

Human Cellular Retinaldehyde-Binding Protein Has Secondary Thermal 9-*cis*-Retinal Isomerase Activity - Supplementary Information

Christin S. Bolze^{1,2}, Rachel E. Helbling¹, Robin L. Owen³, Arwen R. Pearson⁴, Guillaume Pompidor^{5,1}, Florian Dworkowski⁵, Martin R. Fuchs^{5,ii}, Julien Furrer¹, Marcin Golczak⁶, Krzysztof Palczewski⁶, Michele Cascella^{1*} and Achim Stocker^{1*}

1. Department of Chemistry and Biochemistry, University of Bern, Freiestrasse 3, 3012 Bern, Switzerland
2. Graduate School for Cellular and Biomedical Sciences, University of Bern, Switzerland
3. Diamond Light Source, Harwell Science and Innovation Campus, Didcot, OX11 0DE, United Kingdom
4. Astbury Centre for Structural Molecular Biology, University of Leeds, Leeds, LS2 9JT, United Kingdom
5. Swiss Light Source, Paul Scherrer Institut, 5232 Villigen PSI, Switzerland
6. Department of Pharmacology, School of Medicine, Case Western Reserve University, 2109 Adelbert Rd, Cleveland, OH 44106-4965, USA

E-mail: achim.stocker@ibc.unibe.ch, michele.cascella@iac.unibe.ch

ⁱ Present address: EMBL Hamburg c/o DESY, Building 25A, Notkestraße 85, 22603 Hamburg, Germany.

ⁱⁱ Present address: Brookhaven National Lab PO Box 5000 Upton, NY 11973-5000, USA.

Table S1: Data collection and refinement statistics for R234W:9-*cis*-retinal and WT CRALBP:9-*cis*-retinal

Structural data	R234W:9-<i>cis</i>-retinal	WT CRALBP:9-<i>cis</i>-retinal
Beam line	PSI PX III	PSI PX III
Wavelength (Å)	1.00	1.00
Resolution (Å)	50.0-1.9 (2.01-1.90)*	50.0-3.4 (3.61-3.40)*
Cell dimension		
Space group	5, C2	179, P6 ₅ 22
Unit cell (Å)	$a = 87.9, b = 57.9, c = 75.2;$ $\alpha = \gamma = 90^\circ; \beta = 122.9^\circ;$	$a = 70.6, b = 70.6, c = 299.8;$ $\alpha = 90^\circ, \beta = 90^\circ, \gamma = 120^\circ;$
Measured reflection / unique	116260/ 25014	87901 / 6770
Average multiplicity	4.6 (4.5)	13.0 (12.7)
Completeness (%)	98.4 (92.9)	99.6 (98.5)
Average $I / \sigma(I)$	18.48 (4.12)	22.68 (2.74)
R_{merge} (%)	8.7 (41.3)	10.3 (64.9)
Wilson B-factor	30.5	102.7
Refinement		
Resolution range (Å)	44.75-1.90	47.36-3.40
R_{work} (%)	16.51	23.40
R_{free} (%)	19.75	26.49
Average Biso (Å ²)		
All atoms	31.5	170.9
Protein atoms	29.74	171
Ligand atoms	31.99	133.4
Solvent atoms	43.18	112.5
RMSD from ideality angles (°)	0.841	0.57
Bonds (Å)	0.005	0.003
Water molecules	308	4
Ligand molecules	1	2
Protein Data Bank deposition code	4cj6	4ciz

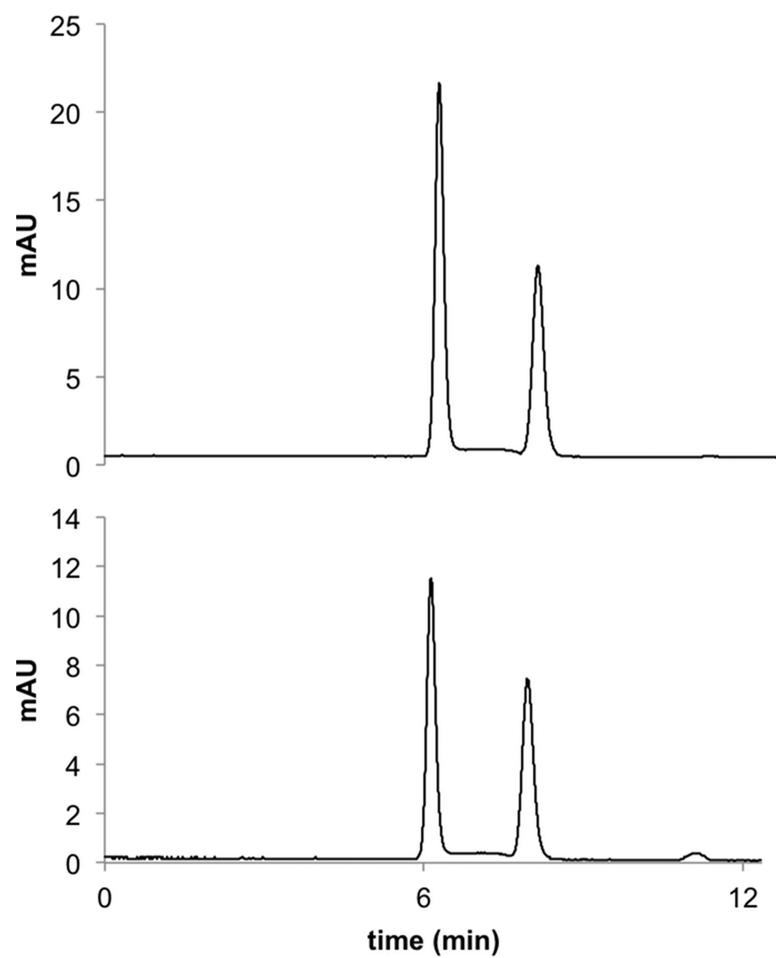


Figure S1: HPLC traces of retinoid extracts of R234W:9-*cis*-retinal freshly prepared (top), and after 48 h incubation at 37°C (bottom).

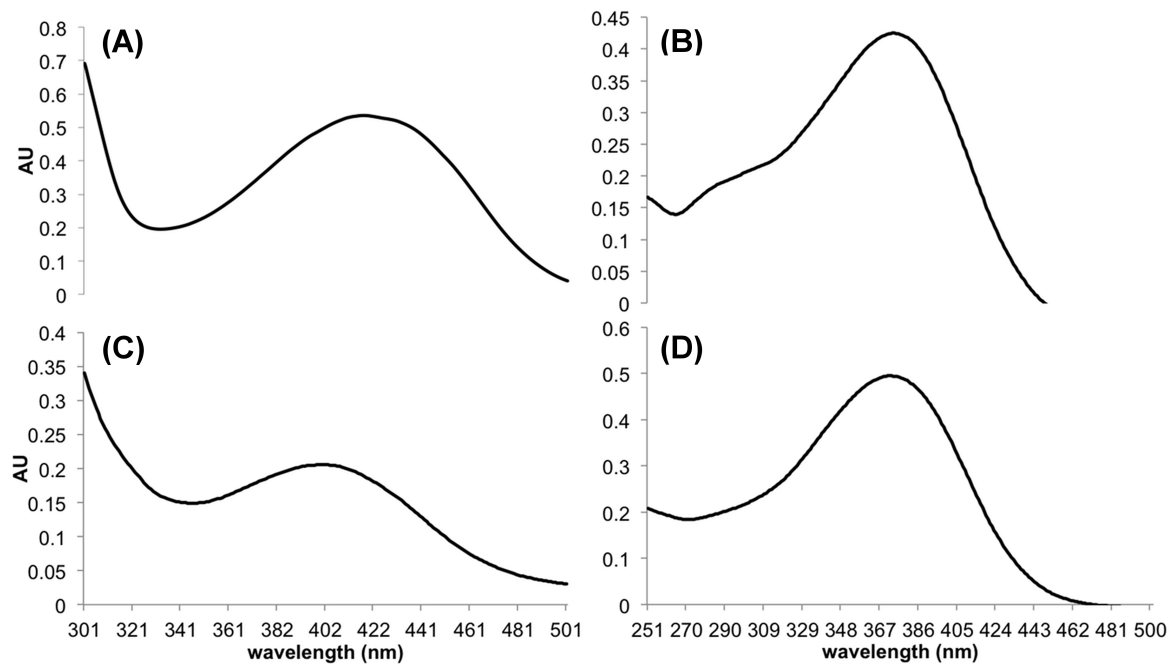


Figure S2: UV/VIS spectra of protein-ligand complexes in buffer and free ligands dissolved in pure ethanol. **(A)** Freshly prepared WT CRALBP:9-*cis*-retinal complex containing ~15% of 9,13-*dicis*-retinal (determined by HPLC). The complex has an absorption maximum at 415 nm. **(B)** Spectrum of free retinoids extracted from freshly prepared WT CRALBP:9-*cis*-retinal. Free 9-*cis*-retinal has an absorption maximum of 373 nm. **(C)** WT CRALBP:9-*cis*-retinal complex after incubation for 21 h at 37° containing ~85% of 9,13-*dicis*-retinal. The absorption maximum of the complex is at 400 nm. **(D)** Spectrum of free 9,13-*dicis*-retinal dissolved in pure ethanol has an absorption maximum at 368 nm.

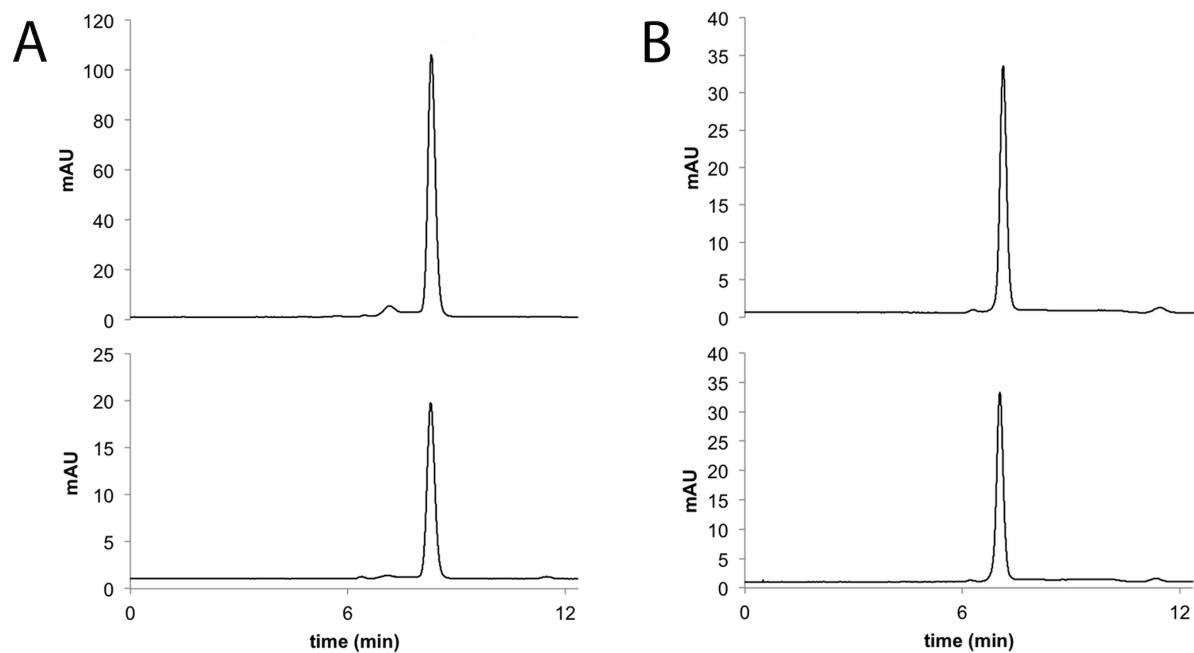


Figure S3. Negative controls for the isomerization reaction. A) HPLC traces of retinoid extracts of free 9-*cis*-retinal dissolved in buffer containing 2% ethanol (top) and after 24 h incubation at 37°C (bottom). B) HPLC traces of retinoid extracts of CRALBP:11-*cis*-retinal freshly prepared (top) and after 48 h incubation at 37°C (bottom).

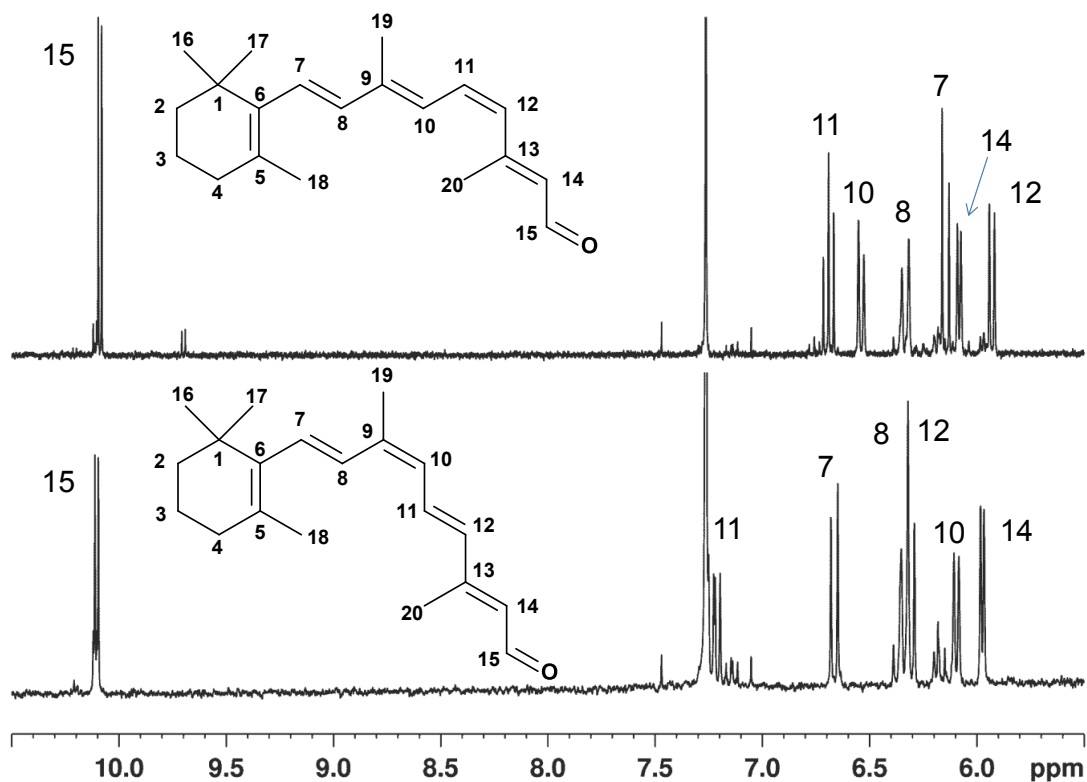


Figure S4: Low field portion of the 500 MHz ¹H-NMR spectra of 9-*cis*retinal (bottom) and 11-*cis*retinal (top) dissolved in CDCl₃. Attribution of the six vinyl protons 7, 8, 10, 11, 12, and 14, as well as aldehyde proton 15 is indicated in the spectra, according to the numbering shown in the structures.

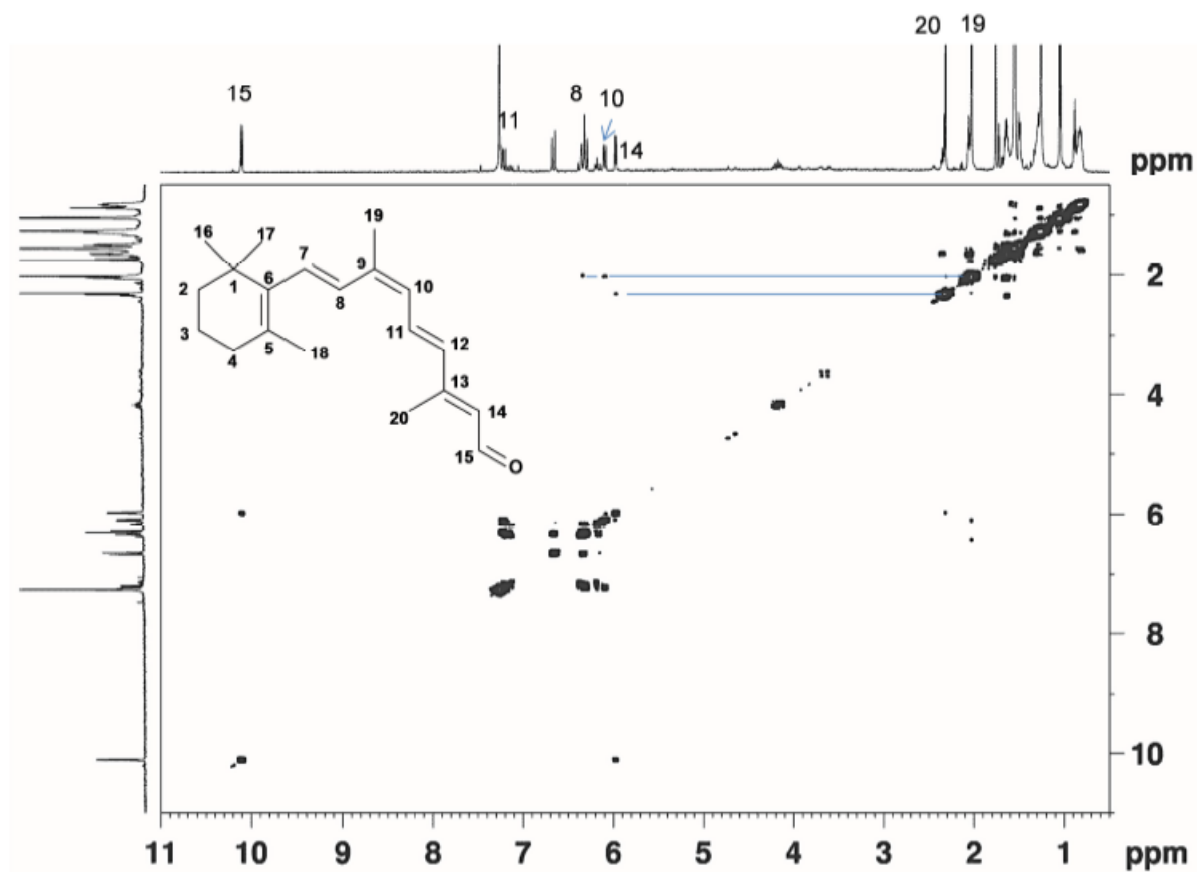


Figure S5: 500 MHz 2D ^1H - ^1H COSY NMR spectrum of 9-cis retinal dissolved in CDCl_3 . A partial attribution is indicated, with the decisive cross peaks for the final attribution showing the $^4J_{\text{HH}}$ couplings between H-14 and CH_3 -20, and between H-10, H-8 and CH_3 -19, respectively, indicated by blue lines.

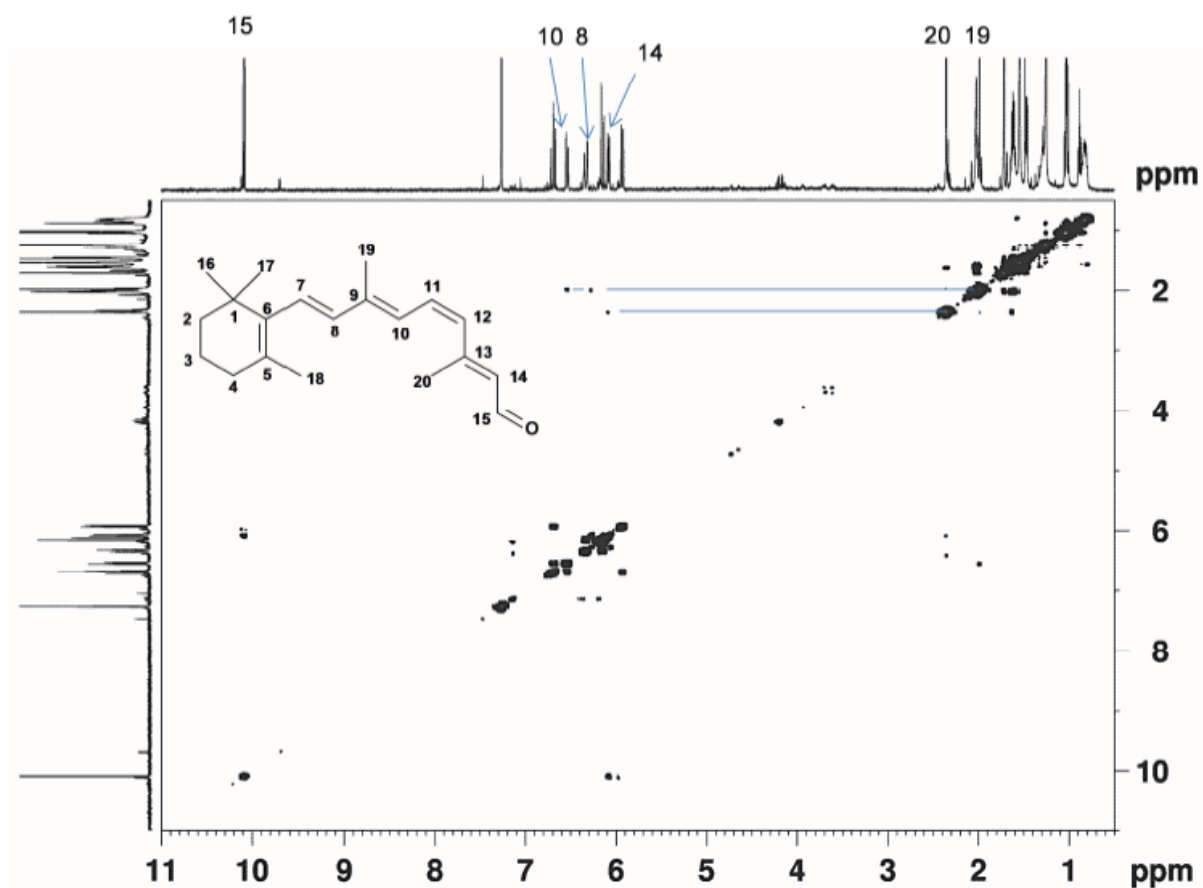


Figure S6: 500 MHz 2D ^1H - ^1H COSY NMR spectrum of 11-cis retinal dissolved in CDCl_3 . A partial attribution is indicated, with the decisive cross peaks for the final attribution showing the $^4J_{\text{HH}}$ couplings between H-14 and CH_3 -20, and between H-10, H-8 and CH_3 -19, respectively, indicated by blue lines.

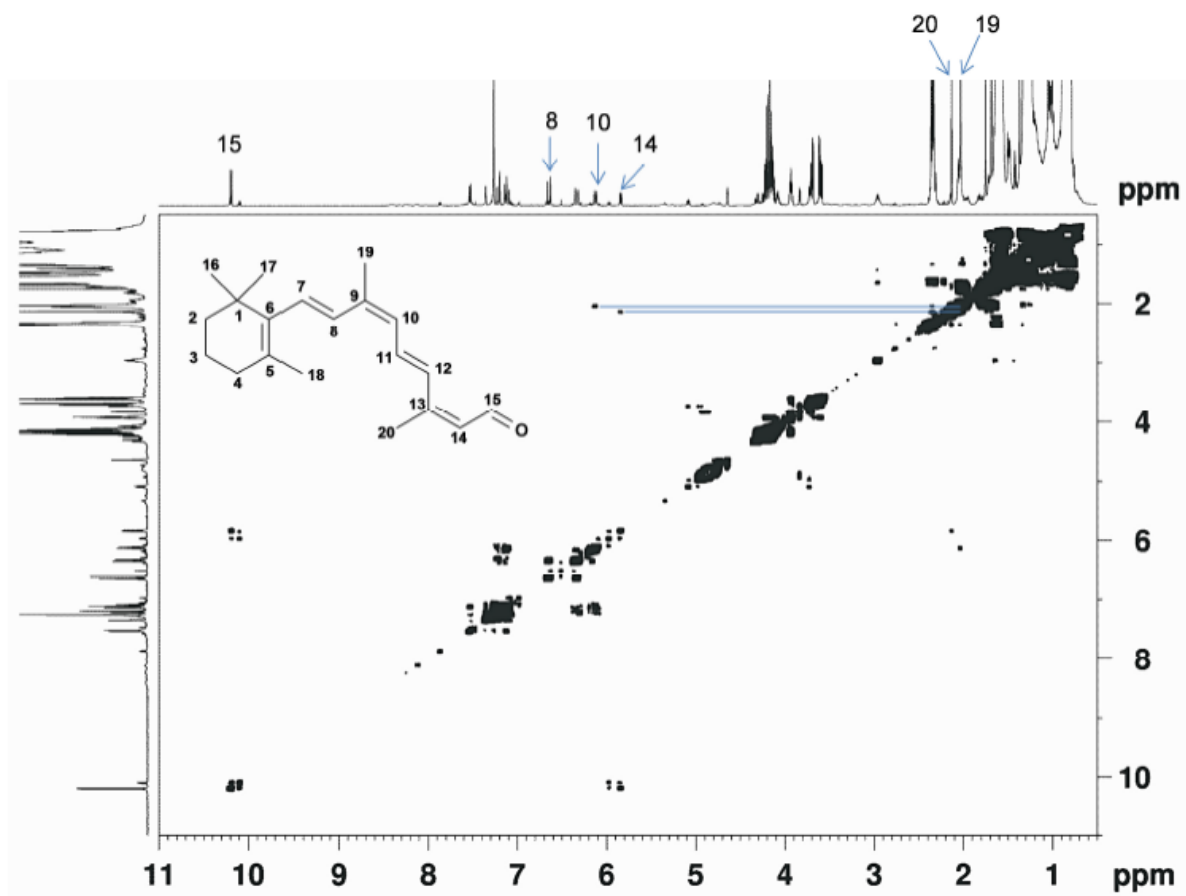


Figure S7: 500 MHz 2D ^1H - ^1H COSY NMR spectrum of 9,13-dicis retinal dissolved in CDCl_3 . A partial attribution is indicated, with the decisive cross peaks for the final attribution showing the $^4J_{\text{HH}}$ couplings between H-14 and CH_3 -20, and between H-10, H-8 and CH_3 -19, respectively, indicated by blue lines.

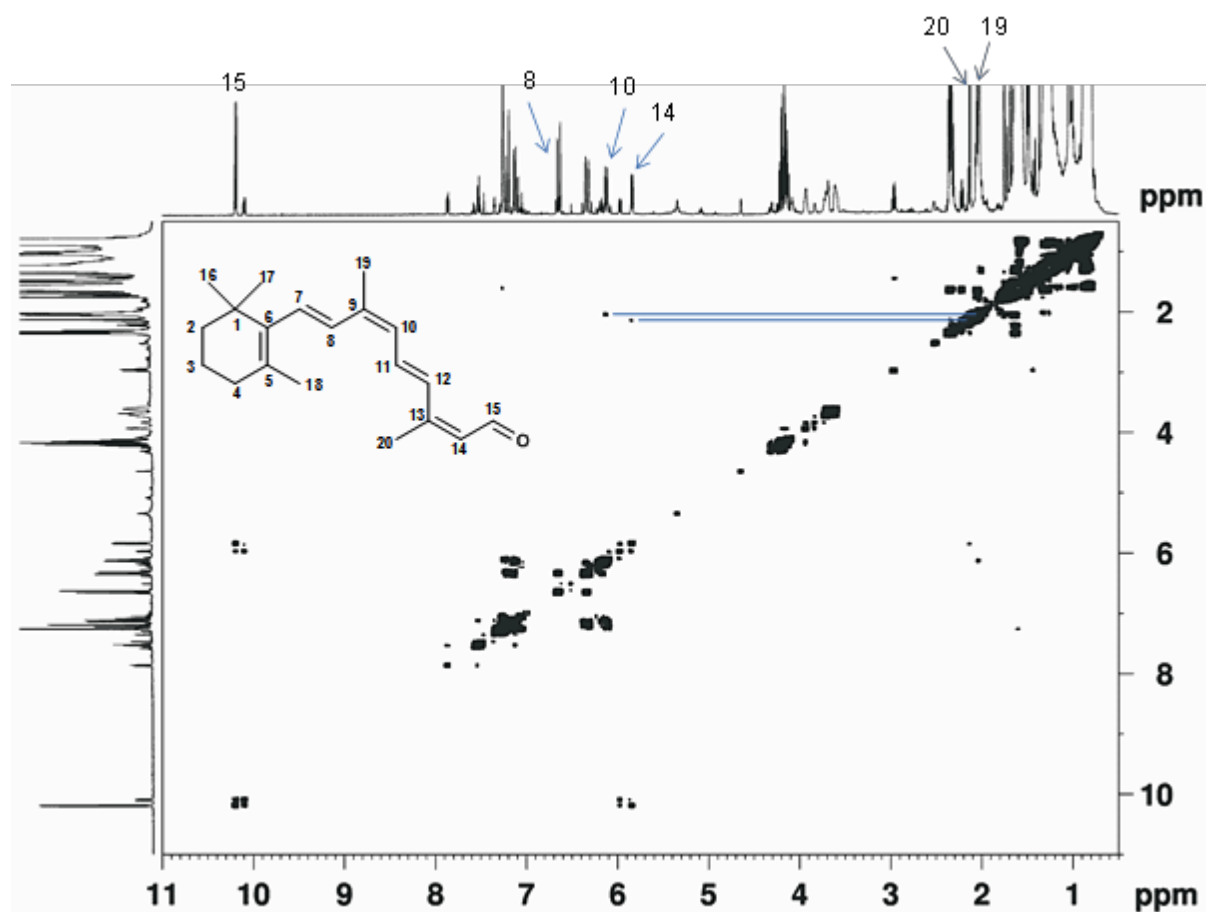


Figure S8: 500 MHz 2D ^1H - ^1H COSY NMR spectrum of 9,13-*dicis*-retinal first treated in CRALBP with D_2O buffer and subsequently dissolved in CDCl_3 . A partial attribution is indicated, with the decisive cross peaks for the final attribution showing the $^4J_{\text{HH}}$ couplings between H-14 and CH_3 -20, and between H-10, H-8 and CH_3 -19, respectively, indicated by blue lines.

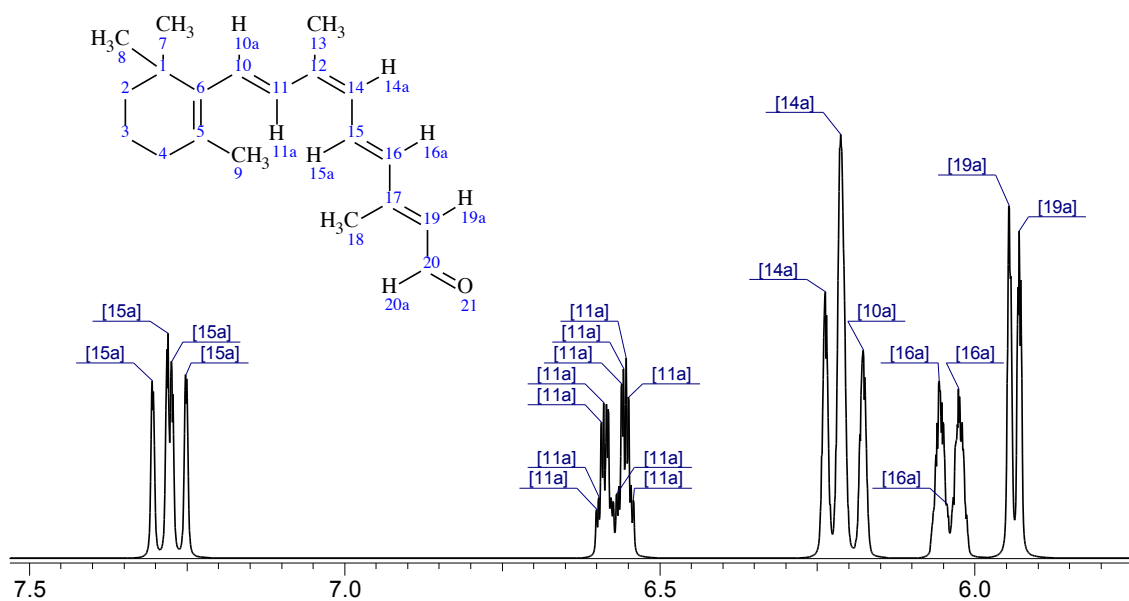


Figure S9: Low field part of the simulated 500 MHz $^1\text{H-NMR}$ spectrum of 9-*cis*-retinal in CDCl_3 . Attribution for the six vinyl protons 10, 11, 14, 15, 16, and 19 is indicated in the spectrum according to the numbering given in the structures. The spectrum was simulated with the H-NMR predictor tool of ACDLabs software, version 12.00.

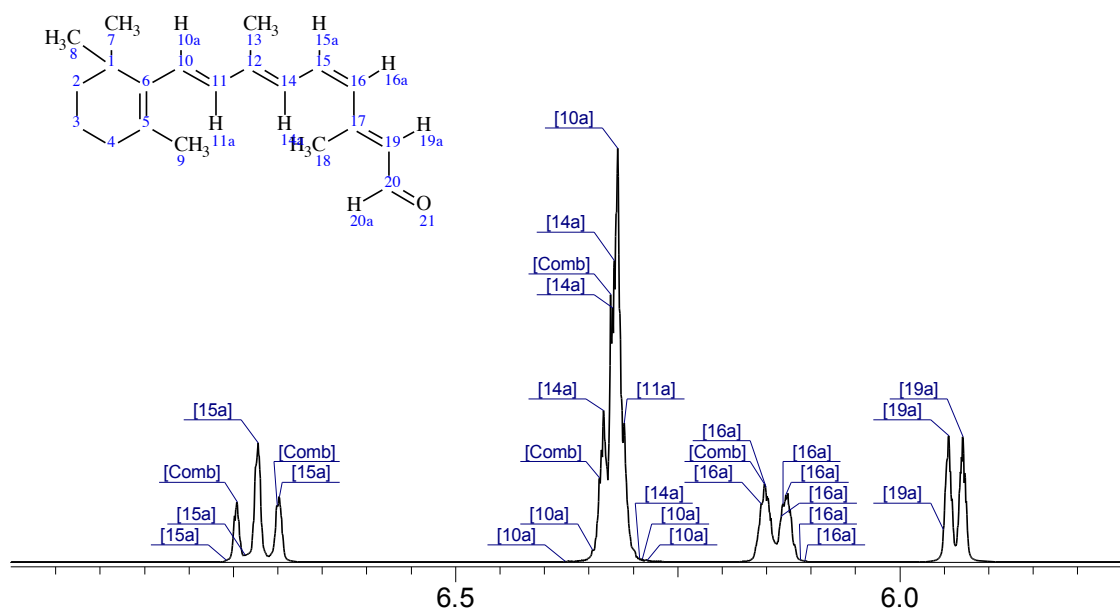


Figure S10: Low field part of the simulated 500 MHz $^1\text{H-NMR}$ spectrum of 11-*cis*-retinal in CDCl_3 . Attribution for the six vinyl protons 10, 11, 14, 15, 16, and 19 is indicated in the spectrum according to the numbering given in the structures. The spectrum was simulated with the H-NMR predictor tool of ACDLabs software, version 12.00.

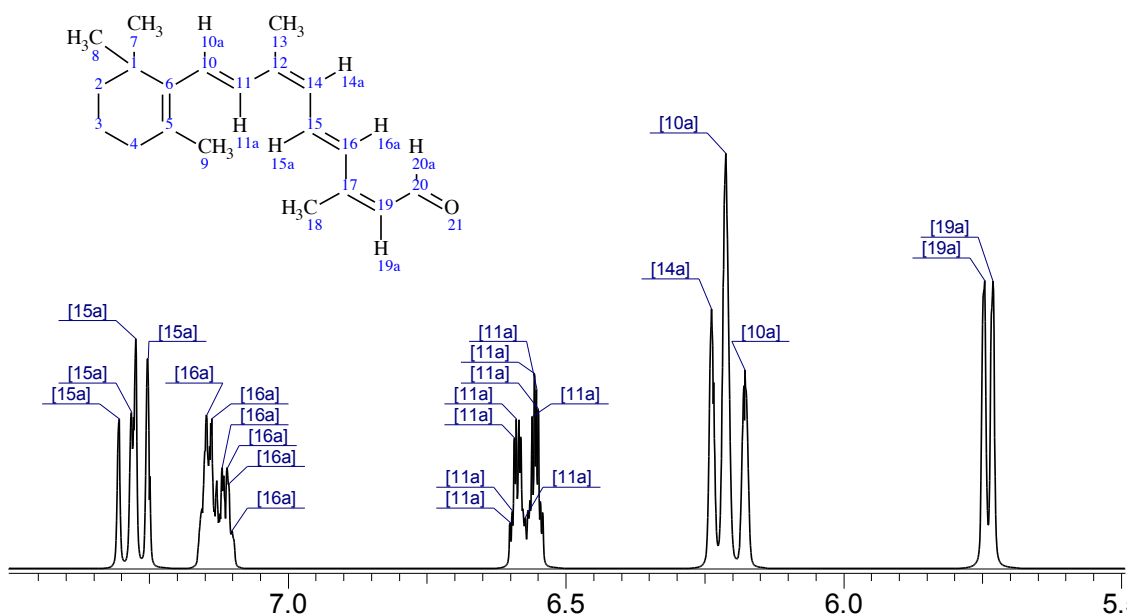


Figure S11: Low field part of the simulated 500 MHz ^1H -NMR spectrum of 9,13-*dicis*-retinal in CDCl_3 . Attribution for the six vinyl protons 10, 11, 14, 15, 16, and 19 is indicated in the spectrum according to the numbering given in the structures. The spectrum was simulated with the H-NMR predictor tool of ACDLabs software, version 12.00.

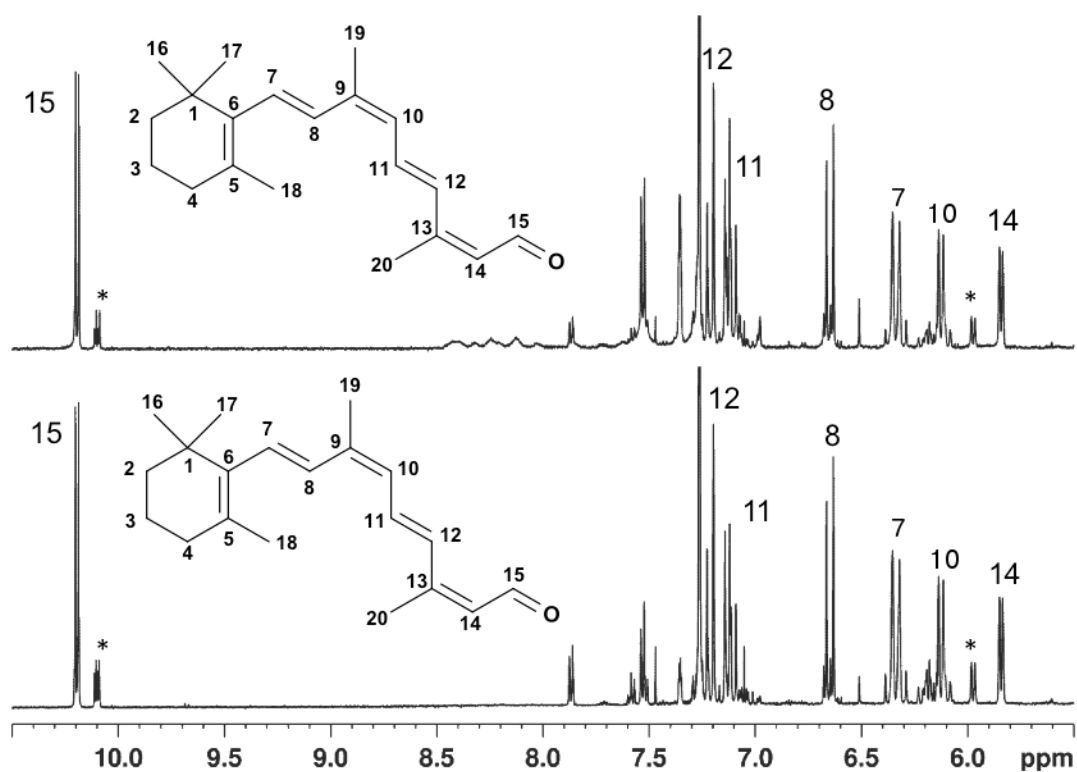


Figure S12: 500 MHz ^1H -NMR spectra of 9,13-*dicis*-retinal first treated in aqueous buffer and subsequently dissolved in CDCl_3 (top) and 9,13-*dicis*-retinal first treated in CRALBP with D_2O buffer and subsequently dissolved in CDCl_3 (bottom). Attribution of the six vinyl protons 7, 8, 10, 11, 12, and 14, as well as of the aldehyde proton 15 is indicated in both spectra, according to the numbering given in the structures. A second set of resonances visible for protons 14 and 15, denoted with stars, indicates traces of residual 9-*cis*-retinal.

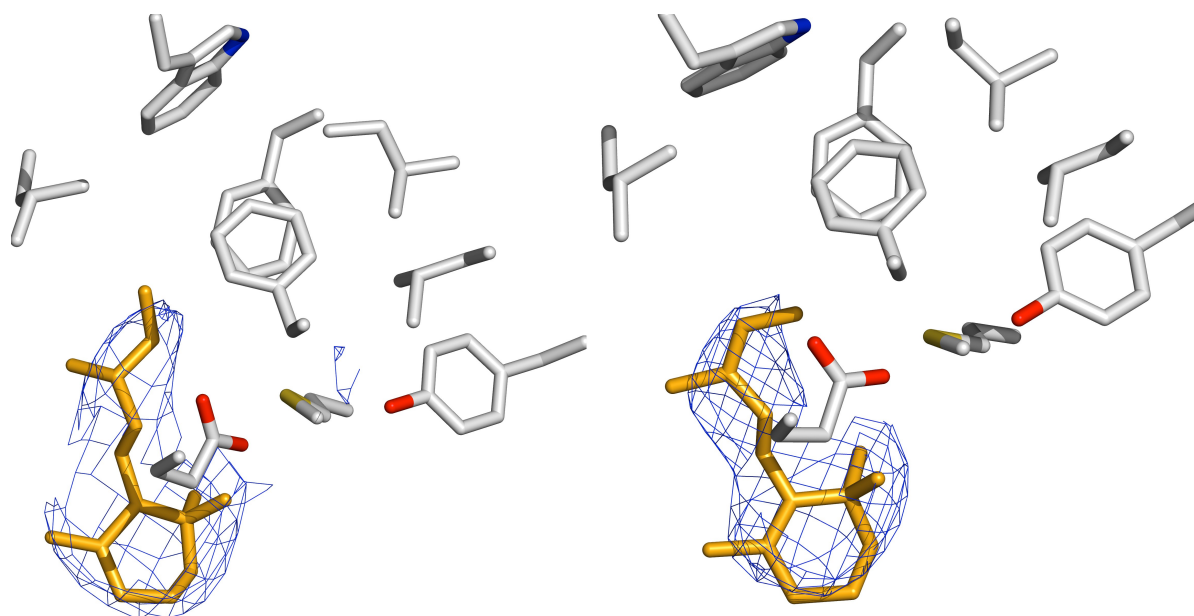


Figure S13: Close-up views of the ligand-binding pockets of WT CRALBP bound to A) 11-*cis*-retinal and to B) 9-*cis*-retinal. Side chains (gray) that form van der Waals contacts with the cis-retinoid tails (orange) or participate in hydrogen bonding within the ligand-binding pocket of the corresponding mutant R234W are shown as sticks. Electron densities of the ligands are shown as blue mesh at 1σ in the $2F_o - F_c$ maps. Both ligands are truncated at C11 of the retinal due to a lack of electron density for the terminal tail region.

COORDINATES OF CRALBP:9-CIS-RETINAL IN PDB FORMAT:

```

REMARK Date 2013-02-11 Time 17:11:23 CET +0100 (1360599083.81 s)
REMARK PHENIX refinement
REMARK
REMARK ***** INPUT FILES AND LABELS *****
REMARK Reflections:
REMARK   file name       :
/home/achim/Christin/GO_paraфин_5_20110514_143359/mtz/AutoMR_run_1_/neu_refine/para
fin_7_ccp4_179P6522.mtz
REMARK   labels         : ['F(+)_paraфин_7,SIGF(+)_paraфин_7,F(-)_paraфин_7,SIGF(-)
)_paraфин_7,merged']
REMARK R-free flags:
REMARK   file name       :
/home/achim/Christin/GO_paraфин_5_20110514_143359/mtz/AutoMR_run_1_/neu_refine/para
fin_7_ccp4_179P6522.mtz
REMARK   label           : FreeRflag
REMARK   test_flag_value: 0
REMARK Model file name(s):
REMARK
/home/achim/Christin/GO_paraфин_5_20110514_143359/mtz/AutoMR_run_1_/neu_refine/CRAL
BP_9cis_2_refine_7.pdb
REMARK
REMARK ***** REFINEMENT SUMMARY: QUICK FACTS *****
REMARK Start: r_work = 0.2452 r_free = 0.2668 bonds = 0.003 angles = 0.573
REMARK Final: r_work = 0.2340 r_free = 0.2649 bonds = 0.003 angles = 0.567
REMARK *****
REMARK ***** REFINEMENT STATISTICS STEP BY STEP *****
REMARK leading digit, like l_, means number of macro-cycle
REMARK 0      : statistics at the very beginning when nothing is done yet
REMARK l_bss: bulk solvent correction and/or (anisotropic) scaling
REMARK l_xyz: refinement of coordinates
REMARK l_adp: refinement of ADPs (Atomic Displacement Parameters)
REMARK -----
REMARK R-factors, x-ray target values and norm of gradient of x-ray target
REMARK stage  r-work r-free  xray_target_w  xray_target_t
REMARK 0      : 0.5160 0.3661  3.228334e+00  3.070849e+00
REMARK l_bss: 0.2452 0.2668  2.843660e+00  2.918574e+00
REMARK l_ohs: 0.2452 0.2668  2.843660e+00  2.918574e+00
REMARK l_xyz: 0.2410 0.2656  2.838991e+00  2.925293e+00
REMARK l_adp: 0.2325 0.2651  2.809048e+00  2.901824e+00
REMARK l_bss: 0.2340 0.2649  2.814870e+00  2.907498e+00
REMARK l_ohs: 0.2340 0.2649  2.814870e+00  2.907498e+00
REMARK -----
REMARK stage  k_sol  b_sol    b11    b22    b33    b12    b13    b23
REMARK 0      : 0.000  0.000    0.000  0.000  0.000  0.000  0.000  0.000
REMARK l_bss: 0.330 129.350  9.231  9.231 -18.461 -0.000 -0.000 -0.000
REMARK l_ohs: 0.330 129.350  9.231  9.231 -18.461 -0.000 -0.000 -0.000
REMARK l_xyz: 0.330 129.350  9.231  9.231 -18.461 -0.000 -0.000 -0.000
REMARK l_adp: 0.330 129.350  9.231  9.231 -18.461 -0.000 -0.000 -0.000
REMARK l_bss: 0.332 126.805  8.861  8.861 -17.722 -0.000 -0.000 -0.000
REMARK l_ohs: 0.332 126.805  8.861  8.861 -17.722 -0.000 -0.000 -0.000
REMARK -----
REMARK stage  <pher>  fom    alpha    beta
REMARK 0      : 38.530 0.6574  0.0600  144.086
REMARK l_bss: 30.475 0.7464  0.0732   75.610
REMARK l_ohs: 30.475 0.7464  0.0732   75.610
REMARK l_xyz: 31.455 0.7348  0.0721   76.788
REMARK l_adp: 30.282 0.7482  0.0747   77.192
REMARK l_bss: 30.344 0.7478  0.0733   78.249
REMARK l_ohs: 30.344 0.7478  0.0733   78.249
REMARK -----
REMARK stage  angl  bond  chir  dihe  plan  repu  geom_target
REMARK 0      : 0.573 0.003 0.042 10.538 0.003 4.116 4.2141e-02
REMARK l_bss: 0.573 0.003 0.042 10.538 0.003 4.116 4.2141e-02
REMARK l_ohs: 0.573 0.003 0.042 10.538 0.003 4.116 4.2141e-02
REMARK l_xyz: 0.567 0.003 0.042 10.840 0.003 4.117 4.0389e-02

```

```

REMARK 1_adp: 0.567 0.003 0.042 10.840 0.003 4.117 4.0389e-02
REMARK 1_bss: 0.567 0.003 0.042 10.840 0.003 4.117 4.0389e-02
REMARK 1_ohs: 0.567 0.003 0.042 10.840 0.003 4.117 4.0389e-02
-----
REMARK
REMARK Maximal deviations:
REMARK stage angl bond chir dihe plan repu |grad|
REMARK 0 : 5.417 0.053 0.208 55.364 0.045 2.221 1.9546e-02
REMARK 1_bss: 5.417 0.053 0.208 55.364 0.045 2.221 1.9546e-02
REMARK 1_ohs: 5.417 0.053 0.208 55.364 0.045 2.221 1.9546e-02
REMARK 1_xyz: 5.725 0.052 0.218 55.746 0.042 2.247 1.7124e-02
REMARK 1_adp: 5.725 0.052 0.218 55.746 0.042 2.247 1.7124e-02
REMARK 1_bss: 5.725 0.052 0.218 55.746 0.042 2.247 1.7124e-02
REMARK 1_ohs: 5.725 0.052 0.218 55.746 0.042 2.247 1.7124e-02
-----
REMARK
REMARK |-----overall-----|---macromolecule---|-----solvent-----|
REMARK stage b_max b_min b_ave b_max b_min b_ave b_max b_min b_ave
REMARK 0 : 295.16 19.19 170.08 295.16 19.19 170.15 149.33 117.19 130.43
REMARK 1_bss: 298.46 22.49 173.38 298.46 22.49 173.45 152.63 120.49 133.74
REMARK 1_ohs: 298.46 22.49 173.38 298.46 22.49 173.45 152.63 120.49 133.74
REMARK 1_xyz: 298.46 22.49 173.38 298.46 22.49 173.45 152.63 120.49 133.74
REMARK 1_adp: 293.47 88.11 172.76 293.47 88.11 172.86 122.63 103.93 114.51
REMARK 1_bss: 291.43 88.11 170.90 291.43 88.11 171.00 120.59 101.89 112.47
REMARK 1_ohs: 291.43 88.11 170.90 291.43 88.11 171.00 120.59 101.89 112.47
-----
REMARK
REMARK stage Deviation of refined
REMARK model from start model
REMARK max min mean
REMARK 0 : 0.000 0.000 0.000
REMARK 1_bss: 0.000 0.000 0.000
REMARK 1_ohs: 0.000 0.000 0.000
REMARK 1_xyz: 1.067 0.000 0.022
REMARK 1_adp: 1.067 0.000 0.022
REMARK 1_bss: 1.067 0.000 0.022
REMARK 1_ohs: 1.067 0.000 0.022
-----
REMARK
REMARK MODEL CONTENT.
REMARK ELEMENT ATOM RECORD COUNT OCCUPANCY SUM
REMARK C 1498 1498.00
REMARK S 9 9.00
REMARK O 445 445.00
REMARK N 393 393.00
REMARK TOTAL 2345 2345.00
-----
REMARK
REMARK r_free_flags.md5.hexdigest d8954dc2614156da0d4e4c38b65168d2
REMARK
REMARK IF THIS FILE IS FOR PDB DEPOSITION: REMOVE ALL FROM THIS LINE UP.
REMARK 3
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : PHENIX (phenix.refine: 1.7.3_928)
REMARK 3 AUTHORS : Adams,Afonine,Chen,Davis,Echols,Gildea,Gopal,
REMARK 3 : Grosse-Kunstleve,Headd,Hung,Immormino,Ioerger,McCoy,
REMARK 3 : McKee,Moriarty,Pai,Read,Richardson,Richardson,Romo,
REMARK 3 : Sacchettini,Sauter,Smith,Storoni,Terwilliger,Zwart
REMARK 3
REMARK 3 REFINEMENT TARGET : ML
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 3.403
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 47.356
REMARK 3 MIN(FOBS/SIGMA_FOBS) : 1.99
REMARK 3 COMPLETENESS FOR RANGE (%) : 99.62
REMARK 3 NUMBER OF REFLECTIONS : 11423
REMARK 3 NUMBER OF REFLECTIONS (NON-ANOMALOUS) : 6704
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 R VALUE (WORKING + TEST SET) : 0.2356
REMARK 3 R VALUE (WORKING SET) : 0.2340
REMARK 3 FREE R VALUE : 0.2649
REMARK 3 FREE R VALUE TEST SET SIZE (%) : 5.04
REMARK 3 FREE R VALUE TEST SET COUNT : 576

```



```

REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT (IN BINS).
REMARK 3 BIN RESOLUTION RANGE COMPL. NWORK NFREE RWORK RFREE
REMARK 3 1 47.3604 - 5.3993 1.00 2718 143 0.2055 0.2509
REMARK 3 2 5.3993 - 4.2864 1.00 2739 148 0.2087 0.2321
REMARK 3 3 4.2864 - 3.7449 1.00 2696 143 0.2730 0.2424
REMARK 3 4 3.7449 - 3.4026 0.99 2694 142 0.3528 0.4424
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED : FLAT BULK SOLVENT MODEL
REMARK 3 SOLVENT RADIUS : 1.11
REMARK 3 SHRINKAGE RADIUS : 0.90
REMARK 3 GRID STEP FACTOR : 4.00
REMARK 3 K_SOL : 0.332
REMARK 3 B_SOL : 126.805
REMARK 3
REMARK 3 ERROR ESTIMATES.
REMARK 3 COORDINATE ERROR (MAXIMUM-LIKELIHOOD BASED) : 0.55
REMARK 3 PHASE ERROR (DEGREES, MAXIMUM-LIKELIHOOD BASED) : 30.34
REMARK 3
REMARK 3 OVERALL SCALE FACTORS.
REMARK 3 SCALE = SUM(|F_OBS|*|F_MODEL|)/SUM(|F_MODEL|**2) : 0.0812
REMARK 3 ANISOTROPIC SCALE MATRIX ELEMENTS (IN CARTESIAN BASIS).
REMARK 3 B11 : 8.8611
REMARK 3 B22 : 8.8611
REMARK 3 B33 : -17.7223
REMARK 3 B12 : -0.0000
REMARK 3 B13 : -0.0000
REMARK 3 B23 : -0.0000
REMARK 3
REMARK 3 R FACTOR FORMULA.
REMARK 3 R = SUM(|F_OBS|-SCALE*|F_MODEL|)/SUM(|F_OBS|)
REMARK 3
REMARK 3 TOTAL MODEL STRUCTURE FACTOR (F_MODEL).
REMARK 3 F_MODEL = FB_CART * (F_CALC_ATOMS + F_BULK)
REMARK 3 F_BULK = K_SOL * EXP(-B_SOL * S**2 / 4) * F_MASK
REMARK 3 F_CALC_ATOMS = ATOMIC MODEL STRUCTURE FACTORS
REMARK 3 FB_CART = EXP(-H(t) * A(-1) * B * A(-1t) * H)
REMARK 3 A = orthogonalization matrix, H = MILLER INDEX
REMARK 3 (t) = TRANSPOSE, (-1) = INVERSE
REMARK 3
REMARK 3 STRUCTURE FACTORS CALCULATION ALGORITHM : FFT
REMARK 3
REMARK 3 DEVIATIONS FROM IDEAL VALUES.
REMARK 3 RMSD MAX COUNT
REMARK 3 BOND : 0.003 0.052 2391
REMARK 3 ANGLE : 0.567 5.725 3227
REMARK 3 CHIRALITY : 0.042 0.218 340
REMARK 3 PLANARITY : 0.003 0.042 422
REMARK 3 DIHEDRAL : 10.840 55.746 923
REMARK 3 MIN NONBONDED DISTANCE : 2.247
REMARK 3
REMARK 3 MOLPROBITY STATISTICS.
REMARK 3 ALL-ATOM CLASHSCORE : 16.41
REMARK 3 RAMACHANDRAN PLOT:
REMARK 3 OUTLIERS : 1.42 %
REMARK 3 ALLOWED : 6.03 %
REMARK 3 FAVORED : 92.55 %
REMARK 3 ROTAMER OUTLIERS : 2.41 %
REMARK 3 CBETA DEVIATIONS : 0
REMARK 3
REMARK 3 ATOMIC DISPLACEMENT PARAMETERS.
REMARK 3 WILSON B : 115.51
REMARK 3 RMS(B_ISO_OR_EQUIVALENT_BONDED) : 9.61
REMARK 3 ATOMS NUMBER OF ATOMS
REMARK 3 ISO. ANISO.
REMARK 3 ALL : 2345 2317
REMARK 3 ALL (NO H) : 2345 2317
REMARK 3 SOLVENT : 4 0
REMARK 3 NON-SOLVENT : 2341 2317

```

```

REMARK 3      HYDROGENS      :      0      0
REMARK 3
REMARK 3  TLS DETAILS.
REMARK 3  NUMBER OF TLS GROUPS: 9
REMARK 3  ORIGIN: CENTER OF MASS
REMARK 3  TLS GROUP : 1
REMARK 3  SELECTION: (chain A and resid 23:41)
REMARK 3  ORIGIN FOR THE GROUP (A): -5.5918  37.6017  27.3286
REMARK 3  T TENSOR
REMARK 3    T11:  2.1994 T22:  1.9958
REMARK 3    T33:  1.4079 T12: -0.4736
REMARK 3    T13: -0.0411 T23: -0.5562
REMARK 3  L TENSOR
REMARK 3    L11:  7.8860 L22:  4.5901
REMARK 3    L33:  9.6221 L12:  0.9865
REMARK 3    L13: -0.5561 L23:  1.5253
REMARK 3  S TENSOR
REMARK 3    S11:  0.3000 S12: -0.3177 S13:  0.0568
REMARK 3    S21:  0.8084 S22: -0.1019 S23: -0.4012
REMARK 3    S31: -0.8162 S32: -0.9783 S33: -0.2458
REMARK 3  TLS GROUP : 2
REMARK 3  SELECTION: (chain A and resid 42:55)
REMARK 3  ORIGIN FOR THE GROUP (A): -11.8415  30.7911  36.6263
REMARK 3  T TENSOR
REMARK 3    T11:  2.9085 T22:  1.9403
REMARK 3    T33:  1.6348 T12: -0.4593
REMARK 3    T13:  0.1605 T23: -0.3218
REMARK 3  L TENSOR
REMARK 3    L11:  2.0519 L22:  6.9728
REMARK 3    L33:  2.0070 L12: -3.4712
REMARK 3    L13:  3.1137 L23:  5.5738
REMARK 3  S TENSOR
REMARK 3    S11:  1.5039 S12: -1.2444 S13:  1.4686
REMARK 3    S21:  1.2691 S22:  0.8299 S23: -0.9692
REMARK 3    S31: -1.3234 S32:  0.0174 S33: -2.2895
REMARK 3  TLS GROUP : 3
REMARK 3  SELECTION: (chain A and resid 56:85)
REMARK 3  ORIGIN FOR THE GROUP (A): -0.1189  11.7135  42.8589
REMARK 3  T TENSOR
REMARK 3    T11:  1.3719 T22:  3.0648
REMARK 3    T33:  1.6220 T12: -0.6570
REMARK 3    T13: -0.2950 T23:  0.3508
REMARK 3  L TENSOR
REMARK 3    L11:  8.3400 L22:  9.6397
REMARK 3    L33:  2.1893 L12: -4.2700
REMARK 3    L13:  1.3293 L23: -2.8757
REMARK 3  S TENSOR
REMARK 3    S11:  0.8681 S12: -2.2281 S13: -0.8490
REMARK 3    S21:  0.6311 S22: -1.3826 S23:  0.4318
REMARK 3    S31:  0.0217 S32:  0.9134 S33:  0.5386
REMARK 3  TLS GROUP : 4
REMARK 3  SELECTION: (chain A and resid 86:98)
REMARK 3  ORIGIN FOR THE GROUP (A):  6.5679  16.8040  36.9401
REMARK 3  T TENSOR
REMARK 3    T11:  1.5295 T22:  2.6147
REMARK 3    T33:  1.6530 T12: -1.0821
REMARK 3    T13: -0.3277 T23:  0.3613
REMARK 3  L TENSOR
REMARK 3    L11:  2.9372 L22:  9.4653
REMARK 3    L33:  7.7546 L12:  1.2980
REMARK 3    L13: -1.2829 L23:  5.8943
REMARK 3  S TENSOR
REMARK 3    S11:  0.0330 S12: -0.2465 S13: -0.0152
REMARK 3    S21: -0.3899 S22:  0.2387 S23: -1.0539
REMARK 3    S31: -0.4196 S32:  1.4365 S33: -0.4623
REMARK 3  TLS GROUP : 5
REMARK 3  SELECTION: (chain A and resid 99:143)
REMARK 3  ORIGIN FOR THE GROUP (A):  3.5602  14.7805  25.7713
REMARK 3  T TENSOR
REMARK 3    T11:  1.4786 T22:  1.6464

```

```

REMARK 3      T33:   1.6775 T12:  -0.5713
REMARK 3      T13:  -0.3221 T23:   0.1994
REMARK 3      L TENSOR
REMARK 3      L11:   1.2314 L22:   4.6137
REMARK 3      L33:   5.1821 L12:   1.7657
REMARK 3      L13:  -0.6364 L23:  -0.4875
REMARK 3      S TENSOR
REMARK 3      S11:   0.4016 S12:  -1.3190 S13:  -1.1200
REMARK 3      S21:  -0.0972 S22:  -1.2266 S23:  -1.6078
REMARK 3      S31:  -1.3717 S32:   1.7076 S33:   0.7275
REMARK 3      TLS GROUP : 6
REMARK 3      SELECTION: (chain A and resid 144:185)
REMARK 3      ORIGIN FOR THE GROUP (A):   2.1584  23.4104  13.0419
REMARK 3      T TENSOR
REMARK 3      T11:   1.5470 T22:   1.3685
REMARK 3      T33:   1.3940 T12:  -0.6263
REMARK 3      T13:  -0.2859 T23:   0.0245
REMARK 3      L TENSOR
REMARK 3      L11:   4.8858 L22:  10.0185
REMARK 3      L33:   9.2610 L12:  -1.4558
REMARK 3      L13:  -0.9991 L23:   1.5010
REMARK 3      S TENSOR
REMARK 3      S11:  -0.2844 S12:  -0.1394 S13:   0.5531
REMARK 3      S21:  -1.0291 S22:  -1.0833 S23:  -0.9428
REMARK 3      S31:  -1.7490 S32:   1.1707 S33:   1.1957
REMARK 3      TLS GROUP : 7
REMARK 3      SELECTION: (chain A and resid 186:255)
REMARK 3      ORIGIN FOR THE GROUP (A):  -5.0786  18.1984  12.8337
REMARK 3      T TENSOR
REMARK 3      T11:   1.8375 T22:   1.1086
REMARK 3      T33:   1.1457 T12:  -0.7763
REMARK 3      T13:  -0.1863 T23:  -0.0705
REMARK 3      L TENSOR
REMARK 3      L11:   3.2540 L22:   8.2616
REMARK 3      L33:   5.7362 L12:  -0.0841
REMARK 3      L13:  -1.1440 L23:   1.3476
REMARK 3      S TENSOR
REMARK 3      S11:   0.2582 S12:  -0.1726 S13:  -0.3769
REMARK 3      S21:  -1.4528 S22:  -1.2033 S23:  -0.7484
REMARK 3      S31:  -1.3196 S32:   1.2170 S33:   0.5800
REMARK 3      TLS GROUP : 8
REMARK 3      SELECTION: (chain A and resid 256:295)
REMARK 3      ORIGIN FOR THE GROUP (A): -10.7649  27.5537  11.1747
REMARK 3      T TENSOR
REMARK 3      T11:   2.0082 T22:   0.9124
REMARK 3      T33:   1.4094 T12:  -0.3464
REMARK 3      T13:  -0.2966 T23:  -0.1683
REMARK 3      L TENSOR
REMARK 3      L11:   2.8904 L22:   9.8943
REMARK 3      L33:   2.6632 L12:   2.9399
REMARK 3      L13:  -0.4110 L23:  -2.8237
REMARK 3      S TENSOR
REMARK 3      S11:  -0.0025 S12:  -0.1289 S13:   0.7631
REMARK 3      S21:   0.2197 S22:  -0.3207 S23:   0.6423
REMARK 3      S31:  -1.5326 S32:  -0.2329 S33:   0.2759
REMARK 3      TLS GROUP : 9
REMARK 3      SELECTION: (chain A and resid 296:306)
REMARK 3      ORIGIN FOR THE GROUP (A):  10.0979  32.3403  15.3244
REMARK 3      T TENSOR
REMARK 3      T11:   3.3329 T22:   1.1558
REMARK 3      T33:   1.9624 T12:  -2.8554
REMARK 3      T13:   0.2941 T23:  -0.2076
REMARK 3      L TENSOR
REMARK 3      L11:   2.7005 L22:   4.7888
REMARK 3      L33:   4.1568 L12:   0.7439
REMARK 3      L13:  -0.3794 L23:   0.7100
REMARK 3      S TENSOR
REMARK 3      S11:  -0.9161 S12:  -0.1066 S13:  -0.2602
REMARK 3      S21:  -0.0904 S22:  -0.9511 S23:  -0.6308
REMARK 3      S31:   0.1489 S32:   1.0875 S33:   1.0744

