBI H8U E 401	-17.821	-20.586	24.898	1.00	54.61		H0
ANISOU16285	HBI H8U E 401	6620	7080	7040	520	740	970	H0
HETATM16286	HBJ H8U E 401	-20.528	-22.004	22.830	1.00	53.93		H0
ANISOU16286	HBJ H8U E 401	6840	6820	6830	200	990	830	H0
HETATM16287	HBK H8U E 401	-20.586	-20.227	22.901	1.00	52.12		H0
ANISOU16287	HBK H8U E 401	6400	6820	6580	190	940	770	H0
HETATM16288	HBL H8U E 401	-20.196	-21.165	24.363	1.00	53.66		H0
ANISOU16288	HBL H8U E 401	6700	6940	6750	240	860	910	H0
HETATM16289	HAY H8U E 401	-19.590	-19.096	19.932	1.00	48.82		H0
ANISOU16289	HAY H8U E 401	5850	6400	6300	280	1090	560	H0
HETATM16290	HAX H8U E 401	-20.729	-19.855	17.893	1.00	48.59		H0
ANISOU16290	HAX H8U E 401	6000	6250	6210	140	1230	430	H0
HETATM16291	HAJ H8U E 401	-22.975	-23.008	17.459	1.00	50.14		H0
ANISOU16291	HAJ H8U E 401	6640	6150	6260	-190	1310	420	H0
HETATM16292	HAI H8U E 401	-22.643	-21.299	17.281	1.00	48.38		H0
ANISOU16292	HAI H8U E 401	6200	6130	6050	-110	1270	380	H0
HETATM16293	HBM H8U E 401	-18.488	-22.577	14.552	1.00	51.37		H0
ANISOU16293	HBM H8U E 401	6680	6070	6760	370	1580	250	H0
HETATM16294	HBN H8U E 401	-19.170	-24.063	15.227	1.00	52.67		H0
ANISOU16294	HBN H8U E 401	7050	6060	6900	310	1560	310	H0
HETATM16295	HBO H8U E 401	-18.321	-22.903	16.284	1.00	51.67		H0
ANISOU16295	HBO H8U E 401	6670	6110	6840	430	1470	390	H0
HETATM16296	HBQ H8U E 401	-19.845	-20.567	14.370	1.00	48.64		H0
ANISOU16296	HBQ H8U E 401	6190	6030	6270	170	1490	210	H0
HETATM16297	HBR H8U E 401	-19.050	-20.498	15.943	1.00	48.70		H0
ANISOU16297	HBR H8U E 401	6070	6070	6370	290	1410	330	H0
HETATM16298	HBP H8U E 401	-20.768	-20.130	15.813	1.00	47.75		H0
ANISOU16298	HBP H8U E 401	6000	6050	6100	100	1360	300	H0
HETATM16299	HAD H8U E 401	-21.387	-23.924	14.897	1.00	51.52		H0
ANISOU16299	HAD H8U E 401	7000	6020	6550	-20	1510	260	H0
HETATM16300	HAB H8U E 401	-20.983	-21.661	13.028	1.00	49.38		H0
ANISOU16300	HAB H8U E 401	6520	5990	6250	10	1560	110	H0
HETATM16301	HAC H8U E 401	-21.167	-23.404	12.744	1.00	51.27		H0
ANISOU16301	HAC H8U E 401	7000	5990	6490	-40	1630	90	H0
HETATM16302	HAU H8U E 401	-25.193	-24.838	15.442	1.00	51.95		H0
ANISOU16302	HAU H8U E 401	7210	6210	6310	-610	1410	250	H0
HETATM16303	HAV H8U E 401	-25.022	-23.663	16.744	1.00	50.48		H0
ANISOU16303	HAV H8U E 401	6810	6220	6150	-510	1320	340	H0
HETATM16304	HAT H8U E 401	-23.792	-24.915	16.509	1.00	51.99		H0
ANISOU16304	HAT H8U E 401	7190	6130	6440	-380	1400	360	H0
HETATM16305	HAF H8U E 401	-24.236	-20.821	15.423	1.00	47.62		H0
ANISOU16305	HAF H8U E 401	6140	6140	5820	-310	1300	230	H0
HETATM16306	HAE H8U E 401	-22.607	-20.169	15.273	1.00	47.14		H0
ANISOU16306	HAE H8U E 401	6000	6040	5870	-110	1330	240	H0
HETATM16307	HAL H8U E 401	-25.490	-20.990	13.568	1.00	48.08		H0

ANISOU16307 HAL H8U E 401	6300	6220	5750	-500	1320	90	H0
HETATM16308 HAK H8U E 401	-24.737	-19.604	12.749	1.00	46.93		H0
ANISOU16308 HAK H8U E 401	6060	6150	5620	-370	1330	50	H0
HETATM16309 HAN H8U E 401	-25.601	-22.105	11.593	1.00	49.54		H0
ANISOU16309 HAN H8U E 401	6740	6220	5870	-610	1410	-40	H0
HETATM16310 HAM H8U E 401	-24.807	-20.735	10.763	1.00	48.43		H0
ANISOU16310 HAM H8U E 401	6500	6150	5740	-480	1430	-70	H0
HETATM16311 HAQ H8U E 401	-23.227	-23.407	9.725	1.00	51.20		H0
ANISOU16311 HAQ H8U E 401	7250	6020	6190	-400	1670	-160	H0
HETATM16312 HAR H8U E 401	-24.652	-23.828	10.692	1.00	51.25		H0
ANISOU16312 HAR H8U E 401	7250	6100	6130	-590	1560	-100	H0
HETATM16313 HAS H8U E 401	-23.033	-24.334	11.218	1.00	51.76		H0
ANISOU16313 HAS H8U E 401	7340	5980	6350	-360	1650	-50	H0
HETATM16314 HBS H8U E 401	-22.697	-20.370	13.147	1.00	47.68		H0
ANISOU16314 HBS H8U E 401	6200	6030	5890	-170	1430	100	H0
HETATM16315 C1 NAG E 402	-3.418	5.049	-12.252	1.00	100.77		C0
ANISOU16315 C1 NAG E 402	15760	12640	9890	-3580	5480	140	C0
HETATM16316 C2 NAG E 402	-2.801	3.951	-13.141	1.00	103.63		C0
ANISOU16316 C2 NAG E 402	16020	13150	10210	-3570	5800	20	C0
HETATM16317 C3 NAG E 402	-2.070	4.411	-14.411	1.00	107.59		C0
ANISOU16317 C3 NAG E 402	16770	13650	10460	-3860	6140	30	C0
HETATM16318 C4 NAG E 402	-2.487	5.787	-14.906	1.00	108.75		C0
ANISOU16318 C4 NAG E 402	17390	13590	10340	-4080	6060	180	C0
HETATM16319 C5 NAG E 402	-2.542	6.732	-13.717	1.00	107.34		C0
ANISOU16319 C5 NAG E 402	17110	13340	10330	-4110	5830	270	C0
HETATM16320 C6 NAG E 402	-2.789	8.185	-14.123	1.00	109.19		C0
ANISOU16320 C6 NAG E 402	17810	13360	10320	-4340	5770	420	C0
HETATM16321 C7 NAG E 402	-2.013	1.906	-12.000	1.00	104.38		C0
ANISOU16321 C7 NAG E 402	15330	13540	10800	-3230	5890	-200	C0