```

REMARK	3									
CRYST1	70.556	70.556	299.747	90.00	90.00	120.00	P 65 2 2			
SCALE1	0.014173	0.008183	0.000000			0.000000				
SCALE2	0.000000	0.016366	0.000000			0.000000				
SCALE3	0.000000	0.000000	0.003336			0.000000				
ATOM	1	N	GLU	A	23	-20.270	35.716	25.731	1.00243.58	N
ANISOU	1	N	GLU	A	23	29539	39670	23339	-3571 1423 -6245	N
ATOM	2	CA	GLU	A	23	-19.742	36.514	24.632	1.00249.26	C
ANISOU	2	CA	GLU	A	23	30433	40064	24212	-3018 1228 -6150	C
ATOM	3	C	GLU	A	23	-19.157	37.825	25.158	1.00262.55	C
ANISOU	3	C	GLU	A	23	32687	41126	25946	-2402 1247 -6075	C
ATOM	4	O	GLU	A	23	-18.582	37.856	26.247	1.00269.76	O
ANISOU	4	O	GLU	A	23	34039	41553	26904	-2608 1307 -6077	O
ATOM	5	CB	GLU	A	23	-20.838	36.786	23.599	1.00249.01	C
ANISOU	5	CB	GLU	A	23	29731	40926	23956	-2590 1203 -6227	C
ATOM	6	CG	GLU	A	23	-20.351	36.798	22.157	1.00242.83	C
ANISOU	6	CG	GLU	A	23	28962	40012	23289	-2489 965 -6121	C
ATOM	7	CD	GLU	A	23	-21.487	36.931	21.163	1.00244.81	C
ANISOU	7	CD	GLU	A	23	28494	41278	23244	-2132 897 -6194	C
ATOM	8	OE1	GLU	A	23	-22.659	36.931	21.596	1.00250.61	O
ANISOU	8	OE1	GLU	A	23	28655	42841	23723	-2004 1037 -6353	O
ATOM	9	OE2	GLU	A	23	-21.209	37.034	19.950	1.00241.71	O
ANISOU	9	OE2	GLU	A	23	28079	40916	22843	-1986 702 -6098	O
ATOM	10	N	GLN	A	24	-19.307	38.896	24.381	1.00266.93	N
ANISOU	10	N	GLN	A	24	33253	41690	26477	-1667 1186 -6005	N
ATOM	11	CA	GLN	A	24	-18.817	40.224	24.755	1.00269.42	C
ANISOU	11	CA	GLN	A	24	34141	41359	26868	-1058 1217 -5950	C
ATOM	12	C	GLN	A	24	-17.322	40.238	25.076	1.00267.03	C
ANISOU	12	C	GLN	A	24	34538	40057	26864	-1433 1111 -5854	C
ATOM	13	O	GLN	A	24	-16.907	40.759	26.112	1.00267.06	O
ANISOU	13	O	GLN	A	24	34982	39605	26885	-1387 1192 -5936	O
ATOM	14	CB	GLN	A	24	-19.615	40.785	25.938	1.00271.98	C
ANISOU	14	CB	GLN	A	24	34393	41988	26959	-697 1465 -6163	C
ATOM	15	CG	GLN	A	24	-21.116	40.868	25.703	1.00275.64	C
ANISOU	15	CG	GLN	A	24	34089	43516	27125	-249 1590 -6297	C
ATOM	16	CD	GLN	A	24	-21.872	41.349	26.927	1.00277.70	C
ANISOU	16	CD	GLN	A	24	34239	44130	27146	71 1884 -6565	C
ATOM	17	OE1	GLN	A	24	-21.272	41.689	27.947	1.00276.55	O
ANISOU	17	OE1	GLN	A	24	34644	43404	27028	-20 1987 -6655	O
ATOM	18	NE2	GLN	A	24	-23.196	41.378	26.832	1.00279.96	N
ANISOU	18	NE2	GLN	A	24	33770	45436	27166	442 2023 -6727	N
ATOM	19	N	LEU	A	25	-16.518	39.669	24.182	1.00262.19	N
ANISOU	19	N	LEU	A	25	33990	39164	26468	-1803 932 -5719	N
ATOM	20	CA	LEU	A	25	-15.076	39.602	24.390	1.00251.94	C
ANISOU	20	CA	LEU	A	25	33237	37018	25468	-2168 818 -5646	C
ATOM	21	C	LEU	A	25	-14.325	39.768	23.071	1.00249.47	C
ANISOU	21	C	LEU	A	25	33035	36413	25341	-2135 680 -5483	C
ATOM	22	O	LEU	A	25	-14.667	39.137	22.070	1.00249.54	O
ANISOU	22	O	LEU	A	25	32642	36877	25295	-2252 619 -5464	O
ATOM	23	CB	LEU	A	25	-14.695	38.273	25.048	1.00240.47	C
ANISOU	23	CB	LEU	A	25	31730	35526	24112	-2902 769 -5699	C
ATOM	24	CG	LEU	A	25	-13.338	38.215	25.752	1.00227.33	C
ANISOU	24	CG	LEU	A	25	30587	33096	22692	-3227 650 -5661	C
ATOM	25	CD1	LEU	A	25	-13.320	39.178	26.925	1.00222.10	C
ANISOU	25	CD1	LEU	A	25	30298	32205	21884	-2966 746 -5748	C
ATOM	26	CD2	LEU	A	25	-13.033	36.801	26.215	1.00226.26	C
ANISOU	26	CD2	LEU	A	25	30365	32942	22661	-3876 563 -5646	C
ATOM	27	N	THR	A	26	-13.303	40.619	23.075	1.00245.22	N
ANISOU	27	N	THR	A	26	33033	35149	24990	-2023 647 -5388	N
ATOM	28	CA	THR	A	26	-12.527	40.885	21.867	1.00239.64	C
ANISOU	28	CA	THR	A	26	32470	34158	24424	-2021 564 -5214	C
ATOM	29	C	THR	A	26	-11.240	40.065	21.822	1.00220.29	C
ANISOU	29	C	THR	A	26	30128	31303	22271	-2641 455 -5255	C
ATOM	30	O	THR	A	26	-10.913	39.348	22.767	1.00212.86	O
ANISOU	30	O	THR	A	26	29206	30229	21441	-3024 409 -5376	O
ATOM	31	CB	THR	A	26	-12.180	42.381	21.730	1.00251.30	C
ANISOU	31	CB	THR	A	26	34471	35075	25935	-1544 622 -5056	C
ATOM	32	OG1	THR	A	26	-11.322	42.778	22.806	1.00255.94	O
ANISOU	32	OG1	THR	A	26	35531	35004	26710	-1751 639 -5170	O
ATOM	33	CG2	THR	A	26	-13.444	43.227	21.753	1.00257.28	C

ANISOU	33	CG2	THR	A	26	35136	36182	26438	-809	718	-5014	C
ATOM	34	N	THR	A	27	-10.512	40.183	20.715	1.00212.83			N
ANISOU	34	NA	THR	A	27	29245	30191	21432	-2710	416	-5140	N
ATOM	35	C	THR	A	27	-9.290	39.415	20.510	1.00207.60			C
ANISOU	35	CA	THR	A	27	28599	29219	21059	-3227	330	-5213	C
ATOM	36	C	THR	A	27	-8.111	39.990	21.286	1.00199.06			C
ANISOU	36	C	THR	A	27	27966	27448	20221	-3384	300	-5219	C
ATOM	37	O	THR	A	27	-7.089	39.326	21.459	1.00186.25			O
ANISOU	37	O	THR	A	27	26329	25578	18859	-3787	201	-5311	O
ATOM	38	CB	THR	A	27	-8.916	39.343	19.017	1.00216.64			C
ANISOU	38	CB	THR	A	27	29607	30521	22184	-3267	340	-5131	C
ATOM	39	OG1	THR	A	27	-7.689	38.620	18.863	1.00222.84			O
ANISOU	39	OG1	THR	A	27	30378	31015	23275	-3726	284	-5256	O
ATOM	40	CG2	THR	A	27	-8.748	40.741	18.443	1.00216.59			C
ANISOU	40	CG2	THR	A	27	29964	30265	22066	-2897	424	-4870	C
ATOM	41	N	LYS	A	28	-8.257	41.225	21.752	1.00212.93			N
ANISOU	41	N	LYS	A	28	30106	28901	21896	-3054	379	-5150	N
ATOM	42	CA	LYS	A	28	-7.191	41.889	22.493	1.00223.04			C
ANISOU	42	CA	LYS	A	28	31825	29546	23375	-3236	355	-5204	C
ATOM	43	C	LYS	A	28	-7.455	41.927	23.995	1.00218.87			C
ANISOU	43	C	LYS	A	28	31448	28939	22775	-3243	325	-5375	C
ATOM	44	O	LYS	A	28	-6.709	42.552	24.748	1.00219.51			O
ANISOU	44	O	LYS	A	28	31899	28552	22953	-3374	295	-5473	O
ATOM	45	CB	LYS	A	28	-6.962	43.305	21.960	1.00234.53			C
ANISOU	45	CB	LYS	A	28	33714	30571	24824	-2963	478	-5040	C
ATOM	46	CG	LYS	A	28	-6.137	43.358	20.685	1.00237.34			C
ANISOU	46	CG	LYS	A	28	34053	30838	25286	-3169	507	-4873	C
ATOM	47	CD	LYS	A	28	-5.659	44.772	20.404	1.00243.36			C
ANISOU	47	CD	LYS	A	28	35364	31008	26092	-3061	636	-4695	C
ATOM	48	CE	LYS	A	28	-5.002	45.381	21.634	1.00248.65			C
ANISOU	48	CE	LYS	A	28	36437	31097	26942	-3265	618	-4902	C
ATOM	49	NZ	LYS	A	28	-3.922	44.514	22.186	1.00247.06			N
ANISOU	49	NZ	LYS	A	28	36008	30900	26963	-3831	462	-5127	N
ATOM	50	N	ASP	A	29	-8.515	41.249	24.427	1.00212.22			N
ANISOU	50	N	ASP	A	29	30305	28600	21730	-3149	344	-5429	N
ATOM	51	CA	ASP	A	29	-8.840	41.160	25.846	1.00201.93			C
ANISOU	51	CA	ASP	A	29	29102	27343	20278	-3199	345	-5579	C
ATOM	52	C	ASP	A	29	-8.034	40.060	26.526	1.00192.41			C
ANISOU	52	C	ASP	A	29	27834	26061	19212	-3726	152	-5614	C
ATOM	53	O	ASP	A	29	-8.363	39.636	27.634	1.00194.29			O
ANISOU	53	O	ASP	A	29	28080	26465	19276	-3856	130	-5675	O
ATOM	54	CB	ASP	A	29	-10.333	40.894	26.043	1.00200.74			C
ANISOU	54	CB	ASP	A	29	28623	27828	19823	-2921	482	-5610	C
ATOM	55	CG	ASP	A	29	-11.186	42.119	25.781	1.00204.83			C
ANISOU	55	CG	ASP	A	29	29248	28407	20172	-2274	654	-5612	C
ATOM	56	OD1	ASP	A	29	-10.730	43.017	25.045	1.00212.52			O
ANISOU	56	OD1	ASP	A	29	30507	28965	21275	-2044	663	-5497	O
ATOM	57	OD2	ASP	A	29	-12.315	42.182	26.310	1.00203.53			O
ANISOU	57	OD2	ASP	A	29	28879	28709	19745	-1986	789	-5718	O
ATOM	58	N	HIS	A	30	-6.981	39.600	25.858	1.00181.57			N
ANISOU	58	N	HIS	A	30	26396	24457	18137	-4005	18	-5563	N
ATOM	59	CA	HIS	A	30	-6.159	38.515	26.376	1.00171.18			C
ANISOU	59	CA	HIS	A	30	24992	23040	17007	-4416	-196	-5572	C
ATOM	60	C	HIS	A	30	-4.681	38.882	26.402	1.00156.87			C
ANISOU	60	C	HIS	A	30	23359	20777	15467	-4621	-347	-5619	C
ATOM	61	O	HIS	A	30	-4.246	39.812	25.722	1.00148.03			O
ANISOU	61	O	HIS	A	30	22382	19428	14436	-4537	-255	-5626	O
ATOM	62	CB	HIS	A	30	-6.370	37.243	25.553	1.00169.88			C
ANISOU	62	CB	HIS	A	30	24438	23130	16978	-4574	-224	-5526	C
ATOM	63	CG	HIS	A	30	-7.785	36.759	25.550	1.00166.81			C
ANISOU	63	CG	HIS	A	30	23806	23242	16332	-4491	-91	-5511	C
ATOM	64	ND1	HIS	A	30	-8.679	37.079	24.550	1.00160.35			N
ANISOU	64	ND1	HIS	A	30	22762	22796	15365	-4224	66	-5510	N
ATOM	65	CD2	HIS	A	30	-8.467	35.990	26.431	1.00165.40			C
ANISOU	65	CD2	HIS	A	30	23550	23305	15989	-4668	-89	-5489	C
ATOM	66	CE1	HIS	A	30	-9.846	36.521	24.812	1.00157.81			C
ANISOU	66	CE1	HIS	A	30	22180	22957	14822	-4247	153	-5531	C
ATOM	67	NE2	HIS	A	30	-9.746	35.855	25.948	1.00163.37			N
ANISOU	67	NE2	HIS	A	30	22982	23576	15516	-4542	86	-5515	N
ATOM	68	N	GLY	A	31	-3.915	38.137	27.192	1.00154.42			N

ANISOU	68	N	GLY	A	31	23030	20365	15278	-4901	-584	-5632	N
ATOM	69	CA	GLY	A	31	-2.489	38.368	27.317	1.00151.07			C
ANISOU	69	CA	GLY	A	31	22670	19623	15107	-5116	-769	-5705	C
ATOM	70	C	GLY	A	31	-1.699	37.874	26.121	1.00151.06			C
ANISOU	70	C	GLY	A	31	22372	19573	15453	-5216	-782	-5709	C
ATOM	71	O	GLY	A	31	-2.243	37.728	25.025	1.00145.15			O
ANISOU	71	O	GLY	A	31	21457	18989	14705	-5094	-603	-5672	O
ATOM	72	N	PRO	A	32	-0.402	37.614	26.327	1.00158.37			N
ANISOU	72	N	PRO	A	32	23193	20334	16646	-5432	-999	-5781	N
ATOM	73	CA	PRO	A	32	0.488	37.177	25.254	1.00159.88			C
ANISOU	73	CA	PRO	A	32	23061	20512	17175	-5527	-993	-5847	C
ATOM	74	C	PRO	A	32	0.642	35.666	25.200	1.00160.82			C
ANISOU	74	C	PRO	A	32	22880	20699	17523	-5534	-1162	-5838	C
ATOM	75	O	PRO	A	32	0.354	34.964	26.169	1.00166.93			O
ANISOU	75	O	PRO	A	32	23729	21463	18235	-5534	-1354	-5736	O
ATOM	76	CB	PRO	A	32	1.822	37.809	25.646	1.00166.76			C
ANISOU	76	CB	PRO	A	32	23950	21204	18210	-5750	-1141	-5969	C
ATOM	77	CG	PRO	A	32	1.749	37.989	27.156	1.00179.62			C
ANISOU	77	CG	PRO	A	32	25835	22782	19629	-5793	-1370	-5963	C
ATOM	78	CD	PRO	A	32	0.322	37.756	27.600	1.00175.20			C
ANISOU	78	CD	PRO	A	32	25469	22353	18747	-5591	-1269	-5833	C
ATOM	79	N	VAL	A	33	1.097	35.175	24.056	1.00154.60			N
ANISOU	79	N	VAL	A	33	21786	19964	16991	-5546	-1072	-5945	N
ATOM	80	CA	VAL	A	33	1.457	33.778	23.911	1.00159.09			C
ANISOU	80	CA	VAL	A	33	22080	20497	17868	-5533	-1223	-6006	C
ATOM	81	C	VAL	A	33	2.944	33.668	24.233	1.00169.80			C
ANISOU	81	C	VAL	A	33	23233	21735	19548	-5595	-1465	-6110	C
ATOM	82	O	VAL	A	33	3.562	34.649	24.655	1.00172.13			O
ANISOU	82	O	VAL	A	33	23613	22012	19779	-5713	-1517	-6133	O
ATOM	83	CB	VAL	A	33	1.180	33.284	22.479	1.00169.11			C
ANISOU	83	CB	VAL	A	33	23098	21927	19229	-5500	-985	-6154	C
ATOM	84	CG1	VAL	A	33	0.867	31.796	22.475	1.00183.44			C
ANISOU	84	CG1	VAL	A	33	24789	23659	21250	-5472	-1081	-6202	C
ATOM	85	CG2	VAL	A	33	0.019	34.058	21.876	1.00162.27			C
ANISOU	85	CG2	VAL	A	33	22376	21296	17982	-5440	-714	-6075	C
ATOM	86	N	PHE	A	34	3.508	32.477	24.048	1.00177.08			N
ANISOU	86	N	PHE	A	34	23878	22577	20827	-5510	-1615	-6198	N
ATOM	87	CA	PHE	A	34	4.938	32.234	24.246	1.00177.44			C
ANISOU	87	CA	PHE	A	34	23613	22583	21225	-5487	-1858	-6326	C
ATOM	88	C	PHE	A	34	5.406	32.499	25.678	1.00194.56			C
ANISOU	88	C	PHE	A	34	25926	24697	23302	-5520	-2229	-6172	C
ATOM	89	O	PHE	A	34	5.625	31.564	26.450	1.00198.90			O
ANISOU	89	O	PHE	A	34	26470	25117	23987	-5375	-2557	-6034	O
ATOM	90	CB	PHE	A	34	5.775	33.041	23.245	1.00157.98			C
ANISOU	90	CB	PHE	A	34	20865	20307	18852	-5626	-1626	-6559	C
ATOM	91	CG	PHE	A	34	5.326	32.888	21.819	1.00151.58			C
ANISOU	91	CG	PHE	A	34	19931	19637	18024	-5616	-1258	-6701	C
ATOM	92	CD1	PHE	A	34	5.639	31.748	21.098	1.00152.96			C
ANISOU	92	CD1	PHE	A	34	19776	19824	18518	-5475	-1228	-6926	C
ATOM	93	CD2	PHE	A	34	4.595	33.888	21.198	1.00149.75			C
ANISOU	93	CD2	PHE	A	34	19924	19532	17442	-5724	-953	-6619	C
ATOM	94	CE1	PHE	A	34	5.229	31.606	19.788	1.00152.39			C
ANISOU	94	CE1	PHE	A	34	19586	19948	18367	-5497	-895	-7102	C
ATOM	95	CE2	PHE	A	34	4.182	33.752	19.887	1.00151.32			C
ANISOU	95	CE2	PHE	A	34	20002	19940	17551	-5714	-651	-6726	C
ATOM	96	CZ	PHE	A	34	4.500	32.610	19.181	1.00156.12			C
ANISOU	96	CZ	PHE	A	34	20266	20622	18432	-5629	-618	-6986	C
ATOM	97	N	GLY	A	35	5.559	33.774	26.024	1.00200.81			N
ANISOU	97	N	GLY	A	35	26876	25575	23846	-5717	-2181	-6193	N
ATOM	98	CA	GLY	A	35	6.053	34.156	27.335	1.00204.40			C
ANISOU	98	CA	GLY	A	35	27456	26050	24157	-5807	-2522	-6128	C
ATOM	99	C	GLY	A	35	5.142	33.743	28.476	1.00201.65			C
ANISOU	99	C	GLY	A	35	27484	25640	23494	-5730	-2694	-5862	C
ATOM	100	O	GLY	A	35	3.941	34.018	28.442	1.00199.39			O
ANISOU	100	O	GLY	A	35	27503	25341	22914	-5730	-2443	-5771	O
ATOM	101	N	PRO	A	36	5.710	33.066	29.490	1.00198.70			N
ANISOU	101	N	PRO	A	36	27068	25274	23158	-5654	-3126	-5720	N
ATOM	102	CA	PRO	A	36	5.000	32.668	30.710	1.00192.57			C
ANISOU	102	CA	PRO	A	36	26659	24488	22021	-5633	-3324	-5424	C
ATOM	103	C	PRO	A	36	4.275	33.847	31.352	1.00181.91			C

ANISOU	103	C	PRO	A	36	25691	23263	20161	-5818	-3160	-5467	C
ATOM	104	O	PRO	A	36	4.787	34.966	31.343	1.00185.00			O
ANISOU	104	O	PRO	A	36	26079	23720	20494	-5981	-3116	-5705	O
ATOM	105	CB	PRO	A	36	6.128	32.178	31.617	1.00195.54			C
ANISOU	105	CB	PRO	A	36	26864	24939	22492	-5552	-3855	-5322	C
ATOM	106	CG	PRO	A	36	7.143	31.645	30.672	1.00193.89			C
ANISOU	106	CG	PRO	A	36	26149	24674	22848	-5380	-3907	-5498	C
ATOM	107	CD	PRO	A	36	7.093	32.555	29.472	1.00195.69			C
ANISOU	107	CD	PRO	A	36	26238	24948	23168	-5548	-3457	-5815	C
ATOM	108	N	CYS	A	37	3.096	33.592	31.907	1.00169.79			N
ANISOU	108	N	CYS	A	37	24484	21755	18273	-5806	-3052	-5262	N
ATOM	109	CA	CYS	A	37	2.218	34.663	32.364	1.00174.94			C
ANISOU	109	CA	CYS	A	37	25475	22531	18465	-5899	-2808	-5351	C
ATOM	110	C	CYS	A	37	2.661	35.319	33.672	1.00196.46			C
ANISOU	110	C	CYS	A	37	28417	25416	20814	-6047	-3072	-5417	C
ATOM	111	O	CYS	A	37	3.764	35.078	34.163	1.00208.64			O
ANISOU	111	O	CYS	A	37	29799	27020	22454	-6101	-3474	-5408	O
ATOM	112	CB	CYS	A	37	0.788	34.147	32.503	1.00164.06			C
ANISOU	112	CB	CYS	A	37	24287	21228	16820	-5849	-2572	-5152	C
ATOM	113	SG	CYS	A	37	-0.412	35.446	32.804	1.00170.06			S
ANISOU	113	SG	CYS	A	37	25360	22169	17086	-5837	-2189	-5321	S
ATOM	114	N	SER	A	38	1.784	36.152	34.227	1.00195.84			N
ANISOU	114	N	SER	A	38	28677	25444	20289	-6094	-2849	-5516	N
ATOM	115	CA	SER	A	38	2.071	36.864	35.467	1.00197.54			C
ANISOU	115	CA	SER	A	38	29146	25835	20074	-6258	-3042	-5662	C
ATOM	116	C	SER	A	38	0.823	37.006	36.334	1.00215.32			C
ANISOU	116	C	SER	A	38	31748	28304	21761	-6238	-2840	-5609	C
ATOM	117	O	SER	A	38	0.808	36.586	37.491	1.00229.87			O
ANISOU	117	O	SER	A	38	33744	30403	23194	-6334	-3083	-5450	O
ATOM	118	CB	SER	A	38	2.660	38.240	35.163	1.00181.42			C
ANISOU	118	CB	SER	A	38	27158	23646	18126	-6399	-2933	-6065	C
ATOM	119	OG	SER	A	38	3.817	38.123	34.357	1.00170.55			O
ANISOU	119	OG	SER	A	38	25409	22149	17242	-6472	-3076	-6128	O
ATOM	120	N	GLN	A	39	-0.220	37.610	35.772	1.00212.43			N
ANISOU	120	N	GLN	A	39	31486	27883	21346	-6097	-2394	-5736	N
ATOM	121	CA	GLN	A	39	-1.495	37.748	36.465	1.00214.81			C
ANISOU	121	CA	GLN	A	39	32024	28451	21143	-6032	-2133	-5728	C
ATOM	122	C	GLN	A	39	-2.547	36.911	35.748	1.00216.03			C
ANISOU	122	C	GLN	A	39	31995	28676	21409	-5901	-1875	-5481	C
ATOM	123	O	GLN	A	39	-2.424	36.650	34.557	1.00200.14			O
ANISOU	123	O	GLN	A	39	29741	26462	19842	-5808	-1800	-5442	O
ATOM	124	CB	GLN	A	39	-1.931	39.215	36.494	1.00209.39			C
ANISOU	124	CB	GLN	A	39	31592	27688	20277	-5920	-1822	-6131	C
ATOM	125	CG	GLN	A	39	-3.155	39.486	37.360	1.00204.97			C
ANISOU	125	CG	GLN	A	39	31254	27469	19156	-5821	-1551	-6223	C
ATOM	126	CD	GLN	A	39	-3.884	40.754	36.964	1.00196.78			C
ANISOU	126	CD	GLN	A	39	30387	26284	18097	-5529	-1150	-6564	C
ATOM	127	OE1	GLN	A	39	-3.494	41.439	36.018	1.00197.10			O
ANISOU	127	OE1	GLN	A	39	30432	25925	18531	-5424	-1075	-6677	O
ATOM	128	NE2	GLN	A	39	-4.953	41.072	37.686	1.00188.01			N
ANISOU	128	NE2	GLN	A	39	29421	25497	16517	-5379	-879	-6717	N
ATOM	129	N	LEU	A	40	-3.586	36.496	36.464	1.00233.29			N
ANISOU	129	N	LEU	A	40	34279	31196	23163	-5935	-1725	-5342	N
ATOM	130	CA	LEU	A	40	-4.680	35.755	35.846	1.00238.15			C
ANISOU	130	CA	LEU	A	40	34696	31949	23839	-5885	-1455	-5159	C
ATOM	131	C	LEU	A	40	-5.968	36.574	35.871	1.00236.13			C
ANISOU	131	C	LEU	A	40	34465	32000	23252	-5688	-1024	-5384	C
ATOM	132	O	LEU	A	40	-6.886	36.262	36.627	1.00252.60			O
ANISOU	132	O	LEU	A	40	36587	34490	24901	-5778	-854	-5306	O
ATOM	133	CB	LEU	A	40	-4.905	34.419	36.562	1.00246.83			C
ANISOU	133	CB	LEU	A	40	35829	33204	24749	-6138	-1601	-4762	C
ATOM	134	CG	LEU	A	40	-3.697	33.517	36.832	1.00245.54			C
ANISOU	134	CG	LEU	A	40	35693	32769	24830	-6265	-2075	-4479	C
ATOM	135	CD1	LEU	A	40	-3.061	33.829	38.184	1.00245.58			C
ANISOU	135	CD1	LEU	A	40	35969	32951	24390	-6379	-2384	-4450	C
ATOM	136	CD2	LEU	A	40	-4.093	32.051	36.749	1.00244.93			C
ANISOU	136	CD2	LEU	A	40	35575	32611	24876	-6427	-2106	-4071	C
ATOM	137	N	PRO	A	41	-6.044	37.626	35.042	1.00215.13			N
ANISOU	137	N	PRO	A	41	31781	29165	20793	-5404	-836	-5648	N
ATOM	138	CA	PRO	A	41	-7.198	38.516	35.062	1.00213.32			C

ANISOU	138	CA	PRO	A	41	31581	29183	20287	-5100	-457	-5879	C
ATOM	139	C	PRO	A	41	-8.078	38.210	33.870	1.00204.37			C
ANISOU	139	C	PRO	A	41	30096	28197	19358	-4904	-233	-5790	C
ATOM	140	O	PRO	A	41	-8.168	37.051	33.465	1.00193.21			O
ANISOU	140	O	PRO	A	41	28439	26868	18103	-5116	-307	-5549	O
ATOM	141	CB	PRO	A	41	-6.548	39.881	34.856	1.00218.10			C
ANISOU	141	CB	PRO	A	41	32449	29379	21038	-4908	-454	-6181	C
ATOM	142	CG	PRO	A	41	-5.297	39.574	34.003	1.00213.44			C
ANISOU	142	CG	PRO	A	41	31759	28382	20956	-5074	-727	-6055	C
ATOM	143	CD	PRO	A	41	-5.086	38.070	34.021	1.00205.64			C
ANISOU	143	CD	PRO	A	41	30528	27531	20076	-5329	-947	-5730	C
ATOM	144	N	ARG	A	42	-8.705	39.246	33.317	1.00247.96			N
ANISOU	144	N	ARG	A	42	39744	24910	29560	-5442	7422	-5569	N
ATOM	145	CA	ARG	A	42	-9.473	39.134	32.082	1.00249.28			C
ANISOU	145	CA	ARG	A	42	40221	24954	29541	-5075	7742	-4730	C
ATOM	146	C	ARG	A	42	-10.555	38.068	32.196	1.00248.98			C
ANISOU	146	C	ARG	A	42	40145	25553	28903	-4643	7062	-4051	C
ATOM	147	O	ARG	A	42	-10.876	37.391	31.219	1.00252.10			O
ANISOU	147	O	ARG	A	42	40543	26053	29189	-4357	6910	-3476	O
ATOM	148	CB	ARG	A	42	-8.534	38.831	30.913	1.00245.04			C
ANISOU	148	CB	ARG	A	42	39526	24181	29397	-5283	7950	-4773	C
ATOM	149	CG	ARG	A	42	-7.317	39.746	30.867	1.00252.59			C
ANISOU	149	CG	ARG	A	42	40395	24535	31041	-5816	8601	-5550	C
ATOM	150	CD	ARG	A	42	-6.240	39.210	29.942	1.00257.27			C
ANISOU	150	CD	ARG	A	42	40661	25069	32020	-6111	8653	-5764	C
ATOM	151	NE	ARG	A	42	-5.106	40.125	29.843	1.00271.36			N
ANISOU	151	NE	ARG	A	42	42343	26220	34540	-6653	9394	-6521	N
ATOM	152	CZ	ARG	A	42	-3.930	39.929	30.429	1.00279.14			C
ANISOU	152	CZ	ARG	A	42	42760	27262	36039	-7125	9097	-7488	C
ATOM	153	NH1	ARG	A	42	-3.720	38.840	31.154	1.00276.69			N
ANISOU	153	NH1	ARG	A	42	42009	27611	35512	-7105	8028	-7802	N
ATOM	154	NH2	ARG	A	42	-2.958	40.820	30.283	1.00287.21			N
ANISOU	154	NH2	ARG	A	42	43671	27638	37817	-7608	9856	-8177	N
ATOM	155	N	HIS	A	43	-11.091	37.924	33.407	1.00242.06			N
ANISOU	155	N	HIS	A	43	39226	25085	27663	-4591	6663	-4146	N
ATOM	156	CA	HIS	A	43	-12.106	36.921	33.746	1.00234.40			C
ANISOU	156	CA	HIS	A	43	38187	24729	26143	-4268	6043	-3579	C
ATOM	157	C	HIS	A	43	-11.790	35.497	33.271	1.00223.19			C
ANISOU	157	C	HIS	A	43	36410	23746	24648	-4259	5278	-3306	C
ATOM	158	O	HIS	A	43	-12.683	34.655	33.182	1.00219.47			O
ANISOU	158	O	HIS	A	43	35886	23672	23830	-3937	4845	-2700	O
ATOM	159	CB	HIS	A	43	-13.503	37.359	33.283	1.00244.59			C
ANISOU	159	CB	HIS	A	43	39844	25881	27209	-3765	6458	-2942	C
ATOM	160	CG	HIS	A	43	-13.729	37.223	31.808	1.00258.63			C
ANISOU	160	CG	HIS	A	43	41777	27350	29141	-3429	6682	-2416	C
ATOM	161	ND1	HIS	A	43	-13.939	36.007	31.196	1.00258.63			N
ANISOU	161	ND1	HIS	A	43	41528	27711	29028	-3182	6096	-1923	N
ATOM	162	CD2	HIS	A	43	-13.779	38.154	30.826	1.00266.88			C
ANISOU	162	CD2	HIS	A	43	43251	27730	30422	-3257	7403	-2312	C
ATOM	163	CE1	HIS	A	43	-14.107	36.193	29.898	1.00259.88			C
ANISOU	163	CE1	HIS	A	43	41938	27456	29347	-2827	6439	-1553	C
ATOM	164	NE2	HIS	A	43	-14.014	37.486	29.648	1.00265.31			N
ANISOU	164	NE2	HIS	A	43	43082	27505	30218	-2872	7251	-1770	N
ATOM	165	N	THR	A	44	-10.523	35.234	32.968	1.00216.02			N
ANISOU	165	N	THR	A	44	35220	22755	24102	-4611	5094	-3795	N
ATOM	166	CA	THR	A	44	-10.097	33.896	32.581	1.00197.38			C
ANISOU	166	CA	THR	A	44	32478	20829	21687	-4628	4266	-3666	C
ATOM	167	C	THR	A	44	-9.950	33.042	33.832	1.00203.27			C
ANISOU	167	C	THR	A	44	33039	22114	22082	-4801	3369	-3961	C
ATOM	168	O	THR	A	44	-10.094	31.821	33.785	1.00205.35			O
ANISOU	168	O	THR	A	44	33087	22851	22085	-4703	2545	-3642	O
ATOM	169	CB	THR	A	44	-8.768	33.916	31.805	1.00187.68			C
ANISOU	169	CB	THR	A	44	30986	19340	20983	-4952	4377	-4176	C
ATOM	170	OG1	THR	A	44	-7.743	34.494	32.621	1.00200.02			O
ANISOU	170	OG1	THR	A	44	32433	20687	22880	-5422	4488	-5134	O
ATOM	171	CG2	THR	A	44	-8.910	34.723	30.522	1.00176.78			C
ANISOU	171	CG2	THR	A	44	29898	17394	19878	-4772	5305	-3823	C
ATOM	172	N	LEU	A	45	-9.661	33.696	34.952	1.00209.17			N
ANISOU	172	N	LEU	A	45	33910	22753	22811	-5026	3508	-4576	N
ATOM	173	CA	LEU	A	45	-9.615	33.020	36.240	1.00210.55			C

ANISOU	173	CA	LEU	A	45	34076	23366	22555	-5120	2735	-4855	C
ATOM	174	C	LEU	A	45	-11.029	32.626	36.638	1.00206.97			C
ANISOU	174	C	LEU	A	45	33836	23296	21508	-4796	2645	-4066	C
ATOM	175	O	LEU	A	45	-11.241	31.604	37.289	1.00201.59			O
ANISOU	175	O	LEU	A	45	33137	23080	20378	-4798	1892	-3905	O
ATOM	176	CB	LEU	A	45	-9.001	33.926	37.306	1.00219.50			C
ANISOU	176	CB	LEU	A	45	35331	24231	23836	-5335	2955	-5728	C
ATOM	177	CG	LEU	A	45	-8.713	33.263	38.655	1.00218.21			C
ANISOU	177	CG	LEU	A	45	35239	24428	23242	-5410	2110	-6194	C
ATOM	178	CD1	LEU	A	45	-7.803	32.062	38.459	1.00214.05			C
ANISOU	178	CD1	LEU	A	45	34423	24141	22767	-5593	1142	-6515	C
ATOM	179	CD2	LEU	A	45	-8.097	34.257	39.630	1.00220.33			C
ANISOU	179	CD2	LEU	A	45	35625	24356	23736	-5516	2347	-7107	C
ATOM	180	N	GLN	A	46	-11.995	33.450	36.243	1.00211.82			N
ANISOU	180	N	GLN	A	46	34667	23678	22138	-4525	3420	-3611	N
ATOM	181	CA	GLN	A	46	-13.402	33.130	36.436	1.00214.70			C
ANISOU	181	CA	GLN	A	46	35163	24353	22060	-4193	3434	-2892	C
ATOM	182	C	GLN	A	46	-13.800	32.021	35.471	1.00203.03			C
ANISOU	182	C	GLN	A	46	33454	23106	20583	-3955	2969	-2211	C
ATOM	183	O	GLN	A	46	-14.571	31.126	35.820	1.00199.03			O
ANISOU	183	O	GLN	A	46	32885	23023	19715	-3821	2510	-1734	O
ATOM	184	CB	GLN	A	46	-14.273	34.366	36.207	1.00226.98			C
ANISOU	184	CB	GLN	A	46	37002	25543	23698	-3934	4334	-2728	C
ATOM	185	CG	GLN	A	46	-15.760	34.120	36.413	1.00230.75			C
ANISOU	185	CG	GLN	A	46	37568	26311	23795	-3585	4402	-2112	C
ATOM	186	CD	GLN	A	46	-16.603	35.340	36.096	1.00234.35			C
ANISOU	186	CD	GLN	A	46	38305	26375	24360	-3289	5204	-2043	C
ATOM	187	OE1	GLN	A	46	-16.098	36.351	35.606	1.00233.94			O
ANISOU	187	OE1	GLN	A	46	38431	25795	24661	-3331	5717	-2356	O
ATOM	188	NE2	GLN	A	46	-17.899	35.252	36.377	1.00235.54			N
ANISOU	188	NE2	GLN	A	46	38505	26763	24227	-2997	5309	-1667	N
ATOM	189	N	LYS	A	47	-13.265	32.091	34.254	1.00191.74			N
ANISOU	189	N	LYS	A	47	31899	21377	19577	-3890	3106	-2175	N
ATOM	190	CA	LYS	A	47	-13.462	31.043	33.260	1.00167.53			C
ANISOU	190	CA	LYS	A	47	28575	18509	16571	-3616	2587	-1616	C
ATOM	191	C	LYS	A	47	-12.887	29.734	33.783	1.00160.76			C
ANISOU	191	C	LYS	A	47	27413	18162	15505	-3856	1523	-1740	C
ATOM	192	O	LYS	A	47	-13.468	28.666	33.589	1.00158.36			O
ANISOU	192	O	LYS	A	47	26925	18217	15029	-3632	899	-1185	O
ATOM	193	CB	LYS	A	47	-12.792	31.421	31.938	1.00162.24			C
ANISOU	193	CB	LYS	A	47	27868	17419	16358	-3540	2953	-1678	C
ATOM	194	CG	LYS	A	47	-12.835	30.328	30.879	1.00157.25			C
ANISOU	194	CG	LYS	A	47	26938	17005	15806	-3217	2344	-1185	C
ATOM	195	CD	LYS	A	47	-12.080	30.741	29.625	1.00157.56			C
ANISOU	195	CD	LYS	A	47	26989	16635	16243	-3164	2770	-1302	C
ATOM	196	CE	LYS	A	47	-12.111	29.646	28.570	1.00153.68			C
ANISOU	196	CE	LYS	A	47	26186	16393	15811	-2771	2110	-835	C
ATOM	197	NZ	LYS	A	47	-11.395	30.048	27.325	1.00153.52			N
ANISOU	197	NZ	LYS	A	47	26227	15986	16118	-2688	2586	-925	N
ATOM	198	N	ALA	A	48	-11.741	29.826	34.449	1.00163.42			N
ANISOU	198	N	ALA	A	48	27709	18492	15891	-4290	1276	-2518	N
ATOM	199	CA	ALA	A	48	-11.155	28.673	35.116	1.00163.76			C
ANISOU	199	CA	ALA	A	48	27580	18963	15677	-4521	211	-2781	C
ATOM	200	C	ALA	A	48	-12.122	28.154	36.171	1.00173.60			C
ANISOU	200	C	ALA	A	48	29046	20578	16337	-4455	-91	-2377	C
ATOM	201	O	ALA	A	48	-12.366	26.955	36.260	1.00172.93			O
ANISOU	201	O	ALA	A	48	28837	20882	15986	-4411	-911	-1998	O
ATOM	202	CB	ALA	A	48	-9.827	29.042	35.746	1.00166.15			C
ANISOU	202	CB	ALA	A	48	27869	19096	16163	-4935	69	-3818	C
ATOM	203	N	LYS	A	49	-12.690	29.068	36.953	1.00187.13			N
ANISOU	203	N	LYS	A	49	31085	22162	17854	-4448	592	-2451	N
ATOM	204	CA	LYS	A	49	-13.670	28.703	37.972	1.00197.45			C
ANISOU	204	CA	LYS	A	49	32627	23806	18588	-4395	489	-2077	C
ATOM	205	C	LYS	A	49	-14.911	28.052	37.362	1.00190.02			C
ANISOU	205	C	LYS	A	49	31535	23072	17593	-4065	467	-1161	C
ATOM	206	O	LYS	A	49	-15.656	27.354	38.050	1.00183.61			O
ANISOU	206	O	LYS	A	49	30808	22602	16354	-4066	184	-765	O
ATOM	207	CB	LYS	A	49	-14.071	29.925	38.804	1.00212.47			C
ANISOU	207	CB	LYS	A	49	34859	25528	20341	-4393	1299	-2360	C
ATOM	208	CG	LYS	A	49	-12.978	30.444	39.729	1.00217.13			C

ANISOU	208	CG	LYS	A	49	35627	25965	20908	-4665	1191	-3285	C
ATOM	209	CD	LYS	A	49	-13.480	31.589	40.600	1.00210.74			C
ANISOU	209	CD	LYS	A	49	35122	25035	19913	-4590	1907	-3514	C
ATOM	210	CE	LYS	A	49	-12.408	32.054	41.576	1.00201.67			C
ANISOU	210	CE	LYS	A	49	34140	23719	18766	-4773	1705	-4470	C
ATOM	211	NZ	LYS	A	49	-12.897	33.144	42.465	1.00196.82			N
ANISOU	211	NZ	LYS	A	49	33804	23024	17957	-4642	2318	-4706	N
ATOM	212	N	ASP	A	50	-15.123	28.281	36.069	1.00192.53			N
ANISOU	212	N	ASP	A	50	31646	23145	18363	-3764	771	-851	N
ATOM	213	CA	ASP	A	50	-16.259	27.698	35.363	1.00200.24			C
ANISOU	213	CA	ASP	A	50	32438	24233	19413	-3349	707	-68	C
ATOM	214	C	ASP	A	50	-15.960	26.289	34.845	1.00193.75			C
ANISOU	214	C	ASP	A	50	31258	23711	18648	-3298	-315	250	C
ATOM	215	O	ASP	A	50	-16.773	25.691	34.139	1.00188.25			O
ANISOU	215	O	ASP	A	50	30325	23086	18114	-2905	-512	867	O
ATOM	216	CB	ASP	A	50	-16.714	28.610	34.223	1.00212.21			C
ANISOU	216	CB	ASP	A	50	33992	25294	21345	-2933	1461	103	C
ATOM	217	CG	ASP	A	50	-17.206	29.957	34.719	1.00222.36			C
ANISOU	217	CG	ASP	A	50	35630	26294	22563	-2927	2393	-151	C
ATOM	218	OD1	ASP	A	50	-17.684	30.030	35.872	1.00224.55			O
ANISOU	218	OD1	ASP	A	50	36046	26819	22454	-3093	2487	-221	O
ATOM	219	OD2	ASP	A	50	-17.115	30.944	33.959	1.00225.89			O
ANISOU	219	OD2	ASP	A	50	36244	26264	23320	-2746	3019	-282	O
ATOM	220	N	GLU	A	51	-14.784	25.772	35.189	1.00189.87			N
ANISOU	220	N	GLU	A	51	30709	23373	18060	-3657	-1016	-232	N
ATOM	221	CA	GLU	A	51	-14.481	24.356	34.994	1.00172.76			C
ANISOU	221	CA	GLU	A	51	28250	21563	15829	-3674	-2151	-13	C
ATOM	222	C	GLU	A	51	-13.976	23.740	36.301	1.00174.78			C
ANISOU	222	C	GLU	A	51	28743	22096	15568	-4097	-2845	-381	C
ATOM	223	O	GLU	A	51	-12.888	23.164	36.361	1.00169.20			O
ANISOU	223	O	GLU	A	51	27944	21495	14851	-4321	-3670	-874	O
ATOM	224	CB	GLU	A	51	-13.492	24.135	33.842	1.00148.72			C
ANISOU	224	CB	GLU	A	51	24856	18435	13217	-3595	-2544	-254	C
ATOM	225	CG	GLU	A	51	-12.337	25.113	33.789	1.00149.37			C
ANISOU	225	CG	GLU	A	51	25026	18193	13535	-3883	-2067	-1077	C
ATOM	226	CD	GLU	A	51	-10.984	24.428	33.801	1.00148.73			C
ANISOU	226	CD	GLU	A	51	24700	18281	13529	-4192	-2984	-1737	C
ATOM	227	OE1	GLU	A	51	-10.729	23.612	34.712	1.00149.28			O
ANISOU	227	OE1	GLU	A	51	24846	18649	13223	-4421	-3851	-1943	O
ATOM	228	OE2	GLU	A	51	-10.172	24.705	32.894	1.00148.05			O
ANISOU	228	OE2	GLU	A	51	24371	18014	13868	-4202	-2841	-2081	O
ATOM	229	N	LEU	A	52	-14.788	23.886	37.345	1.00174.66			N
ANISOU	229	N	LEU	A	52	29071	22181	15110	-4178	-2499	-177	N
ATOM	230	CA	LEU	A	52	-14.524	23.299	38.657	1.00185.51			C
ANISOU	230	CA	LEU	A	52	30818	23790	15876	-4505	-3077	-409	C
ATOM	231	C	LEU	A	52	-13.219	23.767	39.300	1.00197.38			C
ANISOU	231	C	LEU	A	52	32570	25137	17289	-4792	-3273	-1401	C
ATOM	232	O	LEU	A	52	-12.523	22.982	39.937	1.00213.14			O
ANISOU	232	O	LEU	A	52	34757	27281	18947	-5001	-4201	-1767	O
ATOM	233	CB	LEU	A	52	-14.562	21.767	38.587	1.00183.72			C
ANISOU	233	CB	LEU	A	52	30447	23890	15469	-4535	-4223	15	C
ATOM	234	CG	LEU	A	52	-15.893	21.137	38.172	1.00187.42			C
ANISOU	234	CG	LEU	A	52	30672	24519	16021	-4271	-4154	971	C
ATOM	235	CD1	LEU	A	52	-15.819	19.619	38.254	1.00192.44			C
ANISOU	235	CD1	LEU	A	52	31209	25450	16459	-4358	-5371	1322	C
ATOM	236	CD2	LEU	A	52	-17.030	21.670	39.030	1.00191.81			C
ANISOU	236	CD2	LEU	A	52	31547	25088	16244	-4297	-3251	1273	C
ATOM	237	N	ASN	A	53	-12.895	25.046	39.144	1.00187.81			N
ANISOU	237	N	ASN	A	53	31372	23586	16403	-4780	-2436	-1877	N
ATOM	238	CA	ASN	A	53	-11.709	25.603	39.787	1.00183.88			C
ANISOU	238	CA	ASN	A	53	31064	22874	15929	-5018	-2536	-2883	C
ATOM	239	C	ASN	A	53	-12.068	26.549	40.924	1.00192.26			C
ANISOU	239	C	ASN	A	53	32573	23825	16653	-5033	-1854	-3141	C
ATOM	240	O	ASN	A	53	-13.049	27.288	40.848	1.00187.99			O
ANISOU	240	O	ASN	A	53	32075	23229	16123	-4864	-968	-2711	O
ATOM	241	CB	ASN	A	53	-10.819	26.316	38.765	1.00177.59			C
ANISOU	241	CB	ASN	A	53	29904	21727	15845	-5044	-2193	-3384	C
ATOM	242	CG	ASN	A	53	-9.589	26.952	39.393	1.00182.53			C
ANISOU	242	CG	ASN	A	53	30639	22068	16647	-5288	-2240	-4505	C
ATOM	243	OD1	ASN	A	53	-9.166	26.575	40.486	1.00191.82			O

ANISOU	243	OD1	ASN	A	53	32126	23338	17418	-5404	-2871	-5005	O
ATOM	244	ND2	ASN	A	53	-9.001	27.914	38.693	1.00180	.02		N
ANISOU	244	ND2	ASN	A	53	30087	21355	16956	-5345	-1580	-4931	N
ATOM	245	N	GLU	A	54	-11.267	26.511	41.983	1.00203	.43		N
ANISOU	245	N	GLU	A	54	34328	25203	17764	-5189	-2334	-3897	N
ATOM	246	CA	GLU	A	54	-11.419	27.440	43.094	1.00209	.80		C
ANISOU	246	CA	GLU	A	54	35553	25884	18275	-5149	-1786	-4291	C
ATOM	247	C	GLU	A	54	-10.086	28.117	43.396	1.00205	.29		C
ANISOU	247	C	GLU	A	54	34982	24936	18083	-5243	-1929	-5451	C
ATOM	248	O	GLU	A	54	-9.049	27.458	43.498	1.00199	.44		O
ANISOU	248	O	GLU	A	54	34215	24162	17400	-5371	-2837	-6078	O
ATOM	249	CB	GLU	A	54	-11.959	26.725	44.332	1.00220	.54		C
ANISOU	249	CB	GLU	A	54	37471	27562	18762	-5147	-2194	-4036	C
ATOM	250	CG	GLU	A	54	-13.330	26.097	44.129	1.00225	.69		C
ANISOU	250	CG	GLU	A	54	38094	28559	19099	-5088	-1959	-2933	C
ATOM	251	CD	GLU	A	54	-13.843	25.394	45.370	1.00235	.81		C
ANISOU	251	CD	GLU	A	54	39971	30126	19502	-5145	-2268	-2667	C
ATOM	252	OE1	GLU	A	54	-13.086	25.297	46.358	1.00243	.65		O
ANISOU	252	OE1	GLU	A	54	41461	31045	20068	-5187	-2793	-3332	O
ATOM	253	OE2	GLU	A	54	-15.006	24.939	45.356	1.00234	.04		O
ANISOU	253	OE2	GLU	A	54	39738	30164	19022	-5132	-1974	-1820	O
ATOM	254	N	ARG	A	55	-10.128	29.438	43.536	1.00203	.56		N
ANISOU	254	N	ARG	A	55	34768	24411	18163	-5166	-1059	-5780	N
ATOM	255	CA	ARG	A	55	-8.933	30.250	43.741	1.00199	.25		C
ANISOU	255	CA	ARG	A	55	34135	23427	18142	-5240	-1033	-6883	C
ATOM	256	C	ARG	A	55	-8.204	29.877	45.031	1.00204	.23		C
ANISOU	256	C	ARG	A	55	35186	24053	18360	-5205	-1867	-7714	C
ATOM	257	O	ARG	A	55	-7.007	30.121	45.170	1.00205	.47		O
ANISOU	257	O	ARG	A	55	35218	23870	18981	-5274	-2236	-8761	O
ATOM	258	CB	ARG	A	55	-9.318	31.734	43.760	1.00197	.31		C
ANISOU	258	CB	ARG	A	55	33879	22873	18217	-5125	50	-6963	C
ATOM	259	CG	ARG	A	55	-8.147	32.708	43.724	1.00201	.77		C
ANISOU	259	CG	ARG	A	55	34234	22899	19532	-5223	255	-8020	C
ATOM	260	CD	ARG	A	55	-8.630	34.152	43.822	1.00208	.73		C
ANISOU	260	CD	ARG	A	55	35160	23484	20663	-5088	1257	-8034	C
ATOM	261	NE	ARG	A	55	-7.526	35.107	43.776	1.00221	.08		N
ANISOU	261	NE	ARG	A	55	36495	24480	23024	-5201	1488	-9030	N
ATOM	262	CZ	ARG	A	55	-7.670	36.423	43.899	1.00229	.24		C
ANISOU	262	CZ	ARG	A	55	37537	25151	24413	-5110	2244	-9259	C
ATOM	263	NH1	ARG	A	55	-8.875	36.947	44.079	1.00228	.19		N
ANISOU	263	NH1	ARG	A	55	37637	25194	23870	-4887	2806	-8600	N
ATOM	264	NH2	ARG	A	55	-6.609	37.218	43.845	1.00234	.20		N
ANISOU	264	NH2	ARG	A	55	37915	25227	25843	-5243	2416	-10189	N
ATOM	265	N	GLU	A	56	-8.929	29.266	45.962	1.00195	.55		N
ANISOU	265	N	GLU	A	56	19919	33593	20786	-9004	-461	-6749	N
ATOM	266	CA	GLU	A	56	-8.399	28.994	47.295	1.00218	.73		C
ANISOU	266	CA	GLU	A	56	23042	37277	22788	-9257	-512	-6745	C
ATOM	267	C	GLU	A	56	-7.461	27.787	47.387	1.00223	.29		C
ANISOU	267	C	GLU	A	56	23537	38321	22981	-9300	-791	-5925	C
ATOM	268	O	GLU	A	56	-6.562	27.613	46.563	1.00219	.56		O
ANISOU	268	O	GLU	A	56	22915	37673	22835	-9275	-1171	-5496	O
ATOM	269	CB	GLU	A	56	-9.537	28.866	48.316	1.00224	.23		C
ANISOU	269	CB	GLU	A	56	23882	38268	23047	-9190	73	-7059	C
ATOM	270	CG	GLU	A	56	-10.818	28.245	47.774	1.00214	.63		C
ANISOU	270	CG	GLU	A	56	22438	36669	22443	-8893	549	-6828	C
ATOM	271	CD	GLU	A	56	-11.756	29.270	47.157	1.00210	.31		C
ANISOU	271	CD	GLU	A	56	21831	35436	22641	-8755	768	-7443	C
ATOM	272	OE1	GLU	A	56	-11.301	30.394	46.854	1.00210	.90		O
ANISOU	272	OE1	GLU	A	56	21997	35227	22908	-8866	493	-7932	O
ATOM	273	OE2	GLU	A	56	-12.951	28.954	46.981	1.00208	.70		O
ANISOU	273	OE2	GLU	A	56	21448	34946	22902	-8539	1201	-7405	O
ATOM	274	N	GLU	A	57	-7.688	26.959	48.403	1.00228	.02		N
ANISOU	274	N	GLU	A	57	24226	39517	22895	-9328	-555	-5672	N
ATOM	275	CA	GLU	A	57	-6.763	25.890	48.778	1.00224	.42		C
ANISOU	275	CA	GLU	A	57	23723	39605	21940	-9412	-823	-4943	C
ATOM	276	C	GLU	A	57	-6.758	24.700	47.817	1.00205	.23		C
ANISOU	276	C	GLU	A	57	21025	36910	20045	-9169	-842	-4176	C
ATOM	277	O	GLU	A	57	-6.080	23.702	48.065	1.00199	.45		O
ANISOU	277	O	GLU	A	57	20218	36568	18996	-9195	-1018	-3517	O
ATOM	278	CB	GLU	A	57	-7.088	25.402	50.194	1.00237	.54		C

ANISOU	278	CB	GLU	A	57	25580	41996	22678	-9470	-513	-4883	C
ATOM	279	CG	GLU	A	57	-7.247	26.520	51.218	1.00248.36			C
ANISOU	279	CG	GLU	A	57	27310	43652	23402	-9605	-445	-5723	C
ATOM	280	CD	GLU	A	57	-7.836	26.037	52.530	1.00256.05			C
ANISOU	280	CD	GLU	A	57	28514	45318	23454	-9513	40	-5659	C
ATOM	281	OE1	GLU	A	57	-8.085	24.821	52.662	1.00254.36			O
ANISOU	281	OE1	GLU	A	57	28121	45352	23171	-9390	316	-4890	O
ATOM	282	OE2	GLU	A	57	-8.055	26.873	53.432	1.00264.10			O
ANISOU	282	OE2	GLU	A	57	29899	46623	23824	-9530	159	-6365	O
ATOM	283	N	THR	A	58	-7.516	24.800	46.731	1.00196.01			N
ANISOU	283	N	THR	A	58	19729	35065	19682	-8909	-699	-4284	N
ATOM	284	CA	THR	A	58	-7.636	23.695	45.785	1.00183.88			C
ANISOU	284	CA	THR	A	58	17997	33201	18666	-8612	-765	-3681	C
ATOM	285	C	THR	A	58	-6.322	23.367	45.077	1.00171.94			C
ANISOU	285	C	THR	A	58	16429	31695	17207	-8552	-1229	-3183	C
ATOM	286	O	THR	A	58	-5.837	22.239	45.157	1.00169.72			O
ANISOU	286	O	THR	A	58	16057	31665	16765	-8489	-1348	-2539	O
ATOM	287	CB	THR	A	58	-8.730	23.966	44.733	1.00178.91			C
ANISOU	287	CB	THR	A	58	17287	31816	18874	-8309	-613	-3981	C
ATOM	288	OG1	THR	A	58	-8.555	25.278	44.185	1.00182.31			O
ANISOU	288	OG1	THR	A	58	17806	31903	19562	-8329	-732	-4515	O
ATOM	289	CG2	THR	A	58	-10.109	23.866	45.366	1.00170.48			C
ANISOU	289	CG2	THR	A	58	16151	30709	17917	-8296	-106	-4220	C
ATOM	290	N	ARG	A	59	-5.754	24.361	44.399	1.00165.82			N
ANISOU	290	N	ARG	A	59	15677	30628	16700	-8552	-1455	-3441	N
ATOM	291	CA	ARG	A	59	-4.576	24.170	43.554	1.00169.57			C
ANISOU	291	CA	ARG	A	59	16056	31015	17358	-8407	-1802	-2939	C
ATOM	292	C	ARG	A	59	-3.395	23.545	44.291	1.00181.96			C
ANISOU	292	C	ARG	A	59	17552	33196	18387	-8636	-2061	-2398	C
ATOM	293	O	ARG	A	59	-2.723	22.656	43.763	1.00161.35			O
ANISOU	293	O	ARG	A	59	14832	30607	15869	-8418	-2214	-1753	O
ATOM	294	CB	ARG	A	59	-4.136	25.506	42.958	1.00160.78			C
ANISOU	294	CB	ARG	A	59	14930	29556	16603	-8445	-1940	-3284	C
ATOM	295	CG	ARG	A	59	-5.272	26.466	42.669	1.00160.42			C
ANISOU	295	CG	ARG	A	59	14969	29027	16956	-8379	-1694	-3980	C
ATOM	296	CD	ARG	A	59	-4.726	27.782	42.152	1.00192.02			C
ANISOU	296	CD	ARG	A	59	18917	32695	21347	-8446	-1849	-4239	C
ATOM	297	NE	ARG	A	59	-5.777	28.766	41.916	1.00190.36			N
ANISOU	297	NE	ARG	A	59	18773	32011	21543	-8397	-1625	-4908	N
ATOM	298	CZ	ARG	A	59	-5.563	29.966	41.388	1.00187.52			C
ANISOU	298	CZ	ARG	A	59	18352	31237	21660	-8411	-1699	-5175	C
ATOM	299	NH1	ARG	A	59	-4.334	30.329	41.040	1.00181.60			N
ANISOU	299	NH1	ARG	A	59	17444	30482	21074	-8477	-1975	-4798	N
ATOM	300	NH2	ARG	A	59	-6.574	30.804	41.207	1.00189.31			N
ANISOU	300	NH2	ARG	A	59	18629	31027	22272	-8353	-1485	-5770	N
ATOM	301	N	GLU	A	60	-3.153	24.022	45.507	1.00195.66			N
ANISOU	301	N	GLU	A	60	19371	35420	19551	-9042	-2131	-2685	N
ATOM	302	CA	GLU	A	60	-2.000	23.606	46.298	1.00207.96			C
ANISOU	302	CA	GLU	A	60	20870	37576	20570	-9299	-2469	-2245	C
ATOM	303	C	GLU	A	60	-1.995	22.109	46.591	1.00211.43			C
ANISOU	303	C	GLU	A	60	21243	38358	20735	-9171	-2386	-1546	C
ATOM	304	O	GLU	A	60	-1.043	21.405	46.254	1.00209.77			O
ANISOU	304	O	GLU	A	60	20864	38247	20594	-9082	-2632	-888	O
ATOM	305	CB	GLU	A	60	-1.957	24.391	47.609	1.00222.18			C
ANISOU	305	CB	GLU	A	60	22866	39830	21723	-9695	-2581	-2808	C
ATOM	306	CG	GLU	A	60	-1.929	25.897	47.416	1.00227.97			C
ANISOU	306	CG	GLU	A	60	23652	40185	22781	-9853	-2720	-3542	C
ATOM	307	CD	GLU	A	60	-2.288	26.653	48.678	1.00236.97			C
ANISOU	307	CD	GLU	A	60	25088	41671	23279	-10127	-2731	-4292	C
ATOM	308	OE1	GLU	A	60	-2.427	26.010	49.740	1.00234.61			O
ANISOU	308	OE1	GLU	A	60	24966	41993	22183	-10188	-2647	-4176	O
ATOM	309	OE2	GLU	A	60	-2.437	27.891	48.605	1.00243.69			O
ANISOU	309	OE2	GLU	A	60	26012	42167	24412	-10243	-2813	-4992	O
ATOM	310	N	GLU	A	61	-3.063	21.628	47.215	1.00215.81			N
ANISOU	310	N	GLU	A	61	21895	39063	21039	-9144	-2013	-1650	N
ATOM	311	CA	GLU	A	61	-3.141	20.229	47.618	1.00211.52			C
ANISOU	311	CA	GLU	A	61	21253	38830	20284	-9052	-1906	-966	C
ATOM	312	C	GLU	A	61	-3.383	19.285	46.445	1.00186.43			C
ANISOU	312	C	GLU	A	61	17908	35110	17815	-8654	-1878	-530	C
ATOM	313	O	GLU	A	61	-2.983	18.123	46.490	1.00169.58			O

ANISOU	313	O	GLU	A	61	15640	33133	15659	-8550	-1968	146	O
ATOM	314	CB	GLU	A	61	-4.222	20.035	48.682	1.00225.09			C
ANISOU	314	CB	GLU	A	61	23081	40872	21573	-9125	-1456	-1135	C
ATOM	315	CG	GLU	A	61	-3.941	20.761	49.985	1.00234.46			C
ANISOU	315	CG	GLU	A	61	24519	42712	21855	-9435	-1501	-1516	C
ATOM	316	CD	GLU	A	61	-4.961	20.440	51.057	1.00242.19			C
ANISOU	316	CD	GLU	A	61	25618	44090	22312	-9407	-963	-1541	C
ATOM	317	OE1	GLU	A	61	-5.838	19.586	50.807	1.00240.47			O
ANISOU	317	OE1	GLU	A	61	25202	43625	22539	-9195	-571	-1164	O
ATOM	318	OE2	GLU	A	61	-4.886	21.042	52.148	1.00250.52			O
ANISOU	318	OE2	GLU	A	61	26963	45692	22531	-9567	-939	-1929	O
ATOM	319	N	ALA	A	62	-4.037	19.786	45.400	1.00187.07			N
ANISOU	319	N	ALA	A	62	18020	34541	18520	-8405	-1790	-937	N
ATOM	320	CA	ALA	A	62	-4.361	18.967	44.234	1.00186.97			C
ANISOU	320	CA	ALA	A	62	17928	33960	19154	-7961	-1833	-658	C
ATOM	321	C	ALA	A	62	-3.111	18.343	43.624	1.00158.41			C
ANISOU	321	C	ALA	A	62	14237	30383	15569	-7759	-2157	-49	C
ATOM	322	O	ALA	A	62	-3.111	17.172	43.250	1.00157.19			O
ANISOU	322	O	ALA	A	62	14005	30072	15648	-7475	-2225	426	O
ATOM	323	CB	ALA	A	62	-5.106	19.789	43.195	1.00156.96			C
ANISOU	323	CB	ALA	A	62	14218	29502	15918	-7713	-1774	-1226	C
ATOM	324	N	VAL	A	63	-2.047	19.133	43.534	1.00158.79			N
ANISOU	324	N	VAL	A	63	14280	30606	15447	-7892	-2353	-52	N
ATOM	325	CA	VAL	A	63	-0.761	18.629	43.080	1.00171.82			C
ANISOU	325	CA	VAL	A	63	15803	32361	17119	-7724	-2606	587	C
ATOM	326	C	VAL	A	63	-0.234	17.604	44.078	1.00180.85			C
ANISOU	326	C	VAL	A	63	16816	34070	17827	-7934	-2706	1176	C
ATOM	327	O	VAL	A	63	0.288	16.556	43.695	1.00182.53			O
ANISOU	327	O	VAL	A	63	16921	34251	18182	-7659	-2808	1785	O
ATOM	328	CB	VAL	A	63	0.258	19.772	42.919	1.00169.70			C
ANISOU	328	CB	VAL	A	63	15461	32164	16855	-7895	-2786	509	C
ATOM	329	CG1	VAL	A	63	1.665	19.221	42.719	1.00163.40			C
ANISOU	329	CG1	VAL	A	63	14444	31587	16054	-7797	-3018	1270	C
ATOM	330	CG2	VAL	A	63	-0.143	20.676	41.765	1.00155.89			C
ANISOU	330	CG2	VAL	A	63	13810	29820	15602	-7592	-2673	100	C
ATOM	331	N	ARG	A	64	-0.389	17.912	45.361	1.00191.38			N
ANISOU	331	N	ARG	A	64	18185	35922	18607	-8381	-2672	987	N
ATOM	332	CA	ARG	A	64	0.051	17.022	46.427	1.00209.22			C
ANISOU	332	CA	ARG	A	64	20352	38789	20354	-8586	-2758	1543	C
ATOM	333	C	ARG	A	64	-0.727	15.710	46.386	1.00195.67			C
ANISOU	333	C	ARG	A	64	18567	36915	18862	-8341	-2534	1938	C
ATOM	334	O	ARG	A	64	-0.153	14.634	46.545	1.00202.25			O
ANISOU	334	O	ARG	A	64	19242	37939	19662	-8262	-2658	2635	O
ATOM	335	CB	ARG	A	64	-0.115	17.699	47.791	1.00229.40			C
ANISOU	335	CB	ARG	A	64	23054	41927	22180	-9026	-2739	1162	C
ATOM	336	CG	ARG	A	64	0.447	16.905	48.959	1.00233.43			C
ANISOU	336	CG	ARG	A	64	23511	43153	22027	-9230	-2881	1745	C
ATOM	337	CD	ARG	A	64	0.209	17.620	50.278	1.00236.89			C
ANISOU	337	CD	ARG	A	64	24198	44175	21632	-9566	-2862	1282	C
ATOM	338	NE	ARG	A	64	-1.215	17.801	50.545	1.00245.38			N
ANISOU	338	NE	ARG	A	64	25444	45130	22660	-9488	-2327	821	N
ATOM	339	CZ	ARG	A	64	-1.975	16.910	51.172	1.00264.11			C
ANISOU	339	CZ	ARG	A	64	27795	47743	24814	-9398	-1932	1199	C
ATOM	340	NH1	ARG	A	64	-1.449	15.770	51.600	1.00270.38			N
ANISOU	340	NH1	ARG	A	64	28431	48911	25390	-9380	-2034	2029	N
ATOM	341	NH2	ARG	A	64	-3.263	17.156	51.370	1.00273.62			N
ANISOU	341	NH2	ARG	A	64	29091	48791	26080	-9315	-1413	800	N
ATOM	342	N	GLU	A	65	-2.034	15.806	46.166	1.00175.23			N
ANISOU	342	N	GLU	A	65	16054	33931	16592	-8224	-2227	1511	N
ATOM	343	CA	GLU	A	65	-2.883	14.624	46.066	1.00169.38			C
ANISOU	343	CA	GLU	A	65	15186	32906	16264	-8002	-2049	1849	C
ATOM	344	C	GLU	A	65	-2.504	13.793	44.850	1.00166.04			C
ANISOU	344	C	GLU	A	65	14695	31948	16445	-7550	-2297	2191	C
ATOM	345	O	GLU	A	65	-2.573	12.565	44.878	1.00164.26			O
ANISOU	345	O	GLU	A	65	14312	31620	16478	-7391	-2337	2728	O
ATOM	346	CB	GLU	A	65	-4.353	15.028	45.980	1.00166.96			C
ANISOU	346	CB	GLU	A	65	14923	32200	16316	-7963	-1712	1289	C
ATOM	347	CG	GLU	A	65	-4.867	15.729	47.220	1.00184.43			C
ANISOU	347	CG	GLU	A	65	17224	34929	17922	-8315	-1368	965	C
ATOM	348	CD	GLU	A	65	-6.199	16.404	46.988	1.00196.30			C

ANISOU	348	CD	GLU	A	65	18764	35988	19832	-8253	-1034	325	C
ATOM	349	OE1	GLU	A	65	-6.906	16.012	46.036	1.00167.84			O
ANISOU	349	OE1	GLU	A	65	15046	31694	17032	-7959	-1062	279	O
ATOM	350	OE2	GLU	A	65	-6.537	17.331	47.752	1.00202.63			O
ANISOU	350	OE2	GLU	A	65	19716	37111	20162	-8474	-775	-152	O
ATOM	351	N	LEU	A	66	-2.106	14.474	43.781	1.00166.82			N
ANISOU	351	N	LEU	A	66	14922	31695	16769	-7306	-2453	1885	N
ATOM	352	CA	LEU	A	66	-1.666	13.798	42.570	1.00166.57			C
ANISOU	352	CA	LEU	A	66	14912	31195	17183	-6778	-2667	2159	C
ATOM	353	C	LEU	A	66	-0.303	13.161	42.800	1.00174.96			C
ANISOU	353	C	LEU	A	66	15828	32664	17986	-6777	-2850	2876	C
ATOM	354	O	LEU	A	66	-0.103	11.984	42.505	1.00158.34			O
ANISOU	354	O	LEU	A	66	13642	30381	16139	-6473	-2961	3358	O
ATOM	355	CB	LEU	A	66	-1.601	14.781	41.399	1.00153.26			C
ANISOU	355	CB	LEU	A	66	13422	29092	15719	-6470	-2711	1695	C
ATOM	356	CG	LEU	A	66	-1.323	14.176	40.022	1.00150.72			C
ANISOU	356	CG	LEU	A	66	13230	28245	15791	-5787	-2887	1865	C
ATOM	357	CD1	LEU	A	66	-2.437	13.223	39.621	1.00150.31			C
ANISOU	357	CD1	LEU	A	66	13232	27633	16246	-5474	-2981	1733	C
ATOM	358	CD2	LEU	A	66	-1.151	15.268	38.981	1.00148.34			C
ANISOU	358	CD2	LEU	A	66	13123	27660	15579	-5488	-2866	1502	C
ATOM	359	N	GLN	A	67	0.626	13.948	43.335	1.00181.58			N
ANISOU	359	N	GLN	A	67	16610	34007	18376	-7117	-2917	2936	N
ATOM	360	CA	GLN	A	67	1.971	13.474	43.642	1.00186.01			C
ANISOU	360	CA	GLN	A	67	16972	34986	18716	-7176	-3123	3628	C
ATOM	361	C	GLN	A	67	1.920	12.263	44.569	1.00183.43			C
ANISOU	361	C	GLN	A	67	16492	34998	18204	-7318	-3138	4194	C
ATOM	362	O	GLN	A	67	2.658	11.293	44.384	1.00180.95			O
ANISOU	362	O	GLN	A	67	16022	34701	18031	-7093	-3273	4840	O
ATOM	363	CB	GLN	A	67	2.799	14.599	44.273	1.00193.42			C
ANISOU	363	CB	GLN	A	67	17841	36399	19251	-7624	-3269	3513	C
ATOM	364	CG	GLN	A	67	4.235	14.226	44.615	1.00201.55			C
ANISOU	364	CG	GLN	A	67	18602	37850	20126	-7726	-3546	4231	C
ATOM	365	CD	GLN	A	67	4.383	13.674	46.020	1.00208.99			C
ANISOU	365	CD	GLN	A	67	19455	39443	20510	-8136	-3678	4575	C
ATOM	366	OE1	GLN	A	67	3.486	13.814	46.851	1.00213.20			O
ANISOU	366	OE1	GLN	A	67	20146	40197	20664	-8395	-3533	4221	O
ATOM	367	NE2	GLN	A	67	5.518	13.040	46.291	1.00211.07			N
ANISOU	367	NE2	GLN	A	67	19461	40027	20707	-8156	-3930	5308	N
ATOM	368	N	GLU	A	68	1.039	12.329	45.563	1.00182.71			N
ANISOU	368	N	GLU	A	68	16438	35171	17812	-7656	-2957	3984	N
ATOM	369	CA	GLU	A	68	0.833	11.222	46.486	1.00187.76			C
ANISOU	369	CA	GLU	A	68	16924	36130	18288	-7776	-2887	4558	C
ATOM	370	C	GLU	A	68	0.273	10.017	45.743	1.00183.11			C
ANISOU	370	C	GLU	A	68	16241	34915	18419	-7348	-2856	4833	C
ATOM	371	O	GLU	A	68	0.673	8.882	45.992	1.00186.33			O
ANISOU	371	O	GLU	A	68	16452	35406	18938	-7261	-2946	5525	O
ATOM	372	CB	GLU	A	68	-0.118	11.637	47.609	1.00195.93			C
ANISOU	372	CB	GLU	A	68	18044	37538	18864	-8132	-2592	4251	C
ATOM	373	CG	GLU	A	68	-0.465	10.524	48.582	1.00205.47			C
ANISOU	373	CG	GLU	A	68	19079	39076	19912	-8217	-2417	4905	C
ATOM	374	CD	GLU	A	68	-1.492	10.955	49.610	1.00215.48			C
ANISOU	374	CD	GLU	A	68	20449	40691	20733	-8460	-2010	4619	C
ATOM	375	OE1	GLU	A	68	-1.851	12.152	49.626	1.00218.03			O
ANISOU	375	OE1	GLU	A	68	20996	41029	20816	-8589	-1911	3867	O
ATOM	376	OE2	GLU	A	68	-1.942	10.098	50.399	1.00220.93			O
ANISOU	376	OE2	GLU	A	68	20985	41628	21333	-8490	-1755	5179	O
ATOM	377	N	MET	A	69	-0.650	10.278	44.824	1.00176.99			N
ANISOU	377	N	MET	A	69	15603	33478	18168	-7072	-2780	4272	N
ATOM	378	CA	MET	A	69	-1.275	9.224	44.036	1.00175.33			C
ANISOU	378	CA	MET	A	69	15340	32562	18715	-6641	-2860	4383	C
ATOM	379	C	MET	A	69	-0.288	8.565	43.078	1.00173.52			C
ANISOU	379	C	MET	A	69	15137	32057	18735	-6160	-3144	4729	C
ATOM	380	O	MET	A	69	-0.297	7.346	42.914	1.00164.67			O
ANISOU	380	O	MET	A	69	13888	30635	18047	-5902	-3277	5165	O
ATOM	381	CB	MET	A	69	-2.466	9.783	43.257	1.00173.44			C
ANISOU	381	CB	MET	A	69	15265	31685	18947	-6451	-2798	3639	C
ATOM	382	CG	MET	A	69	-3.115	8.791	42.310	1.00175.14			C
ANISOU	382	CG	MET	A	69	15470	31076	20001	-5962	-3022	3623	C
ATOM	383	SD	MET	A	69	-4.519	9.516	41.448	1.00167.84			S

ANISOU	383	SD	MET	A	69	14720	29427	19626	-5763	-3034	2746	S
ATOM	384	CE	MET	A	69	-5.582	9.923	42.829	1.00162.17			C
ANISOU	384	CE	MET	A	69	13749	29080	18786	-6360	-2565	2688	C
ATOM	385	N	VAL	A	70	0.562	9.377	42.455	1.00172.83			N
ANISOU	385	N	VAL	A	70	15199	32054	18414	-6017	-3212	4559	N
ATOM	386	CA	VAL	A	70	1.524	8.888	41.469	1.00172.21			C
ANISOU	386	CA	VAL	A	70	15171	31734	18528	-5475	-3386	4879	C
ATOM	387	C	VAL	A	70	2.409	7.772	42.023	1.00170.62			C
ANISOU	387	C	VAL	A	70	14703	31837	18286	-5496	-3491	5713	C
ATOM	388	O	VAL	A	70	2.598	6.739	41.378	1.00172.03			O
ANISOU	388	O	VAL	A	70	14888	31599	18877	-5001	-3627	5998	O
ATOM	389	CB	VAL	A	70	2.408	10.032	40.916	1.00174.27			C
ANISOU	389	CB	VAL	A	70	15530	32160	18525	-5395	-3351	4730	C
ATOM	390	CG1	VAL	A	70	3.574	9.473	40.124	1.00177.75			C
ANISOU	390	CG1	VAL	A	70	15942	32508	19087	-4859	-3432	5258	C
ATOM	391	CG2	VAL	A	70	1.584	10.971	40.049	1.00172.07			C
ANISOU	391	CG2	VAL	A	70	15540	31426	18411	-5180	-3273	3974	C
ATOM	392	N	GLN	A	71	2.936	7.978	43.224	1.00168.70			N
ANISOU	392	N	GLN	A	71	14246	32308	17543	-6044	-3461	6082	N
ATOM	393	CA	GLN	A	71	3.783	6.977	43.858	1.00180.11			C
ANISOU	393	CA	GLN	A	71	15413	34107	18913	-6110	-3579	6918	C
ATOM	394	C	GLN	A	71	2.971	5.860	44.501	1.00183.56			C
ANISOU	394	C	GLN	A	71	15702	34439	19606	-6198	-3532	7239	C
ATOM	395	O	GLN	A	71	3.404	4.709	44.526	1.00187.59			O
ANISOU	395	O	GLN	A	71	16019	34849	20408	-5993	-3648	7874	O
ATOM	396	CB	GLN	A	71	4.697	7.627	44.897	1.00205.16			C
ANISOU	396	CB	GLN	A	71	18425	38088	21437	-6635	-3654	7201	C
ATOM	397	CG	GLN	A	71	5.905	8.329	44.303	1.00221.47			C
ANISOU	397	CG	GLN	A	71	20440	40241	23466	-6508	-3773	7279	C
ATOM	398	CD	GLN	A	71	6.932	7.360	43.747	1.00227.35			C
ANISOU	398	CD	GLN	A	71	20988	40846	24548	-6054	-3870	7995	C
ATOM	399	OE1	GLN	A	71	6.820	6.146	43.924	1.00231.57			O
ANISOU	399	OE1	GLN	A	71	21417	41263	25304	-5891	-3905	8448	O
ATOM	400	NE2	GLN	A	71	7.945	7.894	43.074	1.00225.11			N
ANISOU	400	NE2	GLN	A	71	20623	40551	24358	-5828	-3887	8138	N
ATOM	401	N	ALA	A	72	1.797	6.205	45.022	1.00188.86			N
ANISOU	401	N	ALA	A	72	16426	35108	20224	-6488	-3335	6843	N
ATOM	402	CA	ALA	A	72	0.931	5.228	45.674	1.00197.59			C
ANISOU	402	CA	ALA	A	72	17326	36101	21651	-6589	-3214	7202	C
ATOM	403	C	ALA	A	72	0.521	4.131	44.700	1.00199.59			C
ANISOU	403	C	ALA	A	72	17533	35475	22829	-6072	-3393	7264	C
ATOM	404	O	ALA	A	72	0.534	2.948	45.042	1.00204.91			O
ANISOU	404	O	ALA	A	72	17942	36025	23892	-6018	-3452	7904	O
ATOM	405	CB	ALA	A	72	-0.296	5.905	46.263	1.00176.66			C
ANISOU	405	CB	ALA	A	72	14732	33539	18852	-6913	-2903	6727	C
ATOM	406	N	GLN	A	73	0.160	4.531	43.485	1.00192.84			N
ANISOU	406	N	GLN	A	73	16949	33994	22328	-5671	-3515	6590	N
ATOM	407	CA	GLN	A	73	-0.218	3.577	42.450	1.00188.25			C
ANISOU	407	CA	GLN	A	73	16422	32529	22575	-5103	-3792	6497	C
ATOM	408	C	GLN	A	73	1.019	2.894	41.877	1.00188.59			C
ANISOU	408	C	GLN	A	73	16496	32517	22643	-4650	-4001	6934	C
ATOM	409	O	GLN	A	73	0.929	1.818	41.286	1.00199.97			O
ANISOU	409	O	GLN	A	73	17928	33324	24726	-4192	-4255	7063	O
ATOM	410	CB	GLN	A	73	-1.007	4.268	41.336	1.00180.01			C
ANISOU	410	CB	GLN	A	73	15717	30874	21803	-4768	-3896	5611	C
ATOM	411	CG	GLN	A	73	-2.204	5.072	41.823	1.00178.77			C
ANISOU	411	CG	GLN	A	73	15524	30753	21647	-5182	-3661	5138	C
ATOM	412	CD	GLN	A	73	-3.245	4.220	42.523	1.00189.87			C
ANISOU	412	CD	GLN	A	73	16568	31894	23679	-5409	-3590	5440	C
ATOM	413	OE1	GLN	A	73	-3.362	3.022	42.263	1.00205.03			O
ANISOU	413	OE1	GLN	A	73	18320	33275	26306	-5142	-3851	5775	O
ATOM	414	NE2	GLN	A	73	-4.010	4.837	43.417	1.00185.32			N
ANISOU	414	NE2	GLN	A	73	15854	31670	22888	-5879	-3216	5343	N
ATOM	415	N	ALA	A	74	2.173	3.526	42.057	1.00175.06			N
ANISOU	415	N	ALA	A	74	14799	31435	20282	-4765	-3907	7159	N
ATOM	416	CA	ALA	A	74	3.435	2.946	41.621	1.00173.77			C
ANISOU	416	CA	ALA	A	74	14591	31308	20125	-4362	-4026	7677	C
ATOM	417	C	ALA	A	74	3.937	1.945	42.654	1.00192.45			C
ANISOU	417	C	ALA	A	74	16561	34040	22521	-4636	-4056	8563	C
ATOM	418	O	ALA	A	74	4.776	1.096	42.353	1.00200.52			O

ANISOU	418	O	ALA	A	74	17475	34935	23777	-4267	-4181	9078	O
ATOM	419	CB	ALA	A	74	4.468	4.034	41.392	1.00169.31			C
ANISOU	419	CB	ALA	A	74	14108	31220	19004	-4385	-3919	7639	C
ATOM	420	N	ALA	A	75	3.411	2.048	43.871	1.00196.98			N
ANISOU	420	N	ALA	A	75	16931	35074	22837	-5243	-3916	8758	N
ATOM	421	CA	ALA	A	75	3.817	1.170	44.964	1.00198.43			C
ANISOU	421	CA	ALA	A	75	16748	35692	22953	-5529	-3917	9646	C
ATOM	422	C	ALA	A	75	3.325	-0.258	44.752	1.00203.47			C
ANISOU	422	C	ALA	A	75	17198	35642	24471	-5219	-4042	10011	C
ATOM	423	O	ALA	A	75	3.887	-1.204	45.303	1.00201.18			O
ANISOU	423	O	ALA	A	75	16602	35517	24319	-5246	-4104	10826	O
ATOM	424	CB	ALA	A	75	3.318	1.713	46.296	1.00195.70			C
ANISOU	424	CB	ALA	A	75	16309	36045	22004	-6172	-3691	9728	C
ATOM	425	N	SER	A	76	2.276	-0.407	43.948	1.00210.64			N
ANISOU	425	N	SER	A	76	18267	35738	26028	-4924	-4125	9410	N
ATOM	426	CA	SER	A	76	1.718	-1.723	43.654	1.00218.91			C
ANISOU	426	CA	SER	A	76	19131	35978	28067	-4617	-4341	9641	C
ATOM	427	C	SER	A	76	2.655	-2.540	42.767	1.00226.05			C
ANISOU	427	C	SER	A	76	20120	36449	29319	-3980	-4628	9833	C
ATOM	428	O	SER	A	76	2.519	-3.759	42.662	1.00235.67			O
ANISOU	428	O	SER	A	76	21138	37081	31325	-3726	-4847	10194	O
ATOM	429	CB	SER	A	76	0.343	-1.593	42.995	1.00212.63			C
ANISOU	429	CB	SER	A	76	18483	34386	27922	-4467	-4454	8877	C
ATOM	430	OG	SER	A	76	0.430	-0.914	41.754	1.00209.66			O
ANISOU	430	OG	SER	A	76	18578	33664	27421	-3997	-4622	8064	O
ATOM	431	N	GLY	A	77	3.603	-1.861	42.131	1.00218.88			N
ANISOU	431	N	GLY	A	77	19491	35808	27866	-3698	-4605	9612	N
ATOM	432	CA	GLY	A	77	4.572	-2.524	41.278	1.00214.94			C
ANISOU	432	CA	GLY	A	77	19097	34983	27589	-3028	-4776	9811	C
ATOM	433	C	GLY	A	77	4.065	-2.726	39.865	1.00212.66			C
ANISOU	433	C	GLY	A	77	19252	33771	27779	-2272	-5037	9038	C
ATOM	434	O	GLY	A	77	4.393	-3.718	39.214	1.00209.12			O
ANISOU	434	O	GLY	A	77	18881	32742	27833	-1652	-5277	9144	O
ATOM	435	N	GLU	A	78	3.260	-1.781	39.388	1.00217.83			N
ANISOU	435	N	GLU	A	78	20222	34280	28261	-2289	-5020	8238	N
ATOM	436	CA	GLU	A	78	2.725	-1.844	38.034	1.00224.70			C
ANISOU	436	CA	GLU	A	78	21578	34322	29476	-1557	-5318	7438	C
ATOM	437	C	GLU	A	78	3.718	-1.224	37.054	1.00229.90			C
ANISOU	437	C	GLU	A	78	22637	35169	29546	-944	-5175	7259	C
ATOM	438	O	GLU	A	78	4.358	-0.219	37.362	1.00230.86			O
ANISOU	438	O	GLU	A	78	22696	36012	29008	-1261	-4833	7429	O
ATOM	439	CB	GLU	A	78	1.366	-1.142	37.961	1.00222.07			C
ANISOU	439	CB	GLU	A	78	21369	33716	29293	-1833	-5384	6710	C
ATOM	440	CG	GLU	A	78	0.543	-1.491	36.730	1.00223.70			C
ANISOU	440	CG	GLU	A	78	21991	32920	30086	-1145	-5863	5919	C
ATOM	441	CD	GLU	A	78	0.826	-0.575	35.558	1.00220.30			C
ANISOU	441	CD	GLU	A	78	22145	32484	29076	-545	-5837	5289	C
ATOM	442	OE1	GLU	A	78	1.205	0.590	35.796	1.00227.10			O
ANISOU	442	OE1	GLU	A	78	23018	34036	29232	-870	-5434	5306	O
ATOM	443	OE2	GLU	A	78	0.669	-1.019	34.401	1.00211.60			O
ANISOU	443	OE2	GLU	A	78	21498	30674	28227	277	-6234	4782	O
ATOM	444	N	GLU	A	79	3.840	-1.831	35.877	1.00233.59			N
ANISOU	444	N	GLU	A	79	23512	34963	30279	-36	-5440	6928	N
ATOM	445	CA	GLU	A	79	4.871	-1.460	34.908	1.00236.95			C
ANISOU	445	CA	GLU	A	79	24304	35536	30189	705	-5236	6911	C
ATOM	446	C	GLU	A	79	4.811	0.002	34.459	1.00240.55			C
ANISOU	446	C	GLU	A	79	25038	36347	30013	679	-4962	6468	C
ATOM	447	O	GLU	A	79	5.846	0.649	34.295	1.00240.99			O
ANISOU	447	O	GLU	A	79	25072	36929	29563	806	-4585	6818	O
ATOM	448	CB	GLU	A	79	4.817	-2.391	33.692	1.00237.31			C
ANISOU	448	CB	GLU	A	79	24843	34733	30590	1775	-5604	6504	C
ATOM	449	CG	GLU	A	79	5.958	-2.196	32.705	1.00237.30			C
ANISOU	449	CG	GLU	A	79	25214	34887	30060	2677	-5312	6620	C
ATOM	450	CD	GLU	A	79	5.969	-3.248	31.613	1.00243.34			C
ANISOU	450	CD	GLU	A	79	26493	34840	31124	3790	-5678	6247	C
ATOM	451	OE1	GLU	A	79	5.072	-4.117	31.613	1.00247.18			O
ANISOU	451	OE1	GLU	A	79	27026	34583	32309	3816	-6243	5856	O
ATOM	452	OE2	GLU	A	79	6.875	-3.206	30.755	1.00245.60			O
ANISOU	452	OE2	GLU	A	79	27129	35211	30976	4664	-5404	6351	O
ATOM	453	N	LEU	A	80	3.602	0.520	34.266	1.00241.02			N

ANISOU	453	N	LEU	A	80	25305	36084	30187	512	-5153	5744	N
ATOM	454	CA	LEU	A	80	3.430	1.894	33.801	1.00231.53			C
ANISOU	454	CA	LEU	A	80	24373	35128	28471	509	-4928	5287	C
ATOM	455	C	LEU	A	80	3.483	2.902	34.947	1.00216.53			C
ANISOU	455	C	LEU	A	80	22049	33979	26244	-486	-4593	5540	C
ATOM	456	O	LEU	A	80	4.151	3.931	34.845	1.00220.33			O
ANISOU	456	O	LEU	A	80	22536	34948	26233	-556	-4265	5647	O
ATOM	457	CB	LEU	A	80	2.114	2.043	33.032	1.00230.66			C
ANISOU	457	CB	LEU	A	80	24685	34314	28642	817	-5315	4379	C
ATOM	458	CG	LEU	A	80	1.811	3.434	32.469	1.00223.91			C
ANISOU	458	CG	LEU	A	80	24134	33619	27324	874	-5124	3870	C
ATOM	459	CD1	LEU	A	80	2.875	3.851	31.464	1.00221.23			C
ANISOU	459	CD1	LEU	A	80	24163	33475	26420	1678	-4832	4019	C
ATOM	460	CD2	LEU	A	80	0.429	3.472	31.838	1.00224.50			C
ANISOU	460	CD2	LEU	A	80	24548	32971	27779	1106	-5589	3016	C
ATOM	461	N	ALA	A	81	2.778	2.596	36.033	1.00194.87			N
ANISOU	461	N	ALA	A	81	18940	31305	23798	-1217	-4680	5644	N
ATOM	462	CA	ALA	A	81	2.690	3.490	37.185	1.00172.09			C
ANISOU	462	CA	ALA	A	81	15722	29106	20558	-2118	-4405	5792	C
ATOM	463	C	ALA	A	81	4.063	3.813	37.759	1.00164.96			C
ANISOU	463	C	ALA	A	81	14542	28965	19170	-2382	-4144	6482	C
ATOM	464	O	ALA	A	81	4.299	4.917	38.246	1.00163.38			O
ANISOU	464	O	ALA	A	81	14237	29305	18533	-2876	-3937	6448	O
ATOM	465	CB	ALA	A	81	1.795	2.888	38.255	1.00174.42			C
ANISOU	465	CB	ALA	A	81	15673	29359	21240	-2717	-4490	5937	C
ATOM	466	N	VAL	A	82	4.965	2.840	37.698	1.00170.88			N
ANISOU	466	N	VAL	A	82	15153	29710	20062	-2046	-4196	7098	N
ATOM	467	CA	VAL	A	82	6.337	3.041	38.142	1.00187.99			C
ANISOU	467	CA	VAL	A	82	17014	32524	21891	-2215	-4004	7814	C
ATOM	468	C	VAL	A	82	7.074	3.973	37.186	1.00186.59			C
ANISOU	468	C	VAL	A	82	17046	32426	21426	-1755	-3776	7702	C
ATOM	469	O	VAL	A	82	7.755	4.907	37.613	1.00183.33			O
ANISOU	469	O	VAL	A	82	16397	32566	20693	-2173	-3603	7941	O
ATOM	470	CB	VAL	A	82	7.095	1.704	38.253	1.00206.85			C
ANISOU	470	CB	VAL	A	82	19179	34821	24594	-1902	-4107	8531	C
ATOM	471	CG1	VAL	A	82	8.590	1.943	38.405	1.00216.35			C
ANISOU	471	CG1	VAL	A	82	20089	36580	25536	-1888	-3916	9250	C
ATOM	472	CG2	VAL	A	82	6.555	0.887	39.420	1.00210.35			C
ANISOU	472	CG2	VAL	A	82	19287	35346	25290	-2480	-4265	8868	C
ATOM	473	N	ALA	A	83	6.924	3.718	35.890	1.00190.79			N
ANISOU	473	N	ALA	A	83	18020	32382	22090	-868	-3794	7346	N
ATOM	474	CA	ALA	A	83	7.546	4.550	34.866	1.00192.92			C
ANISOU	474	CA	ALA	A	83	18532	32684	22085	-294	-3511	7281	C
ATOM	475	C	ALA	A	83	7.035	5.985	34.947	1.00192.26			C
ANISOU	475	C	ALA	A	83	18505	32800	21744	-755	-3389	6799	C
ATOM	476	O	ALA	A	83	7.769	6.932	34.665	1.00197.80			O
ANISOU	476	O	ALA	A	83	19123	33797	22236	-709	-3105	7003	O
ATOM	477	CB	ALA	A	83	7.290	3.971	33.484	1.00191.74			C
ANISOU	477	CB	ALA	A	83	18954	31870	22029	803	-3595	6891	C
ATOM	478	N	VAL	A	84	5.772	6.134	35.336	1.00184.43			N
ANISOU	478	N	VAL	A	84	17617	31612	20848	-1190	-3593	6194	N
ATOM	479	CA	VAL	A	84	5.177	7.450	35.534	1.00174.76			C
ANISOU	479	CA	VAL	A	84	16426	30549	19427	-1678	-3491	5700	C
ATOM	480	C	VAL	A	84	5.875	8.188	36.674	1.00173.62			C
ANISOU	480	C	VAL	A	84	15823	31111	19033	-2504	-3354	6104	C
ATOM	481	O	VAL	A	84	6.281	9.339	36.524	1.00172.87			O
ANISOU	481	O	VAL	A	84	15677	31239	18765	-2640	-3174	6054	O
ATOM	482	CB	VAL	A	84	3.670	7.347	35.837	1.00167.91			C
ANISOU	482	CB	VAL	A	84	15686	29327	18786	-1992	-3716	5046	C
ATOM	483	CG1	VAL	A	84	3.134	8.676	36.344	1.00164.33			C
ANISOU	483	CG1	VAL	A	84	15168	29145	18124	-2631	-3573	4627	C
ATOM	484	CG2	VAL	A	84	2.909	6.896	34.600	1.00166.59			C
ANISOU	484	CG2	VAL	A	84	16008	28403	18887	-1182	-3953	4496	C
ATOM	485	N	ALA	A	85	6.019	7.510	37.808	1.00173.85			N
ANISOU	485	N	ALA	A	85	15519	31469	19066	-3031	-3478	6516	N
ATOM	486	CA	ALA	A	85	6.686	8.089	38.968	1.00182.40			C
ANISOU	486	CA	ALA	A	85	16208	33239	19859	-3788	-3460	6886	C
ATOM	487	C	ALA	A	85	8.177	8.279	38.710	1.00204.45			C
ANISOU	487	C	ALA	A	85	18735	36311	22636	-3588	-3361	7548	C
ATOM	488	O	ALA	A	85	8.840	9.066	39.386	1.00216.04			O

ANISOU	488	O	ALA	A	85	19896	38257	23931	-4125	-3389	7767	O
ATOM	489	CB	ALA	A	85	6.466	7.217	40.192	1.00177.82			C
ANISOU	489	CB	ALA	A	85	15381	32947	19238	-4288	-3617	7225	C
ATOM	490	N	GLU	A	86	8.696	7.553	37.727	1.00204.80			N
ANISOU	490	N	GLU	A	86	21420	32693	23700	-8108	-3865	3891	N
ATOM	491	CA	GLU	A	86	10.105	7.636	37.371	1.00204.74			C
ANISOU	491	CA	GLU	A	86	20777	33017	23999	-7958	-3917	3637	C
ATOM	492	C	GLU	A	86	10.403	8.915	36.595	1.00199.48			C
ANISOU	492	C	GLU	A	86	19780	32595	23420	-8456	-3623	3434	C
ATOM	493	O	GLU	A	86	11.466	9.514	36.751	1.00208.64			O
ANISOU	493	O	GLU	A	86	20410	34096	24769	-8538	-3698	3183	O
ATOM	494	CB	GLU	A	86	10.514	6.413	36.547	1.00204.88			C
ANISOU	494	CB	GLU	A	86	20697	32910	24238	-7595	-3742	3545	C
ATOM	495	CG	GLU	A	86	11.980	6.388	36.151	1.00211.19			C
ANISOU	495	CG	GLU	A	86	20758	34052	25432	-7414	-3750	3181	C
ATOM	496	CD	GLU	A	86	12.341	5.157	35.345	1.00213.89			C
ANISOU	496	CD	GLU	A	86	21013	34238	26017	-7041	-3548	3057	C
ATOM	497	OE1	GLU	A	86	11.439	4.333	35.083	1.00208.94			O
ANISOU	497	OE1	GLU	A	86	20940	33227	25221	-6949	-3398	3279	O
ATOM	498	OE2	GLU	A	86	13.525	5.014	34.973	1.00219.39			O
ANISOU	498	OE2	GLU	A	86	21059	35197	27100	-6859	-3512	2685	O
ATOM	499	N	ARG	A	87	9.457	9.329	35.760	1.00181.95			N
ANISOU	499	N	ARG	A	87	17907	30179	21046	-8792	-3297	3516	N
ATOM	500	CA	ARG	A	87	9.643	10.503	34.916	1.00170.07			C
ANISOU	500	CA	ARG	A	87	16304	28783	19533	-9259	-2993	3372	C
ATOM	501	C	ARG	A	87	9.431	11.812	35.672	1.00162.63			C
ANISOU	501	C	ARG	A	87	15416	27924	18453	-9583	-3144	3407	C
ATOM	502	O	ARG	A	87	10.267	12.714	35.618	1.00162.89			O
ANISOU	502	O	ARG	A	87	15128	28188	18576	-9873	-3043	3202	O
ATOM	503	CB	ARG	A	87	8.709	10.441	33.706	1.00167.05			C
ANISOU	503	CB	ARG	A	87	16358	28125	18989	-9423	-2680	3447	C
ATOM	504	CG	ARG	A	87	9.084	9.374	32.691	1.00181.22			C
ANISOU	504	CG	ARG	A	87	18073	29867	20916	-9240	-2406	3332	C
ATOM	505	CD	ARG	A	87	10.495	9.596	32.168	1.00206.82			C
ANISOU	505	CD	ARG	A	87	20795	33384	24403	-9365	-2144	3012	C
ATOM	506	NE	ARG	A	87	10.847	8.658	31.107	1.00223.88			N
ANISOU	506	NE	ARG	A	87	22887	35481	26694	-9247	-1805	2850	N
ATOM	507	CZ	ARG	A	87	10.683	8.901	29.810	1.00230.32			C
ANISOU	507	CZ	ARG	A	87	23984	36180	27348	-9577	-1377	2770	C
ATOM	508	NH1	ARG	A	87	10.169	10.056	29.410	1.00229.86			N
ANISOU	508	NH1	ARG	A	87	24334	36023	26981	-9999	-1281	2863	N
ATOM	509	NH2	ARG	A	87	11.032	7.989	28.913	1.00234.16			N
ANISOU	509	NH2	ARG	A	87	24402	36614	27953	-9471	-1055	2594	N
ATOM	510	N	VAL	A	88	8.313	11.909	36.382	1.00159.98			N
ANISOU	510	N	VAL	A	88	15480	27390	17917	-9569	-3337	3617	N
ATOM	511	CA	VAL	A	88	7.934	13.152	37.045	1.00165.86			C
ANISOU	511	CA	VAL	A	88	16340	28151	18529	-9880	-3441	3639	C
ATOM	512	C	VAL	A	88	8.555	13.303	38.430	1.00170.55			C
ANISOU	512	C	VAL	A	88	16693	28979	19130	-9806	-3785	3605	C
ATOM	513	O	VAL	A	88	8.161	14.180	39.199	1.00165.49			O
ANISOU	513	O	VAL	A	88	16186	28334	18358	-10032	-3899	3628	O
ATOM	514	CB	VAL	A	88	6.405	13.272	37.171	1.00167.97			C
ANISOU	514	CB	VAL	A	88	17095	28108	18619	-9927	-3461	3784	C
ATOM	515	CG1	VAL	A	88	5.757	13.210	35.797	1.00179.99			C
ANISOU	515	CG1	VAL	A	88	18863	29419	20106	-9975	-3221	3780	C
ATOM	516	CG2	VAL	A	88	5.859	12.175	38.075	1.00157.34			C
ANISOU	516	CG2	VAL	A	88	15930	26641	17209	-9644	-3635	3900	C
ATOM	517	N	GLN	A	89	9.529	12.455	38.742	1.00183.23			N
ANISOU	517	N	GLN	A	89	17953	30783	20884	-9465	-3980	3525	N
ATOM	518	CA	GLN	A	89	10.187	12.502	40.043	1.00202.28			C
ANISOU	518	CA	GLN	A	89	20156	33431	23270	-9313	-4414	3473	C
ATOM	519	C	GLN	A	89	10.959	13.806	40.231	1.00201.10			C
ANISOU	519	C	GLN	A	89	19595	33605	23209	-9707	-4400	3210	C
ATOM	520	O	GLN	A	89	11.228	14.222	41.358	1.00199.51			O
ANISOU	520	O	GLN	A	89	19316	33582	22908	-9735	-4738	3161	O
ATOM	521	CB	GLN	A	89	11.121	11.304	40.220	1.00225.30			C
ANISOU	521	CB	GLN	A	89	22774	36473	26359	-8770	-4696	3399	C
ATOM	522	CG	GLN	A	89	12.302	11.291	39.266	1.00244.30			C
ANISOU	522	CG	GLN	A	89	24515	39161	29148	-8761	-4492	3046	C
ATOM	523	CD	GLN	A	89	13.174	10.066	39.441	1.00261.81			C

ANISOU	523	CD	GLN	A	89	26408	41473	31595	-8137	-4811	2927	C
ATOM	524	OE1	GLN	A	89	12.869	9.182	40.242	1.00269.22			O
ANISOU	524	OE1	GLN	A	89	27736	42205	32349	-7690	-5195	3170	O
ATOM	525	NE2	GLN	A	89	14.269	10.006	38.691	1.00268.17			N
ANISOU	525	NE2	GLN	A	89	26533	42557	32801	-8105	-4632	2524	N
ATOM	526	N	GLU	A	90	11.309	14.447	39.120	1.00194.31			N
ANISOU	526	N	GLU	A	90	18534	32794	22500	-10048	-3978	3025	N
ATOM	527	CA	GLU	A	90	12.036	15.709	39.157	1.00185.12			C
ANISOU	527	CA	GLU	A	90	17043	31876	21419	-10519	-3832	2735	C
ATOM	528	C	GLU	A	90	11.280	16.798	38.404	1.00167.63			C
ANISOU	528	C	GLU	A	90	15380	29281	19033	-10863	-3381	2806	C
ATOM	529	O	GLU	A	90	11.811	17.408	37.477	1.00168.54			O
ANISOU	529	O	GLU	A	90	15456	29363	19219	-11150	-2950	2593	O
ATOM	530	CB	GLU	A	90	13.433	15.538	38.563	1.00197.17			C
ANISOU	530	CB	GLU	A	90	17871	33747	23299	-10545	-3655	2310	C
ATOM	531	CG	GLU	A	90	14.288	14.507	39.276	1.00210.45			C
ANISOU	531	CG	GLU	A	90	19029	35730	25202	-9985	-4142	2149	C
ATOM	532	CD	GLU	A	90	15.656	14.356	38.645	1.00226.16			C
ANISOU	532	CD	GLU	A	90	20216	38084	27632	-10003	-3942	1616	C
ATOM	533	OE1	GLU	A	90	15.886	14.964	37.579	1.00229.74			O
ANISOU	533	OE1	GLU	A	90	20608	38510	28171	-10504	-3329	1406	O
ATOM	534	OE2	GLU	A	90	16.500	13.633	39.215	1.00234.57			O
ANISOU	534	OE2	GLU	A	90	20733	39442	28950	-9514	-4394	1376	O
ATOM	535	N	LYS	A	91	10.038	17.035	38.810	1.00162.45			N
ANISOU	535	N	LYS	A	91	15268	28314	18141	-10819	-3487	3076	N
ATOM	536	CA	LYS	A	91	9.205	18.047	38.174	1.00160.03			C
ANISOU	536	CA	LYS	A	91	15502	27630	17672	-11036	-3200	3146	C
ATOM	537	C	LYS	A	91	8.712	19.072	39.190	1.00160.09			C
ANISOU	537	C	LYS	A	91	15781	27496	17551	-11091	-3302	3136	C
ATOM	538	O	LYS	A	91	8.738	18.822	40.394	1.00159.43			O
ANISOU	538	O	LYS	A	91	15579	27555	17440	-10951	-3593	3143	O
ATOM	539	CB	LYS	A	91	8.022	17.392	37.461	1.00156.37			C
ANISOU	539	CB	LYS	A	91	15395	26907	17112	-10926	-3207	3395	C
ATOM	540	CG	LYS	A	91	8.359	16.825	36.090	1.00157.28			C
ANISOU	540	CG	LYS	A	91	15436	27042	17281	-11019	-2953	3387	C
ATOM	541	CD	LYS	A	91	8.637	17.943	35.097	1.00161.98			C
ANISOU	541	CD	LYS	A	91	16307	27472	17765	-11407	-2579	3284	C
ATOM	542	CE	LYS	A	91	8.877	17.403	33.697	1.00165.43			C
ANISOU	542	CE	LYS	A	91	16853	27834	18170	-11458	-2257	3259	C
ATOM	543	NZ	LYS	A	91	9.028	18.502	32.700	1.00162.64			N
ANISOU	543	NZ	LYS	A	91	16966	27237	17593	-11908	-1881	3208	N
ATOM	544	N	ASP	A	92	8.262	20.223	38.699	1.00158.57			N
ANISOU	544	N	ASP	A	92	15984	27012	17252	-11329	-3077	3124	N
ATOM	545	CA	ASP	A	92	7.841	21.321	39.566	1.00172.90			C
ANISOU	545	CA	ASP	A	92	18042	28675	18978	-11427	-3120	3072	C
ATOM	546	C	ASP	A	92	6.336	21.327	39.814	1.00154.71			C
ANISOU	546	C	ASP	A	92	16125	26074	16584	-11279	-3273	3240	C
ATOM	547	O	ASP	A	92	5.595	20.571	39.193	1.00152.54			O
ANISOU	547	O	ASP	A	92	15954	25692	16310	-11131	-3331	3382	O
ATOM	548	CB	ASP	A	92	8.278	22.664	38.978	1.00170.46			C
ANISOU	548	CB	ASP	A	92	17943	28204	18621	-11823	-2798	2923	C
ATOM	549	CG	ASP	A	92	7.713	22.904	37.593	1.00171.83			C
ANISOU	549	CG	ASP	A	92	18555	28062	18669	-12005	-2625	3078	C
ATOM	550	OD1	ASP	A	92	7.641	21.936	36.808	1.00177.90			O
ANISOU	550	OD1	ASP	A	92	19254	28887	19455	-11891	-2625	3189	O
ATOM	551	OD2	ASP	A	92	7.339	24.057	37.291	1.00170.62			O
ANISOU	551	OD2	ASP	A	92	18855	27591	18383	-12292	-2511	3095	O
ATOM	552	N	SER	A	93	5.893	22.193	40.722	1.00154.61			N
ANISOU	552	N	SER	A	93	16283	25938	16523	-11341	-3317	3164	N
ATOM	553	CA	SER	A	93	4.485	22.259	41.105	1.00167.45			C
ANISOU	553	CA	SER	A	93	18183	27309	18133	-11221	-3429	3209	C
ATOM	554	C	SER	A	93	3.587	22.757	39.980	1.00167.47			C
ANISOU	554	C	SER	A	93	18494	26989	18146	-11291	-3413	3267	C
ATOM	555	O	SER	A	93	2.451	22.308	39.845	1.00161.64			O
ANISOU	555	O	SER	A	93	17840	26109	17465	-11122	-3541	3284	O
ATOM	556	CB	SER	A	93	4.297	23.145	42.337	1.00164.22			C
ANISOU	556	CB	SER	A	93	17860	26850	17687	-11323	-3439	3062	C
ATOM	557	OG	SER	A	93	2.919	23.349	42.604	1.00151.77			O
ANISOU	557	OG	SER	A	93	16506	25005	16154	-11252	-3484	3016	O
ATOM	558	N	GLY	A	94	4.094	23.691	39.184	1.00178.25			N

ANISOU	558	N	GLY	A	94	20046	28234	19445	-11592	-3270	3272	N
ATOM	559	CA	GLY	A	94	3.333	24.232	38.072	1.00183.16			C
ANISOU	559	CA	GLY	A	94	21062	28526	20005	-11761	-3342	3374	C
ATOM	560	C	GLY	A	94	2.999	23.172	37.039	1.00175.96			C
ANISOU	560	C	GLY	A	94	20133	27647	19076	-11625	-3436	3510	C
ATOM	561	O	GLY	A	94	1.908	23.168	36.465	1.00166.00			O
ANISOU	561	O	GLY	A	94	19165	26102	17806	-11341	-3618	3515	O
ATOM	562	N	PHE	A	95	3.946	22.266	36.814	1.00176.66			N
ANISOU	562	N	PHE	A	95	19936	28016	19169	-11569	-3273	3537	N
ATOM	563	CA	PHE	A	95	3.788	21.188	35.842	1.00170.46			C
ANISOU	563	CA	PHE	A	95	19138	27265	18365	-11399	-3282	3633	C
ATOM	564	C	PHE	A	95	2.608	20.277	36.161	1.00168.20			C
ANISOU	564	C	PHE	A	95	18770	26955	18184	-11041	-3518	3623	C
ATOM	565	O	PHE	A	95	1.812	19.953	35.281	1.00163.68			O
ANISOU	565	O	PHE	A	95	18431	26187	17571	-10817	-3606	3627	O
ATOM	566	CB	PHE	A	95	5.074	20.363	35.753	1.00158.49			C
ANISOU	566	CB	PHE	A	95	17213	26095	16910	-11449	-3078	3610	C
ATOM	567	CG	PHE	A	95	4.892	19.024	35.100	1.00151.48			C
ANISOU	567	CG	PHE	A	95	16232	25269	16056	-11175	-3087	3675	C
ATOM	568	CD1	PHE	A	95	4.743	18.922	33.728	1.00152.33			C
ANISOU	568	CD1	PHE	A	95	16691	25172	16014	-11152	-2945	3715	C
ATOM	569	CD2	PHE	A	95	4.880	17.865	35.859	1.00154.45			C
ANISOU	569	CD2	PHE	A	95	16259	25858	16569	-10928	-3221	3688	C
ATOM	570	CE1	PHE	A	95	4.579	17.691	33.125	1.00153.74			C
ANISOU	570	CE1	PHE	A	95	16796	25396	16221	-10901	-2924	3738	C
ATOM	571	CE2	PHE	A	95	4.716	16.632	35.263	1.00155.62			C
ANISOU	571	CE2	PHE	A	95	16373	26007	16749	-10667	-3186	3728	C
ATOM	572	CZ	PHE	A	95	4.567	16.544	33.894	1.00154.99			C
ANISOU	572	CZ	PHE	A	95	16567	25761	16562	-10661	-3030	3737	C
ATOM	573	N	PHE	A	96	2.504	19.860	37.418	1.00147.54			N
ANISOU	573	N	PHE	A	96	15902	24484	15670	-10910	-3569	3559	N
ATOM	574	CA	PHE	A	96	1.431	18.967	37.836	1.00149.85			C
ANISOU	574	CA	PHE	A	96	16146	24736	16053	-10672	-3678	3497	C
ATOM	575	C	PHE	A	96	0.073	19.660	37.793	1.00159.71			C
ANISOU	575	C	PHE	A	96	17571	25727	17384	-10653	-3837	3335	C
ATOM	576	O	PHE	A	96	-0.961	19.005	37.665	1.00144.45			O
ANISOU	576	O	PHE	A	96	15595	23732	15557	-10504	-3918	3201	O
ATOM	577	CB	PHE	A	96	1.695	18.417	39.239	1.00145.33			C
ANISOU	577	CB	PHE	A	96	15420	24314	15486	-10583	-3651	3473	C
ATOM	578	CG	PHE	A	96	2.823	17.424	39.304	1.00155.46			C
ANISOU	578	CG	PHE	A	96	16459	25870	16740	-10549	-3644	3604	C
ATOM	579	CD1	PHE	A	96	2.570	16.063	39.275	1.00160.85			C
ANISOU	579	CD1	PHE	A	96	17072	26605	17440	-10448	-3678	3677	C
ATOM	580	CD2	PHE	A	96	4.135	17.852	39.400	1.00169.81			C
ANISOU	580	CD2	PHE	A	96	18080	27896	18544	-10646	-3612	3608	C
ATOM	581	CE1	PHE	A	96	3.607	15.146	39.337	1.00169.97			C
ANISOU	581	CE1	PHE	A	96	18007	27979	18596	-10353	-3720	3785	C
ATOM	582	CE2	PHE	A	96	5.177	16.941	39.463	1.00176.36			C
ANISOU	582	CE2	PHE	A	96	18580	29013	19416	-10592	-3674	3661	C
ATOM	583	CZ	PHE	A	96	4.911	15.588	39.431	1.00176.47			C
ANISOU	583	CZ	PHE	A	96	18543	29060	19446	-10440	-3763	3773	C
ATOM	584	N	LEU	A	97	0.078	20.985	37.897	1.00156.63			N
ANISOU	584	N	LEU	A	97	17352	25188	16973	-10824	-3887	3300	N
ATOM	585	CA	LEU	A	97	-1.163	21.749	37.866	1.00161.59			C
ANISOU	585	CA	LEU	A	97	18148	25529	17720	-10708	-4076	3098	C
ATOM	586	C	LEU	A	97	-1.732	21.805	36.453	1.00172.25			C
ANISOU	586	C	LEU	A	97	19804	26629	19013	-10423	-4260	3099	C
ATOM	587	O	LEU	A	97	-2.924	22.050	36.263	1.00180.12			O
ANISOU	587	O	LEU	A	97	20857	27422	20159	-10162	-4505	2865	O
ATOM	588	CB	LEU	A	97	-0.948	23.162	38.412	1.00159.61			C
ANISOU	588	CB	LEU	A	97	18063	25128	17455	-10927	-4065	3058	C
ATOM	589	CG	LEU	A	97	-1.924	23.609	39.505	1.00169.46			C
ANISOU	589	CG	LEU	A	97	19189	26290	18910	-10934	-4124	2772	C
ATOM	590	CD1	LEU	A	97	-1.541	24.979	40.043	1.00178.36			C
ANISOU	590	CD1	LEU	A	97	20496	27271	20002	-11189	-4068	2744	C
ATOM	591	CD2	LEU	A	97	-3.357	23.617	38.997	1.00149.79			C
ANISOU	591	CD2	LEU	A	97	16729	23552	16633	-10569	-4357	2499	C
ATOM	592	N	ARG	A	98	-0.874	21.576	35.463	1.00165.75			N
ANISOU	592	N	ARG	A	98	19175	25827	17974	-10471	-4151	3318	N
ATOM	593	CA	ARG	A	98	-1.312	21.518	34.075	1.00157.76			C

ANISOU	593	CA	ARG	A	98	18544	24587	16810	-10226	-4320	3345	C
ATOM	594	C	ARG	A	98	-2.324	20.396	33.896	1.00154.41			C
ANISOU	594	C	ARG	A	98	17865	24253	16552	-9933	-4478	3152	C
ATOM	595	O	ARG	A	98	-3.364	20.575	33.262	1.00154.61			O
ANISOU	595	O	ARG	A	98	18059	24074	16611	-9630	-4800	2970	O
ATOM	596	CB	ARG	A	98	-0.126	21.289	33.138	1.00151.54			C
ANISOU	596	CB	ARG	A	98	17974	23850	15753	-10416	-4056	3572	C
ATOM	597	CG	ARG	A	98	0.921	22.387	33.159	1.00156.64			C
ANISOU	597	CG	ARG	A	98	18892	24396	16229	-10789	-3812	3690	C
ATOM	598	CD	ARG	A	98	1.805	22.308	31.924	1.00172.44			C
ANISOU	598	CD	ARG	A	98	21266	26323	17930	-10976	-3536	3824	C
ATOM	599	NE	ARG	A	98	2.821	23.356	31.895	1.00187.82			N
ANISOU	599	NE	ARG	A	98	23492	28156	19715	-11423	-3204	3866	N
ATOM	600	CZ	ARG	A	98	4.109	23.153	32.151	1.00204.62			C
ANISOU	600	CZ	ARG	A	98	25239	30599	21907	-11796	-2808	3817	C
ATOM	601	NH1	ARG	A	98	4.544	21.936	32.450	1.00208.04			N
ANISOU	601	NH1	ARG	A	98	25045	31449	22550	-11702	-2752	3770	N
ATOM	602	NH2	ARG	A	98	4.965	24.164	32.102	1.00216.07			N
ANISOU	602	NH2	ARG	A	98	26939	31932	23228	-12258	-2469	3775	N
ATOM	603	N	PHE	A	99	-2.011	19.240	34.471	1.00135.33			N
ANISOU	603	N	PHE	A	99	19079	18696	13644	-8199	-5121	361	N
ATOM	604	CA	PHE	A	99	-2.863	18.062	34.368	1.00135.06			C
ANISOU	604	CA	PHE	A	99	18663	18614	14039	-7634	-5005	318	C
ATOM	605	C	PHE	A	99	-4.145	18.222	35.181	1.00127.67			C
ANISOU	605	C	PHE	A	99	18110	17660	12737	-7581	-4991	-90	C
ATOM	606	O	PHE	A	99	-5.140	17.542	34.927	1.00121.91			O
ANISOU	606	O	PHE	A	99	17269	16792	12261	-7057	-4836	-332	O
ATOM	607	CB	PHE	A	99	-2.103	16.815	34.824	1.00141.78			C
ANISOU	607	CB	PHE	A	99	18685	19833	15352	-7755	-5163	992	C
ATOM	608	CG	PHE	A	99	-0.986	16.412	33.902	1.00141.46			C
ANISOU	608	CG	PHE	A	99	18152	19779	15816	-7631	-5093	1376	C
ATOM	609	CD1	PHE	A	99	-1.135	15.339	33.040	1.00136.15			C
ANISOU	609	CD1	PHE	A	99	17059	18919	15753	-7021	-4876	1444	C
ATOM	610	CD2	PHE	A	99	0.212	17.106	33.895	1.00146.96			C
ANISOU	610	CD2	PHE	A	99	18815	20651	16371	-8141	-5224	1662	C
ATOM	611	CE1	PHE	A	99	-0.112	14.963	32.190	1.00134.44			C
ANISOU	611	CE1	PHE	A	99	16404	18672	16005	-6891	-4759	1782	C
ATOM	612	CE2	PHE	A	99	1.238	16.737	33.047	1.00147.22			C
ANISOU	612	CE2	PHE	A	99	18363	20689	16886	-8023	-5119	2007	C
ATOM	613	CZ	PHE	A	99	1.076	15.663	32.194	1.00140.81			C
ANISOU	613	CZ	PHE	A	99	17140	19672	16690	-7381	-4871	2063	C
ATOM	614	N	ILE	A	100	-4.114	19.118	36.162	1.00130.55			N
ANISOU	614	N	ILE	A	100	18930	18171	12500	-8146	-5139	-168	N
ATOM	615	CA	ILE	A	100	-5.290	19.399	36.979	1.00137.29			C
ANISOU	615	CA	ILE	A	100	20184	18988	12993	-8065	-5028	-563	C
ATOM	616	C	ILE	A	100	-6.250	20.310	36.215	1.00135.01			C
ANISOU	616	C	ILE	A	100	20528	18243	12527	-7565	-4760	-1239	C
ATOM	617	O	ILE	A	100	-7.460	20.075	36.186	1.00126.81			O
ANISOU	617	O	ILE	A	100	19585	17077	11520	-7144	-4624	-1645	O
ATOM	618	CB	ILE	A	100	-4.907	20.017	38.348	1.00131.07			C
ANISOU	618	CB	ILE	A	100	19616	18429	11756	-8581	-5045	-329	C
ATOM	619	CG1	ILE	A	100	-4.723	18.922	39.402	1.00140.35			C
ANISOU	619	CG1	ILE	A	100	20257	20009	13062	-8862	-5236	160	C
ATOM	620	CG2	ILE	A	100	-5.976	20.977	38.833	1.00131.59			C
ANISOU	620	CG2	ILE	A	100	20344	18262	11393	-8409	-4774	-863	C
ATOM	621	CD1	ILE	A	100	-3.569	17.985	39.138	1.00133.33			C
ANISOU	621	CD1	ILE	A	100	18644	19388	12626	-9034	-5500	798	C
ATOM	622	N	ARG	A	101	-5.698	21.336	35.575	1.00132.37			N
ANISOU	622	N	ARG	A	101	20597	17667	12029	-7592	-4681	-1338	N
ATOM	623	CA	ARG	A	101	-6.503	22.269	34.798	1.00124.26			C
ANISOU	623	CA	ARG	A	101	20162	16183	10869	-7069	-4424	-1910	C
ATOM	624	C	ARG	A	101	-6.985	21.637	33.498	1.00124.80			C
ANISOU	624	C	ARG	A	101	20102	15991	11326	-6532	-4406	-2160	C
ATOM	625	O	ARG	A	101	-7.923	22.126	32.873	1.00121.53			O
ANISOU	625	O	ARG	A	101	20057	15225	10893	-5965	-4206	-2640	O
ATOM	626	CB	ARG	A	101	-5.712	23.542	34.499	1.00126.32			C
ANISOU	626	CB	ARG	A	101	20897	16254	10845	-7280	-4341	-1891	C
ATOM	627	CG	ARG	A	101	-5.322	24.339	35.733	1.00143.33			C
ANISOU	627	CG	ARG	A	101	23309	18582	12567	-7793	-4325	-1705	C
ATOM	628	CD	ARG	A	101	-4.820	25.724	35.355	1.00155.28			C

ANISOU	628	CD	ARG	A	101	25400	19815	13783	-7897	-4184	-1799	C
ATOM	629	NE	ARG	A	101	-4.474	26.524	36.526	1.00155.08			N
ANISOU	629	NE	ARG	A	101	25678	19915	13331	-8408	-4159	-1633	N
ATOM	630	CZ	ARG	A	101	-3.248	26.622	37.025	1.00159.55			C
ANISOU	630	CZ	ARG	A	101	26114	20765	13743	-9091	-4331	-1155	C
ATOM	631	NH1	ARG	A	101	-2.243	25.972	36.455	1.00156.88			N
ANISOU	631	NH1	ARG	A	101	25295	20641	13672	-9325	-4540	-788	N
ATOM	632	NH2	ARG	A	101	-3.025	27.374	38.093	1.00172.12			N
ANISOU	632	NH2	ARG	A	101	28041	22433	14924	-9546	-4294	-1034	N
ATOM	633	N	ALA	A	102	-6.335	20.548	33.097	1.00132.70			N
ANISOU	633	N	ALA	A	102	20447	17149	12825	-6507	-4476	-1738	N
ATOM	634	CA	ALA	A	102	-6.695	19.838	31.873	1.00130.02			C
ANISOU	634	CA	ALA	A	102	19849	16548	13004	-5847	-4309	-1846	C
ATOM	635	C	ALA	A	102	-7.863	18.885	32.106	1.00130.55			C
ANISOU	635	C	ALA	A	102	19609	16668	13327	-5420	-4237	-2005	C
ATOM	636	O	ALA	A	102	-8.723	18.711	31.238	1.00118.50			O
ANISOU	636	O	ALA	A	102	18169	14852	12001	-4838	-4093	-2365	O
ATOM	637	CB	ALA	A	102	-5.495	19.082	31.325	1.00116.57			C
ANISOU	637	CB	ALA	A	102	17569	14954	11767	-5928	-4322	-1316	C
ATOM	638	N	ARG	A	103	-7.886	18.266	33.280	1.00114.78			N
ANISOU	638	N	ARG	A	103	17262	15046	11304	-5742	-4349	-1728	N
ATOM	639	CA	ARG	A	103	-8.971	17.364	33.637	1.00126.72			C
ANISOU	639	CA	ARG	A	103	18491	16644	13011	-5433	-4276	-1861	C
ATOM	640	C	ARG	A	103	-9.945	18.023	34.607	1.00129.78			C
ANISOU	640	C	ARG	A	103	19297	17102	12912	-5564	-4253	-2255	C
ATOM	641	O	ARG	A	103	-10.362	17.413	35.591	1.00115.57			O
ANISOU	641	O	ARG	A	103	17255	15579	11076	-5742	-4279	-2151	O
ATOM	642	CB	ARG	A	103	-8.425	16.052	34.203	1.00115.05			C
ANISOU	642	CB	ARG	A	103	16319	15499	11894	-5631	-4381	-1283	C
ATOM	643	CG	ARG	A	103	-7.946	15.086	33.126	1.00125.71			C
ANISOU	643	CG	ARG	A	103	17204	16710	13850	-5253	-4296	-1019	C
ATOM	644	CD	ARG	A	103	-9.101	14.649	32.229	1.00138.51			C
ANISOU	644	CD	ARG	A	103	18862	18035	15730	-4605	-4096	-1449	C
ATOM	645	NE	ARG	A	103	-8.650	13.930	31.039	1.00139.05			N
ANISOU	645	NE	ARG	A	103	18649	17881	16302	-4242	-3978	-1281	N
ATOM	646	CZ	ARG	A	103	-8.500	14.487	29.840	1.00135.96			C
ANISOU	646	CZ	ARG	A	103	18563	17142	15953	-3964	-3868	-1512	C
ATOM	647	NH1	ARG	A	103	-8.766	15.775	29.665	1.00127.77			N
ANISOU	647	NH1	ARG	A	103	18123	15933	14492	-3989	-3881	-1911	N
ATOM	648	NH2	ARG	A	103	-8.087	13.755	28.814	1.00136.36			N
ANISOU	648	NH2	ARG	A	103	18363	16995	16455	-3663	-3731	-1347	N
ATOM	649	N	LYS	A	104	-10.289	19.275	34.304	1.00129.69			N
ANISOU	649	N	LYS	A	104	19939	16815	12520	-5470	-4184	-2706	N
ATOM	650	CA	LYS	A	104	-11.288	20.060	35.036	1.00128.23			C
ANISOU	650	CA	LYS	A	104	20244	16602	11877	-5479	-4096	-3171	C
ATOM	651	C	LYS	A	104	-11.249	19.895	36.553	1.00129.80			C
ANISOU	651	C	LYS	A	104	20333	17172	11812	-5984	-4127	-2942	C
ATOM	652	O	LYS	A	104	-12.293	19.821	37.205	1.00120.14			O
ANISOU	652	O	LYS	A	104	19153	16022	10473	-5853	-3985	-3226	O
ATOM	653	CB	LYS	A	104	-12.697	19.778	34.505	1.00130.64			C
ANISOU	653	CB	LYS	A	104	20504	16729	12405	-4794	-3918	-3648	C
ATOM	654	CG	LYS	A	104	-12.920	20.216	33.064	1.00112.60			C
ANISOU	654	CG	LYS	A	104	18472	14020	10292	-4230	-3856	-3951	C
ATOM	655	CD	LYS	A	104	-14.400	20.404	32.778	1.00154.07			C
ANISOU	655	CD	LYS	A	104	23875	19101	15563	-3639	-3716	-4512	C
ATOM	656	CE	LYS	A	104	-14.656	20.708	31.311	1.00143.22			C
ANISOU	656	CE	LYS	A	104	22655	17334	14426	-3034	-3664	-4746	C
ATOM	657	NZ	LYS	A	104	-14.436	19.517	30.445	1.00129.83			N
ANISOU	657	NZ	LYS	A	104	20480	15615	13233	-2834	-3717	-4516	N
ATOM	658	N	PHE	A	105	-10.038	19.839	37.098	1.00143.37			N
ANISOU	658	N	PHE	A	105	21901	19125	13448	-6556	-4303	-2417	N
ATOM	659	CA	PHE	A	105	-9.823	19.664	38.533	1.00151.19			C
ANISOU	659	CA	PHE	A	105	22792	20460	14194	-7072	-4358	-2105	C
ATOM	660	C	PHE	A	105	-10.420	18.363	39.054	1.00137.80			C
ANISOU	660	C	PHE	A	105	20617	19035	12704	-7094	-4426	-2000	C
ATOM	661	O	PHE	A	105	-11.391	18.359	39.810	1.00132.12			O
ANISOU	661	O	PHE	A	105	20024	18381	11792	-7051	-4265	-2271	O
ATOM	662	CB	PHE	A	105	-10.337	20.872	39.320	1.00168.24			C
ANISOU	662	CB	PHE	A	105	25537	22501	15884	-7112	-4123	-2415	C
ATOM	663	CG	PHE	A	105	-9.454	22.080	39.205	1.00175.00			C