HETATM16322 C8 NAG E 402	-0.914	1.274	-11.190	1.00	104.99		C0
ANISOU16322 C8 NAG E 402	14870	13820	11200	-3170	6030	-300	C0
HETATM16323 N2 NAG E 402	-1.840	3.184	-12.356	1.00	104.60		N0
ANISOU16323 N2 NAG E 402	15610	13470	10660	-3500	5930	-100	N0
HETATM16324 O3 NAG E 402	-2.266	3.471	-15.444	1.00	108.86		O0
ANISOU16324 O3 NAG E 402	17070	13840	10450	-3780	6290	-50	O0
HETATM16325 O4 NAG E 402	-1.555	6.230	-15.866	1.00	112.46		O0
ANISOU16325 O4 NAG E 402	18010	14100	10630	-4390	6410	190	O0
HETATM16326 O5 NAG E 402	-3.602	6.294	-12.902	1.00	103.16		O0
ANISOU16326 O5 NAG E 402	16500	12770	9930	-3800	5480	270	O0
HETATM16327 O6 NAG E 402	-4.036	8.294	-14.775	1.00	108.60		O0
ANISOU16327 O6 NAG E 402	18170	13110	9980	-4200	5550	510	O0
HETATM16328 O7 NAG E 402	-3.006	1.238	-12.294	1.00	103.25		O0
ANISOU16328 O7 NAG E 402	15360	13320	10560	-3040	5740	-210	O0
HETATM16329 H1 NAG E 402	-2.760	5.201	-11.395	1.00	100.93		H0
ANISOU16329 H1 NAG E 402	15470	12750	10130	-3620	5500	120	H0
HETATM16330 H2 NAG E 402	-3.604	3.297	-13.481	1.00	102.48		H0
ANISOU16330 H2 NAG E 402	16000	12960	9980	-3400	5690	0	H0
HETATM16331 H3 NAG E 402	-1.005	4.504	-14.199	1.00	109.17		H0
ANISOU16331 H3 NAG E 402	16700	13980	10800	-4010	6360	-20	H0
HETATM16332 H4 NAG E 402	-3.471	5.702	-15.368	1.00	107.99		H0
ANISOU16332 H4 NAG E 402	17600	13380	10050	-3960	5890	230	H0
HETATM16333 H5 NAG E 402	-1.588	6.679	-13.193	1.00	108.02		H0
ANISOU16333 H5 NAG E 402	16850	13570	10620	-4210	5980	210	H0
HETATM16334 H61 NAG E 402	-1.975	8.533	-14.759	1.00	111.96		H0

ANISOU16334	H61 NAG E 402	18240	13740	10560	-4600	6040	420	H0
HETATM16335	H62 NAG E 402	-2.798	8.809	-13.229	1.00108.23			H0
ANISOU16335	H62 NAG E 402	17600	13180	10340	-4360	5610	460	H0
HETATM16336	H81 NAG E 402	-0.234	2.037	-10.811	1.00105.93			H0
ANISOU16336	H81 NAG E 402	14870	13990	11400	-3350	6080	-270	H0
HETATM16337	H82 NAG E 402	-0.362	0.568	-11.811	1.00106.53			H0
ANISOU16337	H82 NAG E 402	14980	14110	11380	-3160	6280	-400	H0
HETATM16338	H83 NAG E 402	-1.346	0.750	-10.338	1.00102.53			H0
ANISOU16338	H83 NAG E 402	14380	13510	11060	-2960	5820	-320	H0
HETATM16339	HN2 NAG E 402	-0.996	3.662	-12.074	1.00106.00			H0
ANISOU16339	HN2 NAG E 402	15620	13730	10930	-3670	6060	-100	H0
HETATM16340	O HOH A 501	-49.997	-32.447	15.249	1.00	46.41		O0
HETATM16341	O HOH A 502	-40.885	-30.826	12.215	1.00	47.24		O0
HETATM16342	O HOH A 503	-28.142	-30.528	4.110	1.00	43.91		O0
HETATM16343	O HOH A 504	-24.124	-16.169	22.934	1.00	39.93		O0
HETATM16344	O HOH A 505	-28.331	-5.395	26.543	1.00	59.40		O0
HETATM16345	O HOH A 506	-42.912	-14.146	38.702	1.00	46.26		O0
HETATM16346	O HOH A 507	-36.932	-20.063	4.210	1.00	33.66		O0
HETATM16347	O HOH A 508	-45.399	-15.706	28.747	1.00	38.89		O0
HETATM16348	O HOH A 509	-48.874	-26.407	21.605	1.00	45.46		O0
HETATM16349	O HOH A 510	-41.319	-18.410	0.705	1.00	47.95		O0
HETATM16350	O HOH A 511	-37.581	-12.067	39.410	1.00	48.52		O0
HETATM16351	O HOH A 512	-40.142	-21.739	43.418	1.00	53.78		O0
HETATM16352	O HOH A 513	-32.392	-27.714	15.016	1.00	53.67		O0
HETATM16353	O HOH A 514	-39.506	-31.696	28.020	1.00	44.09		O0
HETATM16354	O HOH A 515	-43.202	-16.769	37.171	1.00	37.50		O0
HETATM16355	O HOH A 516	-48.146	-28.225	25.075	1.00	45.81		O0
HETATM16356	O HOH A 517	-39.339	-7.691	30.060	1.00	54.46		O0
HETATM16357	O HOH A 518	-24.056	-9.526	17.388	1.00	52.90		O0
HETATM16358	O HOH A 519	-42.161	-8.539	6.200	1.00	57.85		O0
HETATM16359	O HOH A 520	-47.973	-31.845	11.276	1.00	57.35		O0
HETATM16360	O HOH A 521	-28.575	-14.524	14.924	1.00	33.80		O0
HETATM16361	O HOH A 522	-36.255	-30.858	39.499	1.00	46.10		O0
HETATM16362	O HOH A 523	-24.076	-15.045	-1.051	1.00	36.74		O0
HETATM16363	O HOH A 524	-42.689	-23.736	32.709	1.00	40.28		O0
HETATM16364	O HOH A 525	-43.797	-32.794	9.338	1.00	51.88		O0
HETATM16365	O HOH A 526	-32.373	-8.830	2.942	1.00	49.82		O0
HETATM16366	O HOH A 527	-25.662	-13.909	0.958	1.00	42.94		O0
HETATM16367	O HOH A 528	-36.805	-30.243	9.692	1.00	42.42		O0
HETATM16368	O HOH A 529	-55.941	-25.536	18.587	1.00	42.68		O0
HETATM16369	O HOH A 530	-33.831	-22.698	-7.208	1.00	38.12		O0
HETATM16370	O HOH A 531	-25.679	-7.145	-3.811	1.00	44.51		O0
HETATM16371	O HOH A 532	-52.839	-21.257	11.942	1.00	47.66		O0
HETATM16372	O HOH A 533	-35.848	-19.735	15.802	1.00	52.57		O0
HETATM16373	O HOH A 534	-37.524	-13.253	7.653	1.00	48.07		O0
HETATM16374	O HOH A 535	-40.552	-27.072	2.669	1.00	51.91		O0
HETATM16375	O HOH A 536	-23.243	-13.420	3.261	1.00	48.22		O0
HETATM16376	O HOH A 537	-18.505	-17.894	29.830	1.00	46.52		O0