ANISOU	663	CG	PHE	A	105	26818	23193	16483	-7332	-4101	-2317	C
ATOM	664	CD1	PHE	A	105	-8.737	22.537	40.298	1.00164.62			C
ANISOU	664	CD1	PHE	A	105	25665	22063	14819	-7933	-4151	-1983	C
ATOM	665	CD2	PHE	A	105	-9.323	22.746	37.998	1.00181.25			C
ANISOU	665	CD2	PHE	A	105	27855	23640	17370	-6965	-4032	-2542	C
ATOM	666	CE1	PHE	A	105	-7.916	23.641	40.192	1.00156.92			C
ANISOU	666	CE1	PHE	A	105	25080	20943	13599	-8182	-4130	-1885	C
ATOM	667	CE2	PHE	A	105	-8.502	23.849	37.886	1.00179.70			C
ANISOU	667	CE2	PHE	A	105	28051	23296	16930	-7202	-4002	-2440	C
ATOM	668	CZ	PHE	A	105	-7.795	24.295	38.984	1.00163.63			C
ANISOU	668	CZ	PHE	A	105	26163	21459	14551	-7823	-4052	-2114	C
ATOM	669	N	ASN	A	106	-9.820	17.259	38.627	1.00132.04			N
ANISOU	669	N	ASN	A	106	19297	18433	12438	-7073	-4589	-1570	N
ATOM	670	CA	ASN	A	106	-10.206	15.932	39.070	1.00127.03			C
ANISOU	670	CA	ASN	A	106	18125	18015	12125	-6998	-4590	-1331	C
ATOM	671	C	ASN	A	106	-8.935	15.117	39.244	1.00129.19			C
ANISOU	671	C	ASN	A	106	17871	18528	12686	-7319	-4842	-607	C
ATOM	672	O	ASN	A	106	-8.233	14.847	38.271	1.00130.16			O
ANISOU	672	O	ASN	A	106	17715	18523	13216	-7072	-4856	-389	O
ATOM	673	CB	ASN	A	106	-11.120	15.275	38.036	1.00128.16			C
ANISOU	673	CB	ASN	A	106	18034	17920	12742	-6270	-4374	-1636	C
ATOM	674	CG	ASN	A	106	-11.787	14.018	38.557	1.00138.94			C
ANISOU	674	CG	ASN	A	106	18967	19476	14349	-6198	-4324	-1519	C
ATOM	675	OD1	ASN	A	106	-11.139	12.988	38.744	1.00148.77			O
ANISOU	675	OD1	ASN	A	106	19742	20886	15899	-6339	-4456	-990	O
ATOM	676	ND2	ASN	A	106	-13.095	14.092	38.779	1.00140.51			N
ANISOU	676	ND2	ASN	A	106	19321	19647	14421	-5969	-4123	-2011	N
ATOM	677	N	VAL	A	107	-8.635	14.739	40.482	1.00138.80			N
ANISOU	677	N	VAL	A	107	18963	20089	13688	-7866	-5036	-230	N
ATOM	678	CA	VAL	A	107	-7.374	14.072	40.796	1.00153.09			C
ANISOU	678	CA	VAL	A	107	20287	22163	15716	-8226	-5329	497	C
ATOM	679	C	VAL	A	107	-7.234	12.731	40.082	1.00152.75			C
ANISOU	679	C	VAL	A	107	19610	22062	16367	-7749	-5280	807	C
ATOM	680	O	VAL	A	107	-6.156	12.388	39.594	1.00144.79			O
ANISOU	680	O	VAL	A	107	18210	21085	15717	-7733	-5402	1264	O
ATOM	681	CB	VAL	A	107	-7.211	13.858	42.310	1.00166.68			C
ANISOU	681	CB	VAL	A	107	22026	24202	17104	-8750	-5457	848	C
ATOM	682	CG1	VAL	A	107	-5.759	13.560	42.648	1.00167.77			C
ANISOU	682	CG1	VAL	A	107	21785	24574	17384	-9088	-5728	1589	C
ATOM	683	CG2	VAL	A	107	-7.687	15.084	43.064	1.00177.37			C
ANISOU	683	CG2	VAL	A	107	24062	25489	17841	-8968	-5267	456	C
ATOM	684	N	GLY	A	108	-8.327	11.977	40.024	1.00123.58			N
ANISOU	684	N	GLY	A	108	15820	18277	12856	-7371	-5083	552	N
ATOM	685	CA	GLY	A	108	-8.328	10.692	39.351	1.00121.63			C
ANISOU	685	CA	GLY	A	108	15058	17928	13228	-6919	-5001	788	C
ATOM	686	C	GLY	A	108	-8.120	10.835	37.856	1.00139.54			C
ANISOU	686	C	GLY	A	108	17280	19858	15880	-6386	-4830	615	C
ATOM	687	O	GLY	A	108	-7.230	10.205	37.282	1.00135.43			O
ANISOU	687	O	GLY	A	108	16354	19299	15805	-6242	-4866	1040	O
ATOM	688	N	ARG	A	109	-8.944	11.671	37.230	1.00134.06			N
ANISOU	688	N	ARG	A	109	17019	18911	15007	-6087	-4636	-8	N
ATOM	689	CA	ARG	A	109	-8.856	11.924	35.795	1.00126.91			C
ANISOU	689	CA	ARG	A	109	16180	17653	14386	-5598	-4475	-237	C
ATOM	690	C	ARG	A	109	-7.494	12.485	35.405	1.00127.64			C
ANISOU	690	C	ARG	A	109	16251	17744	14502	-5819	-4592	90	C
ATOM	691	O	ARG	A	109	-6.956	12.147	34.352	1.00137.69			O
ANISOU	691	O	ARG	A	109	17311	18819	16185	-5504	-4494	222	O
ATOM	692	CB	ARG	A	109	-9.955	12.894	35.355	1.00131.13			C
ANISOU	692	CB	ARG	A	109	17249	17945	14632	-5308	-4308	-945	C
ATOM	693	CG	ARG	A	109	-11.363	12.383	35.580	1.00146.47			C
ANISOU	693	CG	ARG	A	109	19170	19886	16596	-5032	-4161	-1318	C
ATOM	694	CD	ARG	A	109	-11.696	11.240	34.640	1.00170.12			C
ANISOU	694	CD	ARG	A	109	21802	22701	20136	-4539	-4030	-1290	C
ATOM	695	NE	ARG	A	109	-12.727	10.371	35.199	1.00192.60			N
ANISOU	695	NE	ARG	A	109	24448	25683	23047	-4482	-3952	-1396	N
ATOM	696	CZ	ARG	A	109	-14.033	10.596	35.106	1.00203.81			C
ANISOU	696	CZ	ARG	A	109	26043	27044	24353	-4218	-3807	-1938	C
ATOM	697	NH1	ARG	A	109	-14.481	11.671	34.472	1.00217.38			N
ANISOU	697	NH1	ARG	A	109	28156	28548	25890	-3947	-3743	-2418	N
ATOM	698	NH2	ARG	A	109	-14.892	9.746	35.650	1.00196.58			N

ANISOU	698	NH2	ARG	A	109	24901	26285	23505	-4227	-3729	-1992	N
ATOM	699	N	ALA	A	110	-6.944	13.342	36.260	1.00126.35			N
ANISOU	699	N	ALA	A	110	16320	17805	13883	-6387	-4787	212	N
ATOM	700	CA	ALA	A	110	-5.661	13.981	35.990	1.00128.83			C
ANISOU	700	CA	ALA	A	110	16633	18165	14154	-6693	-4915	509	C
ATOM	701	C	ALA	A	110	-4.524	12.966	35.923	1.00133.30			C
ANISOU	701	C	ALA	A	110	16515	18916	15217	-6750	-5034	1198	C
ATOM	702	O	ALA	A	110	-3.635	13.077	35.082	1.00121.66			O
ANISOU	702	O	ALA	A	110	14871	17345	14009	-6658	-4986	1382	O
ATOM	703	CB	ALA	A	110	-5.365	15.040	37.032	1.00123.18			C
ANISOU	703	CB	ALA	A	110	16320	17673	12809	-7355	-5120	511	C
ATOM	704	N	TYR	A	111	-4.556	11.977	36.810	1.00133.91			N
ANISOU	704	N	TYR	A	111	16206	19252	15420	-6893	-5175	1579	N
ATOM	705	CA	TYR	A	111	-3.535	10.933	36.818	1.00138.39			C
ANISOU	705	CA	TYR	A	111	16110	19988	16485	-6896	-5296	2258	C
ATOM	706	C	TYR	A	111	-3.644	10.040	35.584	1.00136.45			C
ANISOU	706	C	TYR	A	111	15576	19417	16854	-6226	-5010	2228	C
ATOM	707	O	TYR	A	111	-2.634	9.582	35.047	1.00133.02			O
ANISOU	707	O	TYR	A	111	14706	18980	16857	-6109	-4992	2652	O
ATOM	708	CB	TYR	A	111	-3.630	10.089	38.092	1.00138.88			C
ANISOU	708	CB	TYR	A	111	15905	20368	16495	-7200	-5527	2659	C
ATOM	709	CG	TYR	A	111	-2.629	8.957	38.145	1.00141.47			C
ANISOU	709	CG	TYR	A	111	15547	20851	17353	-7151	-5667	3382	C
ATOM	710	CD1	TYR	A	111	-1.294	9.199	38.435	1.00150.74			C
ANISOU	710	CD1	TYR	A	111	16395	22313	18566	-7548	-5941	3933	C
ATOM	711	CD2	TYR	A	111	-3.019	7.646	37.903	1.00142.37			C
ANISOU	711	CD2	TYR	A	111	15339	20821	17933	-6705	-5525	3521	C
ATOM	712	CE1	TYR	A	111	-0.373	8.169	38.481	1.00158.58			C
ANISOU	712	CE1	TYR	A	111	16723	23452	20078	-7455	-6069	4611	C
ATOM	713	CE2	TYR	A	111	-2.105	6.609	37.949	1.00149.95			C
ANISOU	713	CE2	TYR	A	111	15699	21886	19390	-6615	-5635	4187	C
ATOM	714	CZ	TYR	A	111	-0.784	6.876	38.237	1.00159.55			C
ANISOU	714	CZ	TYR	A	111	16564	23394	20666	-6966	-5908	4735	C
ATOM	715	OH	TYR	A	111	0.130	5.848	38.284	1.00168.19			O
ANISOU	715	OH	TYR	A	111	17021	24597	22287	-6831	-6019	5414	O
ATOM	716	N	GLU	A	112	-4.875	9.797	35.141	1.00133.57			N
ANISOU	716	N	GLU	A	112	15453	18781	16515	-5799	-4780	1726	N
ATOM	717	CA	GLU	A	112	-5.114	8.985	33.955	1.00136.26			C
ANISOU	717	CA	GLU	A	112	15620	18782	17371	-5191	-4503	1632	C
ATOM	718	C	GLU	A	112	-4.523	9.658	32.724	1.00138.65			C
ANISOU	718	C	GLU	A	112	16066	18823	17793	-4988	-4343	1486	C
ATOM	719	O	GLU	A	112	-4.010	8.992	31.824	1.00143.41			O
ANISOU	719	O	GLU	A	112	16378	19233	18879	-4648	-4165	1684	O
ATOM	720	CB	GLU	A	112	-6.612	8.746	33.759	1.00142.72			C
ANISOU	720	CB	GLU	A	112	16714	19397	18116	-4847	-4327	1080	C
ATOM	721	CG	GLU	A	112	-7.267	7.973	34.891	1.00150.78			C
ANISOU	721	CG	GLU	A	112	17593	20649	19049	-5027	-4427	1200	C
ATOM	722	CD	GLU	A	112	-6.700	6.575	35.050	1.00151.69			C
ANISOU	722	CD	GLU	A	112	17175	20823	19638	-4951	-4458	1789	C
ATOM	723	OE1	GLU	A	112	-6.373	5.943	34.022	1.00138.84			O
ANISOU	723	OE1	GLU	A	112	15340	18931	18484	-4535	-4271	1894	O
ATOM	724	OE2	GLU	A	112	-6.577	6.109	36.203	1.00160.84			O
ANISOU	724	OE2	GLU	A	112	18155	22273	20684	-5307	-4664	2152	O
ATOM	725	N	LEU	A	113	-4.600	10.984	32.695	1.00136.91			N
ANISOU	725	N	LEU	A	113	16332	18576	17112	-5207	-4387	1133	N
ATOM	726	CA	LEU	A	113	-4.004	11.763	31.622	1.00131.81			C
ANISOU	726	CA	LEU	A	113	15900	17695	16488	-5110	-4257	992	C
ATOM	727	C	LEU	A	113	-2.490	11.609	31.682	1.00122.52			C
ANISOU	727	C	LEU	A	113	14253	16742	15557	-5400	-4355	1608	C
ATOM	728	O	LEU	A	113	-1.822	11.514	30.653	1.00117.78			O
ANISOU	728	O	LEU	A	113	13512	15949	15290	-5174	-4163	1700	O
ATOM	729	CB	LEU	A	113	-4.385	13.237	31.767	1.00114.43			C
ANISOU	729	CB	LEU	A	113	14359	15436	13684	-5353	-4318	525	C
ATOM	730	CG	LEU	A	113	-4.744	14.008	30.496	1.00114.41			C
ANISOU	730	CG	LEU	A	113	14859	15001	13610	-4993	-4107	14	C
ATOM	731	CD1	LEU	A	113	-5.039	15.464	30.823	1.00115.01			C
ANISOU	731	CD1	LEU	A	113	15597	15038	13065	-5280	-4196	-381	C
ATOM	732	CD2	LEU	A	113	-3.644	13.906	29.455	1.00112.66			C
ANISOU	732	CD2	LEU	A	113	14435	14633	13738	-4901	-3965	270	C
ATOM	733	N	LEU	A	114	-1.960	11.578	32.901	1.00121.07			N

ANISOU	733	N	LEU	A	114	13819	16976	15205	-5913	-4655	2033	N
ATOM	734	CA	LEU	A	114	-0.525	11.450	33.119	1.00124.96			C
ANISOU	734	CA	LEU	A	114	13803	17762	15914	-6244	-4814	2663	C
ATOM	735	C	LEU	A	114	-0.027	10.081	32.672	1.00128.05			C
ANISOU	735	C	LEU	A	114	13543	18109	17002	-5837	-4680	3115	C
ATOM	736	O	LEU	A	114	1.095	9.946	32.182	1.00129.75			O
ANISOU	736	O	LEU	A	114	13351	18379	17570	-5829	-4621	3494	O
ATOM	737	CB	LEU	A	114	-0.183	11.693	34.589	1.00130.27			C
ANISOU	737	CB	LEU	A	114	14390	18898	16210	-6902	-5212	3011	C
ATOM	738	CG	LEU	A	114	1.295	11.623	34.976	1.00142.90			C
ANISOU	738	CG	LEU	A	114	15434	20881	17982	-7327	-5464	3700	C
ATOM	739	CD1	LEU	A	114	2.124	12.559	34.112	1.00146.40			C
ANISOU	739	CD1	LEU	A	114	15987	21242	18398	-7448	-5348	3623	C
ATOM	740	CD2	LEU	A	114	1.474	11.953	36.449	1.00144.47			C
ANISOU	740	CD2	LEU	A	114	15674	21513	17703	-8020	-5886	3974	C
ATOM	741	N	ARG	A	115	-0.867	9.067	32.843	1.00135.92			N
ANISOU	741	N	ARG	A	115	14450	18999	18192	-5504	-4610	3069	N
ATOM	742	CA	ARG	A	115	-0.543	7.732	32.363	1.00158.81			C
ANISOU	742	CA	ARG	A	115	16837	21770	21733	-5063	-4436	3433	C
ATOM	743	C	ARG	A	115	-0.463	7.737	30.841	1.00173.73			C
ANISOU	743	C	ARG	A	115	18838	23232	23938	-4578	-4043	3159	C
ATOM	744	O	ARG	A	115	0.462	7.172	30.258	1.00180.61			O
ANISOU	744	O	ARG	A	115	19276	24047	25300	-4373	-3881	3535	O
ATOM	745	CB	ARG	A	115	-1.586	6.721	32.836	1.00164.46			C
ANISOU	745	CB	ARG	A	115	17551	22420	22514	-4845	-4426	3364	C
ATOM	746	CG	ARG	A	115	-1.651	6.551	34.342	1.00166.17			C
ANISOU	746	CG	ARG	A	115	17651	23040	22447	-5317	-4790	3679	C
ATOM	747	CD	ARG	A	115	-2.677	5.500	34.724	1.00172.54			C
ANISOU	747	CD	ARG	A	115	18466	23755	23338	-5099	-4734	3604	C
ATOM	748	NE	ARG	A	115	-2.308	4.171	34.245	1.00182.01			N
ANISOU	748	NE	ARG	A	115	19225	24776	25154	-4675	-4573	3992	N
ATOM	749	CZ	ARG	A	115	-1.714	3.245	34.991	1.00193.49			C
ANISOU	749	CZ	ARG	A	115	20226	26433	26858	-4772	-4766	4624	C
ATOM	750	NH1	ARG	A	115	-1.420	3.500	36.259	1.00202.93			N
ANISOU	750	NH1	ARG	A	115	21343	28037	27723	-5311	-5154	4948	N
ATOM	751	NH2	ARG	A	115	-1.415	2.062	34.471	1.00192.75			N
ANISOU	751	NH2	ARG	A	115	19791	26113	27331	-4331	-4574	4937	N
ATOM	752	N	GLY	A	116	-1.433	8.386	30.205	1.00175.16			N
ANISOU	752	N	GLY	A	116	19611	23111	23833	-4394	-3887	2507	N
ATOM	753	CA	GLY	A	116	-1.451	8.510	28.760	1.00169.30			C
ANISOU	753	CA	GLY	A	116	19089	21942	23294	-3979	-3542	2193	C
ATOM	754	C	GLY	A	116	-0.346	9.425	28.271	1.00157.74			C
ANISOU	754	C	GLY	A	116	17640	20516	21777	-4215	-3503	2296	C
ATOM	755	O	GLY	A	116	0.108	9.317	27.131	1.00156.72			O
ANISOU	755	O	GLY	A	116	17495	20105	21946	-3931	-3201	2265	O
ATOM	756	N	TYR	A	117	0.083	10.332	29.142	1.00144.29			N
ANISOU	756	N	TYR	A	117	15997	19160	19669	-4772	-3798	2413	N
ATOM	757	CA	TYR	A	117	1.190	11.228	28.841	1.00142.18			C
ANISOU	757	CA	TYR	A	117	15718	18998	19307	-5111	-3804	2556	C
ATOM	758	C	TYR	A	117	2.469	10.424	28.665	1.00144.86			C
ANISOU	758	C	TYR	A	117	15306	19509	20227	-5067	-3723	3194	C
ATOM	759	O	TYR	A	117	3.107	10.468	27.612	1.00142.47			O
ANISOU	759	O	TYR	A	117	14924	19003	20207	-4875	-3424	3206	O
ATOM	760	CB	TYR	A	117	1.362	12.253	29.966	1.00149.88			C
ANISOU	760	CB	TYR	A	117	16897	20339	19709	-5774	-4172	2595	C
ATOM	761	CG	TYR	A	117	2.491	13.241	29.751	1.00159.62			C
ANISOU	761	CG	TYR	A	117	18152	21717	20780	-6222	-4213	2742	C
ATOM	762	CD1	TYR	A	117	2.281	14.423	29.054	1.00159.63			C
ANISOU	762	CD1	TYR	A	117	18827	21437	20389	-6290	-4085	2243	C
ATOM	763	CD2	TYR	A	117	3.762	12.998	30.257	1.00163.90			C
ANISOU	763	CD2	TYR	A	117	18041	22681	21552	-6593	-4394	3389	C
ATOM	764	CE1	TYR	A	117	3.303	15.330	28.857	1.00161.17			C
ANISOU	764	CE1	TYR	A	117	19075	21753	20407	-6743	-4111	2368	C
ATOM	765	CE2	TYR	A	117	4.791	13.900	30.065	1.00167.26			C
ANISOU	765	CE2	TYR	A	117	18458	23268	21825	-7048	-4431	3523	C
ATOM	766	CZ	TYR	A	117	4.555	15.065	29.365	1.00166.47			C
ANISOU	766	CZ	TYR	A	117	19067	22871	21314	-7139	-4279	3003	C
ATOM	767	OH	TYR	A	117	5.573	15.969	29.168	1.00174.27			O
ANISOU	767	OH	TYR	A	117	20083	24009	22124	-7632	-4303	3128	O
ATOM	768	N	VAL	A	118	2.834	9.687	29.709	1.00154.29			N

ANISOU	768	N	VAL	A	118	15955	21073	21597	-5239	-3985	3729	N
ATOM	769	CA	VAL	A	118	4.050	8.886	29.702	1.00161.52			C
ANISOU	769	CA	VAL	A	118	16089	22198	23082	-5186	-3960	4398	C
ATOM	770	C	VAL	A	118	3.999	7.818	28.615	1.00164.50			C
ANISOU	770	C	VAL	A	118	16274	22171	24058	-4510	-3523	4396	C
ATOM	771	O	VAL	A	118	4.967	7.622	27.880	1.00172.09			O
ANISOU	771	O	VAL	A	118	16863	23083	25442	-4356	-3268	4653	O
ATOM	772	CB	VAL	A	118	4.284	8.211	31.069	1.00159.07			C
ANISOU	772	CB	VAL	A	118	15290	22320	22827	-5448	-4360	4962	C
ATOM	773	CG1	VAL	A	118	5.552	7.372	31.041	1.00165.53			C
ANISOU	773	CG1	VAL	A	118	15266	23351	24276	-5336	-4348	5680	C
ATOM	774	CG2	VAL	A	118	4.355	9.258	32.171	1.00150.90			C
ANISOU	774	CG2	VAL	A	118	14490	21681	21164	-6166	-4791	4970	C
ATOM	775	N	ASN	A	119	2.857	7.145	28.511	1.00152.39			N
ANISOU	775	N	ASN	A	119	15011	20346	22544	-4130	-3418	4094	N
ATOM	776	CA	ASN	A	119	2.682	6.066	27.546	1.00149.79			C
ANISOU	776	CA	ASN	A	119	14578	19604	22731	-3516	-3015	4068	C
ATOM	777	C	ASN	A	119	2.817	6.541	26.100	1.00166.97			C
ANISOU	777	C	ASN	A	119	17091	21378	24973	-3265	-2606	3686	C
ATOM	778	O	ASN	A	119	3.170	5.760	25.216	1.00182.83			O
ANISOU	778	O	ASN	A	119	18904	23096	27468	-2841	-2229	3798	O
ATOM	779	CB	ASN	A	119	1.334	5.374	27.757	1.00135.25			C
ANISOU	779	CB	ASN	A	119	13035	17551	20803	-3250	-3019	3763	C
ATOM	780	CG	ASN	A	119	1.182	4.119	26.916	1.00134.72			C
ANISOU	780	CG	ASN	A	119	12842	17081	21265	-2671	-2639	3811	C
ATOM	781	OD1	ASN	A	119	2.162	3.442	26.605	1.00126.72			O
ANISOU	781	OD1	ASN	A	119	11340	16044	20763	-2470	-2449	4268	O
ATOM	782	ND2	ASN	A	119	-0.053	3.804	26.543	1.00138.75			N
ANISOU	782	ND2	ASN	A	119	13795	17269	21653	-2405	-2519	3337	N
ATOM	783	N	PHE	A	120	2.540	7.820	25.864	1.00163.26			N
ANISOU	783	N	PHE	A	120	17166	20868	23997	-3532	-2668	3238	N
ATOM	784	CA	PHE	A	120	2.658	8.381	24.521	1.00163.70			C
ANISOU	784	CA	PHE	A	120	17622	20539	24038	-3352	-2315	2865	C
ATOM	785	C	PHE	A	120	4.108	8.381	24.049	1.00163.79			C
ANISOU	785	C	PHE	A	120	17148	20657	24427	-3428	-2098	3287	C
ATOM	786	O	PHE	A	120	4.393	8.086	22.888	1.00154.32			O
ANISOU	786	O	PHE	A	120	15997	19103	23535	-3089	-1670	3196	O
ATOM	787	CB	PHE	A	120	2.084	9.798	24.463	1.00165.38			C
ANISOU	787	CB	PHE	A	120	18542	20693	23602	-3644	-2465	2331	C
ATOM	788	CG	PHE	A	120	2.131	10.410	23.091	1.00162.33			C
ANISOU	788	CG	PHE	A	120	18651	19882	23145	-3473	-2133	1932	C
ATOM	789	CD1	PHE	A	120	1.239	10.009	22.110	1.00158.83			C
ANISOU	789	CD1	PHE	A	120	18619	18957	22773	-2988	-1878	1512	C
ATOM	790	CD2	PHE	A	120	3.067	11.382	22.782	1.00163.50			C
ANISOU	790	CD2	PHE	A	120	18875	20114	23133	-3829	-2085	1982	C
ATOM	791	CE1	PHE	A	120	1.280	10.563	20.846	1.00155.02			C
ANISOU	791	CE1	PHE	A	120	18634	18071	22197	-2850	-1592	1157	C
ATOM	792	CE2	PHE	A	120	3.112	11.942	21.520	1.00164.91			C
ANISOU	792	CE2	PHE	A	120	19554	19884	23219	-3695	-1774	1618	C
ATOM	793	CZ	PHE	A	120	2.218	11.533	20.551	1.00160.76			C
ANISOU	793	CZ	PHE	A	120	19456	18867	22758	-3199	-1532	1208	C
ATOM	794	N	ARG	A	121	5.020	8.714	24.956	1.00177.75			N
ANISOU	794	N	ARG	A	121	18448	22925	26164	-3895	-2391	3749	N
ATOM	795	CA	ARG	A	121	6.445	8.674	24.654	1.00188.88			C
ANISOU	795	CA	ARG	A	121	19265	24532	27967	-4003	-2227	4217	C
ATOM	796	C	ARG	A	121	6.911	7.236	24.467	1.00193.62			C
ANISOU	796	C	ARG	A	121	19210	25068	29289	-3519	-1978	4681	C
ATOM	797	O	ARG	A	121	7.836	6.966	23.701	1.00200.96			O
ANISOU	797	O	ARG	A	121	19775	25918	30663	-3333	-1610	4902	O
ATOM	798	CB	ARG	A	121	7.248	9.350	25.764	1.00189.59			C
ANISOU	798	CB	ARG	A	121	18993	25215	27827	-4659	-2667	4622	C
ATOM	799	CG	ARG	A	121	7.207	10.863	25.708	1.00194.15			C
ANISOU	799	CG	ARG	A	121	20170	25832	27766	-5175	-2796	4234	C
ATOM	800	CD	ARG	A	121	7.963	11.480	26.870	1.00212.11			C
ANISOU	800	CD	ARG	A	121	22119	28696	29778	-5873	-3255	4641	C
ATOM	801	NE	ARG	A	121	8.276	12.885	26.627	1.00223.22			N
ANISOU	801	NE	ARG	A	121	24005	30131	30678	-6386	-3286	4364	N
ATOM	802	CZ	ARG	A	121	7.405	13.880	26.762	1.00222.51			C
ANISOU	802	CZ	ARG	A	121	24745	29864	29934	-6601	-3419	3824	C
ATOM	803	NH1	ARG	A	121	6.159	13.625	27.134	1.00214.64			N

ANISOU	803	NH1	ARG	A	121	24142	28681	28730	-6343	-3525	3497	N
ATOM	804	NH2	ARG	A	121	7.779	15.129	26.520	1.00225.49			N
ANISOU	804	NH2	ARG	A	121	25564	30245	29867	-7071	-3430	3610	N
ATOM	805	N	LEU	A	122	6.262	6.317	25.173	1.00185.80			N
ANISOU	805	N	LEU	A	122	18092	24097	28405	-3316	-2159	4820	N
ATOM	806	CA	LEU	A	122	6.583	4.902	25.066	1.00184.13			C
ANISOU	806	CA	LEU	A	122	17343	23774	28845	-2834	-1941	5246	C
ATOM	807	C	LEU	A	122	6.036	4.329	23.762	1.00185.34			C
ANISOU	807	C	LEU	A	122	17892	23307	29224	-2267	-1410	4847	C
ATOM	808	O	LEU	A	122	6.689	3.516	23.108	1.00189.70			O
ANISOU	808	O	LEU	A	122	18082	23659	30335	-1876	-1011	5112	O
ATOM	809	CB	LEU	A	122	6.018	4.136	26.262	1.00177.19			C
ANISOU	809	CB	LEU	A	122	16286	23094	27945	-2849	-2317	5506	C
ATOM	810	CG	LEU	A	122	6.356	4.711	27.640	1.00167.39			C
ANISOU	810	CG	LEU	A	122	14790	22443	26369	-3458	-2890	5843	C
ATOM	811	CD1	LEU	A	122	5.785	3.836	28.746	1.00177.60			C
ANISOU	811	CD1	LEU	A	122	15941	23875	27662	-3439	-3209	6104	C
ATOM	812	CD2	LEU	A	122	7.858	4.884	27.805	1.00153.70			C
ANISOU	812	CD2	LEU	A	122	12333	21114	24951	-3695	-2965	6441	C
ATOM	813	N	GLN	A	123	4.834	4.760	23.391	1.00184.57			N
ANISOU	813	N	GLN	A	123	18543	22902	28683	-2226	-1406	4213	N
ATOM	814	CA	GLN	A	123	4.217	4.328	22.142	1.00191.51			C
ANISOU	814	CA	GLN	A	123	19889	23194	29682	-1757	-959	3784	C
ATOM	815	C	GLN	A	123	4.993	4.855	20.941	1.00193.27			C
ANISOU	815	C	GLN	A	123	20226	23191	30015	-1709	-540	3661	C
ATOM	816	O	GLN	A	123	5.089	4.188	19.911	1.00194.71			O
ANISOU	816	O	GLN	A	123	20491	22948	30542	-1293	-66	3588	O
ATOM	817	CB	GLN	A	123	2.759	4.795	22.068	1.00196.43			C
ANISOU	817	CB	GLN	A	123	21255	23603	29775	-1769	-1119	3144	C
ATOM	818	CG	GLN	A	123	1.776	3.932	22.850	1.00200.35			C
ANISOU	818	CG	GLN	A	123	21732	24128	30263	-1644	-1333	3157	C
ATOM	819	CD	GLN	A	123	1.408	2.651	22.121	1.00202.36			C
ANISOU	819	CD	GLN	A	123	22024	23935	30926	-1127	-963	3134	C
ATOM	820	OE1	GLN	A	123	1.414	2.599	20.891	1.00202.32			O
ANISOU	820	OE1	GLN	A	123	22335	23503	31036	-854	-566	2865	O
ATOM	821	NE2	GLN	A	123	1.085	1.610	22.880	1.00200.64			N
ANISOU	821	NE2	GLN	A	123	21530	23798	30905	-1018	-1086	3416	N
ATOM	822	N	TYR	A	124	5.548	6.055	21.080	1.00192.54			N
ANISOU	822	N	TYR	A	124	20177	23374	29606	-2165	-701	3633	N
ATOM	823	CA	TYR	A	124	6.287	6.679	19.989	1.00193.94			C
ANISOU	823	CA	TYR	A	124	20504	23365	29818	-2207	-320	3498	C
ATOM	824	C	TYR	A	124	7.599	7.285	20.474	1.00201.52			C
ANISOU	824	C	TYR	A	124	20890	24826	30852	-2659	-444	3949	C
ATOM	825	O	TYR	A	124	7.634	8.437	20.909	1.00202.99			O
ANISOU	825	O	TYR	A	124	21313	25268	30544	-3166	-758	3815	O
ATOM	826	CB	TYR	A	124	5.427	7.739	19.299	1.00185.22			C
ANISOU	826	CB	TYR	A	124	20314	21935	28125	-2310	-322	2813	C
ATOM	827	CG	TYR	A	124	4.100	7.201	18.818	1.00176.72			C
ANISOU	827	CG	TYR	A	124	19786	20406	26955	-1900	-247	2363	C
ATOM	828	CD1	TYR	A	124	4.032	6.342	17.730	1.00177.40			C
ANISOU	828	CD1	TYR	A	124	19994	20016	27394	-1437	229	2266	C
ATOM	829	CD2	TYR	A	124	2.916	7.546	19.457	1.00168.16			C
ANISOU	829	CD2	TYR	A	124	19090	19376	25426	-1991	-642	2036	C
ATOM	830	CE1	TYR	A	124	2.822	5.842	17.289	1.00171.09			C
ANISOU	830	CE1	TYR	A	124	19692	18822	26492	-1110	272	1866	C
ATOM	831	CE2	TYR	A	124	1.700	7.051	19.022	1.00163.42			C
ANISOU	831	CE2	TYR	A	124	18934	18404	24753	-1638	-589	1637	C
ATOM	832	CZ	TYR	A	124	1.660	6.200	17.937	1.00162.00			C
ANISOU	832	CZ	TYR	A	124	18868	17770	24915	-1215	-150	1559	C
ATOM	833	OH	TYR	A	124	0.455	5.702	17.496	1.00153.26			O
ANISOU	833	OH	TYR	A	124	18203	16309	23720	-910	-120	1170	O
ATOM	834	N	PRO	A	125	8.685	6.501	20.403	1.00206.01			N
ANISOU	834	N	PRO	A	125	20696	25536	32044	-2478	-194	4492	N
ATOM	835	CA	PRO	A	125	10.018	6.945	20.815	1.00212.48			C
ANISOU	835	CA	PRO	A	125	20838	26864	33030	-2877	-288	4983	C
ATOM	836	C	PRO	A	125	10.704	7.769	19.731	1.00210.55			C
ANISOU	836	C	PRO	A	125	20804	26472	32722	-3041	117	4767	C
ATOM	837	O	PRO	A	125	11.687	8.452	20.014	1.00212.48			O
ANISOU	837	O	PRO	A	125	20654	27140	32939	-3505	8	5045	O
ATOM	838	CB	PRO	A	125	10.766	5.628	21.013	1.00217.08			C

ANISOU	838	CB	PRO	A	125	20553	27558	34369	-2473	-110	5608	C
ATOM	839	CG	PRO	A	125	10.138	4.709	20.026	1.00212.62			C
ANISOU	839	CG	PRO	A	125	20357	26362	34068	-1842	385	5317	C
ATOM	840	CD	PRO	A	125	8.680	5.088	19.983	1.00204.55			C
ANISOU	840	CD	PRO	A	125	20226	25039	32457	-1867	181	4692	C
ATOM	841	N	GLU	A	126	10.183	7.714	18.509	1.00206.64			N
ANISOU	841	N	GLU	A	126	20947	25388	32178	-2702	570	4277	N
ATOM	842	CA	GLU	A	126	10.807	8.404	17.382	1.00208.91			C
ANISOU	842	CA	GLU	A	126	21496	25467	32412	-2826	1017	4056	C
ATOM	843	C	GLU	A	126	10.597	9.917	17.421	1.00210.83			C
ANISOU	843	C	GLU	A	126	22376	25790	31940	-3402	742	3672	C
ATOM	844	O	GLU	A	126	10.977	10.626	16.488	1.00212.91			O
ANISOU	844	O	GLU	A	126	23016	25842	32038	-3562	1071	3418	O
ATOM	845	CB	GLU	A	126	10.303	7.838	16.050	1.00202.69			C
ANISOU	845	CB	GLU	A	126	21251	23995	31766	-2299	1582	3658	C
ATOM	846	CG	GLU	A	126	8.821	8.064	15.786	1.00188.89			C
ANISOU	846	CG	GLU	A	126	20436	21825	29507	-2164	1406	3047	C
ATOM	847	CD	GLU	A	126	7.948	6.972	16.371	1.00177.68			C
ANISOU	847	CD	GLU	A	126	18900	20339	28270	-1781	1212	3123	C
ATOM	848	OE1	GLU	A	126	6.710	7.135	16.366	1.00168.18			O
ANISOU	848	OE1	GLU	A	126	18337	18898	26663	-1707	989	2675	O
ATOM	849	OE2	GLU	A	126	8.497	5.949	16.830	1.00177.05			O
ANISOU	849	OE2	GLU	A	126	18088	20441	28741	-1551	1286	3634	O
ATOM	850	N	LEU	A	127	9.996	10.408	18.499	1.00210.44			N
ANISOU	850	N	LEU	A	127	22480	26024	31455	-3717	160	3628	N
ATOM	851	CA	LEU	A	127	9.732	11.833	18.639	1.00212.29			C
ANISOU	851	CA	LEU	A	127	23363	26312	30986	-4248	-121	3264	C
ATOM	852	C	LEU	A	127	10.461	12.424	19.843	1.00220.82			C
ANISOU	852	C	LEU	A	127	23952	28043	31905	-4877	-581	3678	C
ATOM	853	O	LEU	A	127	10.435	13.636	20.058	1.00219.77			O
ANISOU	853	O	LEU	A	127	24294	28011	31198	-5400	-815	3452	O
ATOM	854	CB	LEU	A	127	8.227	12.087	18.767	1.00201.19			C
ANISOU	854	CB	LEU	A	127	22765	24593	29087	-4091	-383	2726	C
ATOM	855	CG	LEU	A	127	7.320	11.437	17.719	1.00190.69			C
ANISOU	855	CG	LEU	A	127	21931	22651	27873	-3486	-40	2317	C
ATOM	856	CD1	LEU	A	127	5.862	11.786	17.979	1.00178.02			C
ANISOU	856	CD1	LEU	A	127	21030	20839	25769	-3394	-369	1821	C
ATOM	857	CD2	LEU	A	127	7.729	11.846	16.313	1.00192.47			C
ANISOU	857	CD2	LEU	A	127	22589	22462	28081	-3432	459	2046	C
ATOM	858	N	PHE	A	128	11.115	11.567	20.624	1.00227.49			N
ANISOU	858	N	PHE	A	128	23877	29317	33243	-4835	-719	4293	N
ATOM	859	CA	PHE	A	128	11.735	12.006	21.872	1.00231.23			C
ANISOU	859	CA	PHE	A	128	23861	30433	33563	-5433	-1228	4728	C
ATOM	860	C	PHE	A	128	13.130	11.427	22.115	1.00230.89			C
ANISOU	860	C	PHE	A	128	22720	30860	34146	-5503	-1158	5442	C
ATOM	861	O	PHE	A	128	13.812	11.829	23.058	1.00234.33			O
ANISOU	861	O	PHE	A	128	22690	31865	34479	-6053	-1571	5849	O
ATOM	862	CB	PHE	A	128	10.825	11.676	23.059	1.00229.62			C
ANISOU	862	CB	PHE	A	128	23725	30382	33139	-5427	-1733	4764	C
ATOM	863	CG	PHE	A	128	9.457	12.291	22.965	1.00221.58			C
ANISOU	863	CG	PHE	A	128	23700	28982	31509	-5385	-1845	4094	C
ATOM	864	CD1	PHE	A	128	9.230	13.580	23.421	1.00220.60			C
ANISOU	864	CD1	PHE	A	128	24140	28979	30698	-5953	-2161	3820	C
ATOM	865	CD2	PHE	A	128	8.397	11.581	22.422	1.00212.63			C
ANISOU	865	CD2	PHE	A	128	22933	27368	30488	-4779	-1634	3745	C
ATOM	866	CE1	PHE	A	128	7.973	14.150	23.337	1.00213.22			C
ANISOU	866	CE1	PHE	A	128	24090	27691	29232	-5865	-2252	3214	C
ATOM	867	CE2	PHE	A	128	7.138	12.146	22.335	1.00205.41			C
ANISOU	867	CE2	PHE	A	128	22867	26136	29043	-4722	-1752	3147	C
ATOM	868	CZ	PHE	A	128	6.925	13.431	22.794	1.00206.63			C
ANISOU	868	CZ	PHE	A	128	23548	26415	28548	-5240	-2056	2884	C
ATOM	869	N	ASP	A	129	13.550	10.485	21.275	1.00222.75			N
ANISOU	869	N	ASP	A	129	21281	29592	33761	-4949	-638	5598	N
ATOM	870	CA	ASP	A	129	14.860	9.854	21.431	1.00218.17			C
ANISOU	870	CA	ASP	A	129	19615	29426	33856	-4908	-513	6279	C
ATOM	871	C	ASP	A	129	16.003	10.819	21.139	1.00225.03			C
ANISOU	871	C	ASP	A	129	20227	30626	34649	-5483	-405	6402	C
ATOM	872	O	ASP	A	129	16.387	11.617	21.994	1.00226.78			O
ANISOU	872	O	ASP	A	129	20307	31347	34511	-6155	-884	6594	O
ATOM	873	CB	ASP	A	129	14.977	8.616	20.541	1.00212.67			C

ANISOU	873	CB	ASP	A	129	18624	28323	33857	-4133	87	6366	C
ATOM	874	CG	ASP	A	129	14.376	7.383	21.181	1.00214.25			C
ANISOU	874	CG	ASP	A	129	18583	28453	34370	-3636	-97	6606	C
ATOM	875	OD1	ASP	A	129	13.467	7.532	22.024	1.00208.75			O
ANISOU	875	OD1	ASP	A	129	18265	27817	33233	-3799	-589	6460	O
ATOM	876	OD2	ASP	A	129	14.815	6.263	20.843	1.00222.40			O
ANISOU	876	OD2	ASP	A	129	19063	29356	36082	-3086	271	6939	O
ATOM	877	N	SER	A	130	16.547	10.740	19.930	1.00235.39			N
ANISOU	877	N	SER	A	130	21500	31655	36283	-5247	240	6288	N
ATOM	878	CA	SER	A	130	17.626	11.633	19.520	1.00250.45			C
ANISOU	878	CA	SER	A	130	23193	33836	38131	-5785	431	6366	C
ATOM	879	C	SER	A	130	17.069	12.997	19.128	1.00252.80			C
ANISOU	879	C	SER	A	130	24578	33870	37604	-6275	372	5733	C
ATOM	880	O	SER	A	130	17.319	13.489	18.028	1.00252.59			O
ANISOU	880	O	SER	A	130	24957	33528	37488	-6325	862	5409	O
ATOM	881	CB	SER	A	130	18.412	11.029	18.356	1.00257.07			C
ANISOU	881	CB	SER	A	130	23607	34451	39617	-5350	1197	6465	C
ATOM	882	OG	SER	A	130	17.578	10.824	17.229	1.00255.74			O
ANISOU	882	OG	SER	A	130	24292	33534	39343	-4867	1684	5882	O
ATOM	883	N	LEU	A	131	16.314	13.601	20.039	1.00253.73			N
ANISOU	883	N	LEU	A	131	25188	34102	37115	-6630	-220	5563	N
ATOM	884	CA	LEU	A	131	15.652	14.871	19.775	1.00248.99			C
ANISOU	884	CA	LEU	A	131	25679	33215	35712	-7033	-325	4957	C
ATOM	885	C	LEU	A	131	16.626	16.037	19.903	1.00244.54			C
ANISOU	885	C	LEU	A	131	25047	33050	34819	-7864	-429	5073	C
ATOM	886	O	LEU	A	131	16.799	16.600	20.985	1.00241.29			O
ANISOU	886	O	LEU	A	131	24516	33105	34058	-8457	-973	5285	O
ATOM	887	CB	LEU	A	131	14.468	15.057	20.728	1.00245.29			C
ANISOU	887	CB	LEU	A	131	25751	32711	34736	-7074	-880	4730	C
ATOM	888	CG	LEU	A	131	13.490	16.188	20.409	1.00241.05			C
ANISOU	888	CG	LEU	A	131	26429	31745	33414	-7268	-961	4038	C
ATOM	889	CD1	LEU	A	131	12.888	16.003	19.024	1.00235.32			C
ANISOU	889	CD1	LEU	A	131	26345	30324	32744	-6709	-434	3533	C
ATOM	890	CD2	LEU	A	131	12.397	16.256	21.464	1.00236.43			C
ANISOU	890	CD2	LEU	A	131	26213	31200	32421	-7281	-1486	3886	C
ATOM	891	N	SER	A	132	17.263	16.388	18.790	1.00241.74			N
ANISOU	891	N	SER	A	132	24793	32502	34557	-7935	108	4929	N
ATOM	892	CA	SER	A	132	18.197	17.508	18.756	1.00240.82			C
ANISOU	892	CA	SER	A	132	24669	32713	34119	-8742	90	4996	C
ATOM	893	C	SER	A	132	17.458	18.815	18.497	1.00234.02			C
ANISOU	893	C	SER	A	132	25084	31460	32375	-9138	-31	4364	C
ATOM	894	O	SER	A	132	16.860	18.993	17.436	1.00229.20			O
ANISOU	894	O	SER	A	132	25281	30219	31585	-8810	353	3846	O
ATOM	895	CB	SER	A	132	19.261	17.286	17.679	1.00240.33			C
ANISOU	895	CB	SER	A	132	24113	32635	34566	-8664	762	5140	C
ATOM	896	OG	SER	A	132	20.140	18.394	17.593	1.00239.10			O
ANISOU	896	OG	SER	A	132	23990	32783	34073	-9483	772	5173	O
ATOM	897	N	PRO	A	133	17.502	19.739	19.470	1.00231.94			N
ANISOU	897	N	PRO	A	133	25029	31552	31544	-9852	-571	4412	N
ATOM	898	CA	PRO	A	133	16.828	21.040	19.379	1.00222.11			C
ANISOU	898	CA	PRO	A	133	25002	29960	29429	-10266	-735	3848	C
ATOM	899	C	PRO	A	133	17.361	21.907	18.238	1.00213.60			C
ANISOU	899	C	PRO	A	133	24454	28599	28105	-10599	-275	3557	C
ATOM	900	O	PRO	A	133	16.754	22.925	17.907	1.00198.64			O
ANISOU	900	O	PRO	A	133	23671	26277	25527	-10815	-309	3038	O
ATOM	901	CB	PRO	A	133	17.149	21.694	20.728	1.00227.85			C
ANISOU	901	CB	PRO	A	133	25558	31269	29745	-11044	-1357	4136	C
ATOM	902	CG	PRO	A	133	17.466	20.555	21.641	1.00231.95			C
ANISOU	902	CG	PRO	A	133	24952	32311	30867	-10818	-1628	4748	C
ATOM	903	CD	PRO	A	133	18.155	19.549	20.776	1.00236.85			C
ANISOU	903	CD	PRO	A	133	24760	32919	32314	-10288	-1087	5024	C
ATOM	904	N	GLU	A	134	18.481	21.501	17.647	1.00224.57			N
ANISOU	904	N	GLU	A	134	25064	30215	30047	-10632	164	3890	N
ATOM	905	CA	GLU	A	134	19.096	22.253	16.559	1.00237.08			C
ANISOU	905	CA	GLU	A	134	27063	31573	31442	-10985	653	3657	C
ATOM	906	C	GLU	A	134	18.378	22.014	15.231	1.00231.44			C
ANISOU	906	C	GLU	A	134	27121	30072	30744	-10331	1181	3138	C
ATOM	907	O	GLU	A	134	18.258	22.922	14.408	1.00231.80			O
ANISOU	907	O	GLU	A	134	28103	29685	30284	-10585	1416	2698	O
ATOM	908	CB	GLU	A	134	20.580	21.890	16.439	1.00251.19			C

ANISOU	908	CB	GLU	A	134	27668	33931	33842	-11269	955	4217	C
ATOM	909	CG	GLU	A	134	21.359	22.739	15.443	1.00258.46			C
ANISOU	909	CG	GLU	A	134	28927	34730	34544	-11788	1445	4031	C
ATOM	910	CD	GLU	A	134	22.847	22.438	15.458	1.00266.24			C
ANISOU	910	CD	GLU	A	134	28654	36376	36129	-12137	1700	4613	C
ATOM	911	OE1	GLU	A	134	23.275	21.580	16.258	1.00271.70			O
ANISOU	911	OE1	GLU	A	134	28208	37617	37410	-11955	1460	5179	O
ATOM	912	OE2	GLU	A	134	23.589	23.063	14.670	1.00265.76			O
ANISOU	912	OE2	GLU	A	134	28735	36288	35953	-12595	2139	4512	O
ATOM	913	N	ALA	A	135	17.896	20.791	15.030	1.00223.79			N
ANISOU	913	N	ALA	A	135	25792	28908	30332	-9512	1351	3196	N
ATOM	914	CA	ALA	A	135	17.221	20.430	13.787	1.00215.17			C
ANISOU	914	CA	ALA	A	135	25369	27089	29296	-8878	1840	2743	C
ATOM	915	C	ALA	A	135	15.723	20.709	13.850	1.00208.93			C
ANISOU	915	C	ALA	A	135	25626	25785	27973	-8554	1511	2219	C
ATOM	916	O	ALA	A	135	15.056	20.801	12.818	1.00199.80			O
ANISOU	916	O	ALA	A	135	25305	23989	26620	-8202	1805	1746	O
ATOM	917	CB	ALA	A	135	17.475	18.967	13.453	1.00214.13			C
ANISOU	917	CB	ALA	A	135	24379	26961	30021	-8173	2242	3050	C
ATOM	918	N	VAL	A	136	15.201	20.841	15.066	1.00214.35			N
ANISOU	918	N	VAL	A	136	26253	26763	28426	-8683	902	2311	N
ATOM	919	CA	VAL	A	136	13.778	21.093	15.275	1.00208.56			C
ANISOU	919	CA	VAL	A	136	26401	25623	27220	-8381	564	1849	C
ATOM	920	C	VAL	A	136	13.393	22.507	14.850	1.00207.50			C
ANISOU	920	C	VAL	A	136	27466	25095	26279	-8785	498	1336	C
ATOM	921	O	VAL	A	136	12.361	22.714	14.208	1.00194.85			O
ANISOU	921	O	VAL	A	136	26762	22901	24371	-8391	542	835	O
ATOM	922	CB	VAL	A	136	13.382	20.877	16.751	1.00205.50			C
ANISOU	922	CB	VAL	A	136	25611	25683	26788	-8463	-41	2101	C
ATOM	923	CG1	VAL	A	136	11.925	21.253	16.978	1.00198.51			C
ANISOU	923	CG1	VAL	A	136	25647	24395	25382	-8197	-361	1597	C
ATOM	924	CG2	VAL	A	136	13.635	19.435	17.161	1.00205.25			C
ANISOU	924	CG2	VAL	A	136	24489	25966	27530	-7998	-2	2590	C
ATOM	925	N	ARG	A	137	14.233	23.475	15.207	1.00218.12			N
ANISOU	925	N	ARG	A	137	28826	26770	27280	-9577	381	1476	N
ATOM	926	CA	ARG	A	137	13.991	24.873	14.864	1.00221.22			C
ANISOU	926	CA	ARG	A	137	30364	26805	26885	-10038	319	1032	C
ATOM	927	C	ARG	A	137	13.926	25.071	13.354	1.00231.85			C
ANISOU	927	C	ARG	A	137	32417	27524	28152	-9807	847	649	C
ATOM	928	O	ARG	A	137	13.189	25.926	12.863	1.00238.15			O
ANISOU	928	O	ARG	A	137	34352	27783	28352	-9799	796	153	O
ATOM	929	CB	ARG	A	137	15.082	25.763	15.456	1.00217.43			C
ANISOU	929	CB	ARG	A	137	29669	26828	26116	-10987	164	1312	C
ATOM	930	CG	ARG	A	137	14.813	27.251	15.319	1.00212.19			C
ANISOU	930	CG	ARG	A	137	30224	25821	24577	-11529	26	881	C
ATOM	931	CD	ARG	A	137	15.927	28.062	15.953	1.00215.87			C
ANISOU	931	CD	ARG	A	137	30432	26820	24768	-12520	-134	1190	C
ATOM	932	NE	ARG	A	137	15.647	29.494	15.939	1.00211.04			N
ANISOU	932	NE	ARG	A	137	31034	25872	23281	-13068	-296	788	N
ATOM	933	CZ	ARG	A	137	16.406	30.405	16.537	1.00208.56			C
ANISOU	933	CZ	ARG	A	137	30788	25919	22536	-13992	-500	951	C
ATOM	934	NH1	ARG	A	137	17.492	30.031	17.200	1.00211.45			N
ANISOU	934	NH1	ARG	A	137	30029	27032	23280	-14476	-596	1520	N
ATOM	935	NH2	ARG	A	137	16.081	31.688	16.475	1.00206.94			N
ANISOU	935	NH2	ARG	A	137	31785	25323	21518	-14437	-619	553	N
ATOM	936	N	CYS	A	138	14.700	24.274	12.625	1.00230.08			N
ANISOU	936	N	CYS	A	138	31529	27361	28531	-9613	1360	887	N
ATOM	937	CA	CYS	A	138	14.718	24.336	11.169	1.00219.52			C
ANISOU	937	CA	CYS	A	138	30799	25443	27165	-9400	1918	560	C
ATOM	938	C	CYS	A	138	13.359	23.954	10.592	1.00202.01			C
ANISOU	938	C	CYS	A	138	29315	22587	24854	-8647	1898	114	C
ATOM	939	O	CYS	A	138	12.971	24.427	9.524	1.00192.53			O
ANISOU	939	O	CYS	A	138	29067	20786	23300	-8546	2137	-312	O
ATOM	940	CB	CYS	A	138	15.804	23.417	10.610	1.00224.54			C
ANISOU	940	CB	CYS	A	138	30472	26308	28536	-9286	2495	936	C
ATOM	941	SG	CYS	A	138	17.458	23.750	11.262	1.00291.43			S
ANISOU	941	SG	CYS	A	138	37897	35606	37225	-10139	2529	1518	S
ATOM	942	N	THR	A	139	12.640	23.097	11.309	1.00198.32			N
ANISOU	942	N	THR	A	139	28399	22261	24691	-8145	1597	224	N
ATOM	943	CA	THR	A	139	11.300	22.693	10.906	1.00195.03			C

ANISOU	943	CA	THR	A	139	28582	21320	24201	-7457	1512	-170	C
ATOM	944	C	THR	A	139	10.290	23.774	11.282	1.00186.06			C
ANISOU	944	C	THR	A	139	28430	19934	22330	-7575	1031	-585	C
ATOM	945	O	THR	A	139	9.337	24.032	10.546	1.00179.73			O
ANISOU	945	O	THR	A	139	28522	18552	21215	-7214	1031	-1043	O
ATOM	946	CB	THR	A	139	10.895	21.358	11.563	1.00198.14			C
ANISOU	946	CB	THR	A	139	28129	21965	25188	-6903	1379	105	C
ATOM	947	OG1	THR	A	139	11.898	20.370	11.297	1.00208.53			O
ANISOU	947	OG1	THR	A	139	28496	23530	27207	-6789	1821	530	O
ATOM	948	CG2	THR	A	139	9.560	20.873	11.019	1.00189.53			C
ANISOU	948	CG2	THR	A	139	27625	20333	24056	-6215	1349	-301	C
ATOM	949	N	ILE	A	140	10.510	24.409	12.429	1.00187.88			N
ANISOU	949	N	ILE	A	140	28500	20601	22285	-8082	622	-418	N
ATOM	950	CA	ILE	A	140	9.626	25.469	12.898	1.00194.22			C
ANISOU	950	CA	ILE	A	140	30208	21195	22391	-8225	187	-787	C
ATOM	951	C	ILE	A	140	9.762	26.719	12.032	1.00209.89			C
ANISOU	951	C	ILE	A	140	33277	22712	23759	-8591	339	-1149	C
ATOM	952	O	ILE	A	140	8.765	27.350	11.679	1.00209.54			O
ANISOU	952	O	ILE	A	140	34228	22152	23237	-8350	180	-1608	O
ATOM	953	CB	ILE	A	140	9.909	25.834	14.367	1.00198.03			C
ANISOU	953	CB	ILE	A	140	30270	22264	22710	-8742	-258	-500	C
ATOM	954	CG1	ILE	A	140	9.880	24.579	15.243	1.00199.75			C
ANISOU	954	CG1	ILE	A	140	29394	22963	23538	-8429	-409	-89	C
ATOM	955	CG2	ILE	A	140	8.903	26.860	14.866	1.00196.19			C
ANISOU	955	CG2	ILE	A	140	30996	21771	21777	-8810	-665	-908	C
ATOM	956	CD1	ILE	A	140	10.187	24.843	16.699	1.00205.73			C
ANISOU	956	CD1	ILE	A	140	29705	24315	24149	-8950	-855	231	C
ATOM	957	N	GLU	A	141	11.000	27.065	11.690	1.00223.00			N
ANISOU	957	N	GLU	A	141	34732	24557	25439	-9173	648	-933	N
ATOM	958	CA	GLU	A	141	11.270	28.214	10.831	1.00223.39			C
ANISOU	958	CA	GLU	A	141	35784	24178	24916	-9592	845	-1238	C
ATOM	959	C	GLU	A	141	10.677	28.012	9.444	1.00215.22			C
ANISOU	959	C	GLU	A	141	35458	22450	23864	-9050	1174	-1618	C
ATOM	960	O	GLU	A	141	10.396	28.976	8.731	1.00209.81			O
ANISOU	960	O	GLU	A	141	35877	21240	22602	-9190	1210	-1996	O
ATOM	961	CB	GLU	A	141	12.773	28.475	10.725	1.00229.89			C
ANISOU	961	CB	GLU	A	141	36101	25397	25848	-10329	1162	-893	C
ATOM	962	CG	GLU	A	141	13.394	29.045	11.987	1.00234.77			C
ANISOU	962	CG	GLU	A	141	36314	26624	26262	-11055	794	-584	C
ATOM	963	CD	GLU	A	141	14.877	29.309	11.836	1.00243.54			C
ANISOU	963	CD	GLU	A	141	36895	28152	27489	-11805	1100	-240	C
ATOM	964	OE1	GLU	A	141	15.440	28.944	10.783	1.00246.54			O
ANISOU	964	OE1	GLU	A	141	37120	28374	28180	-11708	1640	-221	O
ATOM	965	OE2	GLU	A	141	15.478	29.881	12.770	1.00247.30			O
ANISOU	965	OE2	GLU	A	141	37110	29117	27736	-12511	810	8	O
ATOM	966	N	ALA	A	142	10.486	26.752	9.068	1.00213.29			N
ANISOU	966	N	ALA	A	142	34610	22193	24238	-8443	1404	-1509	N
ATOM	967	CA	ALA	A	142	9.841	26.415	7.807	1.00208.23			C
ANISOU	967	CA	ALA	A	142	34598	20912	23607	-7896	1682	-1854	C
ATOM	968	C	ALA	A	142	8.336	26.640	7.909	1.00207.72			C
ANISOU	968	C	ALA	A	142	35282	20449	23193	-7388	1244	-2258	C
ATOM	969	O	ALA	A	142	7.614	26.545	6.917	1.00207.63			O
ANISOU	969	O	ALA	A	142	35956	19870	23062	-6954	1348	-2596	O
ATOM	970	CB	ALA	A	142	10.140	24.973	7.426	1.00199.22			C
ANISOU	970	CB	ALA	A	142	32574	19888	23230	-7440	2078	-1597	C
ATOM	971	N	GLY	A	143	7.870	26.939	9.119	1.00203.13			N
ANISOU	971	N	GLY	A	143	34557	20176	22447	-7456	755	-2218	N
ATOM	972	CA	GLY	A	143	6.465	27.207	9.357	1.00189.76			C
ANISOU	972	CA	GLY	A	143	33490	18175	20435	-7000	335	-2585	C
ATOM	973	C	GLY	A	143	5.654	25.939	9.530	1.00175.37			C
ANISOU	973	C	GLY	A	143	31079	16426	19129	-6310	257	-2542	C
ATOM	974	O	GLY	A	143	4.485	25.882	9.145	1.00168.20			O
ANISOU	974	O	GLY	A	143	30712	15115	18082	-5787	87	-2890	O
ATOM	975	N	TYR	A	144	6.275	24.919	10.115	1.00166.44			N
ANISOU	975	N	TYR	A	144	22303	20250	20686	-7598	-1650	2275	N
ATOM	976	CA	TYR	A	144	5.619	23.630	10.298	1.00151.87			C
ANISOU	976	CA	TYR	A	144	20168	18699	18836	-7011	-1553	1979	C
ATOM	977	C	TYR	A	144	5.849	23.061	11.696	1.00146.18			C
ANISOU	977	C	TYR	A	144	18710	18423	18408	-7110	-1730	1919	C
ATOM	978	O	TYR	A	144	6.889	22.458	11.962	1.00141.36			O