HETATM16377	O HOH A 538	-33.845	-24.520	46.182	1.00	40.28		O0
HETATM16378	O HOH A 539	-37.014	-17.147	21.796	1.00	35.41		O0
HETATM16379	O HOH A 540	-39.577	-15.834	15.898	1.00	36.90		O0
HETATM16380	O HOH A 541	-38.281	-27.148	39.915	1.00	48.67		O0
HETATM16381	O HOH A 542	-21.195	-23.892	35.146	1.00	46.37		O0
HETATM16382	O HOH A 543	-36.533	-25.968	-6.978	1.00	34.27		O0

HETATM16383	O	HOH A 544	-22.995	-21.342	42.872	1.00	47.77	OO
HETATM16384	O	HOH A 545	-38.391	-28.772	6.258	1.00	37.82	OO
HETATM16385	O	HOH A 546	-40.056	-15.240	19.301	1.00	41.48	OO
HETATM16386	O	HOH A 547	-23.293	-27.986	33.840	1.00	48.49	OO
HETATM16387	O	HOH A 548	-24.454	-26.638	26.148	1.00	48.19	OO
HETATM16388	O	HOH A 549	-32.700	-14.472	-12.295	1.00	52.12	OO
HETATM16389	O	HOH A 550	-29.911	-7.114	-4.137	1.00	51.89	OO
HETATM16390	O	HOH A 551	-37.390	-21.988	-7.529	1.00	44.35	OO
HETATM16391	O	HOH A 552	-26.840	-9.926	33.976	1.00	50.95	OO
HETATM16392	O	HOH A 553	-45.746	-24.940	15.862	1.00	41.42	OO
HETATM16393	O	HOH A 554	-39.579	-22.822	46.176	1.00	52.14	OO
HETATM16394	O	HOH A 555	-23.607	-34.028	-16.219	1.00	44.23	OO
HETATM16395	O	HOH A 556	-21.777	-27.711	17.620	1.00	53.47	OO
HETATM16396	O	HOH A 557	-39.884	-14.611	7.695	1.00	32.42	OO
HETATM16397	O	HOH A 558	-47.986	-25.816	14.606	1.00	35.24	OO
HETATM16398	O	HOH A 559	-27.581	-19.320	11.341	1.00	49.03	OO
HETATM16399	O	HOH A 560	-39.618	-27.582	0.069	1.00	47.59	OO
HETATM16400	O	HOH A 561	-27.447	-29.578	-3.879	1.00	48.88	OO
HETATM16401	O	HOH A 562	-29.493	-34.775	40.663	1.00	56.53	OO
HETATM16402	O	HOH A 563	-29.066	-15.353	-9.895	1.00	49.47	OO
HETATM16403	O	HOH A 564	-59.574	-18.560	16.470	1.00	54.82	OO
HETATM16404	O	HOH A 565	-42.496	-23.571	42.221	1.00	49.68	OO
HETATM16405	O	HOH A 566	-45.210	-16.738	8.275	1.00	38.30	OO
HETATM16406	O	HOH A 567	-24.811	-32.090	31.616	1.00	60.34	OO
HETATM16407	O	HOH A 568	-58.425	-16.918	18.088	1.00	58.09	OO
HETATM16408	O	HOH A 569	-44.243	-28.764	-4.268	1.00	50.15	OO
HETATM16409	O	HOH A 570	-24.730	-17.419	37.062	1.00	40.80	OO
HETATM16410	O	HOH A 571	-36.075	-33.323	-5.336	1.00	45.45	OO
HETATM16411	O	HOH A 572	-27.252	-8.816	12.377	1.00	46.25	OO
HETATM16412	O	HOH A 573	-40.174	-15.877	22.061	1.00	40.81	OO
HETATM16413	O	HOH A 574	-49.659	-26.455	26.147	1.00	47.68	OO
HETATM16414	O	HOH A 575	-40.681	-29.265	5.122	1.00	50.56	OO
HETATM16415	O	HOH A 576	-39.427	-32.969	11.368	1.00	58.59	OO
HETATM16416	O	HOH A 577	-21.711	-16.954	2.065	1.00	41.88	OO
HETATM16417	O	HOH A 578	-44.523	-29.809	34.697	1.00	59.28	OO
HETATM16418	O	HOH A 579	-41.339	-25.164	34.577	1.00	33.02	OO
HETATM16419	O	HOH A 580	-20.320	-20.992	27.344	1.00	45.90	OO
HETATM16420	O	HOH A 581	-46.657	-21.135	-0.438	1.00	54.28	OO
HETATM16421	O	HOH A 582	-16.924	-22.689	29.868	1.00	57.49	OO
HETATM16422	O	HOH A 583	-22.361	-16.921	28.144	1.00	46.80	OO
HETATM16423	O	HOH A 584	-42.315	-4.246	21.565	1.00	40.36	OO
HETATM16424	O	HOH A 585	-40.235	-12.913	-4.879	1.00	63.66	OO
HETATM16425	O	HOH A 586	-25.047	-22.864	-9.854	1.00	56.39	OO
HETATM16426	O	HOH A 587	-43.166	-16.247	9.765	1.00	42.41	OO
HETATM16427	O	HOH A 588	-28.298	-17.409	13.350	1.00	45.50	OO
HETATM16428	O	HOH A 589	-34.227	-32.787	32.028	1.00	59.45	OO
HETATM16429	O	HOH A 590	-24.428	-27.720	17.935	1.00	56.62	OO
HETATM16430	O	HOH A 591	-19.523	-13.724	-5.486	1.00	57.54	OO
HETATM16431	O	HOH A 592	-31.002	-9.879	8.460	1.00	49.54	OO
HETATM16432	O	HOH A 593	-59.376	-27.443	23.973	1.00	57.87	OO
HETATM16433	O	HOH A 594	-25.336	-17.028	44.304	1.00	65.25	OO
HETATM16434	O	HOH A 595	-43.952	-13.962	7.615	1.00	59.02	OO
HETATM16435	O	HOH A 596	-42.863	-11.661	0.918	1.00	52.97	OO
HETATM16436	O	HOH A 597	-28.655	-28.105	26.030	1.00	53.02	OO

HETATM16437	O	HOH A 598	-35.377	-16.865	16.586	1.00	58.26	O0
HETATM16438	O	HOH A 599	-48.142	-17.334	4.232	1.00	49.54	O0
HETATM16439	O	HOH A 600	-34.354	-6.039	6.717	1.00	63.90	O0
HETATM16440	O	HOH A 601	-44.837	-22.186	32.627	1.00	40.70	O0
HETATM16441	O	HOH A 602	-33.647	-8.035	0.852	1.00	59.93	O0
HETATM16442	O	HOH A 603	-37.380	-15.958	19.199	1.00	43.62	O0
HETATM16443	O	HOH A 604	-36.589	-30.664	6.073	1.00	55.58	O0
HETATM16444	O	HOH A 605	-42.344	-22.140	-1.757	1.00	51.07	O0
HETATM16445	O	HOH A 606	-35.759	-9.789	9.673	1.00	48.60	O0
HETATM16446	O	HOH A 607	-20.293	-18.449	27.541	1.00	49.53	O0
HETATM16447	O	HOH A 608	-20.985	-26.439	34.423	1.00	47.83	O0
HETATM16448	O	HOH A 609	-33.208	-9.085	10.081	1.00	48.81	O0
HETATM16449	O	HOH A 610	-58.306	-19.177	14.401	1.00	59.77	O0
HETATM16450	O	HOH A 611	-38.747	-9.706	-0.357	1.00	53.73	O0