ANISOU	978	O	TYR	A	144	17405	18259	18046	-7256	-1423	2315	O
ATOM	979	CB	TYR	A	144	6.092	22.633	9.238	1.00147.52			C
ANISOU	979	CB	TYR	A	144	19477	18351	18222	-6701	-871	2275	C
ATOM	980	CG	TYR	A	144	5.744	23.032	7.821	1.00147.46			C
ANISOU	980	CG	TYR	A	144	20305	17923	17802	-6484	-690	2291	C
ATOM	981	CD1	TYR	A	144	4.432	22.982	7.370	1.00144.67			C
ANISOU	981	CD1	TYR	A	144	20583	17256	17129	-5974	-1015	1776	C
ATOM	982	CD2	TYR	A	144	6.726	23.452	6.934	1.00152.84			C
ANISOU	982	CD2	TYR	A	144	21139	18536	18398	-6780	-192	2819	C
ATOM	983	CE1	TYR	A	144	4.105	23.344	6.078	1.00148.76			C
ANISOU	983	CE1	TYR	A	144	21922	17402	17198	-5717	-933	1788	C
ATOM	984	CE2	TYR	A	144	6.409	23.817	5.637	1.00157.63			C
ANISOU	984	CE2	TYR	A	144	22626	18738	18529	-6551	-12	2865	C
ATOM	985	CZ	TYR	A	144	5.096	23.762	5.215	1.00151.78			C
ANISOU	985	CZ	TYR	A	144	22563	17688	17418	-5994	-425	2349	C
ATOM	986	OH	TYR	A	144	4.772	24.123	3.926	1.00148.50			O
ANISOU	986	OH	TYR	A	144	23080	16884	16460	-5708	-329	2391	O
ATOM	987	N	PRO	A	145	4.869	23.246	12.595	1.00144.53			N
ANISOU	987	N	PRO	A	145	18665	18102	18149	-6986	-2216	1424	N
ATOM	988	CA	PRO	A	145	3.621	23.962	12.316	1.00143.47			C
ANISOU	988	CA	PRO	A	145	19264	17476	17773	-6745	-2597	926	C
ATOM	989	C	PRO	A	145	3.755	25.455	12.585	1.00155.98			C
ANISOU	989	C	PRO	A	145	21294	18664	19308	-7196	-3032	918	C
ATOM	990	O	PRO	A	145	4.766	25.896	13.131	1.00163.28			O
ANISOU	990	O	PRO	A	145	21905	19724	20411	-7761	-3081	1236	O
ATOM	991	CB	PRO	A	145	2.653	23.349	13.323	1.00132.89			C
ANISOU	991	CB	PRO	A	145	17718	16293	16482	-6438	-2803	429	C
ATOM	992	CG	PRO	A	145	3.518	23.052	14.502	1.00132.29			C
ANISOU	992	CG	PRO	A	145	17029	16636	16601	-6774	-2812	686	C
ATOM	993	CD	PRO	A	145	4.871	22.661	13.947	1.00138.53			C
ANISOU	993	CD	PRO	A	145	17376	17713	17544	-6989	-2384	1308	C
ATOM	994	N	GLY	A	146	2.739	26.221	12.208	1.00160.23			N
ANISOU	994	N	GLY	A	146	22556	18702	19621	-6936	-3371	536	N
ATOM	995	CA	GLY	A	146	2.750	27.654	12.432	1.00167.65			C
ANISOU	995	CA	GLY	A	146	24059	19146	20492	-7288	-3787	485	C
ATOM	996	C	GLY	A	146	2.108	28.029	13.752	1.00161.38			C
ANISOU	996	C	GLY	A	146	23242	18325	19751	-7291	-4266	-6	C
ATOM	997	O	GLY	A	146	1.157	27.384	14.193	1.00167.57			O
ANISOU	997	O	GLY	A	146	23847	19292	20528	-6830	-4329	-447	O
ATOM	998	N	VAL	A	147	2.632	29.072	14.389	1.00144.62			N
ANISOU	998	N	VAL	A	147	21312	15960	17676	-7840	-4571	54	N
ATOM	999	CA	VAL	A	147	2.072	29.555	15.644	1.00132.39			C
ANISOU	999	CA	VAL	A	147	19865	14328	16109	-7859	-5026	-428	C
ATOM	1000	C	VAL	A	147	1.673	31.013	15.537	1.00135.34			C
ANISOU	1000	C	VAL	A	147	21123	13959	16343	-7947	-5437	-655	C
ATOM	1001	O	VAL	A	147	2.531	31.894	15.473	1.00143.74			O
ANISOU	1001	O	VAL	A	147	22450	14706	17457	-8568	-5522	-358	O
ATOM	1002	CB	VAL	A	147	3.070	29.432	16.803	1.00130.42			C
ANISOU	1002	CB	VAL	A	147	19041	14497	16017	-8432	-5114	-247	C
ATOM	1003	CG1	VAL	A	147	2.442	29.957	18.088	1.00130.88			C
ANISOU	1003	CG1	VAL	A	147	19244	14515	15970	-8116	-5374	-747	C
ATOM	1004	CG2	VAL	A	147	3.516	27.993	16.969	1.00134.46			C
ANISOU	1004	CG2	VAL	A	147	18720	15709	16660	-8299	-4732	16	C
ATOM	1005	N	LEU	A	148	0.370	31.266	15.517	1.00131.90			N
ANISOU	1005	N	LEU	A	148	21127	13229	15760	-7323	-5680	-1192	N
ATOM	1006	CA	LEU	A	148	-0.124	32.632	15.484	1.00144.01			C
ANISOU	1006	CA	LEU	A	148	23499	14057	17160	-7197	-6042	-1443	C
ATOM	1007	C	LEU	A	148	0.316	33.347	16.752	1.00160.46			C
ANISOU	1007	C	LEU	A	148	25465	16188	19316	-7457	-6117	-1526	C
ATOM	1008	O	LEU	A	148	0.011	32.911	17.863	1.00166.32			O
ANISOU	1008	O	LEU	A	148	25728	17372	20095	-7231	-6068	-1827	O
ATOM	1009	CB	LEU	A	148	-1.646	32.662	15.358	1.00140.95			C
ANISOU	1009	CB	LEU	A	148	23384	13503	16666	-6329	-6246	-2042	C
ATOM	1010	CG	LEU	A	148	-2.202	33.660	14.340	1.00148.35			C
ANISOU	1010	CG	LEU	A	148	25318	13655	17394	-6005	-6582	-2119	C
ATOM	1011	CD1	LEU	A	148	-3.715	33.774	14.464	1.00138.62			C
ANISOU	1011	CD1	LEU	A	148	24159	12374	16136	-5073	-6808	-2768	C
ATOM	1012	CD2	LEU	A	148	-1.536	35.025	14.482	1.00147.67			C
ANISOU	1012	CD2	LEU	A	148	25909	12941	17258	-6475	-6720	-1876	C
ATOM	1013	N	SER	A	149	1.041	34.447	16.572	1.00165.71			N

ANISOU	1013	N	SER	A	149	26624	16360	19977	-7959	-6226	-1264	N
ATOM	1014	CA	SER	A	149	1.573	35.218	17.688	1.00166.42			C
ANISOU	1014	CA	SER	A	149	26670	16437	20125	-8284	-6344	-1350	C
ATOM	1015	C	SER	A	149	0.460	35.851	18.515	1.00166.58			C
ANISOU	1015	C	SER	A	149	27065	16212	20016	-7704	-6572	-1966	C
ATOM	1016	O	SER	A	149	0.692	36.309	19.634	1.00170.21			O
ANISOU	1016	O	SER	A	149	27453	16746	20472	-7850	-6669	-2167	O
ATOM	1017	CB	SER	A	149	2.519	36.301	17.174	1.00180.28			C
ANISOU	1017	CB	SER	A	149	28926	17641	21930	-8961	-6380	-963	C
ATOM	1018	OG	SER	A	149	1.856	37.141	16.246	1.00194.18			O
ANISOU	1018	OG	SER	A	149	31683	18585	23511	-8713	-6531	-1008	O
ATOM	1019	N	SER	A	150	-0.745	35.878	17.957	1.00171.48			N
ANISOU	1019	N	SER	A	150	28074	16551	20530	-7031	-6664	-2284	N
ATOM	1020	CA	SER	A	150	-1.902	36.416	18.658	1.00176.87			C
ANISOU	1020	CA	SER	A	150	29027	17045	21131	-6406	-6824	-2889	C
ATOM	1021	C	SER	A	150	-2.861	35.301	19.073	1.00168.70			C
ANISOU	1021	C	SER	A	150	27353	16609	20137	-5839	-6641	-3282	C
ATOM	1022	O	SER	A	150	-2.803	34.188	18.547	1.00158.51			O
ANISOU	1022	O	SER	A	150	25579	15731	18916	-5820	-6450	-3105	O
ATOM	1023	CB	SER	A	150	-2.626	37.441	17.780	1.00184.29			C
ANISOU	1023	CB	SER	A	150	30904	17171	21946	-5987	-7109	-3013	C
ATOM	1024	OG	SER	A	150	-3.716	38.030	18.471	1.00157.17			O
ANISOU	1024	OG	SER	A	150	27705	13548	18464	-5369	-7257	-3597	O
ATOM	1025	N	ARG	A	151	-3.736	35.609	20.024	1.00165.64			N
ANISOU	1025	N	ARG	A	151	26987	16244	19705	-5421	-6668	-3825	N
ATOM	1026	CA	ARG	A	151	-4.749	34.665	20.478	1.00155.19			C
ANISOU	1026	CA	ARG	A	151	25115	15424	18428	-4928	-6455	-4259	C
ATOM	1027	C	ARG	A	151	-6.084	34.973	19.813	1.00156.77			C
ANISOU	1027	C	ARG	A	151	25594	15317	18654	-4183	-6604	-4681	C
ATOM	1028	O	ARG	A	151	-6.299	36.084	19.333	1.00163.15			O
ANISOU	1028	O	ARG	A	151	27114	15483	19394	-3969	-6910	-4718	O
ATOM	1029	CB	ARG	A	151	-4.899	34.736	21.999	1.00156.98			C
ANISOU	1029	CB	ARG	A	151	25179	15908	18558	-4964	-6351	-4619	C
ATOM	1030	CG	ARG	A	151	-3.634	34.390	22.764	1.00163.31			C
ANISOU	1030	CG	ARG	A	151	25674	17067	19309	-5599	-6290	-4252	C
ATOM	1031	CD	ARG	A	151	-3.833	34.507	24.267	1.00164.97			C
ANISOU	1031	CD	ARG	A	151	25868	17483	19331	-5584	-6260	-4642	C
ATOM	1032	NE	ARG	A	151	-2.685	33.981	25.000	1.00144.82			N
ANISOU	1032	NE	ARG	A	151	22965	15355	16705	-6095	-6260	-4300	N
ATOM	1033	CZ	ARG	A	151	-2.601	32.738	25.465	1.00156.77			C
ANISOU	1033	CZ	ARG	A	151	23953	17437	18173	-6112	-6057	-4210	C
ATOM	1034	NH1	ARG	A	151	-3.605	31.887	25.286	1.00149.32			N
ANISOU	1034	NH1	ARG	A	151	22760	16698	17277	-5711	-5795	-4465	N
ATOM	1035	NH2	ARG	A	151	-1.515	32.345	26.114	1.00155.08			N
ANISOU	1035	NH2	ARG	A	151	23482	17574	17867	-6540	-6140	-3873	N
ATOM	1036	N	ASP	A	152	-6.981	33.993	19.788	1.00138.63			N
ANISOU	1036	N	ASP	A	152	22744	13462	16468	-3778	-6412	-5003	N
ATOM	1037	CA	ASP	A	152	-8.302	34.192	19.197	1.00147.08			C
ANISOU	1037	CA	ASP	A	152	23916	14348	17619	-3020	-6581	-5454	C
ATOM	1038	C	ASP	A	152	-9.194	35.034	20.103	1.00151.72			C
ANISOU	1038	C	ASP	A	152	24746	14722	18180	-2605	-6647	-6014	C
ATOM	1039	O	ASP	A	152	-8.723	35.624	21.075	1.00147.63			O
ANISOU	1039	O	ASP	A	152	24482	14085	17526	-2929	-6606	-6025	O
ATOM	1040	CB	ASP	A	152	-8.974	32.851	18.880	1.00143.24			C
ANISOU	1040	CB	ASP	A	152	22692	14417	17314	-2777	-6344	-5649	C
ATOM	1041	CG	ASP	A	152	-8.966	31.889	20.058	1.00142.10			C
ANISOU	1041	CG	ASP	A	152	21939	14844	17209	-3069	-5917	-5803	C
ATOM	1042	OD1	ASP	A	152	-8.884	32.348	21.216	1.00156.84			O
ANISOU	1042	OD1	ASP	A	152	23950	16695	18947	-3221	-5842	-5976	O
ATOM	1043	OD2	ASP	A	152	-9.047	30.666	19.822	1.00130.96			O
ANISOU	1043	OD2	ASP	A	152	19970	13860	15929	-3142	-5670	-5763	O
ATOM	1044	N	LYS	A	153	-10.484	35.079	19.788	1.00152.11			N
ANISOU	1044	N	LYS	A	153	24690	14736	18369	-1865	-6764	-6504	N
ATOM	1045	CA	LYS	A	153	-11.422	35.854	20.590	1.00164.88			C
ANISOU	1045	CA	LYS	A	153	26508	16145	19993	-1373	-6815	-7082	C
ATOM	1046	C	LYS	A	153	-11.789	35.113	21.874	1.00175.33			C
ANISOU	1046	C	LYS	A	153	27277	18005	21334	-1518	-6359	-7456	C
ATOM	1047	O	LYS	A	153	-12.487	35.648	22.734	1.00188.60			O
ANISOU	1047	O	LYS	A	153	29102	19576	22979	-1191	-6295	-7957	O
ATOM	1048	CB	LYS	A	153	-12.676	36.208	19.786	1.00162.02			C

ANISOU	1048	CB	LYS	A	153	26178	15564	19817	-447	-7160	-7499	C
ATOM	1049	CG	LYS	A	153	-13.696	35.092	19.671	1.00158.66			C
ANISOU	1049	CG	LYS	A	153	24846	15739	19698	-67	-6966	-7919	C
ATOM	1050	CD	LYS	A	153	-14.956	35.593	18.983	1.00174.02			C
ANISOU	1050	CD	LYS	A	153	26769	17488	21861	918	-7400	-8415	C
ATOM	1051	CE	LYS	A	153	-16.069	34.559	19.027	1.00188.14			C
ANISOU	1051	CE	LYS	A	153	27528	19907	24048	1286	-7194	-8963	C
ATOM	1052	NZ	LYS	A	153	-17.267	34.998	18.255	1.00200.20			N
ANISOU	1052	NZ	LYS	A	153	28907	21325	25835	2277	-7714	-9470	N
ATOM	1053	N	TYR	A	154	-11.311	33.879	21.996	1.00169.74			N
ANISOU	1053	N	TYR	A	154	26005	17837	20653	-1988	-6038	-7213	N
ATOM	1054	CA	TYR	A	154	-11.515	33.093	23.207	1.00165.47			C
ANISOU	1054	CA	TYR	A	154	25060	17755	20056	-2203	-5614	-7485	C
ATOM	1055	C	TYR	A	154	-10.226	33.015	24.017	1.00164.36			C
ANISOU	1055	C	TYR	A	154	25084	17738	19629	-2932	-5518	-7081	C
ATOM	1056	O	TYR	A	154	-10.225	32.543	25.152	1.00141.78			O
ANISOU	1056	O	TYR	A	154	22096	15178	16595	-3144	-5249	-7272	O
ATOM	1057	CB	TYR	A	154	-12.000	31.685	22.861	1.00167.05			C
ANISOU	1057	CB	TYR	A	154	24498	18456	20517	-2148	-5330	-7563	C
ATOM	1058	CG	TYR	A	154	-13.307	31.651	22.104	1.00174.82			C
ANISOU	1058	CG	TYR	A	154	25113	19446	21863	-1414	-5438	-8030	C
ATOM	1059	CD1	TYR	A	154	-14.521	31.762	22.771	1.00186.67			C
ANISOU	1059	CD1	TYR	A	154	26319	21053	23554	-906	-5264	-8738	C
ATOM	1060	CD2	TYR	A	154	-13.329	31.505	20.724	1.00167.24			C
ANISOU	1060	CD2	TYR	A	154	24066	18420	21057	-1206	-5723	-7805	C
ATOM	1061	CE1	TYR	A	154	-15.718	31.730	22.083	1.00189.05			C
ANISOU	1061	CE1	TYR	A	154	26139	21435	24258	-215	-5409	-9222	C
ATOM	1062	CE2	TYR	A	154	-14.520	31.470	20.028	1.00172.28			C
ANISOU	1062	CE2	TYR	A	154	24326	19113	22022	-512	-5911	-8264	C
ATOM	1063	CZ	TYR	A	154	-15.712	31.583	20.712	1.00180.41			C
ANISOU	1063	CZ	TYR	A	154	24957	20287	23303	-21	-5775	-8978	C
ATOM	1064	OH	TYR	A	154	-16.903	31.550	20.022	1.00178.60			O
ANISOU	1064	OH	TYR	A	154	24223	20173	23462	685	-6016	-9494	O
ATOM	1065	N	GLY	A	155	-9.130	33.471	23.417	1.00141.30			N
ANISOU	1065	N	GLY	A	155	22438	14584	16667	-3281	-5765	-6535	N
ATOM	1066	CA	GLY	A	155	-7.848	33.522	24.095	1.00166.46			C
ANISOU	1066	CA	GLY	A	155	25703	17875	19671	-3904	-5773	-6138	C
ATOM	1067	C	GLY	A	155	-7.010	32.265	23.963	1.00135.73			C
ANISOU	1067	C	GLY	A	155	21267	14472	15834	-4321	-5596	-5673	C
ATOM	1068	O	GLY	A	155	-6.116	32.018	24.773	1.00135.76			O
ANISOU	1068	O	GLY	A	155	21184	14711	15686	-4740	-5575	-5423	O
ATOM	1069	N	ARG	A	156	-7.288	31.472	22.936	1.00131.71			N
ANISOU	1069	N	ARG	A	156	20412	14100	15532	-4171	-5505	-5553	N
ATOM	1070	CA	ARG	A	156	-6.571	30.218	22.737	1.00131.06			C
ANISOU	1070	CA	ARG	A	156	19838	14437	15521	-4510	-5312	-5128	C
ATOM	1071	C	ARG	A	156	-5.406	30.387	21.770	1.00126.30			C
ANISOU	1071	C	ARG	A	156	19338	13683	14966	-4848	-5471	-4487	C
ATOM	1072	O	ARG	A	156	-5.465	31.201	20.848	1.00132.64			O
ANISOU	1072	O	ARG	A	156	20549	14052	15795	-4715	-5702	-4420	O
ATOM	1073	CB	ARG	A	156	-7.520	29.133	22.226	1.00123.52			C
ANISOU	1073	CB	ARG	A	156	18435	13728	14768	-4212	-5079	-5398	C
ATOM	1074	CG	ARG	A	156	-8.810	29.015	23.021	1.00125.35			C
ANISOU	1074	CG	ARG	A	156	18567	14050	15009	-3872	-4895	-6078	C
ATOM	1075	CD	ARG	A	156	-9.607	27.799	22.595	1.00136.52			C
ANISOU	1075	CD	ARG	A	156	19412	15745	16715	-3666	-4621	-6301	C
ATOM	1076	NE	ARG	A	156	-9.813	27.753	21.150	1.00141.90			N
ANISOU	1076	NE	ARG	A	156	19998	16314	17605	-3396	-4779	-6179	N
ATOM	1077	CZ	ARG	A	156	-10.900	28.203	20.532	1.00141.35			C
ANISOU	1077	CZ	ARG	A	156	19905	16091	17712	-2818	-4930	-6572	C
ATOM	1078	NH1	ARG	A	156	-11.891	28.734	21.234	1.00135.94			N
ANISOU	1078	NH1	ARG	A	156	19216	15350	17085	-2438	-4900	-7122	N
ATOM	1079	NH2	ARG	A	156	-10.997	28.119	19.213	1.00123.16			N
ANISOU	1079	NH2	ARG	A	156	17583	13697	15517	-2584	-5139	-6443	N
ATOM	1080	N	VAL	A	157	-4.348	29.615	21.989	1.00123.86			N
ANISOU	1080	N	VAL	A	157	18700	13715	14646	-5292	-5351	-4008	N
ATOM	1081	CA	VAL	A	157	-3.208	29.615	21.087	1.00123.43			C
ANISOU	1081	CA	VAL	A	157	18648	13596	14655	-5678	-5422	-3399	C
ATOM	1082	C	VAL	A	157	-3.607	29.005	19.757	1.00129.08			C
ANISOU	1082	C	VAL	A	157	19274	14272	15498	-5462	-5340	-3338	C
ATOM	1083	O	VAL	A	157	-3.811	27.796	19.660	1.00119.26			O

ANISOU	1083	O	VAL	A	157	17588	13385	14340	-5410	-5088	-3333	O
ATOM	1084	CB	VAL	A	157	-2.049	28.790	21.646	1.00122.24			C
ANISOU	1084	CB	VAL	A	157	18056	13904	14486	-6144	-5293	-2926	C
ATOM	1085	CG1	VAL	A	157	-0.842	28.913	20.735	1.00123.07			C
ANISOU	1085	CG1	VAL	A	157	18125	13949	14688	-6589	-5345	-2327	C
ATOM	1086	CG2	VAL	A	157	-1.715	29.236	23.055	1.00125.64			C
ANISOU	1086	CG2	VAL	A	157	18568	14438	14730	-6311	-5427	-3041	C
ATOM	1087	N	VAL	A	158	-3.719	29.841	18.732	1.00149.11			N
ANISOU	1087	N	VAL	A	158	22305	16336	18014	-5346	-5577	-3297	N
ATOM	1088	CA	VAL	A	158	-4.119	29.365	17.414	1.00149.94			C
ANISOU	1088	CA	VAL	A	158	22460	16351	18158	-5095	-5594	-3276	C
ATOM	1089	C	VAL	A	158	-2.943	28.745	16.667	1.00144.17			C
ANISOU	1089	C	VAL	A	158	21601	15752	17424	-5611	-5461	-2657	C
ATOM	1090	O	VAL	A	158	-1.966	29.422	16.346	1.00122.19			O
ANISOU	1090	O	VAL	A	158	19125	12719	14581	-6067	-5552	-2222	O
ATOM	1091	CB	VAL	A	158	-4.732	30.490	16.566	1.00155.91			C
ANISOU	1091	CB	VAL	A	158	23917	16508	18815	-4709	-5960	-3463	C
ATOM	1092	CG1	VAL	A	158	-5.170	29.949	15.217	1.00152.02			C
ANISOU	1092	CG1	VAL	A	158	23516	15952	18293	-4382	-6044	-3482	C
ATOM	1093	CG2	VAL	A	158	-5.908	31.116	17.297	1.00162.71			C
ANISOU	1093	CG2	VAL	A	158	24856	17262	19704	-4180	-6070	-4078	C
ATOM	1094	N	MET	A	159	-3.046	27.448	16.401	1.00133.54			N
ANISOU	1094	N	MET	A	159	19707	14845	16188	-5446	-5083	-2588	N
ATOM	1095	CA	MET	A	159	-2.015	26.729	15.667	1.00139.23			C
ANISOU	1095	CA	MET	A	159	20158	15798	16944	-5688	-4731	-1993	C
ATOM	1096	C	MET	A	159	-2.251	26.858	14.168	1.00139.40			C
ANISOU	1096	C	MET	A	159	20573	15539	16854	-5378	-4729	-1912	C
ATOM	1097	O	MET	A	159	-3.390	26.967	13.715	1.00130.76			O
ANISOU	1097	O	MET	A	159	19708	14262	15714	-4855	-4940	-2380	O
ATOM	1098	CB	MET	A	159	-1.999	25.256	16.077	1.00142.23			C
ANISOU	1098	CB	MET	A	159	19862	16710	17468	-5612	-4302	-1954	C
ATOM	1099	CG	MET	A	159	-1.737	25.037	17.557	1.00142.22			C
ANISOU	1099	CG	MET	A	159	19542	17007	17489	-5869	-4287	-1978	C
ATOM	1100	SD	MET	A	159	-0.181	25.778	18.072	1.00153.71			S
ANISOU	1100	SD	MET	A	159	21000	18503	18899	-6555	-4491	-1432	S
ATOM	1101	CE	MET	A	159	0.974	24.890	17.030	1.00141.02			C
ANISOU	1101	CE	MET	A	159	18970	17178	17432	-6679	-4038	-751	C
ATOM	1102	N	LEU	A	160	-1.168	26.850	13.401	1.00139.41			N
ANISOU	1102	N	LEU	A	160	20645	15527	16799	-5686	-4492	-1325	N
ATOM	1103	CA	LEU	A	160	-1.266	27.001	11.957	1.00130.83			C
ANISOU	1103	CA	LEU	A	160	20045	14161	15505	-5419	-4444	-1177	C
ATOM	1104	C	LEU	A	160	-0.534	25.874	11.241	1.00132.59			C
ANISOU	1104	C	LEU	A	160	19894	14741	15744	-5456	-3897	-762	C
ATOM	1105	O	LEU	A	160	0.498	25.395	11.714	1.00122.50			O
ANISOU	1105	O	LEU	A	160	18097	13808	14640	-5857	-3569	-358	O
ATOM	1106	CB	LEU	A	160	-0.698	28.355	11.519	1.00136.04			C
ANISOU	1106	CB	LEU	A	160	21414	14284	15992	-5737	-4636	-852	C
ATOM	1107	CG	LEU	A	160	-1.311	29.618	12.128	1.00145.86			C
ANISOU	1107	CG	LEU	A	160	23195	15036	17189	-5702	-5174	-1221	C
ATOM	1108	CD1	LEU	A	160	-0.582	30.864	11.640	1.00132.54			C
ANISOU	1108	CD1	LEU	A	160	22247	12761	15353	-6119	-5264	-807	C
ATOM	1109	CD2	LEU	A	160	-2.798	29.706	11.816	1.00141.08			C
ANISOU	1109	CD2	LEU	A	160	22880	14243	16479	-4927	-5536	-1840	C
ATOM	1110	N	PHE	A	161	-1.082	25.450	10.105	1.00143.65			N
ANISOU	1110	N	PHE	A	161	21567	16061	16953	-4994	-3827	-888	N
ATOM	1111	CA	PHE	A	161	-0.424	24.470	9.248	1.00148.36			C
ANISOU	1111	CA	PHE	A	161	21982	16901	17485	-4964	-3294	-525	C
ATOM	1112	C	PHE	A	161	-0.915	24.583	7.807	1.00159.44			C
ANISOU	1112	C	PHE	A	161	24065	18014	18500	-4519	-3363	-605	C
ATOM	1113	O	PHE	A	161	-2.081	24.316	7.517	1.00158.84			O
ANISOU	1113	O	PHE	A	161	24111	17890	18349	-4017	-3680	-1157	O
ATOM	1114	CB	PHE	A	161	-0.641	23.047	9.767	1.00144.13			C
ANISOU	1114	CB	PHE	A	161	20746	16818	17200	-4820	-2998	-725	C
ATOM	1115	CG	PHE	A	161	0.275	22.032	9.143	1.00156.98			C
ANISOU	1115	CG	PHE	A	161	22110	18709	18827	-4851	-2388	-287	C
ATOM	1116	CD1	PHE	A	161	1.503	21.746	9.716	1.00159.39			C
ANISOU	1116	CD1	PHE	A	161	21893	19324	19346	-5247	-2027	229	C
ATOM	1117	CD2	PHE	A	161	-0.084	21.373	7.979	1.00166.52			C
ANISOU	1117	CD2	PHE	A	161	23597	19861	19811	-4451	-2200	-417	C
ATOM	1118	CE1	PHE	A	161	2.352	20.817	9.143	1.00161.57			C

ANISOU	1118	CE1	PHE	A	161	21897	19845	19648	-5201	-1438	622	C
ATOM	1119	CE2	PHE	A	161	0.762	20.444	7.402	1.00169.96			C
ANISOU	1119	CE2	PHE	A	161	23843	20507	20227	-4435	-1595	-41	C
ATOM	1120	CZ	PHE	A	161	1.982	20.166	7.986	1.00166.19			C
ANISOU	1120	CZ	PHE	A	161	22813	20334	19999	-4790	-1188	487	C
ATOM	1121	N	ASN	A	162	-0.016	24.979	6.910	1.00172.25			N
ANISOU	1121	N	ASN	A	162	26122	19459	19865	-4711	-3065	-59	N
ATOM	1122	CA	ASN	A	162	-0.344	25.112	5.495	1.00181.42			C
ANISOU	1122	CA	ASN	A	162	28056	20333	20541	-4296	-3087	-47	C
ATOM	1123	C	ASN	A	162	0.236	23.959	4.682	1.00183.27			C
ANISOU	1123	C	ASN	A	162	28121	20864	20651	-4195	-2461	200	C
ATOM	1124	O	ASN	A	162	1.453	23.791	4.612	1.00182.77			O
ANISOU	1124	O	ASN	A	162	27807	20968	20670	-4590	-1876	768	O
ATOM	1125	CB	ASN	A	162	0.170	26.448	4.953	1.00190.79			C
ANISOU	1125	CB	ASN	A	162	30059	21009	21424	-4540	-3142	396	C
ATOM	1126	CG	ASN	A	162	-0.510	26.856	3.660	1.00199.99			C
ANISOU	1126	CG	ASN	A	162	32223	21763	22002	-3981	-3414	291	C
ATOM	1127	OD1	ASN	A	162	-1.114	26.031	2.973	1.00207.08			O
ANISOU	1127	OD1	ASN	A	162	33174	22826	22680	-3473	-3452	-23	O
ATOM	1128	ND2	ASN	A	162	-0.414	28.137	3.321	1.00201.59			N
ANISOU	1128	ND2	ASN	A	162	33273	21397	21924	-4072	-3631	548	N
ATOM	1129	N	ILE	A	163	-0.638	23.171	4.062	1.00186.00			N
ANISOU	1129	N	ILE	A	163	28587	21273	20814	-3661	-2587	-260	N
ATOM	1130	CA	ILE	A	163	-0.208	21.993	3.317	1.00188.05			C
ANISOU	1130	CA	ILE	A	163	28737	21772	20940	-3506	-2017	-137	C
ATOM	1131	C	ILE	A	163	0.298	22.348	1.921	1.00194.79			C
ANISOU	1131	C	ILE	A	163	30444	22376	21192	-3376	-1728	259	C
ATOM	1132	O	ILE	A	163	0.954	21.537	1.265	1.00195.37			O
ANISOU	1132	O	ILE	A	163	30500	22623	21111	-3321	-1107	508	O
ATOM	1133	CB	ILE	A	163	-1.346	20.958	3.189	1.00183.12			C
ANISOU	1133	CB	ILE	A	163	27932	21282	20362	-3045	-2263	-838	C
ATOM	1134	CG1	ILE	A	163	-0.773	19.552	3.000	1.00177.28			C
ANISOU	1134	CG1	ILE	A	163	26785	20840	19734	-3034	-1594	-727	C
ATOM	1135	CG2	ILE	A	163	-2.274	21.323	2.043	1.00188.63			C
ANISOU	1135	CG2	ILE	A	163	29453	21691	20526	-2521	-2777	-1215	C
ATOM	1136	CD1	ILE	A	163	0.199	19.144	4.079	1.00171.92			C
ANISOU	1136	CD1	ILE	A	163	25310	20469	19544	-3459	-1117	-314	C
ATOM	1137	N	GLU	A	164	-0.008	23.562	1.472	1.00196.99			N
ANISOU	1137	N	GLU	A	164	31526	22218	21102	-3296	-2147	326	N
ATOM	1138	CA	GLU	A	164	0.401	24.014	0.147	1.00202.84			C
ANISOU	1138	CA	GLU	A	164	33238	22651	21181	-3157	-1887	728	C
ATOM	1139	C	GLU	A	164	1.921	24.016	0.022	1.00205.15			C
ANISOU	1139	C	GLU	A	164	33336	23061	21549	-3704	-992	1489	C
ATOM	1140	O	GLU	A	164	2.623	24.520	0.899	1.00208.28			O
ANISOU	1140	O	GLU	A	164	33229	23511	22398	-4283	-859	1812	O
ATOM	1141	CB	GLU	A	164	-0.162	25.408	-0.143	1.00215.52			C
ANISOU	1141	CB	GLU	A	164	35764	23700	22425	-3002	-2508	722	C
ATOM	1142	CG	GLU	A	164	0.175	25.944	-1.525	1.00235.05			C
ANISOU	1142	CG	GLU	A	164	39413	25779	24116	-2816	-2270	1160	C
ATOM	1143	CD	GLU	A	164	-0.465	27.292	-1.801	1.00250.80			C
ANISOU	1143	CD	GLU	A	164	42405	27159	25729	-2567	-2941	1146	C
ATOM	1144	OE1	GLU	A	164	-1.263	27.757	-0.959	1.00251.20			O
ANISOU	1144	OE1	GLU	A	164	42196	27116	26131	-2461	-3625	712	O
ATOM	1145	OE2	GLU	A	164	-0.170	27.888	-2.859	1.00261.40			O
ANISOU	1145	OE2	GLU	A	164	44835	28087	26396	-2448	-2752	1577	O
ATOM	1146	N	ASN	A	165	2.415	23.433	-1.067	1.00210.11			N
ANISOU	1146	N	ASN	A	165	34338	23753	21739	-3511	-386	1737	N
ATOM	1147	CA	ASN	A	165	3.849	23.326	-1.328	1.00221.52			C
ANISOU	1147	CA	ASN	A	165	35555	25365	23249	-3953	569	2435	C
ATOM	1148	C	ASN	A	165	4.619	22.585	-0.237	1.00214.79			C
ANISOU	1148	C	ASN	A	165	33425	25029	23156	-4337	948	2560	C
ATOM	1149	O	ASN	A	165	5.787	22.880	0.015	1.00221.30			O
ANISOU	1149	O	ASN	A	165	33806	26000	24278	-4876	1494	3120	O
ATOM	1150	CB	ASN	A	165	4.468	24.707	-1.575	1.00239.64			C
ANISOU	1150	CB	ASN	A	165	38450	27239	25362	-4428	720	3011	C
ATOM	1151	CG	ASN	A	165	3.889	25.397	-2.794	1.00257.47			C
ANISOU	1151	CG	ASN	A	165	42110	28957	26760	-4003	489	3032	C
ATOM	1152	OD1	ASN	A	165	2.835	25.012	-3.298	1.00260.08			O
ANISOU	1152	OD1	ASN	A	165	42918	29226	26675	-3335	-44	2506	O
ATOM	1153	ND2	ASN	A	165	4.578	26.426	-3.275	1.00270.23			N

ANISOU	1153	ND2	ASN	A	165	44406	30169	28100	-4398	876	3641	N
ATOM	1154	N	TRP	A	166	3.964	21.626	0.410	1.00202.86			N
ANISOU	1154	N	TRP	A	166	31325	23789	21962	-4062	650	2041	N
ATOM	1155	CA	TRP	A	166	4.637	20.803	1.408	1.00197.00			C
ANISOU	1155	CA	TRP	A	166	29476	23517	21857	-4306	989	2160	C
ATOM	1156	C	TRP	A	166	5.074	19.471	0.816	1.00194.02			C
ANISOU	1156	C	TRP	A	166	28898	23411	21410	-3966	1681	2206	C
ATOM	1157	O	TRP	A	166	4.270	18.742	0.236	1.00194.32			O
ANISOU	1157	O	TRP	A	166	29329	23362	21142	-3468	1555	1738	O
ATOM	1158	CB	TRP	A	166	3.747	20.563	2.628	1.00194.54			C
ANISOU	1158	CB	TRP	A	166	28638	23310	21969	-4271	338	1633	C
ATOM	1159	CG	TRP	A	166	4.392	19.674	3.651	1.00197.12			C
ANISOU	1159	CG	TRP	A	166	27948	24087	22861	-4448	654	1771	C
ATOM	1160	CD1	TRP	A	166	5.379	20.017	4.529	1.00204.52			C
ANISOU	1160	CD1	TRP	A	166	28214	25276	24221	-4949	792	2204	C
ATOM	1161	CD2	TRP	A	166	4.100	18.292	3.898	1.00192.72			C
ANISOU	1161	CD2	TRP	A	166	26975	23759	22491	-4107	839	1478	C
ATOM	1162	NE1	TRP	A	166	5.717	18.937	5.308	1.00201.91			N
ANISOU	1162	NE1	TRP	A	166	27089	25341	24289	-4873	1018	2221	N
ATOM	1163	CE2	TRP	A	166	4.947	17.866	4.940	1.00193.90			C
ANISOU	1163	CE2	TRP	A	166	26250	24283	23139	-4364	1087	1798	C
ATOM	1164	CE3	TRP	A	166	3.203	17.376	3.338	1.00185.85			C
ANISOU	1164	CE3	TRP	A	166	26413	22786	21414	-3625	797	963	C
ATOM	1165	CZ2	TRP	A	166	4.924	16.564	5.436	1.00184.10			C
ANISOU	1165	CZ2	TRP	A	166	24511	23270	22168	-4111	1331	1670	C
ATOM	1166	CZ3	TRP	A	166	3.183	16.084	3.832	1.00178.59			C
ANISOU	1166	CZ3	TRP	A	166	24975	22073	20810	-3455	1071	806	C
ATOM	1167	CH2	TRP	A	166	4.037	15.690	4.869	1.00178.00			C
ANISOU	1167	CH2	TRP	A	166	24104	22324	21203	-3676	1353	1183	C
ATOM	1168	N	GLN	A	167	6.357	19.161	0.969	1.00193.14			N
ANISOU	1168	N	GLN	A	167	28156	23625	21604	-4231	2400	2745	N
ATOM	1169	CA	GLN	A	167	6.909	17.916	0.457	1.00194.78			C
ANISOU	1169	CA	GLN	A	167	28131	24085	21791	-3880	3140	2838	C
ATOM	1170	C	GLN	A	167	7.361	17.022	1.603	1.00187.19			C
ANISOU	1170	C	GLN	A	167	26091	23538	21493	-3927	3264	2884	C
ATOM	1171	O	GLN	A	167	8.150	17.435	2.453	1.00181.07			O
ANISOU	1171	O	GLN	A	167	24590	23026	21181	-4370	3283	3260	O
ATOM	1172	CB	GLN	A	167	8.066	18.198	-0.499	1.00204.57			C
ANISOU	1172	CB	GLN	A	167	29575	25373	22780	-4012	4004	3445	C
ATOM	1173	CG	GLN	A	167	7.644	18.911	-1.774	1.00214.15			C
ANISOU	1173	CG	GLN	A	167	32026	26146	23197	-3857	3995	3437	C
ATOM	1174	CD	GLN	A	167	8.812	19.213	-2.690	1.00233.30			C
ANISOU	1174	CD	GLN	A	167	34678	28606	25358	-4037	4963	4076	C
ATOM	1175	OE1	GLN	A	167	9.966	18.956	-2.348	1.00242.61			O
ANISOU	1175	OE1	GLN	A	167	34974	30174	27031	-4316	5624	4519	O
ATOM	1176	NE2	GLN	A	167	8.518	19.763	-3.862	1.00241.47			N
ANISOU	1176	NE2	GLN	A	167	36896	29249	25603	-3859	5059	4131	N
ATOM	1177	N	SER	A	168	6.850	15.796	1.618	1.00187.26			N
ANISOU	1177	N	SER	A	168	26044	23579	21527	-3469	3322	2491	N
ATOM	1178	CA	SER	A	168	7.104	14.862	2.709	1.00183.11			C
ANISOU	1178	CA	SER	A	168	24659	23355	21560	-3421	3391	2495	C
ATOM	1179	C	SER	A	168	8.540	14.344	2.725	1.00184.69			C
ANISOU	1179	C	SER	A	168	24171	23941	22061	-3401	4179	3081	C
ATOM	1180	O	SER	A	168	9.064	13.986	3.780	1.00176.91			O
ANISOU	1180	O	SER	A	168	22357	23278	21582	-3495	4160	3287	O
ATOM	1181	CB	SER	A	168	6.121	13.691	2.643	1.00178.96			C
ANISOU	1181	CB	SER	A	168	24370	22657	20968	-2966	3287	1904	C
ATOM	1182	OG	SER	A	168	6.123	13.096	1.356	1.00183.74			O
ANISOU	1182	OG	SER	A	168	25601	23094	21118	-2555	3766	1784	O
ATOM	1183	N	GLN	A	169	9.172	14.304	1.556	1.00193.36			N
ANISOU	1183	N	GLN	A	169	25616	25023	22829	-3241	4872	3346	N
ATOM	1184	CA	GLN	A	169	10.538	13.801	1.457	1.00209.74			C
ANISOU	1184	CA	GLN	A	169	27003	27487	25200	-3158	5705	3879	C
ATOM	1185	C	GLN	A	169	11.531	14.738	2.142	1.00222.90			C
ANISOU	1185	C	GLN	A	169	27867	29502	27322	-3766	5675	4410	C
ATOM	1186	O	GLN	A	169	12.555	14.294	2.661	1.00231.89			O
ANISOU	1186	O	GLN	A	169	28063	31087	28959	-3756	6039	4781	O
ATOM	1187	CB	GLN	A	169	10.934	13.562	-0.005	1.00225.07			C
ANISOU	1187	CB	GLN	A	169	29573	29318	26627	-2831	6528	4005	C
ATOM	1188	CG	GLN	A	169	11.008	14.814	-0.869	1.00236.66			C

ANISOU	1188	CG	GLN	A	169	31726	30575	27619	-3190	6602	4223	C
ATOM	1189	CD	GLN	A	169	9.655	15.254	-1.395	1.00233.00			C
ANISOU	1189	CD	GLN	A	169	32379	29616	26537	-3075	5919	3701	C
ATOM	1190	OE1	GLN	A	169	8.611	14.837	-0.892	1.00222.83			O
ANISOU	1190	OE1	GLN	A	169	31173	28185	25307	-2891	5250	3158	O
ATOM	1191	NE2	GLN	A	169	9.669	16.098	-2.421	1.00237.96			N
ANISOU	1191	NE2	GLN	A	169	33868	29980	26566	-3170	6097	3870	N
ATOM	1192	N	GLU	A	170	11.221	16.031	2.146	1.00224.26			N
ANISOU	1192	N	GLU	A	170	28417	29455	27336	-4285	5207	4423	N
ATOM	1193	CA	GLU	A	170	12.059	17.013	2.824	1.00223.79			C
ANISOU	1193	CA	GLU	A	170	27682	29641	27706	-4965	5078	4843	C
ATOM	1194	C	GLU	A	170	11.769	17.030	4.321	1.00226.25			C
ANISOU	1194	C	GLU	A	170	27378	30125	28462	-5162	4297	4661	C
ATOM	1195	O	GLU	A	170	12.668	16.838	5.140	1.00233.51			O
ANISOU	1195	O	GLU	A	170	27315	31505	29901	-5339	4344	4964	O
ATOM	1196	CB	GLU	A	170	11.853	18.409	2.229	1.00212.38			C
ANISOU	1196	CB	GLU	A	170	27002	27796	25898	-5450	4917	4936	C
ATOM	1197	CG	GLU	A	170	12.394	18.575	0.819	1.00214.58			C
ANISOU	1197	CG	GLU	A	170	27844	27947	25738	-5388	5786	5268	C
ATOM	1198	CD	GLU	A	170	12.304	20.007	0.325	1.00220.15			C
ANISOU	1198	CD	GLU	A	170	29312	28222	26115	-5921	5660	5458	C
ATOM	1199	OE1	GLU	A	170	11.625	20.822	0.984	1.00213.36			O
ANISOU	1199	OE1	GLU	A	170	28685	27087	25296	-6223	4825	5228	O
ATOM	1200	OE2	GLU	A	170	12.915	20.319	-0.719	1.00231.33			O
ANISOU	1200	OE2	GLU	A	170	31137	29544	27214	-6024	6435	5846	O
ATOM	1201	N	ILE	A	171	10.508	17.260	4.672	1.00214.87			N
ANISOU	1201	N	ILE	A	171	26516	28332	26794	-5104	3576	4156	N
ATOM	1202	CA	ILE	A	171	10.093	17.266	6.069	1.00195.70			C
ANISOU	1202	CA	ILE	A	171	23651	26020	24685	-5249	2876	3930	C
ATOM	1203	C	ILE	A	171	9.192	16.073	6.363	1.00185.23			C
ANISOU	1203	C	ILE	A	171	22442	24627	23311	-4690	2763	3487	C
ATOM	1204	O	ILE	A	171	8.101	15.956	5.804	1.00178.05			O
ANISOU	1204	O	ILE	A	171	22264	23347	22040	-4423	2589	3028	O
ATOM	1205	CB	ILE	A	171	9.336	18.556	6.436	1.00182.16			C
ANISOU	1205	CB	ILE	A	171	22429	23957	22826	-5679	2135	3675	C
ATOM	1206	CG1	ILE	A	171	10.048	19.782	5.862	1.00172.42			C
ANISOU	1206	CG1	ILE	A	171	21392	22590	21529	-6230	2308	4067	C
ATOM	1207	CG2	ILE	A	171	9.197	18.675	7.943	1.00186.56			C
ANISOU	1207	CG2	ILE	A	171	22448	24711	23724	-5915	1514	3538	C
ATOM	1208	CD1	ILE	A	171	9.369	21.092	6.206	1.00157.42			C
ANISOU	1208	CD1	ILE	A	171	20052	20269	19492	-6631	1603	3842	C
ATOM	1209	N	THR	A	172	9.652	15.191	7.243	1.00184.51			N
ANISOU	1209	N	THR	A	172	21631	24884	23592	-4519	2850	3625	N
ATOM	1210	CA	THR	A	172	8.881	14.010	7.607	1.00179.69			C
ANISOU	1210	CA	THR	A	172	21121	24170	22982	-4045	2822	3262	C
ATOM	1211	C	THR	A	172	7.650	14.407	8.414	1.00169.75			C
ANISOU	1211	C	THR	A	172	20157	22680	21659	-4207	2097	2765	C
ATOM	1212	O	THR	A	172	7.615	15.479	9.018	1.00164.66			O
ANISOU	1212	O	THR	A	172	19444	22060	21060	-4652	1593	2779	O
ATOM	1213	CB	THR	A	172	9.722	13.018	8.435	1.00178.17			C
ANISOU	1213	CB	THR	A	172	20140	24372	23182	-3799	3075	3598	C
ATOM	1214	OG1	THR	A	172	9.804	13.468	9.793	1.00171.59			O
ANISOU	1214	OG1	THR	A	172	18846	23769	22581	-4133	2484	3665	O
ATOM	1215	CG2	THR	A	172	11.124	12.893	7.855	1.00180.79			C
ANISOU	1215	CG2	THR	A	172	19932	25059	23701	-3727	3720	4151	C
ATOM	1216	N	PHE	A	173	6.641	13.541	8.415	1.00163.44			N
ANISOU	1216	N	PHE	A	173	19683	21644	20773	-3860	2078	2305	N
ATOM	1217	CA	PHE	A	173	5.435	13.771	9.199	1.00159.37			C
ANISOU	1217	CA	PHE	A	173	19361	20944	20249	-3971	1500	1804	C
ATOM	1218	C	PHE	A	173	5.801	13.790	10.677	1.00165.46			C
ANISOU	1218	C	PHE	A	173	19563	22006	21296	-4174	1242	2011	C
ATOM	1219	O	PHE	A	173	5.203	14.517	11.470	1.00163.03			O
ANISOU	1219	O	PHE	A	173	19315	21653	20976	-4445	712	1769	O
ATOM	1220	CB	PHE	A	173	4.405	12.670	8.927	1.00157.29			C
ANISOU	1220	CB	PHE	A	173	19425	20408	19930	-3601	1646	1298	C
ATOM	1221	CG	PHE	A	173	2.998	13.034	9.325	1.00158.08			C
ANISOU	1221	CG	PHE	A	173	19801	20278	19984	-3705	1108	679	C
ATOM	1222	CD1	PHE	A	173	2.081	13.448	8.373	1.00159.63			C
ANISOU	1222	CD1	PHE	A	173	20545	20193	19915	-3617	856	209	C
ATOM	1223	CD2	PHE	A	173	2.590	12.953	10.646	1.00161.72			C

ANISOU	1223	CD2	PHE	A	173	19972	20823	20651	-3852	861	560	C
ATOM	1224	CE1	PHE	A	173	0.787	13.779	8.729	1.00154.71			C
ANISOU	1224	CE1	PHE	A	173	20069	19405	19309	-3664	360	-384	C
ATOM	1225	CE2	PHE	A	173	1.297	13.284	11.007	1.00163.58			C
ANISOU	1225	CE2	PHE	A	173	20399	20876	20877	-3929	448	-25	C
ATOM	1226	CZ	PHE	A	173	0.395	13.698	10.047	1.00158.02			C
ANISOU	1226	CZ	PHE	A	173	20135	19921	19985	-3830	193	-507	C
ATOM	1227	N	ASP	A	174	6.798	12.988	11.036	1.00174.06			N
ANISOU	1227	N	ASP	A	174	20130	23399	22605	-3994	1611	2456	N
ATOM	1228	CA	ASP	A	174	7.238	12.876	12.420	1.00175.82			C
ANISOU	1228	CA	ASP	A	174	19836	23936	23033	-4097	1354	2696	C
ATOM	1229	C	ASP	A	174	7.915	14.156	12.898	1.00164.67			C
ANISOU	1229	C	ASP	A	174	18099	22783	21684	-4614	904	2941	C
ATOM	1230	O	ASP	A	174	7.692	14.595	14.025	1.00159.90			O
ANISOU	1230	O	ASP	A	174	17401	22270	21082	-4856	401	2845	O
ATOM	1231	CB	ASP	A	174	8.177	11.680	12.583	1.00189.16			C
ANISOU	1231	CB	ASP	A	174	21062	25879	24932	-3675	1837	3131	C
ATOM	1232	CG	ASP	A	174	7.551	10.383	12.106	1.00187.05			C
ANISOU	1232	CG	ASP	A	174	21182	25271	24616	-3191	2315	2881	C
ATOM	1233	OD1	ASP	A	174	6.896	9.701	12.923	1.00173.51			O
ANISOU	1233	OD1	ASP	A	174	19595	23409	22923	-3066	2250	2690	O
ATOM	1234	OD2	ASP	A	174	7.711	10.048	10.913	1.00192.62			O
ANISOU	1234	OD2	ASP	A	174	22109	25832	25244	-2958	2780	2865	O
ATOM	1235	N	GLU	A	175	8.736	14.751	12.037	1.00162.98			N
ANISOU	1235	N	GLU	A	175	17755	22663	21508	-4807	1116	3242	N
ATOM	1236	CA	GLU	A	175	9.396	16.015	12.352	1.00168.68			C
ANISOU	1236	CA	GLU	A	175	18208	23557	22326	-5391	739	3457	C
ATOM	1237	C	GLU	A	175	8.382	17.098	12.699	1.00168.75			C
ANISOU	1237	C	GLU	A	175	18775	23220	22124	-5732	133	3014	C
ATOM	1238	O	GLU	A	175	8.642	17.955	13.544	1.00168.32			O
ANISOU	1238	O	GLU	A	175	18538	23275	22139	-6175	-362	3045	O
ATOM	1239	CB	GLU	A	175	10.269	16.478	11.185	1.00175.61			C
ANISOU	1239	CB	GLU	A	175	19001	24477	23248	-5570	1194	3808	C
ATOM	1240	CG	GLU	A	175	11.587	15.740	11.055	1.00181.72			C
ANISOU	1240	CG	GLU	A	175	18976	25727	24343	-5371	1726	4327	C
ATOM	1241	CD	GLU	A	175	12.382	16.188	9.846	1.00187.00			C
ANISOU	1241	CD	GLU	A	175	19594	26422	25035	-5553	2302	4651	C
ATOM	1242	OE1	GLU	A	175	11.852	16.987	9.047	1.00187.36			O
ANISOU	1242	OE1	GLU	A	175	20355	26059	24774	-5780	2300	4483	O
ATOM	1243	OE2	GLU	A	175	13.538	15.741	9.694	1.00192.40			O
ANISOU	1243	OE2	GLU	A	175	19534	27537	26034	-5443	2776	5083	O
ATOM	1244	N	ILE	A	176	7.229	17.053	12.039	1.00169.15			N
ANISOU	1244	N	ILE	A	176	19498	22854	21918	-5501	153	2574	N
ATOM	1245	CA	ILE	A	176	6.147	17.987	12.318	1.00165.13			C
ANISOU	1245	CA	ILE	A	176	19514	22004	21222	-5684	-398	2101	C
ATOM	1246	C	ILE	A	176	5.641	17.787	13.738	1.00158.45			C
ANISOU	1246	C	ILE	A	176	18497	21272	20434	-5696	-776	1856	C
ATOM	1247	O	ILE	A	176	5.466	18.744	14.492	1.00160.86			O
ANISOU	1247	O	ILE	A	176	18892	21527	20700	-6034	-1278	1710	O
ATOM	1248	CB	ILE	A	176	4.961	17.776	11.365	1.00156.26			C
ANISOU	1248	CB	ILE	A	176	19032	20487	19851	-5325	-329	1635	C
ATOM	1249	CG1	ILE	A	176	5.431	17.763	9.911	1.00153.60			C
ANISOU	1249	CG1	ILE	A	176	18970	20041	19350	-5207	120	1874	C
ATOM	1250	CG2	ILE	A	176	3.911	18.851	11.586	1.00154.25			C
ANISOU	1250	CG2	ILE	A	176	19270	19902	19438	-5460	-915	1169	C
ATOM	1251	CD1	ILE	A	176	5.923	19.095	9.424	1.00156.50			C
ANISOU	1251	CD1	ILE	A	176	19609	20250	19603	-5619	-14	2122	C
ATOM	1252	N	LEU	A	177	5.404	16.530	14.091	1.00149.12			N
ANISOU	1252	N	LEU	A	177	17137	20206	19317	-5321	-494	1812	N
ATOM	1253	CA	LEU	A	177	4.906	16.186	15.413	1.00147.37			C
ANISOU	1253	CA	LEU	A	177	16824	20075	19096	-5289	-727	1619	C
ATOM	1254	C	LEU	A	177	5.944	16.512	16.484	1.00150.07			C
ANISOU	1254	C	LEU	A	177	16693	20808	19517	-5567	-1023	2010	C
ATOM	1255	O	LEU	A	177	5.597	16.949	17.581	1.00150.17			O
ANISOU	1255	O	LEU	A	177	16780	20857	19420	-5746	-1446	1816	O
ATOM	1256	CB	LEU	A	177	4.516	14.708	15.460	1.00146.03			C
ANISOU	1256	CB	LEU	A	177	16627	19875	18982	-4846	-268	1557	C
ATOM	1257	CG	LEU	A	177	3.499	14.281	14.396	1.00138.46			C
ANISOU	1257	CG	LEU	A	177	16093	18549	17967	-4596	-11	1115	C
ATOM	1258	CD1	LEU	A	177	3.238	12.786	14.461	1.00136.84			C

ANISOU	1258	CD1	LEU	A	177	15862	18271	17862	-4234	476	1076	C
ATOM	1259	CD2	LEU	A	177	2.198	15.061	14.539	1.00132.92			C
ANISOU	1259	CD2	LEU	A	177	15763	17586	17154	-4720	-426	507	C
ATOM	1260	N	GLN	A	178	7.216	16.301	16.155	1.00153.91			N
ANISOU	1260	N	GLN	A	178	16680	21609	20190	-5591	-806	2533	N
ATOM	1261	CA	GLN	A	178	8.312	16.662	17.048	1.00162.59			C
ANISOU	1261	CA	GLN	A	178	17221	23139	21415	-5883	-1150	2901	C
ATOM	1262	C	GLN	A	178	8.258	18.151	17.347	1.00159.10			C
ANISOU	1262	C	GLN	A	178	16972	22578	20901	-6474	-1719	2715	C
ATOM	1263	O	GLN	A	178	8.403	18.573	18.495	1.00154.51			O
ANISOU	1263	O	GLN	A	178	16285	22170	20250	-6721	-2229	2663	O
ATOM	1264	CB	GLN	A	178	9.657	16.318	16.409	1.00179.00			C
ANISOU	1264	CB	GLN	A	178	18662	25569	23779	-5833	-776	3449	C
ATOM	1265	CG	GLN	A	178	9.902	14.834	16.224	1.00187.35			C
ANISOU	1265	CG	GLN	A	178	19490	26761	24933	-5203	-229	3684	C
ATOM	1266	CD	GLN	A	178	10.987	14.550	15.206	1.00192.52			C
ANISOU	1266	CD	GLN	A	178	19670	27636	25841	-5076	309	4111	C
ATOM	1267	OE1	GLN	A	178	11.645	15.466	14.713	1.00194.23			O
ANISOU	1267	OE1	GLN	A	178	19649	27961	26187	-5517	283	4280	O
ATOM	1268	NE2	GLN	A	178	11.174	13.277	14.880	1.00194.74			N
ANISOU	1268	NE2	GLN	A	178	19843	27952	26199	-4476	852	4281	N
ATOM	1269	N	ALA	A	179	8.049	18.940	16.299	1.00159.66			N
ANISOU	1269	N	ALA	A	179	17402	22314	20949	-6680	-1628	2612	N
ATOM	1270	CA	ALA	A	179	7.900	20.380	16.439	1.00157.88			C
ANISOU	1270	CA	ALA	A	179	17516	21828	20644	-7207	-2114	2416	C
ATOM	1271	C	ALA	A	179	6.594	20.693	17.154	1.00154.98			C
ANISOU	1271	C	ALA	A	179	17704	21159	20022	-7103	-2495	1844	C
ATOM	1272	O	ALA	A	179	6.525	21.629	17.947	1.00162.38			O
ANISOU	1272	O	ALA	A	179	18806	22016	20875	-7465	-3009	1654	O
ATOM	1273	CB	ALA	A	179	7.940	21.054	15.079	1.00152.40			C
ANISOU	1273	CB	ALA	A	179	17188	20784	19931	-7359	-1859	2487	C
ATOM	1274	N	TYR	A	180	5.565	19.899	16.871	1.00141.38			N
ANISOU	1274	N	TYR	A	180	16252	19270	18197	-6616	-2220	1544	N
ATOM	1275	CA	TYR	A	180	4.266	20.056	17.518	1.00130.91			C
ANISOU	1275	CA	TYR	A	180	15343	17707	16689	-6468	-2469	979	C
ATOM	1276	C	TYR	A	180	4.384	19.859	19.024	1.00138.73			C
ANISOU	1276	C	TYR	A	180	16136	18979	17596	-6543	-2729	964	C
ATOM	1277	O	TYR	A	180	3.820	20.623	19.804	1.00140.86			O
ANISOU	1277	O	TYR	A	180	16715	19108	17696	-6701	-3126	603	O
ATOM	1278	CB	TYR	A	180	3.255	19.058	16.952	1.00121.52			C
ANISOU	1278	CB	TYR	A	180	14319	16364	15491	-5979	-2070	686	C
ATOM	1279	CG	TYR	A	180	2.216	19.663	16.036	1.00127.36			C
ANISOU	1279	CG	TYR	A	180	15573	16681	16136	-5851	-2174	238	C
ATOM	1280	CD1	TYR	A	180	1.147	20.387	16.549	1.00125.79			C
ANISOU	1280	CD1	TYR	A	180	15711	16248	15834	-5841	-2549	-293	C
ATOM	1281	CD2	TYR	A	180	2.293	19.496	14.659	1.00130.59			C
ANISOU	1281	CD2	TYR	A	180	16149	16938	16532	-5683	-1906	336	C
ATOM	1282	CE1	TYR	A	180	0.190	20.937	15.715	1.00121.91			C
ANISOU	1282	CE1	TYR	A	180	15654	15397	15270	-5639	-2708	-706	C
ATOM	1283	CE2	TYR	A	180	1.340	20.043	13.816	1.00129.99			C
ANISOU	1283	CE2	TYR	A	180	16580	16494	16316	-5503	-2084	-68	C
ATOM	1284	CZ	TYR	A	180	0.291	20.762	14.349	1.00123.59			C
ANISOU	1284	CZ	TYR	A	180	16043	15471	15446	-5466	-2512	-584	C
ATOM	1285	OH	TYR	A	180	-0.661	21.307	13.515	1.00116.48			O
ANISOU	1285	OH	TYR	A	180	15609	14227	14419	-5208	-2751	-989	O
ATOM	1286	N	CYS	A	181	5.121	18.828	19.424	1.00142.89			N
ANISOU	1286	N	CYS	A	181	16197	19889	18204	-6382	-2501	1360	N
ATOM	1287	CA	CYS	A	181	5.291	18.515	20.837	1.00141.64			C
ANISOU	1287	CA	CYS	A	181	15906	20019	17891	-6376	-2740	1413	C
ATOM	1288	C	CYS	A	181	6.051	19.609	21.581	1.00147.60			C
ANISOU	1288	C	CYS	A	181	16555	20949	18576	-6873	-3363	1490	C
ATOM	1289	O	CYS	A	181	5.598	20.086	22.620	1.00153.99			O
ANISOU	1289	O	CYS	A	181	17668	21722	19120	-6992	-3741	1181	O
ATOM	1290	CB	CYS	A	181	5.996	17.168	21.009	1.00141.74			C
ANISOU	1290	CB	CYS	A	181	15476	20375	18002	-6021	-2384	1879	C
ATOM	1291	SG	CYS	A	181	5.005	15.742	20.505	1.00183.39			S
ANISOU	1291	SG	CYS	A	181	20979	25387	23315	-5471	-1680	1716	S
ATOM	1292	N	PHE	A	182	7.202	20.003	21.041	1.00151.21			N
ANISOU	1292	N	PHE	A	182	16585	21589	19277	-7185	-3440	1876	N
ATOM	1293	CA	PHE	A	182	8.028	21.035	21.660	1.00160.54			C

ANISOU	1293	CA	PHE	A	182	17587	22937	20474	-7754	-4037	1947	C
ATOM	1294	C	PHE	A	182	7.244	22.329	21.844	1.00145.65			C
ANISOU	1294	C	PHE	A	182	16366	20579	18396	-8089	-4427	1439	C
ATOM	1295	O	PHE	A	182	7.350	22.990	22.877	1.00144.77			O
ANISOU	1295	O	PHE	A	182	16396	20515	18093	-8396	-4973	1245	O
ATOM	1296	CB	PHE	A	182	9.281	21.299	20.823	1.00181.01			C
ANISOU	1296	CB	PHE	A	182	19598	25731	23446	-8094	-3924	2405	C
ATOM	1297	CG	PHE	A	182	10.253	22.246	21.470	1.00197.93			C
ANISOU	1297	CG	PHE	A	182	21407	28103	25695	-8748	-4533	2495	C
ATOM	1298	CD1	PHE	A	182	11.199	21.780	22.369	1.00208.70			C
ANISOU	1298	CD1	PHE	A	182	22110	30064	27121	-8756	-4865	2775	C
ATOM	1299	CD2	PHE	A	182	10.223	23.601	21.180	1.00195.53			C
ANISOU	1299	CD2	PHE	A	182	21516	27364	25414	-9236	-4748	2266	C
ATOM	1300	CE1	PHE	A	182	12.096	22.646	22.967	1.00211.34			C
ANISOU	1300	CE1	PHE	A	182	22191	30561	27548	-9208	-5385	2758	C
ATOM	1301	CE2	PHE	A	182	11.116	24.471	21.776	1.00200.78			C
ANISOU	1301	CE2	PHE	A	182	22012	28107	26169	-9587	-5138	2244	C
ATOM	1302	CZ	PHE	A	182	12.054	23.993	22.670	1.00208.25			C
ANISOU	1302	CZ	PHE	A	182	22282	29655	27190	-9587	-5460	2460	C
ATOM	1303	N	ILE	A	183	6.458	22.679	20.831	1.00137.05			N
ANISOU	1303	N	ILE	A	183	15718	19023	17332	-7984	-4167	1211	N
ATOM	1304	CA	ILE	A	183	5.601	23.857	20.882	1.00145.17			C
ANISOU	1304	CA	ILE	A	183	17429	19539	18190	-8156	-4491	719	C
ATOM	1305	C	ILE	A	183	4.546	23.711	21.976	1.00152.88			C
ANISOU	1305	C	ILE	A	183	18755	20470	18862	-7876	-4646	234	C
ATOM	1306	O	ILE	A	183	4.252	24.661	22.700	1.00165.52			O
ANISOU	1306	O	ILE	A	183	20764	21850	20274	-8010	-5024	-117	O
ATOM	1307	CB	ILE	A	183	4.928	24.111	19.517	1.00144.40			C
ANISOU	1307	CB	ILE	A	183	17729	18986	18150	-7955	-4186	599	C
ATOM	1308	CG1	ILE	A	183	5.952	24.640	18.511	1.00142.30			C
ANISOU	1308	CG1	ILE	A	183	17320	18648	18099	-8359	-4069	1038	C
ATOM	1309	CG2	ILE	A	183	3.783	25.095	19.649	1.00141.11			C
ANISOU	1309	CG2	ILE	A	183	18026	18050	17538	-7892	-4495	27	C
ATOM	1310	CD1	ILE	A	183	5.406	24.799	17.111	1.00140.11			C
ANISOU	1310	CD1	ILE	A	183	17487	17957	17791	-8116	-3747	1003	C
ATOM	1311	N	LEU	A	184	3.989	22.512	22.101	1.00146.48			N
ANISOU	1311	N	LEU	A	184	17812	19833	18012	-7390	-4236	213	N
ATOM	1312	CA	LEU	A	184	3.007	22.235	23.143	1.00141.95			C
ANISOU	1312	CA	LEU	A	184	17522	19250	17162	-7134	-4239	-200	C
ATOM	1313	C	LEU	A	184	3.659	22.185	24.523	1.00140.38			C
ANISOU	1313	C	LEU	A	184	17221	19416	16701	-7313	-4592	-63	C
ATOM	1314	O	LEU	A	184	3.073	22.623	25.512	1.00126.88			O
ANISOU	1314	O	LEU	A	184	15915	17624	14669	-7328	-4825	-455	O
ATOM	1315	CB	LEU	A	184	2.268	20.925	22.859	1.00135.02			C
ANISOU	1315	CB	LEU	A	184	16532	18415	16354	-6643	-3645	-236	C
ATOM	1316	CG	LEU	A	184	1.283	20.917	21.687	1.00127.91			C
ANISOU	1316	CG	LEU	A	184	15817	17156	15627	-6391	-3364	-559	C
ATOM	1317	CD1	LEU	A	184	0.651	19.543	21.531	1.00121.27			C
ANISOU	1317	CD1	LEU	A	184	14819	16379	14879	-5999	-2803	-608	C
ATOM	1318	CD2	LEU	A	184	0.216	21.983	21.865	1.00129.40			C
ANISOU	1318	CD2	LEU	A	184	16482	16985	15699	-6381	-3650	-1165	C
ATOM	1319	N	GLU	A	185	4.874	21.650	24.583	1.00149.08			N
ANISOU	1319	N	GLU	A	185	17786	20935	17921	-7410	-4641	480	N
ATOM	1320	CA	GLU	A	185	5.597	21.528	25.844	1.00161.12			C
ANISOU	1320	CA	GLU	A	185	19163	22872	19183	-7529	-5060	655	C
ATOM	1321	C	GLU	A	185	5.897	22.887	26.466	1.00161.32			C
ANISOU	1321	C	GLU	A	185	19455	22802	19037	-8064	-5754	385	C
ATOM	1322	O	GLU	A	185	5.935	23.025	27.689	1.00172.49			O
ANISOU	1322	O	GLU	A	185	21095	24391	20052	-8116	-6148	234	O
ATOM	1323	CB	GLU	A	185	6.904	20.755	25.642	1.00181.58			C
ANISOU	1323	CB	GLU	A	185	21023	25949	22019	-7491	-5026	1291	C
ATOM	1324	CG	GLU	A	185	6.737	19.247	25.497	1.00195.17			C
ANISOU	1324	CG	GLU	A	185	22560	27817	23780	-6902	-4430	1583	C
ATOM	1325	CD	GLU	A	185	6.507	18.544	26.824	1.00205.48			C
ANISOU	1325	CD	GLU	A	185	24099	29329	24645	-6600	-4499	1603	C
ATOM	1326	OE1	GLU	A	185	6.524	19.221	27.874	1.00218.10			O
ANISOU	1326	OE1	GLU	A	185	25982	31017	25869	-6831	-5038	1389	O
ATOM	1327	OE2	GLU	A	185	6.312	17.310	26.818	1.00197.78			O
ANISOU	1327	OE2	GLU	A	185	23088	28393	23666	-6131	-3997	1836	O
ATOM	1328	N	LYS	A	186	6.101	23.891	25.621	1.00171.69			N