HETATM16451	O	HOH B 501	-45.453	-5.540	5.401	1.00	41.67	O0
HETATM16452	O	HOH B 502	-57.264	-20.725	22.943	1.00	44.12	O0
HETATM16453	O	HOH B 503	-62.006	2.925	21.071	1.00	34.52	O0
HETATM16454	O	HOH B 504	-48.771	-5.480	49.347	1.00	46.99	O0
HETATM16455	O	HOH B 505	-56.743	-4.532	8.574	1.00	44.37	O0
HETATM16456	O	HOH B 506	-62.582	-18.548	4.730	1.00	49.23	O0
HETATM16457	O	HOH B 507	-48.328	2.900	9.348	1.00	58.15	O0
HETATM16458	O	HOH B 508	-58.650	0.597	4.542	1.00	57.82	O0
HETATM16459	O	HOH B 509	-57.718	-13.939	31.790	1.00	43.21	O0
HETATM16460	O	HOH B 510	-46.056	-14.576	25.939	1.00	47.94	O0
HETATM16461	O	HOH B 511	-70.656	4.919	21.279	1.00	44.81	O0
HETATM16462	O	HOH B 512	-54.080	-18.829	47.913	1.00	47.56	O0
HETATM16463	O	HOH B 513	-64.337	-15.542	9.506	1.00	55.82	O0
HETATM16464	O	HOH B 514	-47.479	-16.972	49.085	1.00	48.90	O0
HETATM16465	O	HOH B 515	-53.478	-13.053	49.676	1.00	39.76	O0
HETATM16466	O	HOH B 516	-54.269	2.645	13.252	1.00	39.43	O0
HETATM16467	O	HOH B 517	-55.385	-3.424	5.822	1.00	44.12	O0
HETATM16468	O	HOH B 518	-50.422	-18.823	39.597	1.00	33.40	O0
HETATM16469	O	HOH B 519	-62.474	-11.349	45.423	1.00	44.23	O0
HETATM16470	O	HOH B 520	-52.520	0.357	47.238	1.00	43.91	O0
HETATM16471	O	HOH B 521	-61.606	10.919	16.228	1.00	53.02	O0
HETATM16472	O	HOH B 522	-65.421	-14.106	34.797	1.00	60.98	O0
HETATM16473	O	HOH B 523	-47.669	-10.443	17.925	1.00	34.54	O0
HETATM16474	O	HOH B 524	-69.755	-1.853	12.399	1.00	45.30	O0
HETATM16475	O	HOH B 525	-47.279	-16.143	46.521	1.00	45.67	O0
HETATM16476	O	HOH B 526	-51.062	6.564	31.520	1.00	36.79	O0
HETATM16477	O	HOH B 527	-64.584	-3.829	33.966	1.00	46.89	O0
HETATM16478	O	HOH B 528	-71.166	8.143	29.013	1.00	58.14	O0
HETATM16479	O	HOH B 529	-50.292	4.283	40.227	1.00	39.17	O0
HETATM16480	O	HOH B 530	-45.253	-19.842	33.275	1.00	40.50	O0
HETATM16481	O	HOH B 531	-65.152	-5.977	12.181	1.00	39.93	O0
HETATM16482	O	HOH B 532	-67.528	-0.149	8.912	1.00	50.73	O0
HETATM16483	O	HOH B 533	-48.024	-8.866	47.056	1.00	54.03	O0
HETATM16484	O	HOH B 534	-70.117	-1.604	15.642	1.00	57.05	O0
HETATM16485	O	HOH B 535	-42.174	-8.871	18.638	1.00	43.12	O0
HETATM16486	O	HOH B 536	-49.187	-19.534	31.504	1.00	48.46	O0
HETATM16487	O	HOH B 537	-63.905	4.792	19.570	1.00	33.90	O0
HETATM16488	O	HOH B 538	-57.866	-0.084	39.055	1.00	34.00	O0
HETATM16489	O	HOH B 539	-42.645	-27.382	35.002	1.00	55.90	O0
HETATM16490	O	HOH B 540	-46.771	5.426	41.298	1.00	42.56	O0

HETATM16491	O	HOH B 541	-59.329	-21.296	11.981	1.00	50.60	O0
HETATM16492	O	HOH B 542	-42.492	-4.315	29.755	1.00	46.91	O0
HETATM16493	O	HOH B 543	-51.422	-2.537	25.315	1.00	39.83	O0
HETATM16494	O	HOH B 544	-52.051	0.254	10.640	1.00	35.94	O0
HETATM16495	O	HOH B 545	-65.267	-7.629	15.775	1.00	42.66	O0
HETATM16496	O	HOH B 546	-49.622	-3.746	2.594	1.00	45.99	O0
HETATM16497	O	HOH B 547	-51.572	4.912	10.280	1.00	46.64	O0
HETATM16498	O	HOH B 548	-62.881	-8.795	38.308	1.00	46.79	O0
HETATM16499	O	HOH B 549	-57.578	1.801	37.011	1.00	35.93	O0
HETATM16500	O	HOH B 550	-55.937	4.459	11.936	1.00	42.18	O0
HETATM16501	O	HOH B 551	-68.097	-9.386	-1.548	1.00	52.36	O0
HETATM16502	O	HOH B 552	-43.496	0.479	41.184	1.00	42.69	O0
HETATM16503	O	HOH B 553	-49.759	-22.560	42.899	1.00	55.33	O0
HETATM16504	O	HOH B 554	-53.936	-2.760	17.766	1.00	49.04	O0
HETATM16505	O	HOH B 555	-60.057	-14.004	-5.406	1.00	55.72	O0
HETATM16506	O	HOH B 556	-51.896	-0.125	19.076	1.00	42.88	O0
HETATM16507	O	HOH B 557	-42.205	-9.857	14.439	1.00	42.24	O0
HETATM16508	O	HOH B 558	-51.572	-20.344	5.215	1.00	44.83	O0
HETATM16509	O	HOH B 559	-55.201	-17.955	38.844	1.00	33.44	O0
HETATM16510	O	HOH B 560	-50.759	0.853	22.412	1.00	40.19	O0
HETATM16511	O	HOH B 561	-49.887	-1.387	10.387	1.00	45.23	O0
HETATM16512	O	HOH B 562	-64.842	13.332	12.871	1.00	49.92	O0
HETATM16513	O	HOH B 563	-64.495	-9.879	42.226	1.00	49.98	O0
HETATM16514	O	HOH B 564	-64.140	-9.947	14.855	1.00	58.34	O0
HETATM16515	O	HOH B 565	-45.870	-9.949	-2.116	1.00	61.99	O0
HETATM16516	O	HOH B 566	-57.937	-2.972	44.525	1.00	44.86	O0
HETATM16517	O	HOH B 567	-45.177	-13.475	40.231	1.00	40.92	O0
HETATM16518	O	HOH B 568	-53.151	-5.748	50.531	1.00	34.28	O0
HETATM16519	O	HOH B 569	-55.733	-17.130	31.252	1.00	39.12	O0
HETATM16520	O	HOH B 570	-58.874	-5.993	51.097	1.00	52.62	O0
HETATM16521	O	HOH B 571	-57.795	-17.928	23.436	1.00	46.32	O0
HETATM16522	O	HOH B 572	-54.200	-20.835	41.894	1.00	50.04	O0
HETATM16523	O	HOH B 573	-49.771	-18.376	5.953	1.00	41.50	O0
HETATM16524	O	HOH B 574	-42.486	-3.976	32.448	1.00	52.02	O0
HETATM16525	O	HOH B 575	-39.683	-9.545	36.061	1.00	52.70	O0
HETATM16526	O	HOH B 576	-49.095	-22.718	34.199	1.00	48.84	O0
HETATM16527	O	HOH B 577	-63.678	3.078	3.443	1.00	64.51	O0
HETATM16528	O	HOH B 578	-70.344	10.928	28.359	1.00	52.54	O0
HETATM16529	O	HOH B 579	-40.893	-12.891	19.333	1.00	41.21	O0
HETATM16530	O	HOH B 580	-55.174	2.575	46.138	1.00	43.63	O0
HETATM16531	O	HOH B 581	-61.134	-10.428	20.655	1.00	52.23	O0
HETATM16532	O	HOH B 582	-47.965	-16.562	25.630	1.00	36.26	O0
HETATM16533	O	HOH B 583	-45.558	-16.155	31.484	1.00	38.10	O0
HETATM16534	O	HOH B 584	-52.277	-13.027	15.538	1.00	39.12	O0
HETATM16535	O	HOH B 585	-64.139	-3.446	5.561	1.00	54.74	O0
HETATM16536	O	HOH B 586	-69.973	-4.629	27.549	1.00	55.61	O0
HETATM16537	O	HOH B 587	-50.179	-11.729	16.945	1.00	42.94	O0
HETATM16538	O	HOH B 588	-46.818	-4.695	47.313	1.00	56.01	O0
HETATM16539	O	HOH B 589	-58.479	17.931	21.224	1.00	51.94	O0
HETATM16540	O	HOH B 590	-63.608	-17.784	34.793	1.00	59.34	O0
HETATM16541	O	HOH B 591	-50.857	1.083	25.178	1.00	30.74	O0
HETATM16542	O	HOH B 592	-52.259	3.366	3.536	1.00	46.17	O0
HETATM16543	O	HOH B 593	-63.095	-0.687	3.714	1.00	56.37	O0
HETATM16544	O	HOH B 594	-50.728	4.951	27.612	1.00	58.86	O0

HETATM16545	O	HOH B 595	-53.675	8.497	28.910	1.00	37.31	O0
HETATM16546	O	HOH B 596	-56.336	-22.298	8.284	1.00	52.86	O0
HETATM16547	O	HOH B 597	-44.220	-8.692	43.093	1.00	50.22	O0
HETATM16548	O	HOH B 598	-66.338	-10.558	31.235	1.00	50.52	O0
HETATM16549	O	HOH B 599	-55.787	-20.628	12.395	1.00	61.85	O0
HETATM16550	O	HOH B 600	-72.129	6.545	20.060	1.00	50.71	O0
HETATM16551	O	HOH B 601	-45.059	-6.790	10.874	1.00	43.43	O0
HETATM16552	O	HOH B 602	-45.917	-19.741	43.352	1.00	45.46	O0
HETATM16553	O	HOH B 603	-61.521	-20.358	7.392	1.00	62.15	O0
HETATM16554	O	HOH B 604	-60.003	-13.454	30.700	1.00	57.37	O0
HETATM16555	O	HOH B 605	-49.666	-3.092	16.708	1.00	53.16	O0
HETATM16556	O	HOH B 606	-67.309	-4.887	7.238	1.00	53.79	O0
HETATM16557	O	HOH B 607	-58.027	6.857	8.125	1.00	45.39	O0
HETATM16558	O	HOH B 608	-44.872	-27.076	33.207	1.00	57.65	O0
HETATM16559	O	HOH B 609	-56.566	4.217	36.611	1.00	42.04	O0
HETATM16560	O	HOH B 610	-50.813	-2.039	22.516	1.00	41.68	O0
HETATM16561	O	HOH B 611	-48.083	0.185	9.186	1.00	56.93	O0
HETATM16562	O	HOH B 612	-49.366	4.465	11.770	1.00	55.74	O0
HETATM16563	O	HOH B 613	-48.748	-1.975	12.563	1.00	43.91	O0
HETATM16564	O	HOH B 614	-61.017	20.301	18.405	1.00	49.16	O0
HETATM16565	O	HOH B 615	-53.172	-19.657	39.132	1.00	47.00	O0
HETATM16566	O	HOH B 616	-57.876	4.533	33.906	1.00	50.36	O0
HETATM16567	O	HOH B 617	-46.420	-18.673	31.185	1.00	36.28	O0
HETATM16568	O	HOH B 618	-44.577	-4.567	12.526	1.00	53.33	O0
HETATM16569	O	HOH C 501	-37.871	31.011	25.100	1.00	51.70	O0
HETATM16570	O	HOH C 502	-43.921	18.413	18.336	1.00	49.09	O0
HETATM16571	O	HOH C 503	-50.594	7.487	-7.898	1.00	45.17	O0
HETATM16572	O	HOH C 504	-42.407	27.071	4.146	1.00	59.23	O0
HETATM16573	O	HOH C 505	-47.428	18.637	6.565	1.00	57.13	O0
HETATM16574	O	HOH C 506	-48.866	2.669	26.243	1.00	45.39	O0
HETATM16575	O	HOH C 507	-53.215	18.536	34.204	1.00	49.06	O0
HETATM16576	O	HOH C 508	-41.181	28.058	20.336	1.00	48.03	O0
HETATM16577	O	HOH C 509	-43.291	4.895	40.272	1.00	43.87	O0
HETATM16578	O	HOH C 510	-31.126	19.013	43.849	1.00	44.93	O0
HETATM16579	O	HOH C 511	-40.810	17.567	19.253	1.00	50.31	O0
HETATM16580	O	HOH C 512	-29.570	12.143	39.234	1.00	47.72	O0
HETATM16581	O	HOH C 513	-48.401	19.333	9.520	1.00	49.24	O0
HETATM16582	O	HOH C 514	-30.471	16.129	39.609	1.00	44.96	O0
HETATM16583	O	HOH C 515	-46.089	28.940	34.239	1.00	43.34	O0
HETATM16584	O	HOH C 516	-51.843	27.351	13.496	1.00	51.73	O0
HETATM16585	O	HOH C 517	-60.611	15.603	26.656	1.00	55.12	O0
HETATM16586	O	HOH C 518	-32.450	18.524	39.123	1.00	46.18	O0
HETATM16587	O	HOH C 519	-40.426	26.629	42.892	1.00	52.58	O0
HETATM16588	O	HOH C 520	-42.621	36.946	20.212	1.00	47.97	O0
HETATM16589	O	HOH C 521	-33.008	11.137	40.793	1.00	47.05	O0
HETATM16590	O	HOH C 522	-59.162	7.390	-5.985	1.00	42.47	O0
HETATM16591	O	HOH C 523	-60.594	23.253	13.016	1.00	47.26	O0
HETATM16592	O	HOH C 524	-61.733	9.583	9.357	1.00	41.42	O0
HETATM16593	O	HOH C 525	-50.657	5.392	45.396	1.00	52.30	O0
HETATM16594	O	HOH C 526	-36.018	19.575	46.782	1.00	37.19	O0
HETATM16595	O	HOH C 527	-30.345	18.311	47.530	1.00	48.78	O0
HETATM16596	O	HOH C 528	-56.503	8.465	-4.141	1.00	45.43	O0
HETATM16597	O	HOH C 529	-36.939	28.997	7.901	1.00	50.56	O0
HETATM16598	O	HOH C 530	-38.342	34.550	5.344	1.00	57.79	O0

HETATM16599	O	HOH C 531	-41.086	23.679	44.856	1.00	49.20	OO
HETATM16600	O	HOH C 532	-39.537	11.005	47.318	1.00	37.99	OO