ANISOU	1328	N	LYS	A	186	21774	23812	19647	-11686	-3556	2299	N
ATOM	1329	CA	LYS	A	186	6.534	25.200	26.095	1.00184.16			C
ANISOU	1329	CA	LYS	A	186	23558	25387	21025	-12083	-3674	2184	C
ATOM	1330	C	LYS	A	186	5.398	26.212	26.226	1.00178.74			C
ANISOU	1330	C	LYS	A	186	23692	24305	19915	-11985	-3605	1836	C
ATOM	1331	O	LYS	A	186	5.421	27.064	27.113	1.00198.15			O
ANISOU	1331	O	LYS	A	186	26397	26779	22112	-12227	-3789	1736	O
ATOM	1332	CB	LYS	A	186	7.637	25.753	25.190	1.00200.26			C
ANISOU	1332	CB	LYS	A	186	25277	27443	23370	-12422	-3452	2259	C
ATOM	1333	CG	LYS	A	186	8.898	24.905	25.181	1.00220.87			C
ANISOU	1333	CG	LYS	A	186	26967	30486	26468	-12564	-3516	2606	C
ATOM	1334	CD	LYS	A	186	9.491	24.790	26.577	1.00238.44			C
ANISOU	1334	CD	LYS	A	186	28823	33128	28644	-12789	-4014	2758	C
ATOM	1335	CE	LYS	A	186	10.711	23.881	26.592	1.00251.49			C
ANISOU	1335	CE	LYS	A	186	29501	35240	30815	-12875	-4129	3122	C
ATOM	1336	NZ	LYS	A	186	10.365	22.479	26.229	1.00251.84			N
ANISOU	1336	NZ	LYS	A	186	29278	35344	31065	-12441	-4028	3337	N
ATOM	1337	N	LEU	A	187	4.408	26.124	25.345	1.00152.56			N
ANISOU	1337	N	LEU	A	187	20785	20632	16549	-11631	-3344	1651	N
ATOM	1338	CA	LEU	A	187	3.286	27.056	25.384	1.00143.52			C
ANISOU	1338	CA	LEU	A	187	20363	19103	15067	-11483	-3270	1331	C
ATOM	1339	C	LEU	A	187	2.361	26.783	26.561	1.00150.06			C
ANISOU	1339	C	LEU	A	187	21382	19955	15680	-11262	-3433	1225	C
ATOM	1340	O	LEU	A	187	1.579	27.646	26.959	1.00148.64			O
ANISOU	1340	O	LEU	A	187	21702	19531	15242	-11212	-3412	986	O
ATOM	1341	CB	LEU	A	187	2.493	27.006	24.080	1.00142.15			C
ANISOU	1341	CB	LEU	A	187	20543	18547	14919	-11165	-2988	1170	C
ATOM	1342	CG	LEU	A	187	3.181	27.645	22.878	1.00154.74			C
ANISOU	1342	CG	LEU	A	187	22227	19974	16591	-11426	-2755	1207	C
ATOM	1343	CD1	LEU	A	187	2.286	27.570	21.663	1.00155.02			C
ANISOU	1343	CD1	LEU	A	187	22725	19607	16568	-11107	-2528	1044	C
ATOM	1344	CD2	LEU	A	187	3.542	29.082	23.190	1.00160.60			C
ANISOU	1344	CD2	LEU	A	187	23295	20605	17119	-11815	-2789	1114	C
ATOM	1345	N	LEU	A	188	2.453	25.576	27.112	1.00154.05			N
ANISOU	1345	N	LEU	A	188	21489	20737	16306	-11144	-3572	1414	N
ATOM	1346	CA	LEU	A	188	1.621	25.189	28.244	1.00149.78			C
ANISOU	1346	CA	LEU	A	188	21121	20224	15565	-10981	-3691	1344	C
ATOM	1347	C	LEU	A	188	2.190	25.694	29.563	1.00155.00			C
ANISOU	1347	C	LEU	A	188	21778	21129	15985	-11371	-3978	1439	C
ATOM	1348	O	LEU	A	188	1.640	25.426	30.631	1.00162.34			O
ANISOU	1348	O	LEU	A	188	22872	22110	16701	-11338	-4090	1415	O
ATOM	1349	CB	LEU	A	188	1.429	23.672	28.290	1.00149.21			C
ANISOU	1349	CB	LEU	A	188	20701	20305	15689	-10727	-3715	1514	C
ATOM	1350	CG	LEU	A	188	0.367	23.118	27.339	1.00152.79			C
ANISOU	1350	CG	LEU	A	188	21313	20442	16296	-10274	-3445	1308	C
ATOM	1351	CD1	LEU	A	188	0.231	21.612	27.501	1.00127.22			C
ANISOU	1351	CD1	LEU	A	188	17732	17352	13254	-10085	-3477	1481	C
ATOM	1352	CD2	LEU	A	188	-0.967	23.809	27.578	1.00126.22			C
ANISOU	1352	CD2	LEU	A	188	18493	16737	12729	-10037	-3318	936	C
ATOM	1353	N	GLU	A	189	3.298	26.421	29.484	1.00148.39			N
ANISOU	1353	N	GLU	A	189	20759	20436	15185	-11773	-4089	1536	N
ATOM	1354	CA	GLU	A	189	3.829	27.104	30.650	1.00154.05			C
ANISOU	1354	CA	GLU	A	189	21533	21335	15663	-12183	-4367	1565	C
ATOM	1355	C	GLU	A	189	2.899	28.259	30.996	1.00154.44			C
ANISOU	1355	C	GLU	A	189	22256	21031	15395	-12165	-4237	1235	C
ATOM	1356	O	GLU	A	189	2.599	28.500	32.166	1.00157.57			O
ANISOU	1356	O	GLU	A	189	22894	21467	15508	-12293	-4386	1177	O
ATOM	1357	CB	GLU	A	189	5.238	27.621	30.375	1.00167.19			C
ANISOU	1357	CB	GLU	A	189	22788	23215	17520	-12627	-4493	1708	C
ATOM	1358	CG	GLU	A	189	6.258	26.527	30.127	1.00180.57			C
ANISOU	1358	CG	GLU	A	189	23717	25298	19594	-12668	-4636	2051	C
ATOM	1359	CD	GLU	A	189	7.609	27.079	29.726	1.00206.44			C
ANISOU	1359	CD	GLU	A	189	26525	28757	23156	-13094	-4683	2150	C
ATOM	1360	OE1	GLU	A	189	7.770	28.319	29.723	1.00210.43			O
ANISOU	1360	OE1	GLU	A	189	27341	29088	23525	-13401	-4635	1953	O
ATOM	1361	OE2	GLU	A	189	8.509	26.274	29.411	1.00221.33			O
ANISOU	1361	OE2	GLU	A	189	27710	30952	25435	-13129	-4749	2423	O
ATOM	1362	N	ASN	A	190	2.439	28.962	29.965	1.00150.71			N
ANISOU	1362	N	ASN	A	190	22094	20200	14970	-12013	-3959	1030	N
ATOM	1363	CA	ASN	A	190	1.520	30.081	30.138	1.00177.30			C

ANISOU	1363	CA	ASN	A	190	26076	23193	18095	-11950	-3820	724	C
ATOM	1364	C	ASN	A	190	0.191	29.618	30.729	1.00145.53			C
ANISOU	1364	C	ASN	A	190	22296	19031	13966	-11557	-3736	559	C
ATOM	1365	O	ASN	A	190	-0.527	28.841	30.111	1.00140.39			O
ANISOU	1365	O	ASN	A	190	21580	18272	13488	-11142	-3580	513	O
ATOM	1366	CB	ASN	A	190	1.292	30.790	28.799	1.00148.46			C
ANISOU	1366	CB	ASN	A	190	22697	19183	14530	-11840	-3567	583	C
ATOM	1367	CG	ASN	A	190	0.583	32.124	28.953	1.00159.51			C
ANISOU	1367	CG	ASN	A	190	24707	20201	15698	-11864	-3467	305	C
ATOM	1368	OD1	ASN	A	190	-0.630	32.176	29.154	1.00146.01			O
ANISOU	1368	OD1	ASN	A	190	23302	18251	13926	-11503	-3362	94	O
ATOM	1369	ND2	ASN	A	190	1.339	33.213	28.848	1.00154.81			N
ANISOU	1369	ND2	ASN	A	190	24272	19537	15014	-12299	-3492	295	N
ATOM	1370	N	GLU	A	191	-0.122	30.099	31.928	1.00179.59			N
ANISOU	1370	N	GLU	A	191	26883	23344	18010	-11720	-3829	454	N
ATOM	1371	CA	GLU	A	191	-1.329	29.690	32.645	1.00175.52			C
ANISOU	1371	CA	GLU	A	191	26581	22717	17393	-11430	-3730	288	C
ATOM	1372	C	GLU	A	191	-2.610	29.948	31.856	1.00157.45			C
ANISOU	1372	C	GLU	A	191	24554	20020	15250	-10954	-3439	-13	C
ATOM	1373	O	GLU	A	191	-3.564	29.173	31.937	1.00149.52			O
ANISOU	1373	O	GLU	A	191	23509	18952	14351	-10598	-3318	-121	O
ATOM	1374	CB	GLU	A	191	-1.415	30.397	34.000	1.00194.35			C
ANISOU	1374	CB	GLU	A	191	29295	25117	19434	-11750	-3846	190	C
ATOM	1375	CG	GLU	A	191	-0.375	29.948	35.013	1.00214.67			C
ANISOU	1375	CG	GLU	A	191	31631	28105	21829	-12183	-4190	471	C
ATOM	1376	CD	GLU	A	191	-0.478	30.706	36.322	1.00235.92			C
ANISOU	1376	CD	GLU	A	191	34715	30779	24144	-12529	-4310	347	C
ATOM	1377	OE1	GLU	A	191	-0.783	31.917	36.285	1.00243.40			O
ANISOU	1377	OE1	GLU	A	191	36043	31440	24999	-12602	-4188	95	O
ATOM	1378	OE2	GLU	A	191	-0.261	30.091	37.387	1.00245.41			O
ANISOU	1378	OE2	GLU	A	191	35878	32240	25126	-12741	-4533	504	O
ATOM	1379	N	GLU	A	192	-2.629	31.037	31.094	1.00149.93			N
ANISOU	1379	N	GLU	A	192	23868	18786	14313	-10968	-3344	-151	N
ATOM	1380	CA	GLU	A	192	-3.819	31.418	30.342	1.00147.92			C
ANISOU	1380	CA	GLU	A	192	23884	18127	14192	-10535	-3131	-436	C
ATOM	1381	C	GLU	A	192	-4.048	30.483	29.154	1.00155.25			C
ANISOU	1381	C	GLU	A	192	24559	19025	15404	-10166	-3040	-388	C
ATOM	1382	O	GLU	A	192	-5.171	30.342	28.670	1.00164.37			O
ANISOU	1382	O	GLU	A	192	25805	19920	16726	-9730	-2909	-621	O
ATOM	1383	CB	GLU	A	192	-3.719	32.875	29.884	1.00149.69			C
ANISOU	1383	CB	GLU	A	192	24531	18039	14307	-10701	-3088	-565	C
ATOM	1384	CG	GLU	A	192	-5.052	33.509	29.522	1.00153.16			C
ANISOU	1384	CG	GLU	A	192	25330	18042	14824	-10298	-2935	-900	C
ATOM	1385	CD	GLU	A	192	-4.954	35.014	29.346	1.00167.85			C
ANISOU	1385	CD	GLU	A	192	27679	19579	16516	-10519	-2917	-1022	C
ATOM	1386	OE1	GLU	A	192	-3.859	35.576	29.569	1.00167.78			O
ANISOU	1386	OE1	GLU	A	192	27733	19692	16325	-11016	-3006	-866	O
ATOM	1387	OE2	GLU	A	192	-5.977	35.635	28.987	1.00175.52			O
ANISOU	1387	OE2	GLU	A	192	28966	20167	17556	-10201	-2825	-1288	O
ATOM	1388	N	THR	A	193	-2.976	29.847	28.691	1.00150.37			N
ANISOU	1388	N	THR	A	193	23601	18672	14862	-10352	-3123	-102	N
ATOM	1389	CA	THR	A	193	-3.069	28.835	27.642	1.00137.25			C
ANISOU	1389	CA	THR	A	193	21680	17016	13455	-10058	-3044	-32	C
ATOM	1390	C	THR	A	193	-3.747	27.582	28.189	1.00133.69			C
ANISOU	1390	C	THR	A	193	20977	16692	13128	-9770	-3032	-53	C
ATOM	1391	O	THR	A	193	-4.571	26.958	27.517	1.00121.75			O
ANISOU	1391	O	THR	A	193	19416	15015	11829	-9371	-2912	-198	O
ATOM	1392	CB	THR	A	193	-1.674	28.471	27.089	1.00134.06			C
ANISOU	1392	CB	THR	A	193	20929	16879	13127	-10374	-3123	281	C
ATOM	1393	OG1	THR	A	193	-1.162	29.564	26.318	1.00134.28			O
ANISOU	1393	OG1	THR	A	193	21219	16723	13079	-10617	-3065	267	O
ATOM	1394	CG2	THR	A	193	-1.746	27.237	26.209	1.00128.64			C
ANISOU	1394	CG2	THR	A	193	19935	16239	12703	-10095	-3045	369	C
ATOM	1395	N	GLN	A	194	-3.401	27.228	29.423	1.00127.92			N
ANISOU	1395	N	GLN	A	194	20118	16241	12247	-10006	-3169	85	N
ATOM	1396	CA	GLN	A	194	-3.962	26.056	30.080	1.00125.71			C
ANISOU	1396	CA	GLN	A	194	19661	16085	12019	-9833	-3160	98	C
ATOM	1397	C	GLN	A	194	-5.454	26.222	30.332	1.00135.69			C
ANISOU	1397	C	GLN	A	194	21175	17056	13326	-9489	-2975	-272	C
ATOM	1398	O	GLN	A	194	-6.206	25.247	30.319	1.00132.35			O

ANISOU	1398	O	GLN	A	194	20606	16604	13077	-9210	-2876	-366	O
ATOM	1399	CB	GLN	A	194	-3.241	25.791	31.401	1.00129.71			C
ANISOU	1399	CB	GLN	A	194	20078	16933	12271	-10231	-3383	342	C
ATOM	1400	CG	GLN	A	194	-1.748	25.562	31.257	1.00136.68			C
ANISOU	1400	CG	GLN	A	194	20602	18150	13179	-10572	-3618	706	C
ATOM	1401	CD	GLN	A	194	-1.051	25.400	32.594	1.00143.10			C
ANISOU	1401	CD	GLN	A	194	21343	19297	13731	-10978	-3911	939	C
ATOM	1402	OE1	GLN	A	194	-1.691	25.151	33.615	1.00141.59			O
ANISOU	1402	OE1	GLN	A	194	21367	19109	13321	-10999	-3923	878	O
ATOM	1403	NE2	GLN	A	194	0.269	25.548	32.594	1.00149.37			N
ANISOU	1403	NE2	GLN	A	194	21831	20373	14548	-11329	-4157	1203	N
ATOM	1404	N	ILE	A	195	-5.878	27.462	30.558	1.00130.62			N
ANISOU	1404	N	ILE	A	195	20884	16189	12555	-9522	-2929	-496	N
ATOM	1405	CA	ILE	A	195	-7.276	27.745	30.868	1.00128.41			C
ANISOU	1405	CA	ILE	A	195	20804	15639	12349	-9218	-2770	-871	C
ATOM	1406	C	ILE	A	195	-8.112	27.991	29.606	1.00125.04			C
ANISOU	1406	C	ILE	A	195	20405	14878	12226	-8768	-2663	-1132	C
ATOM	1407	O	ILE	A	195	-9.300	27.668	29.561	1.00118.12			O
ANISOU	1407	O	ILE	A	195	19474	13831	11575	-8402	-2554	-1430	O
ATOM	1408	CB	ILE	A	195	-7.399	28.925	31.859	1.00138.27			C
ANISOU	1408	CB	ILE	A	195	22422	16800	13314	-9476	-2784	-1006	C
ATOM	1409	CG1	ILE	A	195	-6.600	28.621	33.129	1.00146.36			C
ANISOU	1409	CG1	ILE	A	195	23444	18159	14006	-9936	-2934	-754	C
ATOM	1410	CG2	ILE	A	195	-8.855	29.203	32.202	1.00126.58			C
ANISOU	1410	CG2	ILE	A	195	21105	15046	11944	-9166	-2612	-1417	C
ATOM	1411	CD1	ILE	A	195	-6.631	29.726	34.159	1.00153.19			C
ANISOU	1411	CD1	ILE	A	195	24698	18953	14553	-10248	-2963	-880	C
ATOM	1412	N	ASN	A	196	-7.485	28.540	28.572	1.00128.55			N
ANISOU	1412	N	ASN	A	196	20939	15230	12675	-8820	-2710	-1026	N
ATOM	1413	CA	ASN	A	196	-8.191	28.790	27.318	1.00133.51			C
ANISOU	1413	CA	ASN	A	196	21665	15537	13526	-8436	-2655	-1240	C
ATOM	1414	C	ASN	A	196	-8.104	27.631	26.327	1.00140.28			C
ANISOU	1414	C	ASN	A	196	22235	16454	14612	-8217	-2639	-1149	C
ATOM	1415	O	ASN	A	196	-9.102	27.263	25.709	1.00142.57			O
ANISOU	1415	O	ASN	A	196	22463	16548	15160	-7796	-2596	-1409	O
ATOM	1416	CB	ASN	A	196	-7.706	30.087	26.671	1.00132.74			C
ANISOU	1416	CB	ASN	A	196	21950	15226	13260	-8620	-2692	-1207	C
ATOM	1417	CG	ASN	A	196	-8.170	31.318	27.423	1.00136.13			C
ANISOU	1417	CG	ASN	A	196	22727	15458	13539	-8703	-2687	-1418	C
ATOM	1418	OD1	ASN	A	196	-9.248	31.326	28.018	1.00130.20			O
ANISOU	1418	OD1	ASN	A	196	21969	14600	12903	-8447	-2636	-1710	O
ATOM	1419	ND2	ASN	A	196	-7.358	32.368	27.399	1.00145.54			N
ANISOU	1419	ND2	ASN	A	196	24226	16589	14484	-9084	-2729	-1292	N
ATOM	1420	N	GLY	A	197	-6.912	27.062	26.174	1.00115.81			N
ANISOU	1420	N	GLY	A	197	18942	13625	11436	-8510	-2689	-802	N
ATOM	1421	CA	GLY	A	197	-6.727	25.913	25.306	1.00116.80			C
ANISOU	1421	CA	GLY	A	197	18795	13818	11766	-8355	-2664	-698	C
ATOM	1422	C	GLY	A	197	-6.035	26.217	23.991	1.00113.88			C
ANISOU	1422	C	GLY	A	197	18561	13342	11365	-8454	-2662	-570	C
ATOM	1423	O	GLY	A	197	-5.272	27.173	23.887	1.00170.97			O
ANISOU	1423	O	GLY	A	197	26008	20563	18390	-8785	-2691	-442	O
ATOM	1424	N	PHE	A	198	-6.302	25.396	22.982	1.00111.37			N
ANISOU	1424	N	PHE	A	198	18146	12929	11241	-8201	-2615	-617	N
ATOM	1425	CA	PHE	A	198	-5.655	25.541	21.685	1.00112.25			C
ANISOU	1425	CA	PHE	A	198	18430	12925	11295	-8321	-2585	-493	C
ATOM	1426	C	PHE	A	198	-6.659	25.569	20.541	1.00110.37			C
ANISOU	1426	C	PHE	A	198	18479	12311	11145	-7906	-2573	-776	C
ATOM	1427	O	PHE	A	198	-7.870	25.495	20.755	1.00108.48			O
ANISOU	1427	O	PHE	A	198	18217	11926	11073	-7499	-2604	-1091	O
ATOM	1428	CB	PHE	A	198	-4.658	24.406	21.454	1.00116.59			C
ANISOU	1428	CB	PHE	A	198	18578	13759	11962	-8522	-2554	-200	C
ATOM	1429	CG	PHE	A	198	-3.390	24.540	22.242	1.00117.80			C
ANISOU	1429	CG	PHE	A	198	18457	14273	12029	-8976	-2616	121	C
ATOM	1430	CD1	PHE	A	198	-2.258	25.088	21.666	1.00128.34			C
ANISOU	1430	CD1	PHE	A	198	19821	15662	13280	-9360	-2579	329	C
ATOM	1431	CD2	PHE	A	198	-3.327	24.114	23.556	1.00120.42			C
ANISOU	1431	CD2	PHE	A	198	18506	14882	12368	-9033	-2716	207	C
ATOM	1432	CE1	PHE	A	198	-1.088	25.212	22.387	1.00122.78			C
ANISOU	1432	CE1	PHE	A	198	18779	15306	12566	-9760	-2666	594	C
ATOM	1433	CE2	PHE	A	198	-2.159	24.234	24.283	1.00124.72			C

ANISOU	1433	CE2	PHE	A	198	18792	15763	12832	-9437	-2838	493	C
ATOM	1434	CZ	PHE	A	198	-1.037	24.783	23.696	1.00123.06			C
ANISOU	1434	CZ	PHE	A	198	18528	15626	12603	-9786	-2825	677	C
ATOM	1435	N	CYS	A	199	-6.134	25.662	19.324	1.00111.46			N
ANISOU	1435	N	CYS	A	199	18879	12297	11174	-8022	-2535	-674	N
ATOM	1436	CA	CYS	A	199	-6.947	25.719	18.119	1.00110.60			C
ANISOU	1436	CA	CYS	A	199	19143	11812	11068	-7656	-2567	-913	C
ATOM	1437	C	CYS	A	199	-6.030	25.595	16.909	1.00112.43			C
ANISOU	1437	C	CYS	A	199	19656	11940	11123	-7931	-2472	-708	C
ATOM	1438	O	CYS	A	199	-5.066	26.344	16.783	1.00115.65			O
ANISOU	1438	O	CYS	A	199	20276	12359	11307	-8374	-2390	-482	O
ATOM	1439	CB	CYS	A	199	-7.711	27.042	18.057	1.00130.33			C
ANISOU	1439	CB	CYS	A	199	22101	13988	13429	-7472	-2656	-1129	C
ATOM	1440	SG	CYS	A	199	-8.982	27.115	16.782	1.00164.42			S
ANISOU	1440	SG	CYS	A	199	26802	17870	17801	-6868	-2797	-1491	S
ATOM	1441	N	ILE	A	200	-6.325	24.650	16.022	1.00113.62			N
ANISOU	1441	N	ILE	A	200	19816	11974	11379	-7691	-2459	-807	N
ATOM	1442	CA	ILE	A	200	-5.472	24.418	14.858	1.00128.41			C
ANISOU	1442	CA	ILE	A	200	21991	13715	13086	-7966	-2313	-631	C
ATOM	1443	C	ILE	A	200	-6.156	24.812	13.547	1.00127.40			C
ANISOU	1443	C	ILE	A	200	22593	13096	12718	-7637	-2384	-856	C
ATOM	1444	O	ILE	A	200	-7.345	24.559	13.354	1.00111.90			O
ANISOU	1444	O	ILE	A	200	20643	10988	10886	-7075	-2567	-1181	O
ATOM	1445	CB	ILE	A	200	-4.996	22.948	14.788	1.00129.41			C
ANISOU	1445	CB	ILE	A	200	21621	14071	13478	-8041	-2196	-509	C
ATOM	1446	CG1	ILE	A	200	-4.501	22.483	16.159	1.00125.14			C
ANISOU	1446	CG1	ILE	A	200	20367	14002	13178	-8225	-2198	-300	C
ATOM	1447	CG2	ILE	A	200	-3.902	22.778	13.741	1.00114.39			C
ANISOU	1447	CG2	ILE	A	200	19944	12063	11458	-8439	-1937	-262	C
ATOM	1448	CD1	ILE	A	200	-3.967	21.061	16.171	1.00124.39			C
ANISOU	1448	CD1	ILE	A	200	19753	14134	13376	-8302	-2083	-117	C
ATOM	1449	N	ILE	A	201	-5.397	25.447	12.657	1.00124.82			N
ANISOU	1449	N	ILE	A	201	22861	12515	12048	-7977	-2231	-685	N
ATOM	1450	CA	ILE	A	201	-5.898	25.839	11.346	1.00128.67			C
ANISOU	1450	CA	ILE	A	201	24189	12494	12205	-7677	-2288	-846	C
ATOM	1451	C	ILE	A	201	-5.180	25.060	10.253	1.00124.03			C
ANISOU	1451	C	ILE	A	201	23898	11742	11485	-7877	-2030	-743	C
ATOM	1452	O	ILE	A	201	-3.971	25.206	10.066	1.00123.77			O
ANISOU	1452	O	ILE	A	201	23910	11738	11378	-8466	-1677	-424	O
ATOM	1453	CB	ILE	A	201	-5.688	27.340	11.080	1.00147.38			C
ANISOU	1453	CB	ILE	A	201	27266	14546	14186	-7881	-2261	-746	C
ATOM	1454	CG1	ILE	A	201	-6.196	28.175	12.255	1.00152.86			C
ANISOU	1454	CG1	ILE	A	201	27672	15390	15017	-7804	-2434	-815	C
ATOM	1455	CG2	ILE	A	201	-6.381	27.751	9.788	1.00151.38			C
ANISOU	1455	CG2	ILE	A	201	28680	14507	14329	-7428	-2390	-914	C
ATOM	1456	CD1	ILE	A	201	-7.688	28.087	12.460	1.00163.29			C
ANISOU	1456	CD1	ILE	A	201	28830	16638	16574	-7097	-2730	-1172	C
ATOM	1457	N	GLU	A	202	-5.928	24.234	9.530	1.00121.45			N
ANISOU	1457	N	GLU	A	202	23722	11246	11176	-7362	-2159	-1015	N
ATOM	1458	CA	GLU	A	202	-5.358	23.429	8.458	1.00131.39			C
ANISOU	1458	CA	GLU	A	202	25353	12280	12289	-7474	-1891	-982	C
ATOM	1459	C	GLU	A	202	-5.731	23.972	7.086	1.00136.95			C
ANISOU	1459	C	GLU	A	202	27138	12444	12454	-7108	-1933	-1132	C
ATOM	1460	O	GLU	A	202	-6.863	23.813	6.631	1.00123.75			O
ANISOU	1460	O	GLU	A	202	25612	10668	10738	-6385	-2277	-1442	O
ATOM	1461	CB	GLU	A	202	-5.817	21.980	8.584	1.00130.11			C
ANISOU	1461	CB	GLU	A	202	24632	12314	12490	-7151	-1971	-1193	C
ATOM	1462	CG	GLU	A	202	-5.353	21.290	9.851	1.00125.61			C
ANISOU	1462	CG	GLU	A	202	23071	12242	12411	-7497	-1887	-988	C
ATOM	1463	CD	GLU	A	202	-3.877	20.948	9.819	1.00136.78			C
ANISOU	1463	CD	GLU	A	202	24047	13952	13970	-7896	-1361	-470	C
ATOM	1464	OE1	GLU	A	202	-3.249	21.100	8.750	1.00158.11			O
ANISOU	1464	OE1	GLU	A	202	27151	16493	16428	-7837	-971	-288	O
ATOM	1465	OE2	GLU	A	202	-3.344	20.522	10.865	1.00123.95			O
ANISOU	1465	OE2	GLU	A	202	21645	12743	12708	-8221	-1321	-234	O
ATOM	1466	N	ASN	A	203	-4.766	24.609	6.432	1.00142.83			N
ANISOU	1466	N	ASN	A	203	28419	12985	12864	-7453	-1503	-802	N
ATOM	1467	CA	ASN	A	203	-4.985	25.193	5.116	1.00150.67			C
ANISOU	1467	CA	ASN	A	203	30524	13462	13263	-7113	-1464	-856	C
ATOM	1468	C	ASN	A	203	-4.732	24.188	4.000	1.00154.26			C

ANISOU	1468	C	ASN	A	203	31105	13921	13585	-6706	-1115	-819	C
ATOM	1469	O	ASN	A	203	-3.607	24.046	3.521	1.00149.35			O
ANISOU	1469	O	ASN	A	203	30453	13387	12905	-6963	-461	-438	O
ATOM	1470	CB	ASN	A	203	-4.096	26.423	4.929	1.00161.80			C
ANISOU	1470	CB	ASN	A	203	32486	14634	14356	-7650	-1086	-491	C
ATOM	1471	CG	ASN	A	203	-4.440	27.204	3.678	1.00169.04			C
ANISOU	1471	CG	ASN	A	203	34702	14935	14589	-7303	-1110	-542	C
ATOM	1472	OD1	ASN	A	203	-5.549	27.104	3.156	1.00170.67			O
ANISOU	1472	OD1	ASN	A	203	35433	14864	14549	-6661	-1619	-920	O
ATOM	1473	ND2	ASN	A	203	-3.487	27.992	3.192	1.00175.08			N
ANISOU	1473	ND2	ASN	A	203	36003	15476	15043	-7732	-565	-163	N
ATOM	1474	N	PHE	A	204	-5.787	23.493	3.587	1.00161.45			N
ANISOU	1474	N	PHE	A	204	32148	14731	14465	-6080	-1539	-1244	N
ATOM	1475	CA	PHE	A	204	-5.670	22.462	2.562	1.00166.86			C
ANISOU	1475	CA	PHE	A	204	32973	15403	15023	-5663	-1270	-1291	C
ATOM	1476	C	PHE	A	204	-5.990	22.981	1.163	1.00179.51			C
ANISOU	1476	C	PHE	A	204	35834	16486	15887	-5242	-1334	-1397	C
ATOM	1477	O	PHE	A	204	-6.668	22.313	0.384	1.00191.84			O
ANISOU	1477	O	PHE	A	204	37728	17907	17256	-4681	-1585	-1729	O
ATOM	1478	CB	PHE	A	204	-6.553	21.258	2.903	1.00159.85			C
ANISOU	1478	CB	PHE	A	204	31458	14722	14557	-5270	-1653	-1700	C
ATOM	1479	CG	PHE	A	204	-5.967	20.352	3.950	1.00144.52			C
ANISOU	1479	CG	PHE	A	204	28358	13286	13268	-5597	-1371	-1497	C
ATOM	1480	CD1	PHE	A	204	-6.692	19.283	4.447	1.00139.81			C
ANISOU	1480	CD1	PHE	A	204	27136	12875	13112	-5346	-1647	-1812	C
ATOM	1481	CD2	PHE	A	204	-4.688	20.567	4.434	1.00143.49			C
ANISOU	1481	CD2	PHE	A	204	27771	13433	13316	-6155	-839	-988	C
ATOM	1482	CE1	PHE	A	204	-6.149	18.447	5.406	1.00149.43			C
ANISOU	1482	CE1	PHE	A	204	27373	14518	14886	-5616	-1394	-1590	C
ATOM	1483	CE2	PHE	A	204	-4.142	19.734	5.393	1.00147.50			C
ANISOU	1483	CE2	PHE	A	204	27238	14405	14400	-6406	-645	-783	C
ATOM	1484	CZ	PHE	A	204	-4.874	18.674	5.880	1.00153.39			C
ANISOU	1484	CZ	PHE	A	204	27447	15303	15530	-6121	-922	-1068	C
ATOM	1485	N	LYS	A	205	-5.495	24.174	0.848	1.00176.70			N
ANISOU	1485	N	LYS	A	205	36211	15828	15098	-5528	-1112	-1113	N
ATOM	1486	CA	LYS	A	205	-5.676	24.742	-0.482	1.00181.25			C
ANISOU	1486	CA	LYS	A	205	38094	15875	14898	-5169	-1104	-1128	C
ATOM	1487	C	LYS	A	205	-4.857	23.970	-1.510	1.00183.30			C
ANISOU	1487	C	LYS	A	205	38573	16160	14914	-5075	-402	-923	C
ATOM	1488	O	LYS	A	205	-5.369	23.584	-2.561	1.00188.07			O
ANISOU	1488	O	LYS	A	205	39902	16505	15050	-4517	-568	-1164	O
ATOM	1489	CB	LYS	A	205	-5.288	26.223	-0.498	1.00190.28			C
ANISOU	1489	CB	LYS	A	205	39985	16651	15661	-5559	-962	-837	C
ATOM	1490	CG	LYS	A	205	-5.406	26.885	-1.866	1.00211.75			C
ANISOU	1490	CG	LYS	A	205	44170	18772	17512	-5213	-904	-783	C
ATOM	1491	CD	LYS	A	205	-6.814	26.757	-2.431	1.00226.16			C
ANISOU	1491	CD	LYS	A	205	46277	20435	19219	-4319	-1716	-1126	C
ATOM	1492	CE	LYS	A	205	-6.918	27.385	-3.814	1.00245.57			C
ANISOU	1492	CE	LYS	A	205	50046	22335	20926	-3905	-1677	-956	C
ATOM	1493	NZ	LYS	A	205	-8.279	27.228	-4.399	1.00254.18			N
ANISOU	1493	NZ	LYS	A	205	51046	23384	22146	-2985	-2463	-1160	N
ATOM	1494	N	GLY	A	206	-3.586	23.741	-1.196	1.00180.53			N
ANISOU	1494	N	GLY	A	206	37578	16126	14890	-5614	372	-497	N
ATOM	1495	CA	GLY	A	206	-2.693	23.028	-2.091	1.00179.09			C
ANISOU	1495	CA	GLY	A	206	37502	15989	14555	-5570	1156	-278	C
ATOM	1496	C	GLY	A	206	-2.560	21.556	-1.751	1.00167.39			C
ANISOU	1496	C	GLY	A	206	34983	14954	13663	-5409	1289	-382	C
ATOM	1497	O	GLY	A	206	-1.490	20.967	-1.910	1.00166.11			O
ANISOU	1497	O	GLY	A	206	34360	15026	13729	-5609	2050	-82	O
ATOM	1498	N	PHE	A	207	-3.652	20.959	-1.284	1.00155.52			N
ANISOU	1498	N	PHE	A	207	33112	13549	12432	-5041	572	-813	N
ATOM	1499	CA	PHE	A	207	-3.662	19.548	-0.915	1.00151.13			C
ANISOU	1499	CA	PHE	A	207	31630	13353	12440	-4869	640	-945	C
ATOM	1500	C	PHE	A	207	-3.889	18.655	-2.132	1.00164.02			C
ANISOU	1500	C	PHE	A	207	33835	14775	13710	-4317	792	-1193	C
ATOM	1501	O	PHE	A	207	-5.024	18.304	-2.452	1.00147.45			O
ANISOU	1501	O	PHE	A	207	32069	12498	11457	-3836	157	-1677	O
ATOM	1502	CB	PHE	A	207	-4.732	19.284	0.146	1.00139.36			C
ANISOU	1502	CB	PHE	A	207	29494	12036	11419	-4772	-127	-1307	C
ATOM	1503	CG	PHE	A	207	-4.820	17.850	0.572	1.00139.65			C

ANISOU	1503	CG	PHE	A	207	28642	12386	12033	-4608	-75	-1446	C
ATOM	1504	CD1	PHE	A	207	-3.696	17.180	1.026	1.00139.14			C
ANISOU	1504	CD1	PHE	A	207	27745	12687	12434	-4901	558	-1051	C
ATOM	1505	CD2	PHE	A	207	-6.027	17.173	0.531	1.00140.21			C
ANISOU	1505	CD2	PHE	A	207	28696	12369	12208	-4162	-663	-1975	C
ATOM	1506	CE1	PHE	A	207	-3.773	15.857	1.423	1.00135.23			C
ANISOU	1506	CE1	PHE	A	207	26495	12428	12460	-4723	614	-1153	C
ATOM	1507	CE2	PHE	A	207	-6.111	15.852	0.928	1.00137.82			C
ANISOU	1507	CE2	PHE	A	207	27626	12300	12439	-4042	-575	-2098	C
ATOM	1508	CZ	PHE	A	207	-4.982	15.193	1.376	1.00132.80			C
ANISOU	1508	CZ	PHE	A	207	26240	11990	12227	-4310	68	-1672	C
ATOM	1509	N	THR	A	208	-2.801	18.290	-2.803	1.00170.19			N
ANISOU	1509	N	THR	A	208	34714	15579	14372	-4400	1644	-881	N
ATOM	1510	CA	THR	A	208	-2.875	17.475	-4.012	1.00169.81			C
ANISOU	1510	CA	THR	A	208	35297	15307	13916	-3914	1909	-1091	C
ATOM	1511	C	THR	A	208	-3.158	16.012	-3.686	1.00169.62			C
ANISOU	1511	C	THR	A	208	34470	15525	14455	-3639	1833	-1356	C
ATOM	1512	O	THR	A	208	-2.894	15.555	-2.575	1.00165.09			O
ANISOU	1512	O	THR	A	208	32782	15336	14610	-3892	1859	-1215	O
ATOM	1513	CB	THR	A	208	-1.569	17.555	-4.824	1.00176.20			C
ANISOU	1513	CB	THR	A	208	36459	16052	14437	-4105	2960	-671	C
ATOM	1514	OG1	THR	A	208	-0.516	16.896	-4.109	1.00173.90			O
ANISOU	1514	OG1	THR	A	208	34973	16207	14892	-4432	3585	-333	O
ATOM	1515	CG2	THR	A	208	-1.181	19.006	-5.067	1.00183.05			C
ANISOU	1515	CG2	THR	A	208	38069	16669	14810	-4475	3142	-358	C
ATOM	1516	N	MET	A	209	-3.692	15.280	-4.661	1.00177.61			N
ANISOU	1516	N	MET	A	209	36099	16284	15099	-3128	1735	-1742	N
ATOM	1517	CA	MET	A	209	-3.953	13.854	-4.493	1.00173.28			C
ANISOU	1517	CA	MET	A	209	34924	15878	15035	-2859	1724	-2022	C
ATOM	1518	C	MET	A	209	-2.645	13.096	-4.310	1.00177.19			C
ANISOU	1518	C	MET	A	209	34684	16645	15997	-3050	2672	-1604	C
ATOM	1519	O	MET	A	209	-2.615	12.021	-3.711	1.00151.97			O
ANISOU	1519	O	MET	A	209	30636	13671	13436	-2985	2734	-1658	O
ATOM	1520	CB	MET	A	209	-4.723	13.297	-5.692	1.00181.87			C
ANISOU	1520	CB	MET	A	209	36945	16601	15557	-2303	1454	-2535	C
ATOM	1521	CG	MET	A	209	-6.136	13.834	-5.817	1.00185.95			C
ANISOU	1521	CG	MET	A	209	38015	16890	15747	-2029	397	-3030	C
ATOM	1522	SD	MET	A	209	-7.038	13.161	-7.224	1.00224.78			S
ANISOU	1522	SD	MET	A	209	43910	21445	20049	-1377	-20	-3625	S
ATOM	1523	CE	MET	A	209	-6.957	11.409	-6.871	1.00192.48			C
ANISOU	1523	CE	MET	A	209	38963	17514	16657	-1299	296	-3896	C
ATOM	1524	N	GLN	A	210	-1.568	13.672	-4.834	1.00183.50			N
ANISOU	1524	N	GLN	A	210	35824	17407	16491	-3278	3425	-1187	N
ATOM	1525	CA	GLN	A	210	-0.229	13.134	-4.646	1.00186.98			C
ANISOU	1525	CA	GLN	A	210	35505	18129	17411	-3494	4357	-751	C
ATOM	1526	C	GLN	A	210	0.141	13.144	-3.167	1.00166.85			C
ANISOU	1526	C	GLN	A	210	31662	16046	15686	-3908	4218	-448	C
ATOM	1527	O	GLN	A	210	0.766	12.209	-2.666	1.00163.55			O
ANISOU	1527	O	GLN	A	210	30321	15916	15903	-3905	4599	-268	O
ATOM	1528	CB	GLN	A	210	0.781	13.960	-5.442	1.00203.95			C
ANISOU	1528	CB	GLN	A	210	38276	20140	19076	-3740	5154	-378	C
ATOM	1529	CG	GLN	A	210	2.225	13.556	-5.229	1.00214.30			C
ANISOU	1529	CG	GLN	A	210	38717	21769	20937	-4009	6140	87	C
ATOM	1530	CD	GLN	A	210	3.190	14.481	-5.939	1.00226.52			C
ANISOU	1530	CD	GLN	A	210	40828	23181	22056	-4342	6943	447	C
ATOM	1531	OE1	GLN	A	210	2.780	15.447	-6.583	1.00227.41			O
ANISOU	1531	OE1	GLN	A	210	42060	22932	21415	-4373	6760	378	O
ATOM	1532	NE2	GLN	A	210	4.481	14.191	-5.827	1.00235.11			N
ANISOU	1532	NE2	GLN	A	210	41143	24548	23641	-4587	7848	835	N
ATOM	1533	N	GLN	A	211	-0.252	14.208	-2.473	1.00153.64			N
ANISOU	1533	N	GLN	A	211	29972	14428	13977	-4242	3659	-397	N
ATOM	1534	CA	GLN	A	211	-0.005	14.325	-1.042	1.00149.08			C
ANISOU	1534	CA	GLN	A	211	28293	14272	14078	-4653	3430	-151	C
ATOM	1535	C	GLN	A	211	-0.985	13.474	-0.240	1.00155.79			C
ANISOU	1535	C	GLN	A	211	28596	15234	15364	-4420	2779	-488	C
ATOM	1536	O	GLN	A	211	-0.674	13.031	0.865	1.00156.29			O
ANISOU	1536	O	GLN	A	211	27661	15660	16061	-4624	2748	-285	O
ATOM	1537	CB	GLN	A	211	-0.104	15.784	-0.598	1.00148.29			C
ANISOU	1537	CB	GLN	A	211	28450	14145	13748	-5100	3087	-15	C
ATOM	1538	CG	GLN	A	211	0.949	16.693	-1.200	1.00154.18			C

ANISOU	1538	CG	GLN	A	211	29620	14798	14161	-5463	3773	372	C
ATOM	1539	CD	GLN	A	211	0.757	18.139	-0.793	1.00160.56			C
ANISOU	1539	CD	GLN	A	211	30794	15495	14715	-5894	3404	462	C
ATOM	1540	OE1	GLN	A	211	-0.286	18.508	-0.253	1.00152.64			O
ANISOU	1540	OE1	GLN	A	211	29917	14413	13666	-5819	2611	178	O
ATOM	1541	NE2	GLN	A	211	1.765	18.966	-1.047	1.00173.28			N
ANISOU	1541	NE2	GLN	A	211	32571	17079	16187	-6356	4011	844	N
ATOM	1542	N	ALA	A	212	-2.168	13.252	-0.803	1.00163.82			N
ANISOU	1542	N	ALA	A	212	30282	15931	16032	-4003	2257	-1005	N
ATOM	1543	CA	ALA	A	212	-3.196	12.456	-0.143	1.00163.59			C
ANISOU	1543	CA	ALA	A	212	29801	15953	16403	-3794	1664	-1389	C
ATOM	1544	C	ALA	A	212	-2.762	11.003	-0.005	1.00166.32			C
ANISOU	1544	C	ALA	A	212	29487	16438	17270	-3603	2101	-1336	C
ATOM	1545	O	ALA	A	212	-2.886	10.408	1.065	1.00163.00			O
ANISOU	1545	O	ALA	A	212	28225	16262	17446	-3702	1932	-1285	O
ATOM	1546	CB	ALA	A	212	-4.509	12.546	-0.908	1.00168.09			C
ANISOU	1546	CB	ALA	A	212	31232	16142	16492	-3386	1030	-1983	C
ATOM	1547	N	ALA	A	213	-2.250	10.439	-1.093	1.00173.73			N
ANISOU	1547	N	ALA	A	213	30863	17190	17957	-3319	2688	-1344	N
ATOM	1548	CA	ALA	A	213	-1.822	9.045	-1.105	1.00177.03			C
ANISOU	1548	CA	ALA	A	213	30770	17661	18831	-3073	3161	-1318	C
ATOM	1549	C	ALA	A	213	-0.499	8.851	-0.371	1.00180.60			C
ANISOU	1549	C	ALA	A	213	30263	18505	19851	-3349	3763	-720	C
ATOM	1550	O	ALA	A	213	-0.242	7.784	0.188	1.00177.71			O
ANISOU	1550	O	ALA	A	213	29168	18285	20067	-3227	3941	-620	O
ATOM	1551	CB	ALA	A	213	-1.713	8.537	-2.533	1.00181.72			C
ANISOU	1551	CB	ALA	A	213	32207	17903	18936	-2667	3612	-1554	C
ATOM	1552	N	SER	A	214	0.333	9.888	-0.366	1.00184.77			N
ANISOU	1552	N	SER	A	214	30792	19191	20223	-3722	4056	-326	N
ATOM	1553	CA	SER	A	214	1.652	9.806	0.256	1.00185.76			C
ANISOU	1553	CA	SER	A	214	29987	19710	20882	-4010	4610	230	C
ATOM	1554	C	SER	A	214	1.581	9.844	1.781	1.00176.99			C
ANISOU	1554	C	SER	A	214	27929	18983	20337	-4323	4115	432	C
ATOM	1555	O	SER	A	214	2.600	9.718	2.459	1.00181.55			O
ANISOU	1555	O	SER	A	214	27640	19931	21409	-4552	4422	880	O
ATOM	1556	CB	SER	A	214	2.567	10.921	-0.260	1.00188.98			C
ANISOU	1556	CB	SER	A	214	30699	20146	20958	-4365	5110	555	C
ATOM	1557	OG	SER	A	214	2.105	12.196	0.150	1.00184.93			O
ANISOU	1557	OG	SER	A	214	30488	19627	20150	-4751	4557	542	O
ATOM	1558	N	LEU	A	215	0.377	10.020	2.316	1.00168.94			N
ANISOU	1558	N	LEU	A	215	27077	17875	19236	-4326	3347	90	N
ATOM	1559	CA	LEU	A	215	0.177	10.014	3.760	1.00167.83			C
ANISOU	1559	CA	LEU	A	215	26154	18053	19559	-4602	2874	228	C
ATOM	1560	C	LEU	A	215	0.047	8.593	4.289	1.00175.33			C
ANISOU	1560	C	LEU	A	215	26500	19066	21051	-4310	2905	205	C
ATOM	1561	O	LEU	A	215	-0.694	7.780	3.735	1.00183.49			O
ANISOU	1561	O	LEU	A	215	27904	19791	22021	-3913	2857	-195	O
ATOM	1562	CB	LEU	A	215	-1.064	10.825	4.139	1.00162.64			C
ANISOU	1562	CB	LEU	A	215	25922	17263	18613	-4733	2105	-139	C
ATOM	1563	CG	LEU	A	215	-0.935	12.347	4.081	1.00167.46			C
ANISOU	1563	CG	LEU	A	215	26961	17862	18805	-5126	1952	-35	C
ATOM	1564	CD1	LEU	A	215	-2.231	13.015	4.516	1.00163.71			C
ANISOU	1564	CD1	LEU	A	215	26841	17237	18126	-5168	1185	-432	C
ATOM	1565	CD2	LEU	A	215	0.225	12.813	4.944	1.00170.45			C
ANISOU	1565	CD2	LEU	A	215	26596	18657	19509	-5633	2184	500	C
ATOM	1566	N	ARG	A	216	0.771	8.297	5.363	1.00174.30			N
ANISOU	1566	N	ARG	A	216	25465	19319	21443	-4512	2968	634	N
ATOM	1567	CA	ARG	A	216	0.698	6.985	5.993	1.00173.69			C
ANISOU	1567	CA	ARG	A	216	24816	19291	21886	-4252	2987	687	C
ATOM	1568	C	ARG	A	216	-0.376	6.982	7.073	1.00161.26			C
ANISOU	1568	C	ARG	A	216	23112	17742	20417	-4400	2314	477	C
ATOM	1569	O	ARG	A	216	-0.452	7.905	7.884	1.00159.24			O
ANISOU	1569	O	ARG	A	216	22699	17716	20090	-4812	1928	593	O
ATOM	1570	CB	ARG	A	216	2.050	6.600	6.592	1.00180.02			C
ANISOU	1570	CB	ARG	A	216	24716	20484	23198	-4329	3381	1280	C
ATOM	1571	CG	ARG	A	216	3.215	6.735	5.628	1.00191.63			C
ANISOU	1571	CG	ARG	A	216	26188	21990	24632	-4258	4107	1522	C
ATOM	1572	CD	ARG	A	216	4.491	6.163	6.222	1.00203.92			C
ANISOU	1572	CD	ARG	A	216	26745	23929	26805	-4237	4474	2064	C
ATOM	1573	NE	ARG	A	216	4.378	4.730	6.473	1.00215.42			N

ANISOU	1573	NE	ARG	A	216	27889	25272	28690	-3767	4582	2071	N
ATOM	1574	CZ	ARG	A	216	4.673	3.791	5.579	1.00231.01			C
ANISOU	1574	CZ	ARG	A	216	30011	26982	30779	-3284	5185	1989	C
ATOM	1575	NH1	ARG	A	216	5.100	4.133	4.371	1.00241.43			N
ANISOU	1575	NH1	ARG	A	216	31797	28148	31790	-3209	5749	1895	N
ATOM	1576	NH2	ARG	A	216	4.540	2.509	5.892	1.00233.50			N
ANISOU	1576	NH2	ARG	A	216	30062	27157	31499	-2879	5254	2001	N
ATOM	1577	N	THR	A	217	-1.206	5.945	7.077	1.00150.16			N
ANISOU	1577	N	THR	A	217	21790	16081	19184	-4083	2212	148	N
ATOM	1578	CA	THR	A	217	-2.286	5.843	8.050	1.00138.47			C
ANISOU	1578	CA	THR	A	217	20197	14583	17832	-4213	1663	-95	C
ATOM	1579	C	THR	A	217	-1.727	5.808	9.468	1.00140.20			C
ANISOU	1579	C	THR	A	217	19662	15199	18408	-4507	1550	391	C
ATOM	1580	O	THR	A	217	-2.323	6.356	10.394	1.00142.63			O
ANISOU	1580	O	THR	A	217	19893	15627	18672	-4816	1091	322	O
ATOM	1581	CB	THR	A	217	-3.155	4.597	7.803	1.00133.92			C
ANISOU	1581	CB	THR	A	217	19771	13650	17465	-3848	1676	-505	C
ATOM	1582	OG1	THR	A	217	-3.560	4.561	6.428	1.00142.37			O
ANISOU	1582	OG1	THR	A	217	21548	14365	18180	-3554	1779	-947	O
ATOM	1583	CG2	THR	A	217	-4.389	4.620	8.695	1.00115.69			C
ANISOU	1583	CG2	THR	A	217	17410	11287	15258	-4021	1142	-836	C
ATOM	1584	N	SER	A	218	-0.569	5.175	9.625	1.00146.87			N
ANISOU	1584	N	SER	A	218	19964	16246	19592	-4393	1965	877	N
ATOM	1585	CA	SER	A	218	0.094	5.103	10.921	1.00150.99			C
ANISOU	1585	CA	SER	A	218	19763	17170	20436	-4628	1831	1383	C
ATOM	1586	C	SER	A	218	0.569	6.478	11.383	1.00148.48			C
ANISOU	1586	C	SER	A	218	19315	17208	19894	-5140	1573	1603	C
ATOM	1587	O	SER	A	218	0.697	6.726	12.582	1.00148.20			O
ANISOU	1587	O	SER	A	218	18872	17474	19962	-5450	1233	1855	O
ATOM	1588	CB	SER	A	218	1.270	4.127	10.869	1.00158.85			C
ANISOU	1588	CB	SER	A	218	20192	18292	21870	-4320	2321	1845	C
ATOM	1589	OG	SER	A	218	2.179	4.483	9.844	1.00168.26			O
ANISOU	1589	OG	SER	A	218	21429	19527	22976	-4249	2795	1962	O
ATOM	1590	N	ASP	A	219	0.832	7.368	10.429	1.00145.23			N
ANISOU	1590	N	ASP	A	219	19300	16734	19148	-5239	1745	1504	N
ATOM	1591	CA	ASP	A	219	1.233	8.733	10.752	1.00145.55			C
ANISOU	1591	CA	ASP	A	219	19322	17028	18950	-5752	1537	1662	C
ATOM	1592	C	ASP	A	219	0.042	9.533	11.259	1.00143.34			C
ANISOU	1592	C	ASP	A	219	19480	16629	18352	-6004	959	1286	C
ATOM	1593	O	ASP	A	219	0.187	10.409	12.112	1.00152.98			O
ANISOU	1593	O	ASP	A	219	20536	18098	19491	-6455	638	1431	O
ATOM	1594	CB	ASP	A	219	1.847	9.427	9.535	1.00148.48			C
ANISOU	1594	CB	ASP	A	219	20072	17300	19043	-5784	1962	1673	C
ATOM	1595	CG	ASP	A	219	3.240	8.926	9.220	1.00163.59			C
ANISOU	1595	CG	ASP	A	219	21403	19441	21314	-5676	2561	2116	C
ATOM	1596	OD1	ASP	A	219	3.931	8.462	10.151	1.00160.12			O
ANISOU	1596	OD1	ASP	A	219	20162	19361	21317	-5741	2511	2510	O
ATOM	1597	OD2	ASP	A	219	3.645	9.002	8.040	1.00178.81			O
ANISOU	1597	OD2	ASP	A	219	23681	21186	23075	-5513	3084	2068	O
ATOM	1598	N	LEU	A	220	-1.135	9.227	10.726	1.00128.53			N
ANISOU	1598	N	LEU	A	220	18152	14369	16316	-5709	828	779	N
ATOM	1599	CA	LEU	A	220	-2.357	9.889	11.160	1.00121.15			C
ANISOU	1599	CA	LEU	A	220	17588	13295	15149	-5869	301	367	C
ATOM	1600	C	LEU	A	220	-2.727	9.461	12.574	1.00129.57			C
ANISOU	1600	C	LEU	A	220	18187	14550	16494	-6034	11	449	C
ATOM	1601	O	LEU	A	220	-3.122	10.287	13.397	1.00138.18			O
ANISOU	1601	O	LEU	A	220	19308	15753	17442	-6386	-364	386	O
ATOM	1602	CB	LEU	A	220	-3.500	9.594	10.190	1.00116.06			C
ANISOU	1602	CB	LEU	A	220	17565	12211	14321	-5482	216	-215	C
ATOM	1603	CG	LEU	A	220	-3.381	10.283	8.830	1.00133.20			C
ANISOU	1603	CG	LEU	A	220	20415	14146	16047	-5351	366	-371	C
ATOM	1604	CD1	LEU	A	220	-4.414	9.734	7.858	1.00144.74			C
ANISOU	1604	CD1	LEU	A	220	22430	15200	17364	-4904	269	-927	C
ATOM	1605	CD2	LEU	A	220	-3.520	11.796	8.980	1.00136.05			C
ANISOU	1605	CD2	LEU	A	220	21131	14527	16032	-5711	50	-400	C
ATOM	1606	N	ARG	A	221	-2.592	8.167	12.852	1.00127.27			N
ANISOU	1606	N	ARG	A	221	17516	14262	16577	-5773	215	594	N
ATOM	1607	CA	ARG	A	221	-2.815	7.650	14.195	1.00126.23			C
ANISOU	1607	CA	ARG	A	221	16972	14296	16693	-5910	14	754	C
ATOM	1608	C	ARG	A	221	-1.846	8.312	15.161	1.00136.86			C

ANISOU	1608	C	ARG	A	221	17881	16096	18025	-6330	-136	1253	C
ATOM	1609	O	ARG	A	221	-2.203	8.636	16.292	1.00155.79			O
ANISOU	1609	O	ARG	A	221	20184	18646	20364	-6637	-475	1276	O
ATOM	1610	CB	ARG	A	221	-2.616	6.134	14.236	1.00131.87			C
ANISOU	1610	CB	ARG	A	221	17383	14911	17812	-5532	328	919	C
ATOM	1611	CG	ARG	A	221	-3.459	5.354	13.243	1.00143.46			C
ANISOU	1611	CG	ARG	A	221	19253	15922	19332	-5127	508	429	C
ATOM	1612	CD	ARG	A	221	-3.385	3.862	13.525	1.00157.10			C
ANISOU	1612	CD	ARG	A	221	20703	17508	21481	-4820	785	578	C
ATOM	1613	NE	ARG	A	221	-4.005	3.531	14.804	1.00166.48			N
ANISOU	1613	NE	ARG	A	221	21709	18730	22816	-5012	550	605	N
ATOM	1614	CZ	ARG	A	221	-5.210	2.984	14.930	1.00174.68			C
ANISOU	1614	CZ	ARG	A	221	22965	19442	23964	-4959	484	151	C
ATOM	1615	NH1	ARG	A	221	-5.924	2.690	13.851	1.00168.18			N
ANISOU	1615	NH1	ARG	A	221	22519	18250	23131	-4711	567	-380	N
ATOM	1616	NH2	ARG	A	221	-5.698	2.721	16.135	1.00183.43			N
ANISOU	1616	NH2	ARG	A	221	23918	20589	25188	-5170	343	218	N
ATOM	1617	N	LYS	A	222	-0.616	8.514	14.700	1.00133.74			N
ANISOU	1617	N	LYS	A	222	17220	15912	17683	-6356	131	1629	N
ATOM	1618	CA	LYS	A	222	0.427	9.120	15.516	1.00140.04			C
ANISOU	1618	CA	LYS	A	222	17527	17164	18517	-6766	-12	2097	C
ATOM	1619	C	LYS	A	222	0.046	10.541	15.917	1.00143.26			C
ANISOU	1619	C	LYS	A	222	18260	17630	18544	-7268	-396	1909	C
ATOM	1620	O	LYS	A	222	0.251	10.947	17.061	1.00140.22			O
ANISOU	1620	O	LYS	A	222	17615	17539	18123	-7649	-729	2106	O
ATOM	1621	CB	LYS	A	222	1.756	9.118	14.757	1.00148.60			C
ANISOU	1621	CB	LYS	A	222	18267	18423	19771	-6699	414	2452	C
ATOM	1622	CG	LYS	A	222	2.980	9.322	15.632	1.00161.39			C
ANISOU	1622	CG	LYS	A	222	19151	20554	21615	-7016	299	2991	C
ATOM	1623	CD	LYS	A	222	4.256	9.198	14.815	1.00172.33			C
ANISOU	1623	CD	LYS	A	222	20117	22094	23265	-6899	801	3304	C
ATOM	1624	CE	LYS	A	222	4.332	7.849	14.117	1.00171.35			C
ANISOU	1624	CE	LYS	A	222	19913	21743	23451	-6261	1270	3324	C
ATOM	1625	NZ	LYS	A	222	5.545	7.729	13.263	1.00172.40			N
ANISOU	1625	NZ	LYS	A	222	19660	21999	23848	-6117	1842	3590	N
ATOM	1626	N	MET	A	223	-0.521	11.287	14.973	1.00146.61			N
ANISOU	1626	N	MET	A	223	19299	17748	18658	-7247	-362	1521	N
ATOM	1627	CA	MET	A	223	-0.940	12.659	15.240	1.00138.50			C
ANISOU	1627	CA	MET	A	223	18669	16690	17266	-7664	-698	1311	C
ATOM	1628	C	MET	A	223	-2.168	12.703	16.144	1.00127.49			C
ANISOU	1628	C	MET	A	223	17461	15189	15788	-7725	-1096	968	C
ATOM	1629	O	MET	A	223	-2.227	13.502	17.079	1.00126.48			O
ANISOU	1629	O	MET	A	223	17328	15225	15503	-8147	-1409	993	O
ATOM	1630	CB	MET	A	223	-1.219	13.414	13.939	1.00128.68			C
ANISOU	1630	CB	MET	A	223	18093	15103	15695	-7558	-557	1013	C
ATOM	1631	CG	MET	A	223	-1.573	14.877	14.156	1.00122.04			C
ANISOU	1631	CG	MET	A	223	17708	14180	14483	-7964	-873	829	C
ATOM	1632	SD	MET	A	223	-1.777	15.813	12.632	1.00204.48			S
ANISOU	1632	SD	MET	A	223	29008	24195	24492	-7832	-709	569	S
ATOM	1633	CE	MET	A	223	-1.814	17.480	13.282	1.00113.72			C
ANISOU	1633	CE	MET	A	223	17833	12698	12676	-8428	-1052	537	C
ATOM	1634	N	VAL	A	224	-3.145	11.848	15.861	1.00106.80			N
ANISOU	1634	N	VAL	A	224	15007	12286	13285	-7323	-1059	627	N
ATOM	1635	CA	VAL	A	224	-4.354	11.776	16.676	1.00103.89			C
ANISOU	1635	CA	VAL	A	224	14763	11800	12911	-7363	-1350	271	C
ATOM	1636	C	VAL	A	224	-4.050	11.313	18.105	1.00113.26			C
ANISOU	1636	C	VAL	A	224	15483	13299	14251	-7602	-1456	613	C
ATOM	1637	O	VAL	A	224	-4.650	11.801	19.065	1.00117.87			O
ANISOU	1637	O	VAL	A	224	16140	13954	14691	-7703	-1688	454	O
ATOM	1638	CB	VAL	A	224	-5.420	10.867	16.027	1.00104.76			C
ANISOU	1638	CB	VAL	A	224	15080	11542	13183	-6906	-1256	-179	C
ATOM	1639	CG1	VAL	A	224	-6.603	10.663	16.963	1.00100.05			C
ANISOU	1639	CG1	VAL	A	224	14486	10852	12677	-6978	-1474	-518	C
ATOM	1640	CG2	VAL	A	224	-5.884	11.460	14.707	1.00102.12			C
ANISOU	1640	CG2	VAL	A	224	15306	10892	12602	-6680	-1282	-577	C
ATOM	1641	N	ASP	A	225	-3.107	10.385	18.245	1.00119.97			N
ANISOU	1641	N	ASP	A	225	15857	14357	15369	-7470	-1241	1080	N
ATOM	1642	CA	ASP	A	225	-2.698	9.916	19.567	1.00124.05			C
ANISOU	1642	CA	ASP	A	225	15958	15178	15996	-7653	-1377	1474	C
ATOM	1643	C	ASP	A	225	-2.087	11.048	20.385	1.00126.95			C