HETATM16601	O	HOH C 533	-48.918	14.139	-7.098	1.00	50.08	OO
HETATM16602	O	HOH C 534	-47.656	16.611	51.482	1.00	50.90	OO
HETATM16603	O	HOH C 535	-39.936	19.712	12.893	1.00	38.62	OO
HETATM16604	O	HOH C 536	-57.404	12.354	40.482	1.00	56.10	OO
HETATM16605	O	HOH C 537	-48.875	2.710	22.131	1.00	41.09	OO
HETATM16606	O	HOH C 538	-40.023	11.584	51.138	1.00	43.92	OO
HETATM16607	O	HOH C 539	-54.150	5.291	36.852	1.00	34.83	OO
HETATM16608	O	HOH C 540	-48.720	9.179	49.021	1.00	39.06	OO
HETATM16609	O	HOH C 541	-50.996	7.344	29.050	1.00	46.86	OO
HETATM16610	O	HOH C 542	-58.053	17.471	26.528	1.00	51.38	OO
HETATM16611	O	HOH C 543	-45.818	7.884	6.847	1.00	48.17	OO
HETATM16612	O	HOH C 544	-32.137	31.722	14.747	1.00	58.54	OO
HETATM16613	O	HOH C 545	-41.612	16.141	25.637	1.00	42.67	OO
HETATM16614	O	HOH C 546	-34.751	23.192	44.895	1.00	50.43	OO
HETATM16615	O	HOH C 547	-32.419	34.916	20.652	1.00	59.84	OO
HETATM16616	O	HOH C 548	-55.436	9.061	35.134	1.00	44.54	OO
HETATM16617	O	HOH C 549	-59.358	5.884	38.169	1.00	48.66	OO
HETATM16618	O	HOH C 550	-37.599	17.371	9.616	1.00	51.04	OO
HETATM16619	O	HOH C 551	-41.729	17.008	10.853	1.00	47.01	OO
HETATM16620	O	HOH C 552	-35.289	39.902	19.002	1.00	52.80	OO
HETATM16621	O	HOH C 553	-60.741	20.467	15.787	1.00	63.36	OO
HETATM16622	O	HOH C 554	-58.803	10.952	36.958	1.00	57.52	OO
HETATM16623	O	HOH C 555	-54.805	15.609	41.901	1.00	41.60	OO
HETATM16624	O	HOH C 556	-56.829	26.062	9.616	1.00	60.24	OO
HETATM16625	O	HOH C 557	-45.607	5.275	20.487	1.00	52.13	OO
HETATM16626	O	HOH C 558	-64.654	21.427	3.510	1.00	61.19	OO
HETATM16627	O	HOH C 559	-48.737	6.353	40.015	1.00	48.27	OO
HETATM16628	O	HOH C 560	-53.734	11.011	42.924	1.00	38.54	OO
HETATM16629	O	HOH C 561	-40.314	30.415	18.867	1.00	46.73	OO
HETATM16630	O	HOH C 562	-52.999	22.321	22.275	1.00	40.30	OO
HETATM16631	O	HOH C 563	-49.015	33.883	29.019	1.00	51.61	OO
HETATM16632	O	HOH C 564	-54.527	6.149	0.192	1.00	51.79	OO
HETATM16633	O	HOH C 565	-30.190	9.483	20.911	1.00	54.90	OO
HETATM16634	O	HOH C 566	-42.655	14.269	10.803	1.00	49.11	OO
HETATM16635	O	HOH C 567	-32.134	19.514	30.248	1.00	42.43	OO
HETATM16636	O	HOH C 568	-42.220	12.456	48.277	1.00	37.69	OO
HETATM16637	O	HOH C 569	-31.344	10.530	45.873	1.00	51.95	OO
HETATM16638	O	HOH C 570	-55.616	30.517	25.058	1.00	52.23	OO
HETATM16639	O	HOH C 571	-52.761	6.831	46.249	1.00	51.05	OO
HETATM16640	O	HOH C 572	-52.607	27.654	17.296	1.00	48.21	OO
HETATM16641	O	HOH C 573	-48.982	9.635	20.058	1.00	37.84	OO
HETATM16642	O	HOH C 574	-55.472	15.884	34.307	1.00	43.16	OO
HETATM16643	O	HOH C 575	-62.279	13.934	16.306	1.00	61.60	OO
HETATM16644	O	HOH C 576	-46.755	7.825	42.524	1.00	34.69	OO
HETATM16645	O	HOH C 577	-57.958	8.003	38.387	1.00	52.40	OO
HETATM16646	O	HOH C 578	-34.420	11.880	48.097	1.00	37.33	OO
HETATM16647	O	HOH C 579	-56.016	16.434	1.572	1.00	55.14	OO
HETATM16648	O	HOH C 580	-39.146	24.285	38.715	1.00	37.92	OO
HETATM16649	O	HOH C 581	-37.769	24.538	36.485	1.00	49.65	OO
HETATM16650	O	HOH C 582	-39.137	21.965	11.235	1.00	38.09	OO
HETATM16651	O	HOH C 583	-40.409	17.285	3.469	1.00	43.54	OO
HETATM16652	O	HOH C 584	-63.979	17.516	16.290	1.00	41.98	OO

HETATM16653	O	HOH C 585	-39.084	16.648	22.288	1.00	41.48	O0
HETATM16654	O	HOH C 586	-38.107	22.157	8.704	1.00	52.56	O0
HETATM16655	O	HOH C 587	-49.459	26.551	39.465	1.00	51.51	O0
HETATM16656	O	HOH C 588	-26.995	37.361	18.178	1.00	59.95	O0
HETATM16657	O	HOH C 589	-57.513	6.555	45.069	1.00	57.04	O0
HETATM16658	O	HOH C 590	-59.400	8.370	9.757	1.00	41.23	O0
HETATM16659	O	HOH C 591	-53.330	13.013	18.093	1.00	39.13	O0
HETATM16660	O	HOH C 592	-51.168	6.521	34.400	1.00	35.81	O0
HETATM16661	O	HOH C 593	-53.009	28.505	32.606	1.00	56.39	O0
HETATM16662	O	HOH C 594	-57.093	19.547	28.014	1.00	68.04	O0
HETATM16663	O	HOH C 595	-40.483	25.292	48.370	1.00	57.52	O0
HETATM16664	O	HOH C 596	-46.367	7.609	12.499	1.00	44.49	O0
HETATM16665	O	HOH C 597	-38.785	8.624	29.714	1.00	56.93	O0
HETATM16666	O	HOH C 598	-43.878	6.055	48.799	1.00	49.13	O0
HETATM16667	O	HOH C 599	-38.816	17.049	24.900	1.00	40.10	O0
HETATM16668	O	HOH C 600	-50.776	27.000	6.817	1.00	61.74	O0
HETATM16669	O	HOH C 601	-33.772	33.495	10.416	1.00	62.11	O0
HETATM16670	O	HOH C 602	-40.782	7.063	22.410	1.00	42.28	O0
HETATM16671	O	HOH C 603	-38.803	18.558	49.226	1.00	47.28	O0
HETATM16672	O	HOH C 604	-61.363	5.013	1.820	1.00	47.89	O0
HETATM16673	O	HOH C 605	-45.945	12.866	3.304	1.00	55.81	O0
HETATM16674	O	HOH C 606	-51.418	11.441	19.368	1.00	41.72	O0
HETATM16675	O	HOH C 607	-56.292	5.870	9.738	1.00	50.86	O0