ANISOU	1643	C	ASP	A	225	16230	15898	16107	-8182	-1696	1695	C
ATOM	1644	O	ASP	A	225	-2.134	11.033	21.616	1.00138.21			O
ANISOU	1644	O	ASP	A	225	17547	17535	17432	-8234	-1904	1808	O
ATOM	1645	CB	ASP	A	225	-1.720	8.744	19.461	1.00137.27			C
ANISOU	1645	CB	ASP	A	225	17136	16995	18027	-7343	-1106	1955	C
ATOM	1646	CG	ASP	A	225	-2.425	7.411	19.287	1.00158.67			C
ANISOU	1646	CG	ASP	A	225	19905	19377	21005	-6905	-865	1796	C
ATOM	1647	OD1	ASP	A	225	-3.574	7.403	18.798	1.00160.21			O
ANISOU	1647	OD1	ASP	A	225	20512	19213	21148	-6784	-836	1260	O
ATOM	1648	OD2	ASP	A	225	-1.831	6.371	19.643	1.00175.54			O
ANISOU	1648	OD2	ASP	A	225	21674	21602	23422	-6681	-717	2200	O
ATOM	1649	N	MET	A	226	-1.513	12.027	19.694	1.00118.11			N
ANISOU	1649	N	MET	A	226	15207	14832	14838	-8312	-1666	1695	N
ATOM	1650	CA	MET	A	226	-1.012	13.224	20.352	1.00112.08			C
ANISOU	1650	CA	MET	A	226	14445	14346	13796	-8500	-1891	1755	C
ATOM	1651	C	MET	A	226	-2.170	14.080	20.836	1.00124.85			C
ANISOU	1651	C	MET	A	226	16570	15789	15080	-8365	-2068	1279	C
ATOM	1652	O	MET	A	226	-2.258	14.415	22.017	1.00126.88			O
ANISOU	1652	O	MET	A	226	16813	16235	15159	-8427	-2268	1308	O
ATOM	1653	CB	MET	A	226	-0.148	14.045	19.397	1.00114.38			C
ANISOU	1653	CB	MET	A	226	14753	14668	14039	-8696	-1737	1861	C
ATOM	1654	CG	MET	A	226	0.151	15.446	19.909	1.00115.74			C
ANISOU	1654	CG	MET	A	226	15091	14993	13893	-8893	-1944	1796	C
ATOM	1655	SD	MET	A	226	0.821	16.537	18.645	1.00119.80			S
ANISOU	1655	SD	MET	A	226	15851	15376	14290	-9125	-1704	1792	S
ATOM	1656	CE	MET	A	226	2.278	15.620	18.163	1.00170.87			C
ANISOU	1656	CE	MET	A	226	21562	22141	21220	-9269	-1372	2346	C
ATOM	1657	N	LEU	A	227	-3.060	14.423	19.910	1.00121.51			N
ANISOU	1657	N	LEU	A	227	16595	14999	14575	-8169	-1985	856	N
ATOM	1658	CA	LEU	A	227	-4.166	15.334	20.187	1.00130.71			C
ANISOU	1658	CA	LEU	A	227	18187	15988	15490	-7970	-2109	422	C
ATOM	1659	C	LEU	A	227	-5.135	14.799	21.242	1.00128.25			C
ANISOU	1659	C	LEU	A	227	17823	15666	15240	-7776	-2155	241	C
ATOM	1660	O	LEU	A	227	-5.887	15.563	21.846	1.00131.49			O
ANISOU	1660	O	LEU	A	227	18450	16032	15478	-7660	-2228	-9	O
ATOM	1661	CB	LEU	A	227	-4.925	15.660	18.896	1.00137.37			C
ANISOU	1661	CB	LEU	A	227	19474	16439	16281	-7744	-2048	30	C
ATOM	1662	CG	LEU	A	227	-4.446	16.817	18.010	1.00135.84			C
ANISOU	1662	CG	LEU	A	227	19645	16141	15828	-7903	-2038	42	C
ATOM	1663	CD1	LEU	A	227	-2.971	16.695	17.643	1.00132.21			C
ANISOU	1663	CD1	LEU	A	227	18908	15890	15438	-8296	-1878	503	C
ATOM	1664	CD2	LEU	A	227	-5.303	16.906	16.750	1.00133.04			C
ANISOU	1664	CD2	LEU	A	227	19788	15361	15400	-7624	-2026	-354	C
ATOM	1665	N	GLN	A	228	-5.113	13.490	21.467	1.00122.00			N
ANISOU	1665	N	GLN	A	228	16750	14891	14713	-7762	-2069	386	N
ATOM	1666	CA	GLN	A	228	-6.051	12.878	22.401	1.00123.51			C
ANISOU	1666	CA	GLN	A	228	16926	15022	14979	-7628	-2049	215	C
ATOM	1667	C	GLN	A	228	-5.371	12.159	23.561	1.00129.21			C
ANISOU	1667	C	GLN	A	228	17351	16029	15714	-7874	-2111	665	C
ATOM	1668	O	GLN	A	228	-4.582	11.236	23.354	1.00136.48			O
ANISOU	1668	O	GLN	A	228	17956	17037	16863	-7983	-2059	1050	O
ATOM	1669	CB	GLN	A	228	-6.983	11.914	21.664	1.00127.12			C
ANISOU	1669	CB	GLN	A	228	17423	15132	15744	-7359	-1880	-120	C
ATOM	1670	CG	GLN	A	228	-7.884	12.587	20.645	1.00126.91			C
ANISOU	1670	CG	GLN	A	228	17708	14820	15691	-7055	-1898	-621	C
ATOM	1671	CD	GLN	A	228	-8.911	11.641	20.061	1.00117.03			C
ANISOU	1671	CD	GLN	A	228	16466	13247	14752	-6766	-1787	-1018	C
ATOM	1672	OE1	GLN	A	228	-9.962	12.067	19.583	1.00113.13			O
ANISOU	1672	OE1	GLN	A	228	16131	12550	14302	-6438	-1850	-1481	O
ATOM	1673	NE2	GLN	A	228	-8.612	10.349	20.097	1.00114.39			N
ANISOU	1673	NE2	GLN	A	228	15935	12859	14670	-6875	-1629	-830	N
ATOM	1674	N	ASP	A	229	-5.691	12.597	24.776	1.00131.61			N
ANISOU	1674	N	ASP	A	229	17775	16464	15767	-7963	-2223	637	N
ATOM	1675	CA	ASP	A	229	-5.273	11.921	26.001	1.00142.65			C
ANISOU	1675	CA	ASP	A	229	19013	18094	17094	-8208	-2326	1018	C
ATOM	1676	C	ASP	A	229	-3.768	11.696	26.078	1.00137.45			C
ANISOU	1676	C	ASP	A	229	17972	17786	16467	-8468	-2515	1605	C
ATOM	1677	O	ASP	A	229	-3.304	10.575	26.284	1.00127.97			O
ANISOU	1677	O	ASP	A	229	16471	16662	15491	-8543	-2511	2003	O
ATOM	1678	CB	ASP	A	229	-6.011	10.588	26.152	1.00150.09			C

ANISOU	1678	CB	ASP	A	229	19915	18799	18311	-8108	-2116	959	C
ATOM	1679	CG	ASP	A	229	-7.512	10.736	26.011	1.00145.44			C
ANISOU	1679	CG	ASP	A	229	19584	17879	17797	-7833	-1917	355	C
ATOM	1680	OD1	ASP	A	229	-8.046	11.800	26.393	1.00145.11			O
ANISOU	1680	OD1	ASP	A	229	19762	17856	17516	-7783	-1972	81	O
ATOM	1681	OD2	ASP	A	229	-8.155	9.789	25.510	1.00138.79			O
ANISOU	1681	OD2	ASP	A	229	18690	16751	17291	-7662	-1701	160	O
ATOM	1682	N	SER	A	230	-3.009	12.769	25.902	1.00142.79			N
ANISOU	1682	N	SER	A	230	18627	18665	16963	-8597	-2666	1677	N
ATOM	1683	CA	SER	A	230	-1.561	12.689	26.001	1.00152.49			C
ANISOU	1683	CA	SER	A	230	19410	20267	18263	-8844	-2856	2201	C
ATOM	1684	C	SER	A	230	-1.007	13.956	26.638	1.00160.90			C
ANISOU	1684	C	SER	A	230	20579	21586	18970	-9092	-3109	2227	C
ATOM	1685	O	SER	A	230	-0.379	13.905	27.692	1.00173.07			O
ANISOU	1685	O	SER	A	230	21959	23451	20350	-9352	-3406	2555	O
ATOM	1686	CB	SER	A	230	-0.941	12.455	24.622	1.00148.88			C
ANISOU	1686	CB	SER	A	230	18671	19747	18150	-8757	-2644	2306	C
ATOM	1687	OG	SER	A	230	-1.402	11.237	24.063	1.00142.48			O
ANISOU	1687	OG	SER	A	230	17777	18683	17676	-8554	-2398	2311	O
ATOM	1688	N	PHE	A	231	-1.258	15.094	26.002	1.00154.07			N
ANISOU	1688	N	PHE	A	231	20013	20553	17974	-9029	-3006	1891	N
ATOM	1689	CA	PHE	A	231	-0.783	16.376	26.506	1.00159.62			C
ANISOU	1689	CA	PHE	A	231	20866	21417	18364	-9268	-3184	1882	C
ATOM	1690	C	PHE	A	231	-1.894	17.116	27.255	1.00167.49			C
ANISOU	1690	C	PHE	A	231	22379	22231	19029	-9196	-3175	1515	C
ATOM	1691	O	PHE	A	231	-3.068	16.989	26.906	1.00179.43			O
ANISOU	1691	O	PHE	A	231	24146	23427	20602	-8897	-2970	1157	O
ATOM	1692	CB	PHE	A	231	-0.242	17.228	25.354	1.00161.47			C
ANISOU	1692	CB	PHE	A	231	21106	21571	18673	-9309	-3055	1813	C
ATOM	1693	CG	PHE	A	231	1.011	16.678	24.728	1.00167.19			C
ANISOU	1693	CG	PHE	A	231	21266	22527	19732	-9447	-3023	2204	C
ATOM	1694	CD1	PHE	A	231	2.248	17.223	25.030	1.00171.35			C
ANISOU	1694	CD1	PHE	A	231	21459	23386	20260	-9772	-3193	2481	C
ATOM	1695	CD2	PHE	A	231	0.953	15.614	23.842	1.00172.98			C
ANISOU	1695	CD2	PHE	A	231	21770	23139	20815	-9253	-2793	2291	C
ATOM	1696	CE1	PHE	A	231	3.402	16.719	24.458	1.00179.13			C
ANISOU	1696	CE1	PHE	A	231	21833	24603	21627	-9873	-3114	2840	C
ATOM	1697	CE2	PHE	A	231	2.104	15.105	23.269	1.00179.97			C
ANISOU	1697	CE2	PHE	A	231	22089	24237	22053	-9355	-2687	2677	C
ATOM	1698	CZ	PHE	A	231	3.329	15.659	23.578	1.00182.96			C
ANISOU	1698	CZ	PHE	A	231	22078	24971	22466	-9650	-2838	2954	C
ATOM	1699	N	PRO	A	232	-1.526	17.888	28.293	1.00162.11			N
ANISOU	1699	N	PRO	A	232	21822	21749	18025	-9477	-3388	1600	N
ATOM	1700	CA	PRO	A	232	-2.476	18.653	29.114	1.00153.79			C
ANISOU	1700	CA	PRO	A	232	21234	20543	16657	-9460	-3353	1295	C
ATOM	1701	C	PRO	A	232	-3.050	19.868	28.390	1.00142.78			C
ANISOU	1701	C	PRO	A	232	20174	18846	15230	-9288	-3175	927	C
ATOM	1702	O	PRO	A	232	-3.188	20.933	28.997	1.00132.81			O
ANISOU	1702	O	PRO	A	232	19203	17553	13705	-9424	-3218	806	O
ATOM	1703	CB	PRO	A	232	-1.620	19.129	30.295	1.00156.72			C
ANISOU	1703	CB	PRO	A	232	21596	21239	16711	-9881	-3662	1562	C
ATOM	1704	CG	PRO	A	232	-0.396	18.277	30.269	1.00162.71			C
ANISOU	1704	CG	PRO	A	232	21822	22347	17652	-10069	-3900	2031	C
ATOM	1705	CD	PRO	A	232	-0.159	17.966	28.833	1.00163.60			C
ANISOU	1705	CD	PRO	A	232	21661	22339	18159	-9846	-3690	2017	C
ATOM	1706	N	ALA	A	233	-3.385	19.706	27.115	1.00138.19			N
ANISOU	1706	N	ALA	A	233	19573	18030	14903	-9010	-2993	766	N
ATOM	1707	CA	ALA	A	233	-3.887	20.806	26.304	1.00133.02			C
ANISOU	1707	CA	ALA	A	233	19245	17080	14215	-8857	-2871	467	C
ATOM	1708	C	ALA	A	233	-5.385	20.677	26.056	1.00127.31			C
ANISOU	1708	C	ALA	A	233	18727	16028	13618	-8441	-2704	60	C
ATOM	1709	O	ALA	A	233	-5.940	19.577	26.075	1.00130.46			O
ANISOU	1709	O	ALA	A	233	18963	16389	14216	-8250	-2628	-3	O
ATOM	1710	CB	ALA	A	233	-3.137	20.868	24.983	1.00113.52			C
ANISOU	1710	CB	ALA	A	233	16669	14574	11890	-8904	-2818	582	C
ATOM	1711	N	ARG	A	234	-6.034	21.811	25.821	1.00126.02			N
ANISOU	1711	N	ARG	A	234	18891	15618	13371	-8311	-2657	-218	N
ATOM	1712	CA	ARG	A	234	-7.459	21.828	25.532	1.00125.86			C
ANISOU	1712	CA	ARG	A	234	18997	15292	13531	-7895	-2541	-629	C
ATOM	1713	C	ARG	A	234	-7.719	22.261	24.094	1.00131.58			C

ANISOU	1713	C	ARG	A	234	19891	15739	14363	-7663	-2518	-798	C
ATOM	1714	O	ARG	A	234	-8.096	23.405	23.851	1.00124.31			O
ANISOU	1714	O	ARG	A	234	19271	14613	13346	-7592	-2537	-973	O
ATOM	1715	CB	ARG	A	234	-8.185	22.783	26.478	1.00121.40			C
ANISOU	1715	CB	ARG	A	234	18667	14638	12823	-7887	-2530	-851	C
ATOM	1716	CG	ARG	A	234	-7.950	22.533	27.955	1.00121.91			C
ANISOU	1716	CG	ARG	A	234	18698	14949	12673	-8177	-2564	-698	C
ATOM	1717	CD	ARG	A	234	-8.778	23.504	28.779	1.00133.57			C
ANISOU	1717	CD	ARG	A	234	20448	16283	14019	-8160	-2513	-972	C
ATOM	1718	NE	ARG	A	234	-10.197	23.416	28.440	1.00145.60			N
ANISOU	1718	NE	ARG	A	234	21951	17526	15845	-7733	-2383	-1395	N
ATOM	1719	CZ	ARG	A	234	-11.099	24.347	28.733	1.00147.99			C
ANISOU	1719	CZ	ARG	A	234	22445	17616	16166	-7594	-2338	-1723	C
ATOM	1720	NH1	ARG	A	234	-10.733	25.451	29.366	1.00144.09			N
ANISOU	1720	NH1	ARG	A	234	22236	17135	15378	-7857	-2384	-1674	N
ATOM	1721	NH2	ARG	A	234	-12.368	24.180	28.385	1.00108.14			N
ANISOU	1721	NH2	ARG	A	234	17290	12340	11458	-7197	-2265	-2120	N
ATOM	1722	N	PHE	A	235	-7.509	21.355	23.145	1.00139.38			N
ANISOU	1722	N	PHE	A	235	20729	16703	15526	-7568	-2485	-739	N
ATOM	1723	CA	PHE	A	235	-7.836	21.633	21.753	1.00135.74			C
ANISOU	1723	CA	PHE	A	235	20493	15957	15124	-7346	-2479	-919	C
ATOM	1724	C	PHE	A	235	-9.338	21.836	21.654	1.00131.75			C
ANISOU	1724	C	PHE	A	235	20066	15185	14807	-6890	-2487	-1375	C
ATOM	1725	O	PHE	A	235	-10.109	20.892	21.823	1.00 99.82			O
ANISOU	1725	O	PHE	A	235	15771	11123	11033	-6645	-2442	-1574	O
ATOM	1726	CB	PHE	A	235	-7.411	20.474	20.854	1.00102.19			C
ANISOU	1726	CB	PHE	A	235	16073	11722	11034	-7338	-2429	-804	C
ATOM	1727	CG	PHE	A	235	-5.949	20.142	20.935	1.00104.22			C
ANISOU	1727	CG	PHE	A	235	16118	12264	11216	-7764	-2416	-363	C
ATOM	1728	CD1	PHE	A	235	-5.055	20.669	20.021	1.00125.28			C
ANISOU	1728	CD1	PHE	A	235	18957	14896	13749	-8015	-2387	-189	C
ATOM	1729	CD2	PHE	A	235	-5.470	19.293	21.919	1.00131.14			C
ANISOU	1729	CD2	PHE	A	235	19140	15974	14712	-7922	-2432	-120	C
ATOM	1730	CE1	PHE	A	235	-3.710	20.360	20.091	1.00132.61			C
ANISOU	1730	CE1	PHE	A	235	19567	16110	14708	-8394	-2355	202	C
ATOM	1731	CE2	PHE	A	235	-4.126	18.983	21.994	1.00107.21			C
ANISOU	1731	CE2	PHE	A	235	15814	13232	11691	-8270	-2457	290	C
ATOM	1732	CZ	PHE	A	235	-3.246	19.517	21.080	1.00109.27			C
ANISOU	1732	CZ	PHE	A	235	16141	13481	11894	-8495	-2408	442	C
ATOM	1733	N	LYS	A	236	-9.754	23.072	21.397	1.00120.37			N
ANISOU	1733	N	LYS	A	236	18949	13536	13252	-6788	-2549	-1548	N
ATOM	1734	CA	LYS	A	236	-11.173	23.411	21.429	1.00120.66			C
ANISOU	1734	CA	LYS	A	236	18990	13354	13503	-6363	-2591	-1998	C
ATOM	1735	C	LYS	A	236	-11.787	23.529	20.034	1.00119.06			C
ANISOU	1735	C	LYS	A	236	18969	12872	13397	-5998	-2694	-2260	C
ATOM	1736	O	LYS	A	236	-13.007	23.649	19.902	1.00123.77			O
ANISOU	1736	O	LYS	A	236	19473	13315	14238	-5598	-2765	-2680	O
ATOM	1737	CB	LYS	A	236	-11.398	24.703	22.220	1.00128.41			C
ANISOU	1737	CB	LYS	A	236	20187	14276	14328	-6453	-2613	-2073	C
ATOM	1738	CG	LYS	A	236	-10.968	24.629	23.684	1.00104.87			C
ANISOU	1738	CG	LYS	A	236	17078	11554	11215	-6782	-2539	-1883	C
ATOM	1739	CD	LYS	A	236	-12.057	24.053	24.565	1.00103.96			C
ANISOU	1739	CD	LYS	A	236	16704	11451	11345	-6575	-2470	-2170	C
ATOM	1740	CE	LYS	A	236	-13.261	24.977	24.612	1.00161.32			C
ANISOU	1740	CE	LYS	A	236	24077	18459	18758	-6273	-2511	-2607	C
ATOM	1741	NZ	LYS	A	236	-14.321	24.464	25.518	1.00155.41			N
ANISOU	1741	NZ	LYS	A	236	23081	17711	18255	-6129	-2429	-2905	N
ATOM	1742	N	ALA	A	237	-10.944	23.486	19.003	1.00118.27			N
ANISOU	1742	N	ALA	A	237	19128	12713	13095	-6150	-2709	-2028	N
ATOM	1743	CA	ALA	A	237	-11.414	23.577	17.620	1.00119.00			C
ANISOU	1743	CA	ALA	A	237	19510	12528	13178	-5832	-2823	-2235	C
ATOM	1744	C	ALA	A	237	-10.344	23.214	16.590	1.00103.53			C
ANISOU	1744	C	ALA	A	237	17830	10524	10982	-6083	-2781	-1941	C
ATOM	1745	O	ALA	A	237	-9.178	23.588	16.728	1.00104.98			O
ANISOU	1745	O	ALA	A	237	18164	10808	10915	-6552	-2692	-1577	O
ATOM	1746	CB	ALA	A	237	-11.961	24.974	17.335	1.00119.57			C
ANISOU	1746	CB	ALA	A	237	19993	12337	13102	-5668	-2950	-2409	C
ATOM	1747	N	ILE	A	238	-10.759	22.485	15.557	1.00108.19			N
ANISOU	1747	N	ILE	A	238	18480	10967	11661	-5783	-2839	-2131	N
ATOM	1748	CA	ILE	A	238	-9.912	22.223	14.397	1.00104.32			C

ANISOU	1748	CA	ILE	A	238	18391	10337	10909	-5964	-2797	-1934	C
ATOM	1749	C	ILE	A	238	-10.578	22.766	13.137	1.00107.68			C
ANISOU	1749	C	ILE	A	238	19367	10400	11149	-5566	-2974	-2176	C
ATOM	1750	O	ILE	A	238	-11.730	22.441	12.847	1.00105.56			O
ANISOU	1750	O	ILE	A	238	18929	10067	11111	-5062	-3127	-2561	O
ATOM	1751	CB	ILE	A	238	-9.655	20.725	14.192	1.00108.35			C
ANISOU	1751	CB	ILE	A	238	18583	10961	11623	-5987	-2696	-1916	C
ATOM	1752	CG1	ILE	A	238	-8.980	20.121	15.421	1.00101.56			C
ANISOU	1752	CG1	ILE	A	238	17193	10458	10935	-6352	-2548	-1637	C
ATOM	1753	CG2	ILE	A	238	-8.776	20.514	12.975	1.00104.75			C
ANISOU	1753	CG2	ILE	A	238	18606	10316	10876	-6202	-2607	-1746	C
ATOM	1754	CD1	ILE	A	238	-7.521	20.473	15.543	1.00103.52			C
ANISOU	1754	CD1	ILE	A	238	17512	10869	10952	-6933	-2418	-1184	C
ATOM	1755	N	HIS	A	239	-9.852	23.592	12.390	1.00113.93			N
ANISOU	1755	N	HIS	A	239	20817	10958	11513	-5807	-2948	-1952	N
ATOM	1756	CA	HIS	A	239	-10.414	24.229	11.204	1.00115.45			C
ANISOU	1756	CA	HIS	A	239	21665	10764	11436	-5426	-3133	-2118	C
ATOM	1757	C	HIS	A	239	-9.722	23.809	9.915	1.00122.06			C
ANISOU	1757	C	HIS	A	239	23093	11366	11919	-5513	-3039	-1996	C
ATOM	1758	O	HIS	A	239	-8.496	23.863	9.807	1.00131.24			O
ANISOU	1758	O	HIS	A	239	24507	12518	12839	-6079	-2780	-1674	O
ATOM	1759	CB	HIS	A	239	-10.362	25.752	11.329	1.00118.86			C
ANISOU	1759	CB	HIS	A	239	22583	10986	11594	-5546	-3189	-2006	C
ATOM	1760	CG	HIS	A	239	-11.154	26.292	12.479	1.00120.49			C
ANISOU	1760	CG	HIS	A	239	22343	11340	12097	-5404	-3274	-2189	C
ATOM	1761	ND1	HIS	A	239	-12.527	26.264	12.516	1.00124.86			N
ANISOU	1761	ND1	HIS	A	239	22625	11872	12945	-4849	-3479	-2606	N
ATOM	1762	CD2	HIS	A	239	-10.753	26.884	13.631	1.00121.01			C
ANISOU	1762	CD2	HIS	A	239	22205	11578	12195	-5767	-3161	-2036	C
ATOM	1763	CE1	HIS	A	239	-12.946	26.814	13.646	1.00126.06			C
ANISOU	1763	CE1	HIS	A	239	22451	12148	13298	-4888	-3456	-2713	C
ATOM	1764	NE2	HIS	A	239	-11.891	27.196	14.336	1.00125.37			N
ANISOU	1764	NE2	HIS	A	239	22427	12169	13039	-5416	-3278	-2365	N
ATOM	1765	N	PHE	A	240	-10.520	23.392	8.939	1.00122.07			N
ANISOU	1765	N	PHE	A	240	23299	11185	11898	-4963	-3228	-2278	N
ATOM	1766	CA	PHE	A	240	-10.002	23.050	7.620	1.00123.91			C
ANISOU	1766	CA	PHE	A	240	24221	11134	11723	-4934	-3143	-2216	C
ATOM	1767	C	PHE	A	240	-10.535	24.036	6.589	1.00128.40			C
ANISOU	1767	C	PHE	A	240	25593	11308	11885	-4523	-3377	-2279	C
ATOM	1768	O	PHE	A	240	-11.741	24.271	6.501	1.00131.66			O
ANISOU	1768	O	PHE	A	240	25832	11706	12486	-3977	-3713	-2564	O
ATOM	1769	CB	PHE	A	240	-10.376	21.622	7.228	1.00123.06			C
ANISOU	1769	CB	PHE	A	240	23766	11132	11862	-4622	-3161	-2470	C
ATOM	1770	CG	PHE	A	240	-9.666	20.567	8.019	1.00124.43			C
ANISOU	1770	CG	PHE	A	240	23350	11588	12341	-5058	-2896	-2346	C
ATOM	1771	CD1	PHE	A	240	-8.454	20.056	7.585	1.00113.97			C
ANISOU	1771	CD1	PHE	A	240	22343	10171	10790	-5522	-2560	-2115	C
ATOM	1772	CD2	PHE	A	240	-10.214	20.073	9.190	1.00124.19			C
ANISOU	1772	CD2	PHE	A	240	22470	11888	12829	-5017	-2948	-2463	C
ATOM	1773	CE1	PHE	A	240	-7.800	19.081	8.311	1.00129.66			C
ANISOU	1773	CE1	PHE	A	240	23746	12407	13112	-5938	-2330	-1969	C
ATOM	1774	CE2	PHE	A	240	-9.562	19.095	9.915	1.00125.07			C
ANISOU	1774	CE2	PHE	A	240	22080	12237	13202	-5397	-2728	-2302	C
ATOM	1775	CZ	PHE	A	240	-8.363	18.583	9.472	1.00127.87			C
ANISOU	1775	CZ	PHE	A	240	22691	12518	13375	-5850	-2445	-2045	C
ATOM	1776	N	ILE	A	241	-9.629	24.633	5.825	1.00131.81			N
ANISOU	1776	N	ILE	A	241	26917	11406	11757	-4824	-3173	-2008	N
ATOM	1777	CA	ILE	A	241	-10.016	25.612	4.817	1.00148.88			C
ANISOU	1777	CA	ILE	A	241	29991	13129	13447	-4464	-3369	-1995	C
ATOM	1778	C	ILE	A	241	-9.504	25.243	3.425	1.00156.84			C
ANISOU	1778	C	ILE	A	241	31868	13813	13911	-4366	-3189	-1929	C
ATOM	1779	O	ILE	A	241	-8.423	24.667	3.277	1.00154.66			O
ANISOU	1779	O	ILE	A	241	31745	13544	13473	-4848	-2748	-1785	O
ATOM	1780	CB	ILE	A	241	-9.534	27.030	5.191	1.00152.97			C
ANISOU	1780	CB	ILE	A	241	30997	13429	13696	-4881	-3271	-1724	C
ATOM	1781	CG1	ILE	A	241	-8.039	27.015	5.512	1.00131.88			C
ANISOU	1781	CG1	ILE	A	241	28434	10812	10864	-5751	-2763	-1405	C
ATOM	1782	CG2	ILE	A	241	-10.322	27.560	6.379	1.00129.03			C
ANISOU	1782	CG2	ILE	A	241	27272	10631	11122	-4772	-3509	-1860	C
ATOM	1783	CD1	ILE	A	241	-7.473	28.375	5.836	1.00134.85			C

ANISOU	1783	CD1	ILE	A	241	29280	10981	10976	-6243	-2615	-1146	C
ATOM	1784	N	HIS	A	242	-10.314	25.556	2.416	1.00163.04			N
ANISOU	1784	NA	HIS	A	242	33207	14314	14425	-3732	-3522	-2052	N
ATOM	1785	CA	HIS	A	242	-9.940	25.414	1.011	1.00167.79			C
ANISOU	1785	CA	HIS	A	242	34796	14550	14406	-3542	-3377	-1972	C
ATOM	1786	C	HIS	A	242	-9.632	23.975	0.606	1.00161.01			C
ANISOU	1786	C	HIS	A	242	33682	13875	13618	-3492	-3150	-2122	C
ATOM	1787	O	HIS	A	242	-8.994	23.739	-0.420	1.00159.98			O
ANISOU	1787	O	HIS	A	242	34355	13480	12948	-3500	-2821	-2026	O
ATOM	1788	CB	HIS	A	242	-8.756	26.326	0.678	1.00173.99			C
ANISOU	1788	CB	HIS	A	242	36598	14941	14569	-4119	-2901	-1604	C
ATOM	1789	CG	HIS	A	242	-8.922	27.732	1.166	1.00182.38			C
ANISOU	1789	CG	HIS	A	242	37934	15799	15563	-4270	-3057	-1443	C
ATOM	1790	ND1	HIS	A	242	-10.156	28.322	1.333	1.00185.91			N
ANISOU	1790	ND1	HIS	A	242	38188	16216	16234	-3698	-3628	-1605	N
ATOM	1791	CD2	HIS	A	242	-8.008	28.662	1.532	1.00193.04			C
ANISOU	1791	CD2	HIS	A	242	39731	16953	16662	-4955	-2690	-1160	C
ATOM	1792	CE1	HIS	A	242	-9.996	29.556	1.778	1.00193.76			C
ANISOU	1792	CE1	HIS	A	242	39548	16984	17088	-3978	-3610	-1419	C
ATOM	1793	NE2	HIS	A	242	-8.701	29.786	1.906	1.00197.12			N
ANISOU	1793	NE2	HIS	A	242	40358	17315	17224	-4749	-3053	-1144	N
ATOM	1794	N	GLN	A	243	-10.093	23.019	1.406	1.00152.04			N
ANISOU	1794	N	GLN	A	243	31477	13163	13128	-3434	-3278	-2363	N
ATOM	1795	CA	GLN	A	243	-9.879	21.609	1.105	1.00147.66			C
ANISOU	1795	CA	GLN	A	243	30644	12759	12702	-3371	-3083	-2534	C
ATOM	1796	C	GLN	A	243	-10.655	21.222	-0.152	1.00151.38			C
ANISOU	1796	C	GLN	A	243	31496	13076	12945	-2683	-3372	-2762	C
ATOM	1797	O	GLN	A	243	-11.713	21.788	-0.431	1.00159.15			O
ANISOU	1797	O	GLN	A	243	32495	14002	13971	-2207	-3868	-2896	O
ATOM	1798	CB	GLN	A	243	-10.282	20.729	2.294	1.00136.59			C
ANISOU	1798	CB	GLN	A	243	28052	11795	12050	-3463	-3169	-2731	C
ATOM	1799	CG	GLN	A	243	-11.772	20.440	2.406	1.00133.91			C
ANISOU	1799	CG	GLN	A	243	27044	11655	12181	-2876	-3659	-3112	C
ATOM	1800	CD	GLN	A	243	-12.601	21.678	2.674	1.00144.61			C
ANISOU	1800	CD	GLN	A	243	28405	12959	13580	-2658	-4020	-3130	C
ATOM	1801	OE1	GLN	A	243	-12.092	22.693	3.153	1.00148.82			O
ANISOU	1801	OE1	GLN	A	243	29209	13390	13944	-3001	-3915	-2861	O
ATOM	1802	NE2	GLN	A	243	-13.890	21.601	2.365	1.00145.05			N
ANISOU	1802	NE2	GLN	A	243	28174	13071	13867	-2118	-4435	-3465	N
ATOM	1803	N	PRO	A	244	-10.118	20.271	-0.930	1.00150.39			N
ANISOU	1803	N	PRO	A	244	31706	12871	12563	-2643	-3050	-2811	N
ATOM	1804	CA	PRO	A	244	-10.751	19.883	-2.195	1.00152.29			C
ANISOU	1804	CA	PRO	A	244	32376	12963	12525	-2033	-3297	-3007	C
ATOM	1805	C	PRO	A	244	-11.969	18.990	-1.991	1.00149.33			C
ANISOU	1805	C	PRO	A	244	31072	12898	12769	-1625	-3751	-3431	C
ATOM	1806	O	PRO	A	244	-12.365	18.726	-0.856	1.00136.35			O
ANISOU	1806	O	PRO	A	244	28483	11568	11757	-1786	-3844	-3563	O
ATOM	1807	CB	PRO	A	244	-9.647	19.098	-2.914	1.00150.42			C
ANISOU	1807	CB	PRO	A	244	32734	12568	11851	-2211	-2664	-2927	C
ATOM	1808	CG	PRO	A	244	-8.378	19.395	-2.160	1.00152.46			C
ANISOU	1808	CG	PRO	A	244	33085	12810	12033	-2952	-2064	-2644	C
ATOM	1809	CD	PRO	A	244	-8.808	19.626	-0.754	1.00144.76			C
ANISOU	1809	CD	PRO	A	244	31126	12149	11726	-3196	-2383	-2669	C
ATOM	1810	N	TRP	A	245	-12.551	18.527	-3.092	1.00157.04			N
ANISOU	1810	NA	TRP	A	245	32347	13779	13543	-1140	-3995	-3644	N
ATOM	1811	CA	TRP	A	245	-13.714	17.650	-3.040	1.00163.09			C
ANISOU	1811	CA	TRP	A	245	32306	14810	14850	-810	-4385	-4079	C
ATOM	1812	C	TRP	A	245	-13.339	16.263	-2.530	1.00149.61			C
ANISOU	1812	C	TRP	A	245	29962	13318	13565	-1049	-4025	-4253	C
ATOM	1813	O	TRP	A	245	-14.195	15.521	-2.050	1.00143.89			O
ANISOU	1813	O	TRP	A	245	28381	12855	13437	-966	-4220	-4590	O
ATOM	1814	CB	TRP	A	245	-14.362	17.539	-4.423	1.00181.32			C
ANISOU	1814	CB	TRP	A	245	35194	16930	16770	-282	-4753	-4249	C
ATOM	1815	CG	TRP	A	245	-13.428	17.028	-5.478	1.00186.54			C
ANISOU	1815	CG	TRP	A	245	36717	17341	16818	-268	-4336	-4127	C
ATOM	1816	CD1	TRP	A	245	-12.657	17.775	-6.321	1.00188.21			C
ANISOU	1816	CD1	TRP	A	245	38076	17175	16258	-262	-4088	-3786	C
ATOM	1817	CD2	TRP	A	245	-13.160	15.656	-5.800	1.00181.49			C
ANISOU	1817	CD2	TRP	A	245	35905	16781	16274	-267	-4043	-4351	C
ATOM	1818	NE1	TRP	A	245	-11.928	16.955	-7.148	1.00184.48			N

ANISOU	1818	NE1	TRP	A	245	38139	16568	15387	-252	-3620	-3787	N
ATOM	1819	CE2	TRP	A	245	-12.218	15.651	-6.848	1.00183.53			C
ANISOU	1819	CE2	TRP	A	245	37226	16718	15790	-239	-3603	-4136	C
ATOM	1820	CE3	TRP	A	245	-13.626	14.435	-5.303	1.00179.49			C
ANISOU	1820	CE3	TRP	A	245	34740	16803	16656	-297	-4063	-4715	C
ATOM	1821	CZ2	TRP	A	245	-11.734	14.471	-7.408	1.00190.13			C
ANISOU	1821	CZ2	TRP	A	245	38219	17514	16507	-207	-3189	-4285	C
ATOM	1822	CZ3	TRP	A	245	-13.142	13.264	-5.862	1.00184.31			C
ANISOU	1822	CZ3	TRP	A	245	35529	17343	17157	-274	-3696	-4857	C
ATOM	1823	CH2	TRP	A	245	-12.207	13.291	-6.903	1.00189.97			C
ANISOU	1823	CH2	TRP	A	245	37295	17750	17134	-213	-3267	-4649	C
ATOM	1824	N	TYR	A	246	-12.059	15.918	-2.641	1.00150.59			N
ANISOU	1824	N	TYR	A	246	30556	13293	13369	-1364	-3451	-4025	N
ATOM	1825	CA	TYR	A	246	-11.588	14.590	-2.259	1.00154.24			C
ANISOU	1825	CA	TYR	A	246	30585	13854	14165	-1564	-3067	-4162	C
ATOM	1826	C	TYR	A	246	-10.942	14.568	-0.877	1.00153.23			C
ANISOU	1826	C	TYR	A	246	29915	13874	14434	-2114	-2779	-3976	C
ATOM	1827	O	TYR	A	246	-10.238	13.620	-0.523	1.00131.06			O
ANISOU	1827	O	TYR	A	246	26947	11047	11803	-2382	-2350	-3974	O
ATOM	1828	CB	TYR	A	246	-10.612	14.038	-3.303	1.00152.24			C
ANISOU	1828	CB	TYR	A	246	31193	13317	13336	-1535	-2535	-4084	C
ATOM	1829	CG	TYR	A	246	-9.392	14.902	-3.530	1.00154.08			C
ANISOU	1829	CG	TYR	A	246	32307	13299	12938	-1873	-2012	-3676	C
ATOM	1830	CD1	TYR	A	246	-8.272	14.788	-2.718	1.00150.59			C
ANISOU	1830	CD1	TYR	A	246	31714	12883	12619	-2445	-1410	-3441	C
ATOM	1831	CD2	TYR	A	246	-9.360	15.826	-4.563	1.00166.00			C
ANISOU	1831	CD2	TYR	A	246	34752	14554	13766	-1655	-2071	-3501	C
ATOM	1832	CE1	TYR	A	246	-7.158	15.575	-2.923	1.00143.81			C
ANISOU	1832	CE1	TYR	A	246	31186	12018	11438	-2748	-806	-2898	C
ATOM	1833	CE2	TYR	A	246	-8.249	16.614	-4.779	1.00171.94			C
ANISOU	1833	CE2	TYR	A	246	36331	15063	13935	-2014	-1503	-3141	C
ATOM	1834	CZ	TYR	A	246	-7.154	16.487	-3.955	1.00167.75			C
ANISOU	1834	CZ	TYR	A	246	35391	14686	13661	-2586	-850	-2860	C
ATOM	1835	OH	TYR	A	246	-6.049	17.274	-4.170	1.00172.72			O
ANISOU	1835	OH	TYR	A	246	36363	15275	13987	-2934	-189	-2327	O
ATOM	1836	N	PHE	A	247	-11.177	15.616	-0.097	1.00144.90			N
ANISOU	1836	N	PHE	A	247	28605	12939	13513	-2287	-3005	-3815	N
ATOM	1837	CA	PHE	A	247	-10.661	15.667	1.262	1.00143.19			C
ANISOU	1837	CA	PHE	A	247	27828	12901	13678	-2825	-2808	-3630	C
ATOM	1838	C	PHE	A	247	-11.376	14.655	2.151	1.00138.84			C
ANISOU	1838	C	PHE	A	247	26266	12629	13859	-2790	-2935	-3905	C
ATOM	1839	O	PHE	A	247	-10.808	14.156	3.124	1.00149.38			O
ANISOU	1839	O	PHE	A	247	27177	14068	15514	-3222	-2676	-3774	O
ATOM	1840	CB	PHE	A	247	-10.802	17.076	1.841	1.00152.54			C
ANISOU	1840	CB	PHE	A	247	29013	14137	14807	-2983	-3016	-3412	C
ATOM	1841	CG	PHE	A	247	-10.646	17.134	3.334	1.00145.38			C
ANISOU	1841	CG	PHE	A	247	27336	13508	14395	-3434	-2956	-3291	C
ATOM	1842	CD1	PHE	A	247	-9.398	17.016	3.920	1.00140.17			C
ANISOU	1842	CD1	PHE	A	247	26715	12852	13692	-4089	-2531	-2981	C
ATOM	1843	CD2	PHE	A	247	-11.751	17.300	4.153	1.00137.60			C
ANISOU	1843	CD2	PHE	A	247	25578	12785	13918	-3235	-3283	-3494	C
ATOM	1844	CE1	PHE	A	247	-9.256	17.063	5.294	1.00133.17			C
ANISOU	1844	CE1	PHE	A	247	25098	12256	13246	-4506	-2513	-2830	C
ATOM	1845	CE2	PHE	A	247	-11.614	17.351	5.527	1.00123.17			C
ANISOU	1845	CE2	PHE	A	247	23091	11215	12493	-3614	-3194	-3372	C
ATOM	1846	CZ	PHE	A	247	-10.366	17.232	6.097	1.00125.11			C
ANISOU	1846	CZ	PHE	A	247	23378	11490	12669	-4231	-2845	-3019	C
ATOM	1847	N	THR	A	248	-12.621	14.348	1.803	1.00128.61			N
ANISOU	1847	N	THR	A	248	24607	11440	12821	-2325	-3305	-4280	N
ATOM	1848	CA	THR	A	248	-13.445	13.447	2.601	1.00126.14			C
ANISOU	1848	CA	THR	A	248	23361	11373	13193	-2309	-3376	-4588	C
ATOM	1849	C	THR	A	248	-12.867	12.033	2.622	1.00119.63			C
ANISOU	1849	C	THR	A	248	22449	10453	12553	-2449	-3033	-4655	C
ATOM	1850	O	THR	A	248	-13.123	11.263	3.548	1.00116.82			O
ANISOU	1850	O	THR	A	248	21408	10235	12743	-2618	-2947	-4764	O
ATOM	1851	CB	THR	A	248	-14.895	13.414	2.086	1.00141.23			C
ANISOU	1851	CB	THR	A	248	24981	13392	15287	-1877	-3761	-4999	C
ATOM	1852	OG1	THR	A	248	-15.319	14.747	1.774	1.00154.20			O
ANISOU	1852	OG1	THR	A	248	26959	14997	16633	-1684	-4077	-4904	O
ATOM	1853	CG2	THR	A	248	-15.825	12.823	3.135	1.00142.17			C

ANISOU	1853	CG2	THR	A	248	24143	13787	16088	-1989	-3746	-5278	C
ATOM	1854	N	THR	A	249	-12.080	11.703	1.603	1.00122.74			N
ANISOU	1854	N	THR	A	249	23595	10571	12471	-2377	-2786	-4583	N
ATOM	1855	CA	THR	A	249	-11.427	10.401	1.527	1.00128.34			C
ANISOU	1855	CA	THR	A	249	24364	11102	13298	-2491	-2364	-4635	C
ATOM	1856	C	THR	A	249	-10.440	10.218	2.674	1.00119.70			C
ANISOU	1856	C	THR	A	249	22896	10101	12483	-3021	-1932	-4228	C
ATOM	1857	O	THR	A	249	-10.447	9.192	3.354	1.00117.88			O
ANISOU	1857	O	THR	A	249	22011	9983	12793	-3106	-1727	-4217	O
ATOM	1858	CB	THR	A	249	-10.683	10.223	0.195	1.00139.20			C
ANISOU	1858	CB	THR	A	249	26687	12162	14039	-2304	-2035	-4601	C
ATOM	1859	OG1	THR	A	249	-11.613	10.329	-0.889	1.00131.24			O
ANISOU	1859	OG1	THR	A	249	25870	11173	12821	-1798	-2438	-4883	O
ATOM	1860	CG2	THR	A	249	-10.001	8.865	0.142	1.00139.66			C
ANISOU	1860	CG2	THR	A	249	26571	12141	14351	-2327	-1445	-4555	C
ATOM	1861	N	THR	A	250	-9.594	11.221	2.882	1.00119.50			N
ANISOU	1861	N	THR	A	250	22981	10219	12207	-3285	-1721	-3736	N
ATOM	1862	CA	THR	A	250	-8.616	11.191	3.962	1.00139.43			C
ANISOU	1862	CA	THR	A	250	24798	13089	15092	-3697	-1293	-3166	C
ATOM	1863	C	THR	A	250	-9.303	11.382	5.311	1.00124.02			C
ANISOU	1863	C	THR	A	250	22249	11316	13558	-3960	-1667	-3269	C
ATOM	1864	O	THR	A	250	-8.918	10.769	6.308	1.00111.01			O
ANISOU	1864	O	THR	A	250	19900	9916	12364	-4189	-1427	-2997	O
ATOM	1865	CB	THR	A	250	-7.543	12.284	3.779	1.00144.71			C
ANISOU	1865	CB	THR	A	250	25757	13847	15378	-3958	-989	-2659	C
ATOM	1866	OG1	THR	A	250	-7.015	12.219	2.448	1.00153.09			O
ANISOU	1866	OG1	THR	A	250	27499	14695	15975	-3706	-630	-2611	O
ATOM	1867	CG2	THR	A	250	-6.413	12.099	4.781	1.00139.42			C
ANISOU	1867	CG2	THR	A	250	24306	13561	15107	-4358	-538	-2077	C
ATOM	1868	N	TYR	A	251	-10.325	12.232	5.329	1.00112.53			N
ANISOU	1868	N	TYR	A	251	21104	9718	11933	-3899	-2247	-3663	N
ATOM	1869	CA	TYR	A	251	-11.082	12.520	6.543	1.00125.71			C
ANISOU	1869	CA	TYR	A	251	22053	11671	14039	-3978	-2500	-3716	C
ATOM	1870	C	TYR	A	251	-11.724	11.262	7.115	1.00126.43			C
ANISOU	1870	C	TYR	A	251	21493	11836	14707	-3896	-2467	-3972	C
ATOM	1871	O	TYR	A	251	-11.694	11.036	8.324	1.00116.21			O
ANISOU	1871	O	TYR	A	251	19645	10733	13775	-4195	-2380	-3821	O
ATOM	1872	CB	TYR	A	251	-12.162	13.563	6.247	1.00125.91			C
ANISOU	1872	CB	TYR	A	251	22065	11791	13986	-3550	-2890	-3934	C
ATOM	1873	CG	TYR	A	251	-12.999	13.974	7.441	1.00125.07			C
ANISOU	1873	CG	TYR	A	251	21235	11975	14311	-3563	-3025	-4023	C
ATOM	1874	CD1	TYR	A	251	-12.618	15.040	8.244	1.00132.12			C
ANISOU	1874	CD1	TYR	A	251	22105	12991	15103	-3848	-3019	-3718	C
ATOM	1875	CD2	TYR	A	251	-14.181	13.309	7.755	1.00129.06			C
ANISOU	1875	CD2	TYR	A	251	21114	12622	15301	-3324	-3093	-4440	C
ATOM	1876	CE1	TYR	A	251	-13.381	15.427	9.330	1.00133.26			C
ANISOU	1876	CE1	TYR	A	251	21663	13370	15600	-3828	-3085	-3830	C
ATOM	1877	CE2	TYR	A	251	-14.948	13.689	8.842	1.00134.50			C
ANISOU	1877	CE2	TYR	A	251	21214	13551	16337	-3367	-3104	-4559	C
ATOM	1878	CZ	TYR	A	251	-14.543	14.750	9.625	1.00134.68			C
ANISOU	1878	CZ	TYR	A	251	21264	13671	16238	-3582	-3111	-4258	C
ATOM	1879	OH	TYR	A	251	-15.299	15.140	10.708	1.00129.58			O
ANISOU	1879	OH	TYR	A	251	20097	13233	15903	-3601	-3087	-4403	O
ATOM	1880	N	ASN	A	252	-12.302	10.447	6.239	1.00109.74			N
ANISOU	1880	N	ASN	A	252	19467	9566	12661	-3501	-2518	-4351	N
ATOM	1881	CA	ASN	A	252	-13.028	9.257	6.665	1.00109.02			C
ANISOU	1881	CA	ASN	A	252	18792	9500	13130	-3416	-2476	-4660	C
ATOM	1882	C	ASN	A	252	-12.115	8.138	7.154	1.00108.37			C
ANISOU	1882	C	ASN	A	252	18701	9240	13237	-3800	-2066	-4426	C
ATOM	1883	O	ASN	A	252	-12.580	7.159	7.735	1.00119.75			O
ANISOU	1883	O	ASN	A	252	19669	10668	15162	-3829	-1972	-4581	O
ATOM	1884	CB	ASN	A	252	-13.948	8.757	5.550	1.00137.60			C
ANISOU	1884	CB	ASN	A	252	22475	13040	16765	-2951	-2631	-5149	C
ATOM	1885	CG	ASN	A	252	-15.062	9.738	5.229	1.00136.25			C
ANISOU	1885	CG	ASN	A	252	22176	13091	16502	-2685	-2952	-5380	C
ATOM	1886	OD1	ASN	A	252	-15.441	10.563	6.062	1.00135.66			O
ANISOU	1886	OD1	ASN	A	252	21768	13235	16543	-2800	-3027	-5303	O
ATOM	1887	ND2	ASN	A	252	-15.595	9.650	4.016	1.00139.42			N
ANISOU	1887	ND2	ASN	A	252	22892	13414	16667	-2347	-3124	-5642	N
ATOM	1888	N	VAL	A	253	-10.816	8.291	6.916	1.00122.41			N

ANISOU	1888	N	VAL	A	253	20607	11131	14772	-3876	-1651	-3871	N
ATOM	1889	CA	VAL	A	253	-9.824	7.345	7.414	1.00115.98			C
ANISOU	1889	CA	VAL	A	253	19311	10479	14278	-3974	-1097	-3376	C
ATOM	1890	C	VAL	A	253	-9.378	7.741	8.820	1.00111.97			C
ANISOU	1890	C	VAL	A	253	18257	10313	13974	-4384	-1054	-2920	C
ATOM	1891	O	VAL	A	253	-9.172	6.887	9.682	1.00115.19			O
ANISOU	1891	O	VAL	A	253	18151	10833	14784	-4491	-831	-2694	O
ATOM	1892	CB	VAL	A	253	-8.599	7.272	6.484	1.00115.33			C
ANISOU	1892	CB	VAL	A	253	19512	10399	13909	-3823	-622	-2992	C
ATOM	1893	CG1	VAL	A	253	-7.552	6.325	7.050	1.00115.26			C
ANISOU	1893	CG1	VAL	A	253	18931	10575	14290	-3881	-77	-2467	C
ATOM	1894	CG2	VAL	A	253	-9.020	6.836	5.089	1.00117.21			C
ANISOU	1894	CG2	VAL	A	253	20373	10285	13878	-3414	-645	-3450	C
ATOM	1895	N	VAL	A	254	-9.234	9.045	9.042	1.00106.33			N
ANISOU	1895	N	VAL	A	254	17713	9736	12951	-4611	-1281	-2789	N
ATOM	1896	CA	VAL	A	254	-8.917	9.575	10.364	1.00107.55			C
ANISOU	1896	CA	VAL	A	254	17442	10199	13222	-5029	-1328	-2436	C
ATOM	1897	C	VAL	A	254	-10.122	9.408	11.286	1.00107.46			C
ANISOU	1897	C	VAL	A	254	17184	10147	13499	-5129	-1634	-2829	C
ATOM	1898	O	VAL	A	254	-9.985	9.000	12.438	1.00100.16			O
ANISOU	1898	O	VAL	A	254	15791	9413	12853	-5371	-1522	-2587	O
ATOM	1899	CB	VAL	A	254	-8.529	11.073	10.292	1.00103.67			C
ANISOU	1899	CB	VAL	A	254	17282	9800	12308	-5261	-1499	-2268	C
ATOM	1900	CG1	VAL	A	254	-8.121	11.608	11.662	1.00102.09			C
ANISOU	1900	CG1	VAL	A	254	16663	9923	12203	-5726	-1549	-1910	C
ATOM	1901	CG2	VAL	A	254	-7.411	11.285	9.289	1.00106.52			C
ANISOU	1901	CG2	VAL	A	254	17938	10158	12376	-5183	-1144	-1929	C
ATOM	1902	N	LYS	A	255	-11.300	9.711	10.749	1.00109.86			N
ANISOU	1902	N	LYS	A	255	17773	10223	13744	-4882	-1999	-3421	N
ATOM	1903	CA	LYS	A	255	-12.561	9.723	11.498	1.00111.65			C
ANISOU	1903	CA	LYS	A	255	17464	10605	14354	-4614	-2175	-3725	C
ATOM	1904	C	LYS	A	255	-12.757	8.617	12.552	1.00123.14			C
ANISOU	1904	C	LYS	A	255	18428	12091	16270	-4796	-1967	-3670	C
ATOM	1905	O	LYS	A	255	-13.236	8.901	13.649	1.00141.60			O
ANISOU	1905	O	LYS	A	255	20380	14622	18799	-4834	-2006	-3625	O
ATOM	1906	CB	LYS	A	255	-13.752	9.783	10.528	1.00109.55			C
ANISOU	1906	CB	LYS	A	255	17231	10237	14156	-4072	-2417	-4302	C
ATOM	1907	CG	LYS	A	255	-15.089	10.115	11.169	1.00122.13			C
ANISOU	1907	CG	LYS	A	255	18265	12027	16111	-3860	-2526	-4688	C
ATOM	1908	CD	LYS	A	255	-16.126	10.446	10.104	1.00139.74			C
ANISOU	1908	CD	LYS	A	255	20591	14304	18198	-3549	-2605	-5172	C
ATOM	1909	CE	LYS	A	255	-17.500	10.679	10.712	1.00158.78			C
ANISOU	1909	CE	LYS	A	255	22655	16977	20696	-3632	-2425	-5407	C
ATOM	1910	NZ	LYS	A	255	-18.012	9.458	11.396	1.00167.14			N
ANISOU	1910	NZ	LYS	A	255	23657	18029	21818	-3927	-2113	-5252	N
ATOM	1911	N	PRO	A	256	-12.394	7.359	12.234	1.00108.82			N
ANISOU	1911	N	PRO	A	256	14840	11838	14668	-4143	-1549	-1398	N
ATOM	1912	CA	PRO	A	256	-12.498	6.344	13.291	1.00 99.63			C
ANISOU	1912	CA	PRO	A	256	13345	10850	13661	-4230	-1501	-1340	C
ATOM	1913	C	PRO	A	256	-11.495	6.516	14.433	1.00 96.96			C
ANISOU	1913	C	PRO	A	256	12914	10528	13397	-4418	-1497	-1158	C
ATOM	1914	O	PRO	A	256	-11.710	5.941	15.501	1.00 88.11			O
ANISOU	1914	O	PRO	A	256	11596	9557	12323	-4511	-1521	-1110	O
ATOM	1915	CB	PRO	A	256	-12.213	5.034	12.549	1.00 97.92			C
ANISOU	1915	CB	PRO	A	256	13022	10576	13608	-4294	-1339	-1290	C
ATOM	1916	CG	PRO	A	256	-12.570	5.314	11.142	1.00105.33			C
ANISOU	1916	CG	PRO	A	256	14277	11366	14379	-4210	-1358	-1409	C
ATOM	1917	CD	PRO	A	256	-12.170	6.738	10.916	1.00113.25			C
ANISOU	1917	CD	PRO	A	256	15547	12255	15226	-4167	-1430	-1402	C
ATOM	1918	N	PHE	A	257	-10.426	7.281	14.223	1.00 90.06			N
ANISOU	1918	N	PHE	A	257	12193	9491	12535	-4507	-1496	-1032	N
ATOM	1919	CA	PHE	A	257	-9.421	7.463	15.269	1.00100.29			C
ANISOU	1919	CA	PHE	A	257	13407	10770	13927	-4743	-1582	-802	C
ATOM	1920	C	PHE	A	257	-9.943	8.396	16.348	1.00100.35			C
ANISOU	1920	C	PHE	A	257	13621	10854	13653	-4774	-1749	-912	C
ATOM	1921	O	PHE	A	257	-9.572	8.282	17.514	1.00 90.79			O
ANISOU	1921	O	PHE	A	257	12381	9697	12418	-5004	-1865	-775	O
ATOM	1922	CB	PHE	A	257	-8.120	8.046	14.709	1.00113.16			C
ANISOU	1922	CB	PHE	A	257	15112	12176	15708	-4848	-1541	-602	C
ATOM	1923	CG	PHE	A	257	-7.531	7.259	13.574	1.00124.52			C

ANISOU	1923	CG	PHE	A	257	16426	13464	17420	-4812	-1257	-512	C
ATOM	1924	CD1	PHE	A	257	-7.814	5.913	13.414	1.00132.34			C
ANISOU	1924	CD1	PHE	A	257	17185	14509	18590	-4780	-1095	-522	C
ATOM	1925	CD2	PHE	A	257	-6.685	7.872	12.666	1.00127.76			C
ANISOU	1925	CD2	PHE	A	257	16990	13648	17905	-4822	-1107	-423	C
ATOM	1926	CE1	PHE	A	257	-7.269	5.196	12.366	1.00137.42			C
ANISOU	1926	CE1	PHE	A	257	17793	14956	19464	-4755	-762	-471	C
ATOM	1927	CE2	PHE	A	257	-6.137	7.162	11.619	1.00136.83			C
ANISOU	1927	CE2	PHE	A	257	18094	14612	19285	-4798	-745	-362	C
ATOM	1928	CZ	PHE	A	257	-6.429	5.823	11.467	1.00139.29			C
ANISOU	1928	CZ	PHE	A	257	18215	14953	19757	-4762	-558	-398	C
ATOM	1929	N	LEU	A	258	-10.805	9.323	15.944	1.00	94.15		N
ANISOU	1929	N	LEU	A	258	13078	10039	12657	-4558	-1757	-1149	N
ATOM	1930	CA	LEU	A	258	-11.253	10.393	16.826	1.00	95.67		C
ANISOU	1930	CA	LEU	A	258	13536	10213	12601	-4553	-1827	-1283	C
ATOM	1931	C	LEU	A	258	-12.296	9.941	17.841	1.00	95.41		C
ANISOU	1931	C	LEU	A	258	13422	10348	12480	-4522	-1746	-1418	C
ATOM	1932	O	LEU	A	258	-13.180	9.142	17.531	1.00	95.27		O
ANISOU	1932	O	LEU	A	258	13159	10456	12581	-4363	-1658	-1499	O
ATOM	1933	CB	LEU	A	258	-11.803	11.564	16.005	1.00	92.19		C
ANISOU	1933	CB	LEU	A	258	13347	9627	12054	-4308	-1839	-1459	C
ATOM	1934	CG	LEU	A	258	-10.882	12.174	14.943	1.00105.72			C
ANISOU	1934	CG	LEU	A	258	15218	11152	13799	-4332	-1890	-1347	C
ATOM	1935	CD1	LEU	A	258	-11.539	13.382	14.299	1.00105.15			C
ANISOU	1935	CD1	LEU	A	258	15420	10931	13601	-4106	-1947	-1507	C
ATOM	1936	CD2	LEU	A	258	-9.525	12.547	15.522	1.00	92.78		C
ANISOU	1936	CD2	LEU	A	258	13661	9411	12181	-4630	-1978	-1125	C
ATOM	1937	N	LYS	A	259	-12.178	10.460	19.060	1.00	93.84		N
ANISOU	1937	N	LYS	A	259	13468	10130	12058	-4707	-1769	-1433	N
ATOM	1938	CA	LYS	A	259	-13.207	10.275	20.072	1.00102.41			C
ANISOU	1938	CA	LYS	A	259	14591	11321	12999	-4679	-1604	-1596	C
ATOM	1939	C	LYS	A	259	-14.349	11.237	19.787	1.00103.01			C
ANISOU	1939	C	LYS	A	259	14802	11293	13045	-4344	-1434	-1867	C
ATOM	1940	O	LYS	A	259	-14.194	12.180	19.011	1.00	96.69		O
ANISOU	1940	O	LYS	A	259	14154	10324	12259	-4202	-1509	-1911	O
ATOM	1941	CB	LYS	A	259	-12.657	10.531	21.477	1.00125.53			C
ANISOU	1941	CB	LYS	A	259	17857	14215	15625	-5046	-1668	-1524	C
ATOM	1942	CG	LYS	A	259	-11.636	9.516	21.960	1.00144.33			C
ANISOU	1942	CG	LYS	A	259	20060	16689	18092	-5408	-1885	-1195	C
ATOM	1943	CD	LYS	A	259	-11.569	9.498	23.482	1.00157.19			C
ANISOU	1943	CD	LYS	A	259	22026	18330	19367	-5777	-1938	-1151	C
ATOM	1944	CE	LYS	A	259	-11.398	10.900	24.051	1.00158.73			C
ANISOU	1944	CE	LYS	A	259	22828	18307	19175	-5918	-1970	-1289	C
ATOM	1945	NZ	LYS	A	259	-11.492	10.916	25.537	1.00167.11			N
ANISOU	1945	NZ	LYS	A	259	24360	19349	19787	-6300	-1965	-1303	N
ATOM	1946	N	SER	A	260	-15.491	10.999	20.421	1.00110.76			N
ANISOU	1946	N	SER	A	260	15703	12351	14031	-4219	-1191	-2022	N
ATOM	1947	CA	SER	A	260	-16.668	11.833	20.217	1.00120.37			C
ANISOU	1947	CA	SER	A	260	16947	13438	15352	-3874	-985	-2240	C
ATOM	1948	C	SER	A	260	-16.391	13.289	20.571	1.00117.88			C
ANISOU	1948	C	SER	A	260	17124	12853	14811	-3880	-929	-2367	C
ATOM	1949	O	SER	A	260	-16.915	14.197	19.931	1.00114.84			O
ANISOU	1949	O	SER	A	260	16775	12286	14575	-3591	-897	-2470	O
ATOM	1950	CB	SER	A	260	-17.844	11.303	21.038	1.00142.26			C
ANISOU	1950	CB	SER	A	260	19539	16308	18204	-3782	-655	-2353	C
ATOM	1951	OG	SER	A	260	-17.473	11.116	22.392	1.00154.88			O
ANISOU	1951	OG	SER	A	260	21443	17941	19462	-4104	-510	-2362	O
ATOM	1952	N	LYS	A	261	-15.554	13.501	21.583	1.00126.38			N
ANISOU	1952	N	LYS	A	261	18599	13883	15535	-4236	-956	-2336	N
ATOM	1953	CA	LYS	A	261	-15.224	14.847	22.038	1.00127.48			C
ANISOU	1953	CA	LYS	A	261	19296	13741	15401	-4318	-916	-2463	C
ATOM	1954	C	LYS	A	261	-14.519	15.662	20.960	1.00113.01			C
ANISOU	1954	C	LYS	A	261	17523	11756	13659	-4244	-1191	-2379	C
ATOM	1955	O	LYS	A	261	-14.910	16.794	20.679	1.00106.80			O
ANISOU	1955	O	LYS	A	261	16957	10725	12896	-4024	-1097	-2533	O
ATOM	1956	CB	LYS	A	261	-14.355	14.795	23.297	1.00141.14			C
ANISOU	1956	CB	LYS	A	261	21475	15451	16701	-4815	-1008	-2388	C
ATOM	1957	CG	LYS	A	261	-13.981	16.168	23.843	1.00159.44			C
ANISOU	1957	CG	LYS	A	261	24463	17444	18673	-4973	-992	-2527	C
ATOM	1958	CD	LYS	A	261	-13.068	16.063	25.058	1.00170.29			C