HETATM16676	O	HOH C 608	-47.386	4.087	16.299	1.00	42.92	O0
HETATM16677	O	HOH C 609	-51.241	7.095	-0.096	1.00	57.95	O0
HETATM16678	O	HOH C 610	-37.743	39.297	23.349	1.00	57.17	O0
HETATM16679	O	HOH C 611	-55.278	5.711	46.093	1.00	53.55	O0
HETATM16680	O	HOH C 612	-64.604	18.806	11.405	1.00	53.28	O0
HETATM16681	O	HOH C 613	-41.466	15.498	22.921	1.00	53.52	O0
HETATM16682	O	HOH C 614	-49.275	7.892	-1.941	1.00	56.78	O0
HETATM16683	O	HOH C 615	-43.700	8.560	5.287	1.00	53.86	O0
HETATM16684	O	HOH C 616	-36.233	25.321	32.332	1.00	54.84	O0
HETATM16685	O	HOH C 617	-35.330	24.553	35.282	1.00	45.55	O0
HETATM16686	O	HOH C 618	-55.385	13.066	42.759	1.00	46.35	O0
HETATM16687	O	HOH C 619	-54.028	6.507	34.570	1.00	36.81	O0
HETATM16688	O	HOH C 620	-41.307	12.378	21.167	1.00	51.19	O0
HETATM16689	O	HOH D 501	-33.308	13.466	5.299	1.00	47.77	O0
HETATM16690	O	HOH D 502	-24.082	18.318	3.312	1.00	45.16	O0
HETATM16691	O	HOH D 503	-3.546	19.518	13.665	1.00	47.36	O0
HETATM16692	O	HOH D 504	-11.117	15.847	15.118	1.00	47.58	O0
HETATM16693	O	HOH D 505	-28.033	8.902	28.961	1.00	47.23	O0
HETATM16694	O	HOH D 506	-16.211	26.589	12.077	1.00	46.87	O0
HETATM16695	O	HOH D 507	-21.307	12.227	16.101	1.00	41.75	O0
HETATM16696	O	HOH D 508	-9.170	24.782	10.003	1.00	57.37	O0
HETATM16697	O	HOH D 509	-28.042	31.902	23.575	1.00	51.24	O0
HETATM16698	O	HOH D 510	-22.888	19.652	5.991	1.00	40.45	O0
HETATM16699	O	HOH D 511	-14.094	5.747	35.332	1.00	42.03	O0
HETATM16700	O	HOH D 512	-16.111	25.365	8.374	1.00	45.65	O0
HETATM16701	O	HOH D 513	-21.633	15.817	14.940	1.00	55.34	O0
HETATM16702	O	HOH D 514	-2.113	9.951	14.427	1.00	63.57	O0
HETATM16703	O	HOH D 515	-21.477	25.889	30.312	1.00	43.10	O0
HETATM16704	O	HOH D 516	-33.823	13.393	19.219	1.00	51.65	O0
HETATM16705	O	HOH D 517	-6.122	21.158	10.875	1.00	47.08	O0
HETATM16706	O	HOH D 518	-30.758	17.883	18.179	1.00	43.67	O0

HETATM16707	O	HOH D 519	-23.030	5.793	39.994	1.00	64.59	O0
HETATM16708	O	HOH D 520	-39.162	26.601	39.949	1.00	48.64	O0
HETATM16709	O	HOH D 521	-6.789	14.041	19.430	1.00	49.79	O0
HETATM16710	O	HOH D 522	-21.122	13.399	22.591	1.00	43.32	O0
HETATM16711	O	HOH D 523	-10.641	29.003	18.655	1.00	51.03	O0
HETATM16712	O	HOH D 524	-26.759	8.920	19.833	1.00	52.63	O0
HETATM16713	O	HOH D 525	-9.521	21.795	29.035	1.00	53.43	O0
HETATM16714	O	HOH D 526	-24.354	26.894	31.309	1.00	58.98	O0
HETATM16715	O	HOH D 527	-9.632	19.100	43.672	1.00	60.70	O0
HETATM16716	O	HOH D 528	-17.596	11.587	7.333	1.00	36.33	O0
HETATM16717	O	HOH D 529	-19.550	12.107	9.191	1.00	41.81	O0
HETATM16718	O	HOH D 530	-23.366	12.585	7.743	1.00	44.04	O0
HETATM16719	O	HOH D 531	-10.332	25.032	6.869	1.00	60.75	O0
HETATM16720	O	HOH D 532	-26.974	24.278	40.630	1.00	43.98	O0
HETATM16721	O	HOH D 533	-8.055	25.130	13.176	1.00	55.71	O0
HETATM16722	O	HOH D 534	-34.506	37.939	1.616	1.00	75.04	O0
HETATM16723	O	HOH D 535	-14.421	5.497	26.581	1.00	51.52	O0
HETATM16724	O	HOH D 536	-17.573	31.911	34.148	1.00	57.34	O0
HETATM16725	O	HOH D 537	-25.820	12.965	8.415	1.00	50.84	O0
HETATM16726	O	HOH D 538	-12.222	24.481	34.220	1.00	52.74	O0
HETATM16727	O	HOH D 539	-33.640	22.498	35.526	1.00	38.92	O0
HETATM16728	O	HOH D 540	-11.197	16.103	39.768	1.00	52.70	O0
HETATM16729	O	HOH D 541	-9.285	15.764	13.215	1.00	44.57	O0
HETATM16730	O	HOH D 542	-8.390	15.425	34.708	1.00	61.55	O0
HETATM16731	O	HOH D 543	-36.959	26.324	8.333	1.00	45.04	O0
HETATM16732	O	HOH D 544	-12.712	23.164	3.605	1.00	65.80	O0
HETATM16733	O	HOH D 545	-14.850	14.997	47.184	1.00	59.91	O0
HETATM16734	O	HOH D 546	-20.922	10.819	19.164	1.00	43.86	O0
HETATM16735	O	HOH D 547	-29.359	29.062	34.376	1.00	52.25	O0
HETATM16736	O	HOH D 548	-10.892	12.558	31.671	1.00	57.29	O0
HETATM16737	O	HOH D 549	-35.843	21.814	5.439	1.00	53.29	O0
HETATM16738	O	HOH D 550	-29.711	15.102	1.247	1.00	54.40	O0
HETATM16739	O	HOH D 551	-36.775	15.622	21.220	1.00	49.30	O0
HETATM16740	O	HOH D 552	-31.003	24.776	32.939	1.00	46.60	O0
HETATM16741	O	HOH D 553	-14.284	24.669	6.511	1.00	43.00	O0
HETATM16742	O	HOH D 554	-23.516	26.760	38.589	1.00	52.73	O0
HETATM16743	O	HOH D 555	-10.907	14.147	33.893	1.00	51.86	O0
HETATM16744	O	HOH D 556	-19.892	10.771	21.809	1.00	38.73	O0
HETATM16745	O	HOH D 557	-31.682	19.908	32.915	1.00	45.93	O0
HETATM16746	O	HOH D 558	-25.322	18.814	46.974	1.00	46.06	O0
HETATM16747	O	HOH D 559	-34.511	7.600	28.752	1.00	60.08	O0
HETATM16748	O	HOH D 560	-19.910	26.041	17.960	1.00	42.65	O0
HETATM16749	O	HOH D 561	-12.211	31.060	24.096	1.00	61.37	O0
HETATM16750	O	HOH D 562	-29.319	23.032	15.587	1.00	47.15	O0
HETATM16751	O	HOH D 563	-27.964	16.608	40.648	1.00	57.15	O0
HETATM16752	O	HOH D 564	-35.770	14.315	15.778	1.00	38.72	O0
HETATM16753	O	HOH D 565	-29.708	20.625	17.090	1.00	45.41	O0
HETATM16754	O	HOH D 566	-23.244	10.833	0.079	1.00	66.54	O0
HETATM16755	O	HOH D 567	-32.926	13.925	11.283	1.00	45.52	O0
HETATM16756	O	HOH D 568	-15.894	11.827	2.444	1.00	40.08	O0
HETATM16757	O	HOH D 569	-32.826	26.606	36.529	1.00	55.09	O0
HETATM16758	O	HOH D 570	-22.421	12.978	19.893	1.00	46.47	O0
HETATM16759	O	HOH D 571	-32.347	22.543	33.139	1.00	44.80	O0
HETATM16760	O	HOH D 572	-9.166	17.215	46.249	1.00	56.98	O0

HETATM16761	O	HOH D 573	-25.755	26.653	40.082	1.00	54.20	O0
HETATM16762	O	HOH E 501	-29.932	-7.250	3.111	1.00	48.47	O0
HETATM16763	O	HOH E 502	-20.475	-15.906	34.254	1.00	40.37	O0
HETATM16764	O	HOH E 503	-22.925	-15.893	25.492	1.00	36.72	O0
HETATM16765	O	HOH E 504	-23.733	-15.196	35.865	1.00	58.72	O0
HETATM16766	O	HOH E 505	-22.564	-6.819	5.831	1.00	45.19	O0
HETATM16767	O	HOH E 506	-21.369	8.270	18.731	1.00	41.04	O0
HETATM16768	O	HOH E 507	-22.987	4.488	17.160	1.00	48.33	O0
HETATM16769	O	HOH E 508	-16.513	-4.652	2.870	1.00	49.38	O0
HETATM16770	O	HOH E 509	-8.057	-23.166	10.245	1.00	57.13	O0
HETATM16771	O	HOH E 510	-20.883	-5.010	-7.698	1.00	49.10	O0
HETATM16772	O	HOH E 511	-6.947	-15.571	3.031	1.00	52.85	O0
HETATM16773	O	HOH E 512	-24.591	-1.674	-3.563	1.00	58.00	O0
HETATM16774	O	HOH E 513	-21.688	-12.750	5.316	1.00	39.75	O0
HETATM16775	O	HOH E 514	-25.873	-9.894	5.370	1.00	50.71	O0
HETATM16776	O	HOH E 515	-6.835	2.586	35.687	1.00	52.68	O0
HETATM16777	O	HOH E 516	-6.519	-9.034	7.823	1.00	49.61	O0
HETATM16778	O	HOH E 517	-21.571	-10.431	7.534	1.00	44.66	O0
HETATM16779	O	HOH E 518	-5.466	-15.301	25.125	1.00	46.64	O0
HETATM16780	O	HOH E 519	-24.037	-9.926	37.488	1.00	62.65	O0
HETATM16781	O	HOH E 520	-7.213	-13.478	9.361	1.00	49.83	O0
HETATM16782	O	HOH E 521	-18.344	2.856	15.178	1.00	42.59	O0
HETATM16783	O	HOH E 522	-18.832	-5.973	-1.839	1.00	60.66	O0
HETATM16784	O	HOH E 523	-8.508	-9.206	4.140	1.00	45.59	O0
HETATM16785	O	HOH E 524	-5.302	-3.120	24.907	1.00	74.90	O0
HETATM16786	O	HOH E 525	-18.154	-4.048	0.817	1.00	46.28	O0
HETATM16787	O	HOH E 526	-8.650	-11.463	2.700	1.00	46.54	O0
HETATM16788	O	HOH E 527	-10.745	-11.248	44.287	1.00	58.79	O0
HETATM16789	O	HOH E 528	-3.887	0.156	33.961	1.00	56.01	O0
HETATM16790	O	HOH E 529	-9.849	0.615	43.059	1.00	57.56	O0
HETATM16791	O	HOH E 530	-5.987	0.557	25.675	1.00	49.66	O0
HETATM16792	O	HOH E 531	-14.441	1.153	37.197	1.00	50.17	O0
HETATM16793	O	HOH E 532	-13.943	-18.949	10.623	1.00	44.40	O0
HETATM16794	O	HOH E 533	-25.436	-3.151	5.713	1.00	57.78	O0
HETATM16795	O	HOH E 534	-3.249	-11.777	29.848	1.00	56.09	O0
HETATM16796	O	HOH E 535	-1.040	-1.286	34.868	1.00	60.97	O0
HETATM16797	O	HOH E 536	-5.228	1.279	-5.165	1.00	56.61	O0
HETATM16798	O	HOH E 537	-20.407	-8.049	14.068	1.00	54.45	O0
HETATM16799	O	HOH E 538	-22.970	-3.856	6.873	1.00	53.57	O0
HETATM16800	O	HOH E 539	-17.848	-14.061	-3.201	1.00	52.39	O0
HETATM16801	O	HOH E 540	-18.700	-7.415	20.192	1.00	42.36	O0
HETATM16802	O	HOH E 541	-13.889	-16.934	29.458	1.00	52.87	O0
HETATM16803	O	HOH E 542	-23.531	-0.194	-0.725	1.00	70.34	O0
HETATM16804	O	HOH E 543	-9.572	-15.073	36.965	1.00	50.83	O0
HETATM16805	O	HOH E 544	-20.248	-6.897	36.074	1.00	54.44	O0
HETATM16806	O	HOH E 545	-20.824	-9.967	20.090	1.00	36.24	O0
HETATM16807	O	HOH E 546	-19.320	-24.462	2.867	1.00	45.88	O0
HETATM16808	O	HOH E 547	-22.491	-18.079	21.932	1.00	45.73	O0
HETATM16809	O	HOH E 548	-23.877	-3.153	26.678	1.00	56.88	O0
HETATM16810	O	HOH E 549	-32.744	-8.515	19.766	1.00	46.41	O0
HETATM16811	O	HOH E 550	-21.430	-9.139	17.666	1.00	46.87	O0
HETATM16812	O	HOH E 551	-23.408	3.163	8.858	1.00	40.99	O0
HETATM16813	O	HOH E 552	-14.745	-18.769	38.632	1.00	54.57	O0
HETATM16814	O	HOH E 553	-25.362	-7.535	-1.166	1.00	38.92	O0

HETATM16815	O	HOH E 554	-18.177	0.726	43.728	1.00	62.33	O0
HETATM16816	O	HOH E 555	-13.786	10.927	3.642	1.00	50.41	O0
HETATM16817	O	HOH E 556	-24.801	1.076	10.453	1.00	52.42	O0
HETATM16818	O	HOH E 557	-25.489	-0.247	19.350	1.00	43.77	O0
HETATM16819	O	HOH E 558	-21.530	-5.547	41.411	1.00	61.07	O0
HETATM16820	O	HOH E 559	-17.797	-7.912	43.006	1.00	55.83	O0
HETATM16821	O	HOH E 560	-22.118	-8.320	11.811	1.00	47.05	O0
HETATM16822	O	HOH E 561	-16.042	-18.168	28.897	1.00	53.13	O0
HETATM16823	O	HOH E 562	-6.721	-3.750	-5.647	1.00	67.19	O0
HETATM16824	O	HOH E 563	-19.931	-6.807	17.750	1.00	54.27	O0
HETATM16825	O	HOH E 564	-26.746	-8.625	7.523	1.00	45.89	O0

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