ANISOU	1958	CD	LYS	A	261	26326	18787	19589	-5552	-1196	-2401	C
ATOM	1959	CE	LYS	A	261	-11.710	15.480	24.688	1.00168.83			C
ANISOU	1959	CE	LYS	A	261	25879	18732	19535	-5866	-1720	-2001	C
ATOM	1960	NZ	LYS	A	261	-10.830	15.293	25.879	1.00161.05			N
ANISOU	1960	NZ	LYS	A	261	25306	17713	18173	-6470	-2022	-1795	N
ATOM	1961	N	LEU	A	262	-13.482	15.085	20.361	1.00105.17			N
ANISOU	1961	N	LEU	A	262	16331	10880	12747	-4426	-1494	-2125	N
ATOM	1962	CA	LEU	A	262	-12.683	15.798	19.366	1.00112.32			C
ANISOU	1962	CA	LEU	A	262	17316	11638	13724	-4411	-1716	-2014	C
ATOM	1963	C	LEU	A	262	-13.342	15.826	17.989	1.00112.71			C
ANISOU	1963	C	LEU	A	262	17097	11684	14043	-4039	-1711	-2050	C
ATOM	1964	O	LEU	A	262	-13.238	16.818	17.265	1.00118.63			O
ANISOU	1964	O	LEU	A	262	18031	12235	14809	-3913	-1794	-2070	O
ATOM	1965	CB	LEU	A	262	-11.280	15.193	19.259	1.00116.22			C
ANISOU	1965	CB	LEU	A	262	17689	12206	14265	-4753	-1970	-1702	C
ATOM	1966	CG	LEU	A	262	-10.354	15.854	18.234	1.00	98.94		C
ANISOU	1966	CG	LEU	A	262	15556	9856	12182	-4770	-2140	-1553	C
ATOM	1967	CD1	LEU	A	262	-10.163	17.329	18.546	1.00101.44			C
ANISOU	1967	CD1	LEU	A	262	16367	9899	12277	-4830	-2206	-1653	C
ATOM	1968	CD2	LEU	A	262	-9.015	15.142	18.168	1.00	97.97		C
ANISOU	1968	CD2	LEU	A	262	15209	9783	12233	-5083	-2310	-1211	C
ATOM	1969	N	LEU	A	263	-14.015	14.737	17.633	1.00103.06			N
ANISOU	1969	N	LEU	A	263	15475	10668	13016	-3901	-1650	-2040	N
ATOM	1970	CA	LEU	A	263	-14.674	14.636	16.337	1.00105.93			C
ANISOU	1970	CA	LEU	A	263	15622	11027	13600	-3621	-1718	-2044	C
ATOM	1971	C	LEU	A	263	-15.666	15.774	16.153	1.00121.60			C
ANISOU	1971	C	LEU	A	263	17730	12802	15671	-3315	-1663	-2199	C
ATOM	1972	O	LEU	A	263	-15.805	16.322	15.061	1.00125.49			O
ANISOU	1972	O	LEU	A	263	18261	13161	16257	-3159	-1828	-2157	O
ATOM	1973	CB	LEU	A	263	-15.392	13.293	16.203	1.00	99.63		C
ANISOU	1973	CB	LEU	A	263	14413	10460	12982	-3557	-1668	-2027	C
ATOM	1974	CG	LEU	A	263	-15.145	12.506	14.915	1.00	94.63		C
ANISOU	1974	CG	LEU	A	263	13609	9886	12459	-3560	-1817	-1903	C
ATOM	1975	CD1	LEU	A	263	-16.011	11.264	14.888	1.00	96.60		C
ANISOU	1975	CD1	LEU	A	263	13495	10329	12882	-3502	-1780	-1912	C
ATOM	1976	CD2	LEU	A	263	-15.397	13.364	13.689	1.00	98.51		C
ANISOU	1976	CD2	LEU	A	263	14269	10189	12970	-3386	-1982	-1907	C
ATOM	1977	N	GLU	A	264	-16.344	16.133	17.237	1.00102.65			N
ANISOU	1977	N	GLU	A	264	15412	10342	13248	-3241	-1409	-2365	N
ATOM	1978	CA	GLU	A	264	-17.333	17.200	17.205	1.00130.21			C
ANISOU	1978	CA	GLU	A	264	18977	13581	16915	-2921	-1266	-2510	C
ATOM	1979	C	GLU	A	264	-16.673	18.572	17.177	1.00107.31			C
ANISOU	1979	C	GLU	A	264	16550	10386	13838	-2962	-1326	-2553	C
ATOM	1980	O	GLU	A	264	-17.325	19.576	16.895	1.00109.98			O
ANISOU	1980	O	GLU	A	264	16971	10458	14360	-2689	-1268	-2632	O
ATOM	1981	CB	GLU	A	264	-18.276	17.081	18.403	1.00135.88			C
ANISOU	1981	CB	GLU	A	264	19644	14290	17693	-2826	-853	-2687	C
ATOM	1982	CG	GLU	A	264	-19.143	15.829	18.373	1.00156.84			C
ANISOU	1982	CG	GLU	A	264	21782	17199	20611	-2735	-782	-2635	C
ATOM	1983	CD	GLU	A	264	-19.759	15.507	19.722	1.00182.11			C
ANISOU	1983	CD	GLU	A	264	24990	20437	23766	-2765	-334	-2782	C
ATOM	1984	OE1	GLU	A	264	-19.633	16.334	20.650	1.00197.21			O
ANISOU	1984	OE1	GLU	A	264	27354	22139	25439	-2829	-44	-2953	O
ATOM	1985	OE2	GLU	A	264	-20.363	14.421	19.854	1.00182.84			O
ANISOU	1985	OE2	GLU	A	264	24684	20750	24039	-2750	-257	-2730	O
ATOM	1986	N	ARG	A	265	-15.375	18.610	17.463	1.00110.74			N
ANISOU	1986	N	ARG	A	265	17267	10844	13966	-3312	-1460	-2470	N
ATOM	1987	CA	ARG	A	265	-14.634	19.868	17.483	1.00118.54			C
ANISOU	1987	CA	ARG	A	265	18717	11552	14771	-3418	-1554	-2485	C
ATOM	1988	C	ARG	A	265	-13.913	20.128	16.160	1.00111.15			C
ANISOU	1988	C	ARG	A	265	17761	10574	13897	-3431	-1855	-2292	C
ATOM	1989	O	ARG	A	265	-13.255	21.157	15.996	1.00106.62			O
ANISOU	1989	O	ARG	A	265	17532	9768	13210	-3521	-1967	-2263	O
ATOM	1990	CB	ARG	A	265	-13.637	19.898	18.648	1.00120.71			C
ANISOU	1990	CB	ARG	A	265	19354	11819	14690	-3844	-1564	-2473	C
ATOM	1991	CG	ARG	A	265	-14.274	19.905	20.036	1.00110.84			C
ANISOU	1991	CG	ARG	A	265	18345	10522	13249	-3896	-1231	-2694	C
ATOM	1992	CD	ARG	A	265	-13.222	20.098	21.120	1.00112.24			C
ANISOU	1992	CD	ARG	A	265	19012	10630	13002	-4393	-1349	-2652	C
ATOM	1993	NE	ARG	A	265	-13.764	19.969	22.470	1.00115.38			N

ANISOU	1993	NE	ARG	A	265	19731	10990	13119	-4525	-1024	-2854	N
ATOM	1994	CZ	ARG	A	265	-14.386	20.945	23.122	1.00130.76			C
ANISOU	1994	CZ	ARG	A	265	22166	12616	14901	-4429	-667	-3142	C
ATOM	1995	NH1	ARG	A	265	-14.557	22.127	22.546	1.00141.03			N
ANISOU	1995	NH1	ARG	A	265	23641	13607	16338	-4178	-631	-3246	N
ATOM	1996	NH2	ARG	A	265	-14.844	20.738	24.350	1.00137.77			N
ANISOU	1996	NH2	ARG	A	265	23394	13462	15490	-4587	-311	-3325	N
ATOM	1997	N	VAL	A	266	-14.040	19.191	15.223	1.00103.22			N
ANISOU	1997	N	VAL	A	266	16398	9771	13049	-3365	-1963	-2164	N
ATOM	1998	CA	VAL	A	266	-13.442	19.341	13.899	1.00111.49			C
ANISOU	1998	CA	VAL	A	266	17479	10765	14118	-3387	-2177	-1996	C
ATOM	1999	C	VAL	A	266	-14.406	20.052	12.954	1.00122.08			C
ANISOU	1999	C	VAL	A	266	18834	11926	15625	-3071	-2289	-2021	C
ATOM	2000	O	VAL	A	266	-15.538	19.609	12.762	1.00122.73			O
ANISOU	2000	O	VAL	A	266	18633	12080	15919	-2847	-2285	-2060	O
ATOM	2001	CB	VAL	A	266	-13.043	17.979	13.295	1.00114.69			C
ANISOU	2001	CB	VAL	A	266	17594	11416	14568	-3511	-2206	-1853	C
ATOM	2002	CG1	VAL	A	266	-12.468	18.163	11.902	1.00	98.96		C
ANISOU	2002	CG1	VAL	A	266	15728	9321	12552	-3545	-2336	-1706	C
ATOM	2003	CG2	VAL	A	266	-12.043	17.271	14.191	1.00115.43			C
ANISOU	2003	CG2	VAL	A	266	17615	11652	14591	-3823	-2137	-1760	C
ATOM	2004	N	PHE	A	267	-13.955	21.157	12.370	1.00105.08			N
ANISOU	2004	N	PHE	A	267	16995	9523	13407	-3073	-2424	-1961	N
ATOM	2005	CA	PHE	A	267	-14.806	21.957	11.496	1.00111.42			C
ANISOU	2005	CA	PHE	A	267	17848	10107	14381	-2799	-2589	-1937	C
ATOM	2006	C	PHE	A	267	-14.245	22.065	10.081	1.00111.59			C
ANISOU	2006	C	PHE	A	267	18038	10069	14293	-2901	-2831	-1743	C
ATOM	2007	O	PHE	A	267	-13.071	22.384	9.890	1.00113.72			O
ANISOU	2007	O	PHE	A	267	18558	10278	14375	-3131	-2827	-1655	O
ATOM	2008	CB	PHE	A	267	-15.006	23.358	12.079	1.00124.46			C
ANISOU	2008	CB	PHE	A	267	19783	11427	16080	-2664	-2513	-2054	C
ATOM	2009	CG	PHE	A	267	-15.666	23.366	13.429	1.00147.57			C
ANISOU	2009	CG	PHE	A	267	22646	14335	19087	-2553	-2194	-2274	C
ATOM	2010	CD1	PHE	A	267	-16.976	22.938	13.578	1.00160.92			C
ANISOU	2010	CD1	PHE	A	267	23963	16074	21104	-2265	-2066	-2337	C
ATOM	2011	CD2	PHE	A	267	-14.982	23.814	14.547	1.00153.69			C
ANISOU	2011	CD2	PHE	A	267	23768	15017	19609	-2767	-2016	-2405	C
ATOM	2012	CE1	PHE	A	267	-17.588	22.949	14.818	1.00163.50			C
ANISOU	2012	CE1	PHE	A	267	24262	16356	21505	-2167	-1679	-2545	C
ATOM	2013	CE2	PHE	A	267	-15.590	23.828	15.790	1.00159.05			C
ANISOU	2013	CE2	PHE	A	267	24501	15645	20285	-2704	-1672	-2626	C
ATOM	2014	CZ	PHE	A	267	-16.893	23.395	15.925	1.00160.37			C
ANISOU	2014	CZ	PHE	A	267	24294	15859	20780	-2391	-1459	-2706	C
ATOM	2015	N	VAL	A	268	-15.097	21.800	9.094	1.00116.23			N
ANISOU	2015	N	VAL	A	268	18508	10654	15001	-2757	-3044	-1657	N
ATOM	2016	CA	VAL	A	268	-14.720	21.910	7.688	1.00121.92			C
ANISOU	2016	CA	VAL	A	268	19485	11284	15556	-2875	-3276	-1479	C
ATOM	2017	C	VAL	A	268	-15.516	23.021	7.011	1.00141.43			C
ANISOU	2017	C	VAL	A	268	22101	13458	18177	-2669	-3580	-1382	C
ATOM	2018	O	VAL	A	268	-16.747	22.987	6.993	1.00150.95			O
ANISOU	2018	O	VAL	A	268	23040	14626	19688	-2434	-3738	-1366	O
ATOM	2019	CB	VAL	A	268	-14.962	20.591	6.935	1.00115.65			C
ANISOU	2019	CB	VAL	A	268	18552	10698	14692	-2977	-3347	-1419	C
ATOM	2020	CG1	VAL	A	268	-14.715	20.784	5.450	1.00124.12			C
ANISOU	2020	CG1	VAL	A	268	20008	11620	15532	-3118	-3579	-1250	C
ATOM	2021	CG2	VAL	A	268	-14.074	19.489	7.489	1.00103.99			C
ANISOU	2021	CG2	VAL	A	268	16933	9466	13112	-3182	-3044	-1474	C
ATOM	2022	N	HIS	A	269	-14.809	24.000	6.452	1.00144.06			N
ANISOU	2022	N	HIS	A	269	22828	13563	18347	-2766	-3672	-1282	N
ATOM	2023	CA	HIS	A	269	-15.448	25.186	5.888	1.00148.19			C
ANISOU	2023	CA	HIS	A	269	23518	13758	19030	-2582	-3967	-1165	C
ATOM	2024	C	HIS	A	269	-15.442	25.202	4.359	1.00154.59			C
ANISOU	2024	C	HIS	A	269	24629	14472	19635	-2729	-4322	-929	C
ATOM	2025	O	HIS	A	269	-16.470	25.454	3.730	1.00158.03			O
ANISOU	2025	O	HIS	A	269	25013	14762	20270	-2588	-4700	-777	O
ATOM	2026	CB	HIS	A	269	-14.778	26.455	6.421	1.00142.87			C
ANISOU	2026	CB	HIS	A	269	23124	12828	18332	-2580	-3847	-1218	C
ATOM	2027	CG	HIS	A	269	-14.713	26.525	7.917	1.00133.20			C
ANISOU	2027	CG	HIS	A	269	21761	11644	17204	-2511	-3513	-1455	C
ATOM	2028	ND1	HIS	A	269	-15.692	27.125	8.676	1.00129.77			N

ANISOU	2028	ND1	HIS	A	269	21190	11016	17101	-2205	-3412	-1587	N
ATOM	2029	CD2	HIS	A	269	-13.782	26.070	8.788	1.00125.02			C
ANISOU	2029	CD2	HIS	A	269	20739	10788	15973	-2738	-3255	-1564	C
ATOM	2030	CE1	HIS	A	269	-15.369	27.036	9.955	1.00126.83			C
ANISOU	2030	CE1	HIS	A	269	20833	10706	16650	-2267	-3081	-1802	C
ATOM	2031	NE2	HIS	A	269	-14.216	26.401	10.050	1.00125.00			N
ANISOU	2031	NE2	HIS	A	269	20688	10710	16098	-2603	-3032	-1774	N
ATOM	2032	N	GLY	A	270	-14.280	24.942	3.768	1.00152.18			N
ANISOU	2032	N	GLY	A	270	24653	14220	18949	-3032	-4195	-875	N
ATOM	2033	CA	GLY	A	270	-14.145	24.953	2.324	1.00156.74			C
ANISOU	2033	CA	GLY	A	270	25647	14681	19228	-3233	-4444	-673	C
ATOM	2034	C	GLY	A	270	-13.827	26.334	1.791	1.00171.79			C
ANISOU	2034	C	GLY	A	270	27953	16255	21065	-3253	-4625	-517	C
ATOM	2035	O	GLY	A	270	-12.705	26.819	1.928	1.00175.58			O
ANISOU	2035	O	GLY	A	270	28650	16666	21398	-3401	-4378	-521	O
ATOM	2036	N	ASP	A	271	-14.821	26.970	1.179	1.00188.01			N
ANISOU	2036	N	ASP	A	271	30082	18083	23268	-3117	-5088	-344	N
ATOM	2037	CA	ASP	A	271	-14.663	28.327	0.665	1.00199.07			C
ANISOU	2037	CA	ASP	A	271	31849	19132	24656	-3113	-5320	-165	C
ATOM	2038	C	ASP	A	271	-15.733	29.248	1.244	1.00200.62			C
ANISOU	2038	C	ASP	A	271	31747	19088	25393	-2733	-5547	-144	C
ATOM	2039	O	ASP	A	271	-15.729	30.456	1.000	1.00203.62			O
ANISOU	2039	O	ASP	A	271	32358	19131	25878	-2661	-5734	-8	O
ATOM	2040	CB	ASP	A	271	-14.720	28.337	-0.864	1.00202.76			C
ANISOU	2040	CB	ASP	A	271	32822	19460	24755	-3376	-5701	106	C
ATOM	2041	CG	ASP	A	271	-13.565	27.582	-1.494	1.00200.45			C
ANISOU	2041	CG	ASP	A	271	32920	19311	23930	-3751	-5352	78	C
ATOM	2042	OD1	ASP	A	271	-12.444	27.637	-0.942	1.00197.13			O
ANISOU	2042	OD1	ASP	A	271	32482	18960	23457	-3826	-4886	-44	O
ATOM	2043	OD2	ASP	A	271	-13.775	26.932	-2.539	1.00201.34			O
ANISOU	2043	OD2	ASP	A	271	33367	19436	23697	-3987	-5537	190	O
ATOM	2044	N	ASP	A	272	-16.648	28.666	2.011	1.00195.28			N
ANISOU	2044	N	ASP	A	272	30550	18556	25091	-2486	-5490	-270	N
ATOM	2045	CA	ASP	A	272	-17.696	29.430	2.676	1.00193.09			C
ANISOU	2045	CA	ASP	A	272	29919	18033	25413	-2090	-5562	-274	C
ATOM	2046	C	ASP	A	272	-17.309	29.679	4.129	1.00181.13			C
ANISOU	2046	C	ASP	A	272	28260	16546	24014	-1945	-5024	-597	C
ATOM	2047	O	ASP	A	272	-17.644	28.893	5.016	1.00183.07			O
ANISOU	2047	O	ASP	A	272	28137	17025	24395	-1846	-4738	-795	O
ATOM	2048	CB	ASP	A	272	-19.030	28.687	2.599	1.00201.13			C
ANISOU	2048	CB	ASP	A	272	30442	19141	26838	-1911	-5816	-175	C
ATOM	2049	CG	ASP	A	272	-20.182	29.495	3.162	1.00210.98			C
ANISOU	2049	CG	ASP	A	272	31270	20069	28822	-1477	-5865	-119	C
ATOM	2050	OD1	ASP	A	272	-20.105	30.742	3.137	1.00214.49			O
ANISOU	2050	OD1	ASP	A	272	31913	20139	29443	-1340	-5914	-48	O
ATOM	2051	OD2	ASP	A	272	-21.168	28.884	3.625	1.00214.19			O
ANISOU	2051	OD2	ASP	A	272	31139	20572	29671	-1269	-5825	-136	O
ATOM	2052	N	LEU	A	273	-16.600	30.778	4.364	1.00164.64			N
ANISOU	2052	N	LEU	A	273	26514	14202	21841	-1971	-4909	-638	N
ATOM	2053	CA	LEU	A	273	-16.104	31.104	5.695	1.00150.14			C
ANISOU	2053	CA	LEU	A	273	24696	12342	20008	-1929	-4455	-930	C
ATOM	2054	C	LEU	A	273	-17.056	32.052	6.417	1.00159.05			C
ANISOU	2054	C	LEU	A	273	25680	13095	21658	-1538	-4339	-1025	C
ATOM	2055	O	LEU	A	273	-16.623	32.977	7.104	1.00150.20			O
ANISOU	2055	O	LEU	A	273	24838	11709	20523	-1518	-4113	-1178	O
ATOM	2056	CB	LEU	A	273	-14.716	31.736	5.590	1.00143.32			C
ANISOU	2056	CB	LEU	A	273	24311	11391	18754	-2232	-4389	-919	C
ATOM	2057	CG	LEU	A	273	-13.748	31.035	4.634	1.00134.73			C
ANISOU	2057	CG	LEU	A	273	23416	10548	17228	-2599	-4471	-760	C
ATOM	2058	CD1	LEU	A	273	-12.435	31.793	4.539	1.00133.07			C
ANISOU	2058	CD1	LEU	A	273	23619	10188	16755	-2873	-4390	-702	C
ATOM	2059	CD2	LEU	A	273	-13.505	29.602	5.064	1.00123.11			C
ANISOU	2059	CD2	LEU	A	273	21653	9504	15618	-2725	-4226	-891	C
ATOM	2060	N	SER	A	274	-18.354	31.814	6.257	1.00176.40			N
ANISOU	2060	N	SER	A	274	27442	15235	24346	-1237	-4480	-922	N
ATOM	2061	CA	SER	A	274	-19.372	32.670	6.856	1.00186.50			C
ANISOU	2061	CA	SER	A	274	28500	16105	26256	-815	-4318	-970	C
ATOM	2062	C	SER	A	274	-19.455	32.481	8.367	1.00192.03			C
ANISOU	2062	C	SER	A	274	29100	16849	27012	-699	-3688	-1353	C
ATOM	2063	O	SER	A	274	-19.884	33.379	9.091	1.00197.04			O

ANISOU	2063	O	SER	A	274	29786	17082	27997	-428	-3364	-1502	O
ATOM	2064	CB	SER	A	274	-20.738	32.413	6.213	1.00185.20			C
ANISOU	2064	CB	SER	A	274	27816	15856	26695	-545	-4677	-680	C
ATOM	2065	OG	SER	A	274	-21.147	31.068	6.393	1.00176.42			O
ANISOU	2065	OG	SER	A	274	26301	15158	25574	-593	-4621	-726	O
ATOM	2066	N	GLY	A	275	-19.046	31.307	8.838	1.00189.63			N
ANISOU	2066	N	GLY	A	275	28696	17002	26355	-918	-3501	-1507	N
ATOM	2067	CA	GLY	A	275	-19.049	31.014	10.259	1.00186.04			C
ANISOU	2067	CA	GLY	A	275	28216	16625	25846	-892	-2943	-1848	C
ATOM	2068	C	GLY	A	275	-17.642	30.791	10.773	1.00174.24			C
ANISOU	2068	C	GLY	A	275	27144	15351	23708	-1313	-2822	-2004	C
ATOM	2069	O	GLY	A	275	-17.439	30.297	11.882	1.00177.74			O
ANISOU	2069	O	GLY	A	275	27616	15955	23960	-1424	-2460	-2242	O
ATOM	2070	N	PHE	A	276	-16.666	31.163	9.952	1.00156.63			N
ANISOU	2070	N	PHE	A	276	25237	13106	21168	-1568	-3140	-1834	N
ATOM	2071	CA	PHE	A	276	-15.262	30.963	10.278	1.00141.52			C
ANISOU	2071	CA	PHE	A	276	23650	11378	18743	-1986	-3091	-1889	C
ATOM	2072	C	PHE	A	276	-14.640	32.224	10.862	1.00147.37			C
ANISOU	2072	C	PHE	A	276	24897	11736	19361	-2083	-2985	-2006	C
ATOM	2073	O	PHE	A	276	-13.872	32.162	11.822	1.00152.37			O
ANISOU	2073	O	PHE	A	276	25775	12425	19694	-2355	-2800	-2165	O
ATOM	2074	CB	PHE	A	276	-14.493	30.523	9.031	1.00133.15			C
ANISOU	2074	CB	PHE	A	276	22629	10526	17437	-2239	-3424	-1622	C
ATOM	2075	CG	PHE	A	276	-13.002	30.503	9.210	1.00134.34			C
ANISOU	2075	CG	PHE	A	276	23068	10775	17199	-2648	-3385	-1597	C
ATOM	2076	CD1	PHE	A	276	-12.379	29.435	9.832	1.00130.05			C
ANISOU	2076	CD1	PHE	A	276	22368	10580	16464	-2888	-3219	-1660	C
ATOM	2077	CD2	PHE	A	276	-12.222	31.546	8.743	1.00144.89			C
ANISOU	2077	CD2	PHE	A	276	24797	11837	18418	-2801	-3534	-1470	C
ATOM	2078	CE1	PHE	A	276	-11.007	29.413	9.993	1.00129.48			C
ANISOU	2078	CE1	PHE	A	276	22481	10567	16146	-3266	-3215	-1571	C
ATOM	2079	CE2	PHE	A	276	-10.851	31.529	8.903	1.00143.73			C
ANISOU	2079	CE2	PHE	A	276	24848	11761	18003	-3187	-3508	-1397	C
ATOM	2080	CZ	PHE	A	276	-10.243	30.461	9.528	1.00133.78			C
ANISOU	2080	CZ	PHE	A	276	23384	10837	16611	-3417	-3356	-1435	C
ATOM	2081	N	TYR	A	277	-14.979	33.370	10.282	1.00151.65			N
ANISOU	2081	N	TYR	A	277	25614	11866	20139	-1885	-3142	-1905	N
ATOM	2082	CA	TYR	A	277	-14.412	34.643	10.714	1.00158.61			C
ANISOU	2082	CA	TYR	A	277	27013	12330	20922	-1977	-3076	-2000	C
ATOM	2083	C	TYR	A	277	-15.090	35.188	11.966	1.00165.90			C
ANISOU	2083	C	TYR	A	277	28084	12921	22027	-1756	-2632	-2327	C
ATOM	2084	O	TYR	A	277	-14.846	36.325	12.371	1.00155.94			O
ANISOU	2084	O	TYR	A	277	27289	11220	20741	-1776	-2529	-2446	O
ATOM	2085	CB	TYR	A	277	-14.460	35.664	9.576	1.00164.95			C
ANISOU	2085	CB	TYR	A	277	27978	12793	21902	-1871	-3419	-1745	C
ATOM	2086	CG	TYR	A	277	-13.493	35.346	8.461	1.00164.33			C
ANISOU	2086	CG	TYR	A	277	27979	12953	21506	-2197	-3763	-1460	C
ATOM	2087	CD1	TYR	A	277	-12.178	35.002	8.740	1.00157.50			C
ANISOU	2087	CD1	TYR	A	277	27299	12309	20234	-2622	-3715	-1464	C
ATOM	2088	CD2	TYR	A	277	-13.896	35.371	7.132	1.00167.22			C
ANISOU	2088	CD2	TYR	A	277	28244	13298	21996	-2101	-4121	-1165	C
ATOM	2089	CE1	TYR	A	277	-11.286	34.705	7.729	1.00152.64			C
ANISOU	2089	CE1	TYR	A	277	26739	11870	19388	-2903	-3918	-1203	C
ATOM	2090	CE2	TYR	A	277	-13.011	35.073	6.112	1.00160.78			C
ANISOU	2090	CE2	TYR	A	277	27582	12664	20842	-2419	-4343	-928	C
ATOM	2091	CZ	TYR	A	277	-11.707	34.740	6.417	1.00149.51			C
ANISOU	2091	CZ	TYR	A	277	26309	11439	19057	-2799	-4191	-959	C
ATOM	2092	OH	TYR	A	277	-10.818	34.442	5.411	1.00135.94			O
ANISOU	2092	OH	TYR	A	277	24727	9861	17063	-3097	-4304	-723	O
ATOM	2093	N	GLN	A	278	-15.943	34.368	12.571	1.00183.93			N
ANISOU	2093	N	GLN	A	278	30003	15394	24488	-1560	-2334	-2477	N
ATOM	2094	CA	GLN	A	278	-16.546	34.693	13.856	1.00201.31			C
ANISOU	2094	CA	GLN	A	278	32374	17318	26794	-1396	-1793	-2818	C
ATOM	2095	C	GLN	A	278	-15.728	34.046	14.962	1.00196.74			C
ANISOU	2095	C	GLN	A	278	32078	17012	25662	-1819	-1604	-3023	C
ATOM	2096	O	GLN	A	278	-15.402	34.685	15.959	1.00203.73			O
ANISOU	2096	O	GLN	A	278	33519	17603	26287	-1988	-1335	-3274	O
ATOM	2097	CB	GLN	A	278	-17.994	34.203	13.922	1.00214.17			C
ANISOU	2097	CB	GLN	A	278	33429	18955	28990	-942	-1528	-2839	C
ATOM	2098	CG	GLN	A	278	-18.975	35.015	13.090	1.00229.24			C

ANISOU	2098	CG	GLN	A	278	35066	20455	31578	-489	-1663	-2638	C
ATOM	2099	CD	GLN	A	278	-18.777	34.830	11.599	1.00235.45			C
ANISOU	2099	CD	GLN	A	278	35622	21436	32401	-552	-2328	-2236	C
ATOM	2100	OE1	GLN	A	278	-18.048	33.938	11.162	1.00231.05			O
ANISOU	2100	OE1	GLN	A	278	35025	21346	31418	-879	-2604	-2127	O
ATOM	2101	NE2	GLN	A	278	-19.425	35.676	10.807	1.00244.42			N
ANISOU	2101	NE2	GLN	A	278	36637	22179	34050	-251	-2572	-2002	N
ATOM	2102	N	GLU	A	279	-15.395	32.773	14.772	1.00181.45			N
ANISOU	2102	N	GLU	A	279	29788	15612	23544	-2013	-1770	-2899	N
ATOM	2103	CA	GLU	A	279	-14.565	32.048	15.725	1.00172.07			C
ANISOU	2103	CA	GLU	A	279	28791	14710	21878	-2441	-1689	-3006	C
ATOM	2104	C	GLU	A	279	-13.128	32.556	15.670	1.00174.66			C
ANISOU	2104	C	GLU	A	279	29565	14978	21820	-2899	-2002	-2890	C
ATOM	2105	O	GLU	A	279	-12.547	32.915	16.694	1.00190.04			O
ANISOU	2105	O	GLU	A	279	32016	16768	23423	-3224	-1904	-3048	O
ATOM	2106	CB	GLU	A	279	-14.609	30.546	15.442	1.00158.41			C
ANISOU	2106	CB	GLU	A	279	26514	13530	20146	-2495	-1792	-2868	C
ATOM	2107	CG	GLU	A	279	-16.014	29.970	15.389	1.00163.05			C
ANISOU	2107	CG	GLU	A	279	26591	14200	21159	-2074	-1556	-2923	C
ATOM	2108	CD	GLU	A	279	-16.790	30.199	16.673	1.00177.97			C
ANISOU	2108	CD	GLU	A	279	28656	15858	23109	-1925	-995	-3244	C
ATOM	2109	OE1	GLU	A	279	-16.191	30.082	17.762	1.00180.06			O
ANISOU	2109	OE1	GLU	A	279	29340	16147	22927	-2266	-811	-3423	O
ATOM	2110	OE2	GLU	A	279	-17.999	30.500	16.592	1.00189.18			O
ANISOU	2110	OE2	GLU	A	279	29803	17040	25035	-1483	-731	-3298	O
ATOM	2111	N	ILE	A	280	-12.562	32.587	14.467	1.00157.03			N
ANISOU	2111	N	ILE	A	280	27169	12850	19644	-2955	-2378	-2596	N
ATOM	2112	CA	ILE	A	280	-11.219	33.122	14.271	1.00145.15			C
ANISOU	2112	CA	ILE	A	280	26012	11259	17879	-3363	-2661	-2431	C
ATOM	2113	C	ILE	A	280	-11.256	34.401	13.446	1.00149.89			C
ANISOU	2113	C	ILE	A	280	26859	11447	18644	-3209	-2822	-2335	C
ATOM	2114	O	ILE	A	280	-11.539	34.373	12.248	1.00137.49			O
ANISOU	2114	O	ILE	A	280	25029	9927	17284	-3009	-3010	-2126	O
ATOM	2115	CB	ILE	A	280	-10.294	32.116	13.572	1.00134.57			C
ANISOU	2115	CB	ILE	A	280	24334	10346	16452	-3629	-2903	-2139	C
ATOM	2116	CG1	ILE	A	280	-10.206	30.820	14.379	1.00135.07			C
ANISOU	2116	CG1	ILE	A	280	24132	10801	16389	-3794	-2777	-2196	C
ATOM	2117	CG2	ILE	A	280	-8.912	32.719	13.387	1.00134.02			C
ANISOU	2117	CG2	ILE	A	280	24565	10145	16211	-4043	-3153	-1931	C
ATOM	2118	CD1	ILE	A	280	-9.502	30.977	15.709	1.00141.48			C
ANISOU	2118	CD1	ILE	A	280	25337	11528	16890	-4202	-2757	-2299	C
ATOM	2119	N	ASP	A	281	-10.962	35.520	14.100	1.00164.38			N
ANISOU	2119	N	ASP	A	281	29249	12853	20355	-3338	-2765	-2481	N
ATOM	2120	CA	ASP	A	281	-10.996	36.825	13.455	1.00169.00			C
ANISOU	2120	CA	ASP	A	281	30126	12982	21103	-3203	-2898	-2408	C
ATOM	2121	C	ASP	A	281	-9.996	36.909	12.304	1.00158.19			C
ANISOU	2121	C	ASP	A	281	28703	11730	19672	-3442	-3285	-2046	C
ATOM	2122	O	ASP	A	281	-8.858	36.457	12.422	1.00156.06			O
ANISOU	2122	O	ASP	A	281	28441	11693	19160	-3867	-3425	-1901	O
ATOM	2123	CB	ASP	A	281	-10.720	37.924	14.482	1.00186.22			C
ANISOU	2123	CB	ASP	A	281	32985	14675	23094	-3384	-2753	-2653	C
ATOM	2124	CG	ASP	A	281	-10.838	39.313	13.895	1.00207.48			C
ANISOU	2124	CG	ASP	A	281	35998	16839	25997	-3215	-2854	-2600	C
ATOM	2125	OD1	ASP	A	281	-11.561	39.477	12.889	1.00213.11			O
ANISOU	2125	OD1	ASP	A	281	36387	17495	27090	-2824	-2938	-2443	O
ATOM	2126	OD2	ASP	A	281	-10.211	40.243	14.444	1.00217.08			O
ANISOU	2126	OD2	ASP	A	281	37810	17674	26997	-3498	-2884	-2696	O
ATOM	2127	N	GLU	A	282	-10.438	37.484	11.191	1.00154.87			N
ANISOU	2127	N	GLU	A	282	28221	11122	19501	-3175	-3445	-1876	N
ATOM	2128	CA	GLU	A	282	-9.600	37.627	10.006	1.00154.26			C
ANISOU	2128	CA	GLU	A	282	28154	11108	19351	-3382	-3753	-1534	C
ATOM	2129	C	GLU	A	282	-8.427	38.565	10.265	1.00158.20			C
ANISOU	2129	C	GLU	A	282	29125	11325	19660	-3776	-3879	-1462	C
ATOM	2130	O	GLU	A	282	-7.323	38.352	9.762	1.00137.63			O
ANISOU	2130	O	GLU	A	282	26494	8882	16916	-4126	-4034	-1204	O
ATOM	2131	CB	GLU	A	282	-10.433	38.160	8.840	1.00160.24			C
ANISOU	2131	CB	GLU	A	282	28842	11653	20389	-3031	-3932	-1365	C
ATOM	2132	CG	GLU	A	282	-9.630	38.461	7.588	1.00167.27			C
ANISOU	2132	CG	GLU	A	282	29868	12530	21155	-3256	-4217	-1019	C
ATOM	2133	CD	GLU	A	282	-10.445	39.180	6.533	1.00181.33			C

ANISOU	2133	CD	GLU	A	282	31700	14013	23182	-2962	-4461	-832	C
ATOM	2134	OE1	GLU	A	282	-11.600	39.555	6.826	1.00183.73			O
ANISOU	2134	OE1	GLU	A	282	31902	14070	23839	-2565	-4414	-957	O
ATOM	2135	OE2	GLU	A	282	-9.929	39.370	5.412	1.00191.28			O
ANISOU	2135	OE2	GLU	A	282	33105	15264	24308	-3138	-4691	-537	O
ATOM	2136	N	ASN	A	283	-8.683	39.600	11.059	1.00160.33			N
ANISOU	2136	N	ASN	A	283	29828	11140	19951	-3724	-3783	-1688	N
ATOM	2137	CA	ASN	A	283	-7.704	40.642	11.348	1.00158.92			C
ANISOU	2137	CA	ASN	A	283	30148	10626	19609	-4083	-3926	-1636	C
ATOM	2138	C	ASN	A	283	-6.398	40.117	11.945	1.00155.33			C
ANISOU	2138	C	ASN	A	283	29557	10596	18864	-4558	-3975	-1495	C
ATOM	2139	O	ASN	A	283	-5.339	40.719	11.764	1.00152.53			O
ANISOU	2139	O	ASN	A	283	29282	10248	18427	-4841	-4139	-1252	O
ATOM	2140	CB	ASN	A	283	-8.320	41.692	12.276	1.00173.11			C
ANISOU	2140	CB	ASN	A	283	32362	11966	21446	-3895	-3691	-1953	C
ATOM	2141	CG	ASN	A	283	-7.380	42.848	12.558	1.00196.67			C
ANISOU	2141	CG	ASN	A	283	35678	14792	24255	-4171	-3784	-1859	C
ATOM	2142	OD1	ASN	A	283	-6.587	43.242	11.702	1.00213.35			O
ANISOU	2142	OD1	ASN	A	283	37746	16946	26371	-4343	-4047	-1535	O
ATOM	2143	ND2	ASN	A	283	-7.464	43.399	13.764	1.00196.79			N
ANISOU	2143	ND2	ASN	A	283	36059	14611	24100	-4232	-3555	-2140	N
ATOM	2144	N	ILE	A	284	-6.475	38.995	12.653	1.00155.48			N
ANISOU	2144	N	ILE	A	284	29353	10947	18777	-4643	-3855	-1615	N
ATOM	2145	CA	ILE	A	284	-5.297	38.422	13.294	1.00151.98			C
ANISOU	2145	CA	ILE	A	284	28739	10877	18131	-5077	-3941	-1441	C
ATOM	2146	C	ILE	A	284	-4.681	37.298	12.464	1.00153.68			C
ANISOU	2146	C	ILE	A	284	28468	11472	18453	-5215	-4035	-1142	C
ATOM	2147	O	ILE	A	284	-3.701	36.682	12.877	1.00152.01			O
ANISOU	2147	O	ILE	A	284	28010	11556	18189	-5544	-4107	-942	O
ATOM	2148	CB	ILE	A	284	-5.620	37.890	14.705	1.00143.96			C
ANISOU	2148	CB	ILE	A	284	27808	9988	16901	-5153	-3762	-1711	C
ATOM	2149	CG1	ILE	A	284	-6.424	36.593	14.623	1.00137.05			C
ANISOU	2149	CG1	ILE	A	284	26598	9358	16119	-4959	-3612	-1846	C
ATOM	2150	CG2	ILE	A	284	-6.373	38.934	15.509	1.00145.46			C
ANISOU	2150	CG2	ILE	A	284	28525	9752	16990	-4981	-3542	-2060	C
ATOM	2151	CD1	ILE	A	284	-6.788	36.020	15.972	1.00137.67			C
ANISOU	2151	CD1	ILE	A	284	26770	9565	15975	-5038	-3407	-2103	C
ATOM	2152	N	LEU	A	285	-5.254	37.042	11.291	1.00157.02			N
ANISOU	2152	N	LEU	A	285	28770	11849	19042	-4970	-4036	-1094	N
ATOM	2153	CA	LEU	A	285	-4.807	35.940	10.441	1.00152.26			C
ANISOU	2153	CA	LEU	A	285	27721	11616	18514	-5041	-4019	-846	C
ATOM	2154	C	LEU	A	285	-3.801	36.382	9.383	1.00148.07			C
ANISOU	2154	C	LEU	A	285	27236	10980	18042	-5269	-4133	-492	C
ATOM	2155	O	LEU	A	285	-3.933	37.462	8.809	1.00141.38			O
ANISOU	2155	O	LEU	A	285	26687	9826	17206	-5171	-4228	-441	O
ATOM	2156	CB	LEU	A	285	-6.007	35.264	9.774	1.00148.10			C
ANISOU	2156	CB	LEU	A	285	26897	11301	18071	-4590	-3881	-950	C
ATOM	2157	CG	LEU	A	285	-6.868	34.392	10.688	1.00147.42			C
ANISOU	2157	CG	LEU	A	285	26579	11453	17980	-4399	-3702	-1224	C
ATOM	2158	CD1	LEU	A	285	-8.116	33.923	9.959	1.00142.00			C
ANISOU	2158	CD1	LEU	A	285	25616	10895	17442	-3958	-3633	-1288	C
ATOM	2159	CD2	LEU	A	285	-6.058	33.207	11.192	1.00148.92			C
ANISOU	2159	CD2	LEU	A	285	26461	12014	18109	-4711	-3657	-1126	C
ATOM	2160	N	PRO	A	286	-2.786	35.540	9.123	1.00152.11			N
ANISOU	2160	N	PRO	A	286	27401	11768	18625	-5542	-4071	-225	N
ATOM	2161	CA	PRO	A	286	-1.781	35.798	8.087	1.00155.36			C
ANISOU	2161	CA	PRO	A	286	27764	12136	19131	-5737	-4047	133	C
ATOM	2162	C	PRO	A	286	-2.405	35.810	6.693	1.00154.91			C
ANISOU	2162	C	PRO	A	286	27810	12026	19022	-5487	-3969	173	C
ATOM	2163	O	PRO	A	286	-3.575	35.461	6.543	1.00150.78			O
ANISOU	2163	O	PRO	A	286	27239	11615	18436	-5129	-3946	-38	O
ATOM	2164	CB	PRO	A	286	-0.827	34.602	8.216	1.00128.50			C
ANISOU	2164	CB	PRO	A	286	23881	9047	15896	-5993	-3896	353	C
ATOM	2165	CG	PRO	A	286	-1.051	34.071	9.585	1.00127.48			C
ANISOU	2165	CG	PRO	A	286	23602	9110	15725	-6021	-3963	164	C
ATOM	2166	CD	PRO	A	286	-2.499	34.303	9.868	1.00127.11			C
ANISOU	2166	CD	PRO	A	286	23854	8944	15499	-5686	-3986	-232	C
ATOM	2167	N	SER	A	287	-1.631	36.201	5.687	1.00157.77			N
ANISOU	2167	N	SER	A	287	28285	12251	19407	-5671	-3923	468	N
ATOM	2168	CA	SER	A	287	-2.122	36.239	4.315	1.00159.02			C

ANISOU	2168	CA	SER	A	287	28604	12381	19436	-5487	-3859	549	C
ATOM	2169	C	SER	A	287	-2.323	34.822	3.786	1.00156.83			C
ANISOU	2169	C	SER	A	287	28013	12467	19110	-5399	-3594	537	C
ATOM	2170	O	SER	A	287	-3.121	34.597	2.882	1.00156.30			O
ANISOU	2170	O	SER	A	287	28073	12439	18878	-5196	-3603	504	O
ATOM	2171	CB	SER	A	287	-1.139	36.993	3.418	1.00163.95			C
ANISOU	2171	CB	SER	A	287	29478	12752	20064	-5766	-3817	879	C
ATOM	2172	OG	SER	A	287	0.022	36.214	3.173	1.00162.79			O
ANISOU	2172	OG	SER	A	287	29031	12763	20060	-6055	-3498	1122	O
ATOM	2173	N	ASP	A	288	-1.588	33.870	4.355	1.00155.57			N
ANISOU	2173	N	ASP	A	288	27460	12544	19107	-5577	-3390	586	N
ATOM	2174	CA	ASP	A	288	-1.675	32.473	3.945	1.00151.96			C
ANISOU	2174	CA	ASP	A	288	26694	12401	18644	-5515	-3097	571	C
ATOM	2175	C	ASP	A	288	-3.021	31.873	4.308	1.00150.84			C
ANISOU	2175	C	ASP	A	288	26444	12470	18396	-5177	-3206	264	C
ATOM	2176	O	ASP	A	288	-3.415	30.842	3.772	1.00160.82			O
ANISOU	2176	O	ASP	A	288	27567	13951	19585	-5073	-3038	217	O
ATOM	2177	CB	ASP	A	288	-0.568	31.659	4.614	1.00157.87			C
ANISOU	2177	CB	ASP	A	288	26996	13305	19683	-5776	-2890	725	C
ATOM	2178	CG	ASP	A	288	0.809	32.208	4.328	1.00177.07			C
ANISOU	2178	CG	ASP	A	288	29424	15514	22339	-6125	-2776	1081	C
ATOM	2179	OD1	ASP	A	288	1.080	32.540	3.157	1.00190.51			O
ANISOU	2179	OD1	ASP	A	288	31378	17059	23948	-6172	-2576	1239	O
ATOM	2180	OD2	ASP	A	288	1.616	32.316	5.276	1.00180.02			O
ANISOU	2180	OD2	ASP	A	288	29562	15854	22985	-6381	-2902	1225	O
ATOM	2181	N	PHE	A	289	-3.722	32.526	5.225	1.00144.15			N
ANISOU	2181	N	PHE	A	289	25681	11530	17561	-5019	-3458	58	N
ATOM	2182	CA	PHE	A	289	-4.966	31.991	5.753	1.00143.80			C
ANISOU	2182	CA	PHE	A	289	25473	11663	17502	-4705	-3513	-221	C
ATOM	2183	C	PHE	A	289	-6.131	32.965	5.576	1.00152.17			C
ANISOU	2183	C	PHE	A	289	26801	12473	18545	-4395	-3748	-350	C
ATOM	2184	O	PHE	A	289	-7.027	33.038	6.415	1.00150.05			O
ANISOU	2184	O	PHE	A	289	26453	12199	18360	-4160	-3791	-587	O
ATOM	2185	CB	PHE	A	289	-4.787	31.608	7.227	1.00135.40			C
ANISOU	2185	CB	PHE	A	289	24183	10736	16528	-4792	-3489	-369	C
ATOM	2186	CG	PHE	A	289	-3.709	30.579	7.460	1.00135.98			C
ANISOU	2186	CG	PHE	A	289	23911	11042	16715	-5079	-3308	-197	C
ATOM	2187	CD1	PHE	A	289	-4.019	29.230	7.522	1.00138.43			C
ANISOU	2187	CD1	PHE	A	289	23859	11677	17062	-4989	-3136	-265	C
ATOM	2188	CD2	PHE	A	289	-2.385	30.961	7.614	1.00137.97			C
ANISOU	2188	CD2	PHE	A	289	24168	11158	17098	-5442	-3321	65	C
ATOM	2189	CE1	PHE	A	289	-3.030	28.284	7.735	1.00137.60			C
ANISOU	2189	CE1	PHE	A	289	23404	11741	17138	-5232	-2959	-80	C
ATOM	2190	CE2	PHE	A	289	-1.394	30.019	7.825	1.00119.14			C
ANISOU	2190	CE2	PHE	A	289	21389	8944	14936	-5692	-3160	279	C
ATOM	2191	CZ	PHE	A	289	-1.717	28.680	7.886	1.00116.57			C
ANISOU	2191	CZ	PHE	A	289	20705	8926	14661	-5575	-2968	205	C
ATOM	2192	N	GLY	A	290	-6.105	33.712	4.476	1.00161.38			N
ANISOU	2192	N	GLY	A	290	28281	13405	19632	-4402	-3874	-171	N
ATOM	2193	CA	GLY	A	290	-7.179	34.631	4.142	1.00167.90			C
ANISOU	2193	CA	GLY	A	290	29331	13954	20510	-4114	-4136	-211	C
ATOM	2194	C	GLY	A	290	-7.339	35.766	5.133	1.00166.48			C
ANISOU	2194	C	GLY	A	290	29324	13457	20475	-4026	-4220	-360	C
ATOM	2195	O	GLY	A	290	-8.452	36.224	5.392	1.00168.53			O
ANISOU	2195	O	GLY	A	290	29590	13538	20906	-3693	-4320	-505	O
ATOM	2196	N	GLY	A	291	-6.222	36.228	5.683	1.00162.08			N
ANISOU	2196	N	GLY	A	291	28914	12791	19877	-4337	-4169	-311	N
ATOM	2197	CA	GLY	A	291	-6.256	37.269	6.689	1.00161.98			C
ANISOU	2197	CA	GLY	A	291	29162	12451	19933	-4333	-4234	-474	C
ATOM	2198	C	GLY	A	291	-5.618	38.559	6.223	1.00162.70			C
ANISOU	2198	C	GLY	A	291	29666	12141	20013	-4510	-4400	-284	C
ATOM	2199	O	GLY	A	291	-5.112	38.648	5.104	1.00157.59			O
ANISOU	2199	O	GLY	A	291	29096	11483	19299	-4647	-4449	-6	O
ATOM	2200	N	THR	A	292	-5.640	39.561	7.095	1.00163.40			N
ANISOU	2200	N	THR	A	292	30064	11874	20145	-4527	-4460	-440	N
ATOM	2201	CA	THR	A	292	-5.104	40.877	6.776	1.00163.98			C
ANISOU	2201	CA	THR	A	292	30514	11569	20223	-4662	-4613	-281	C
ATOM	2202	C	THR	A	292	-3.598	40.938	6.997	1.00165.09			C
ANISOU	2202	C	THR	A	292	30552	11914	20262	-5085	-4578	-60	C
ATOM	2203	O	THR	A	292	-2.891	41.667	6.304	1.00166.56			O

ANISOU	2203	O	THR	A	292	30865	11978	20442	-5242	-4655	202	O
ATOM	2204	CB	THR	A	292	-5.773	41.968	7.626	1.00167.11			C
ANISOU	2204	CB	THR	A	292	31207	11575	20712	-4438	-4609	-543	C
ATOM	2205	OG1	THR	A	292	-5.466	41.752	9.009	1.00167.52			O
ANISOU	2205	OG1	THR	A	292	31236	11771	20641	-4587	-4453	-772	O
ATOM	2206	CG2	THR	A	292	-7.280	41.937	7.436	1.00165.31			C
ANISOU	2206	CG2	THR	A	292	30948	11145	20717	-3956	-4598	-718	C
ATOM	2207	N	LEU	A	293	-3.113	40.168	7.967	1.00166.83			N
ANISOU	2207	N	LEU	A	293	30524	12428	20436	-5273	-4480	-138	N
ATOM	2208	CA	LEU	A	293	-1.693	40.162	8.307	1.00166.10			C
ANISOU	2208	CA	LEU	A	293	30261	12509	20340	-5676	-4501	109	C
ATOM	2209	C	LEU	A	293	-0.854	39.584	7.168	1.00168.45			C
ANISOU	2209	C	LEU	A	293	30297	12973	20735	-5858	-4406	462	C
ATOM	2210	O	LEU	A	293	-1.354	38.799	6.362	1.00166.79			O
ANISOU	2210	O	LEU	A	293	29999	12856	20519	-5720	-4291	464	O
ATOM	2211	CB	LEU	A	293	-1.455	39.377	9.602	1.00155.80			C
ANISOU	2211	CB	LEU	A	293	28739	11474	18985	-5830	-4467	-16	C
ATOM	2212	CG	LEU	A	293	-2.254	39.832	10.826	1.00147.09			C
ANISOU	2212	CG	LEU	A	293	27944	10216	17729	-5691	-4462	-387	C
ATOM	2213	CD1	LEU	A	293	-1.720	39.181	12.093	1.00141.84			C
ANISOU	2213	CD1	LEU	A	293	27131	9817	16946	-5963	-4483	-412	C
ATOM	2214	CD2	LEU	A	293	-2.243	41.344	10.947	1.00146.21			C
ANISOU	2214	CD2	LEU	A	293	28279	9708	17565	-5675	-4561	-432	C
ATOM	2215	N	PRO	A	294	0.426	39.983	7.092	1.00169.88			N
ANISOU	2215	N	PRO	A	294	30370	13163	21014	-6177	-4429	763	N
ATOM	2216	CA	PRO	A	294	1.341	39.473	6.064	1.00168.90			C
ANISOU	2216	CA	PRO	A	294	29981	13154	21038	-6365	-4232	1110	C
ATOM	2217	C	PRO	A	294	1.554	37.966	6.153	1.00167.40			C
ANISOU	2217	C	PRO	A	294	29347	13286	20971	-6424	-4012	1149	C
ATOM	2218	O	PRO	A	294	1.061	37.322	7.079	1.00162.38			O
ANISOU	2218	O	PRO	A	294	28587	12815	20297	-6349	-4064	926	O
ATOM	2219	CB	PRO	A	294	2.651	40.200	6.375	1.00174.92			C
ANISOU	2219	CB	PRO	A	294	30633	13861	21967	-6691	-4324	1389	C
ATOM	2220	CG	PRO	A	294	2.231	41.451	7.056	1.00181.51			C
ANISOU	2220	CG	PRO	A	294	31885	14440	22639	-6627	-4596	1195	C
ATOM	2221	CD	PRO	A	294	1.036	41.071	7.877	1.00178.44			C
ANISOU	2221	CD	PRO	A	294	31628	14086	22084	-6367	-4626	798	C
ATOM	2222	N	LYS	A	295	2.289	37.424	5.187	1.00177.56			N
ANISOU	2222	N	LYS	A	295	30416	14638	22409	-6558	-3726	1432	N
ATOM	2223	CA	LYS	A	295	2.580	35.996	5.122	1.00178.87			C
ANISOU	2223	CA	LYS	A	295	30156	15060	22747	-6615	-3442	1506	C
ATOM	2224	C	LYS	A	295	3.223	35.515	6.417	1.00172.33			C
ANISOU	2224	C	LYS	A	295	28885	14436	22157	-6785	-3557	1560	C
ATOM	2225	O	LYS	A	295	4.055	36.216	6.996	1.00187.15			O
ANISOU	2225	O	LYS	A	295	30671	16259	24177	-6988	-3745	1732	O
ATOM	2226	CB	LYS	A	295	3.503	35.710	3.935	1.00186.02			C
ANISOU	2226	CB	LYS	A	295	30917	15928	23834	-6768	-3032	1842	C
ATOM	2227	CG	LYS	A	295	3.781	34.239	3.691	1.00184.95			C
ANISOU	2227	CG	LYS	A	295	30388	15991	23893	-6801	-2634	1918	C
ATOM	2228	CD	LYS	A	295	4.617	34.041	2.437	1.00185.65			C
ANISOU	2228	CD	LYS	A	295	30436	15976	24127	-6926	-2115	2215	C
ATOM	2229	CE	LYS	A	295	4.845	32.566	2.158	1.00188.77			C
ANISOU	2229	CE	LYS	A	295	30487	16519	24717	-6935	-1640	2265	C
ATOM	2230	NZ	LYS	A	295	5.475	31.878	3.319	1.00189.92			N
ANISOU	2230	NZ	LYS	A	295	29970	16857	25333	-7020	-1710	2375	N
ATOM	2231	N	TYR	A	296	2.826	34.329	6.873	1.00206.78			N
ANISOU	2231	N	TYR	A	296	35089	22701	20777	-14761	2160	-2725	N
ATOM	2232	CA	TYR	A	296	3.332	33.790	8.132	1.00197.96			C
ANISOU	2232	CA	TYR	A	296	33861	21633	19723	-14706	2312	-2696	C
ATOM	2233	C	TYR	A	296	4.849	33.641	8.131	1.00201.39			C
ANISOU	2233	C	TYR	A	296	34293	22109	20119	-14773	2321	-2457	C
ATOM	2234	O	TYR	A	296	5.429	33.063	7.210	1.00191.44			O
ANISOU	2234	O	TYR	A	296	33106	20833	18799	-14822	2511	-2445	O
ATOM	2235	CB	TYR	A	296	2.679	32.447	8.473	1.00190.57			C
ANISOU	2235	CB	TYR	A	296	32894	20681	18831	-14628	2745	-2961	C
ATOM	2236	CG	TYR	A	296	3.324	31.761	9.661	1.00195.90			C
ANISOU	2236	CG	TYR	A	296	33499	21381	19555	-14587	2921	-2914	C
ATOM	2237	CD1	TYR	A	296	3.012	32.138	10.960	1.00200.65			C
ANISOU	2237	CD1	TYR	A	296	34011	22005	20222	-14550	2802	-2909	C
ATOM	2238	CD2	TYR	A	296	4.253	30.743	9.482	1.00199.50			C

ANISOU	2238	CD2	TYR	A	296	33980	21811	20009	-14591	3197	-2871	C
ATOM	2239	CE1	TYR	A	296	3.604	31.518	12.048	1.00201.64			C
ANISOU	2239	CE1	TYR	A	296	34095	22140	20378	-14530	2937	-2851	C
ATOM	2240	CE2	TYR	A	296	4.849	30.119	10.561	1.00199.54			C
ANISOU	2240	CE2	TYR	A	296	33915	21801	20099	-14554	3322	-2809	C
ATOM	2241	CZ	TYR	A	296	4.523	30.510	11.841	1.00197.99			C
ANISOU	2241	CZ	TYR	A	296	33652	21641	19936	-14529	3182	-2793	C
ATOM	2242	OH	TYR	A	296	5.115	29.887	12.916	1.00193.79			O
ANISOU	2242	OH	TYR	A	296	33073	21084	19476	-14510	3286	-2717	O
ATOM	2243	N	ASP	A	297	5.482	34.166	9.176	1.00205.22			N
ANISOU	2243	N	ASP	A	297	34678	22634	20662	-14782	2115	-2276	N
ATOM	2244	CA	ASP	A	297	6.928	34.087	9.319	1.00206.84			C
ANISOU	2244	CA	ASP	A	297	34814	22871	20906	-14853	2080	-2034	C
ATOM	2245	C	ASP	A	297	7.309	33.078	10.396	1.00208.13			C
ANISOU	2245	C	ASP	A	297	34865	23025	21190	-14787	2310	-2052	C
ATOM	2246	O	ASP	A	297	7.092	33.311	11.584	1.00189.99			O
ANISOU	2246	O	ASP	A	297	32508	20752	18928	-14757	2200	-2037	O
ATOM	2247	CB	ASP	A	297	7.507	35.462	9.654	1.00205.30			C
ANISOU	2247	CB	ASP	A	297	34584	22722	20700	-14947	1644	-1778	C
ATOM	2248	CG	ASP	A	297	9.022	35.462	9.694	1.00207.10			C
ANISOU	2248	CG	ASP	A	297	34699	22985	21007	-15050	1586	-1515	C
ATOM	2249	OD1	ASP	A	297	9.634	34.558	9.086	1.00208.05			O
ANISOU	2249	OD1	ASP	A	297	34787	23073	21189	-15059	1860	-1517	O
ATOM	2250	OD2	ASP	A	297	9.603	36.368	10.329	1.00207.08			O
ANISOU	2250	OD2	ASP	A	297	34623	23029	21029	-15130	1272	-1305	O
ATOM	2251	N	GLY	A	298	7.876	31.955	9.969	1.00207.20			N
ANISOU	2251	N	GLY	A	298	34733	22849	21143	-14771	2634	-2080	N
ATOM	2252	CA	GLY	A	298	8.286	30.910	10.887	1.00202.81			C
ANISOU	2252	CA	GLY	A	298	34083	22239	20738	-14708	2864	-2078	C
ATOM	2253	C	GLY	A	298	9.583	31.243	11.595	1.00203.46			C
ANISOU	2253	C	GLY	A	298	33984	22338	20982	-14773	2644	-1763	C
ATOM	2254	O	GLY	A	298	9.873	30.701	12.660	1.00199.96			O
ANISOU	2254	O	GLY	A	298	33451	21860	20665	-14737	2702	-1704	O
ATOM	2255	N	LYS	A	299	10.365	32.139	11.001	1.00208.02			N
ANISOU	2255	N	LYS	A	299	34508	22967	21562	-14885	2389	-1550	N
ATOM	2256	CA	LYS	A	299	11.645	32.538	11.572	1.00212.25			C
ANISOU	2256	CA	LYS	A	299	34836	23533	22278	-14977	2168	-1230	C
ATOM	2257	C	LYS	A	299	11.464	33.286	12.891	1.00204.60			C
ANISOU	2257	C	LYS	A	299	33837	22640	21263	-14997	1858	-1151	C
ATOM	2258	O	LYS	A	299	12.047	32.915	13.910	1.00193.23			O
ANISOU	2258	O	LYS	A	299	32256	21186	19976	-15002	1839	-1013	O
ATOM	2259	CB	LYS	A	299	12.430	33.406	10.582	1.00227.03			C
ANISOU	2259	CB	LYS	A	299	36674	25450	24139	-15119	1978	-1039	C
ATOM	2260	CG	LYS	A	299	12.670	32.755	9.226	1.00237.62			C
ANISOU	2260	CG	LYS	A	299	38065	26717	25501	-15130	2282	-1107	C
ATOM	2261	CD	LYS	A	299	13.617	33.587	8.363	1.00243.21			C
ANISOU	2261	CD	LYS	A	299	38716	27468	26225	-15301	2112	-879	C
ATOM	2262	CE	LYS	A	299	13.058	34.976	8.084	1.00236.80			C
ANISOU	2262	CE	LYS	A	299	38084	26741	25146	-15388	1745	-877	C
ATOM	2263	NZ	LYS	A	299	13.980	35.795	7.245	1.00227.10			N
ANISOU	2263	NZ	LYS	A	299	36830	25546	23912	-15579	1588	-655	N
ATOM	2264	N	ALA	A	300	10.648	34.336	12.864	1.00201.91			N
ANISOU	2264	N	ALA	A	300	33632	22360	20725	-15015	1620	-1231	N
ATOM	2265	CA	ALA	A	300	10.439	35.184	14.034	1.00202.63			C
ANISOU	2265	CA	ALA	A	300	33720	22511	20760	-15047	1322	-1165	C
ATOM	2266	C	ALA	A	300	9.765	34.434	15.177	1.00198.07			C
ANISOU	2266	C	ALA	A	300	33165	21908	20186	-14951	1502	-1327	C
ATOM	2267	O	ALA	A	300	10.112	34.623	16.342	1.00196.61			O
ANISOU	2267	O	ALA	A	300	32922	21755	20027	-14997	1347	-1207	O
ATOM	2268	CB	ALA	A	300	9.632	36.419	13.659	1.00207.05			C
ANISOU	2268	CB	ALA	A	300	34418	23091	21160	-15070	1069	-1225	C
ATOM	2269	N	VAL	A	301	8.799	33.587	14.838	1.00198.88			N
ANISOU	2269	N	VAL	A	301	33364	21954	20249	-14838	1833	-1599	N
ATOM	2270	CA	VAL	A	301	8.097	32.789	15.836	1.00195.32			C
ANISOU	2270	CA	VAL	A	301	32954	21469	19790	-14761	2059	-1777	C
ATOM	2271	C	VAL	A	301	9.054	31.809	16.508	1.00197.49			C
ANISOU	2271	C	VAL	A	301	33128	21686	20223	-14766	2192	-1631	C
ATOM	2272	O	VAL	A	301	9.031	31.645	17.728	1.00192.98			O
ANISOU	2272	O	VAL	A	301	32558	21115	19649	-14780	2161	-1602	O
ATOM	2273	CB	VAL	A	301	6.912	32.019	15.216	1.00190.59			C

ANISOU	2273	CB	VAL	A	301	32462	20817	19136	-14659	2416	-2099	C
ATOM	2274	CG1	VAL	A	301	6.256	31.126	16.254	1.00188.87			C
ANISOU	2274	CG1	VAL	A	301	32290	20560	18914	-14603	2686	-2279	C
ATOM	2275	CG2	VAL	A	301	5.897	32.988	14.629	1.00188.97			C
ANISOU	2275	CG2	VAL	A	301	32319	20642	18839	-14653	2260	-2226	C
ATOM	2276	N	ALA	A	302	9.905	31.174	15.709	1.00200.07			N
ANISOU	2276	N	ALA	A	302	33364	21947	20707	-14763	2339	-1525	N
ATOM	2277	CA	ALA	A	302	10.869	30.208	16.228	1.00197.84			C
ANISOU	2277	CA	ALA	A	302	32942	21563	20664	-14758	2476	-1347	C
ATOM	2278	C	ALA	A	302	11.915	30.872	17.119	1.00199.32			C
ANISOU	2278	C	ALA	A	302	32955	21812	20964	-14873	2123	-1017	C
ATOM	2279	O	ALA	A	302	12.460	30.240	18.025	1.00193.69			O
ANISOU	2279	O	ALA	A	302	32145	21030	20417	-14880	2160	-865	O
ATOM	2280	CB	ALA	A	302	11.541	29.461	15.088	1.00192.54			C
ANISOU	2280	CB	ALA	A	302	32187	20788	20183	-14729	2728	-1295	C
ATOM	2281	N	GLU	A	303	12.193	32.145	16.857	1.00210.64			N
ANISOU	2281	N	GLU	A	303	34357	23366	22312	-14975	1778	-896	N
ATOM	2282	CA	GLU	A	303	13.181	32.882	17.637	1.00223.30			C
ANISOU	2282	CA	GLU	A	303	35799	25046	24000	-15113	1424	-590	C
ATOM	2283	C	GLU	A	303	12.665	33.201	19.037	1.00232.98			C
ANISOU	2283	C	GLU	A	303	37132	26321	25070	-15141	1261	-634	C
ATOM	2284	O	GLU	A	303	13.430	33.204	20.002	1.00243.00			O
ANISOU	2284	O	GLU	A	303	38282	27608	26440	-15231	1092	-408	O
ATOM	2285	CB	GLU	A	303	13.593	34.170	16.921	1.00219.10			C
ANISOU	2285	CB	GLU	A	303	35233	24614	23400	-15231	1119	-461	C
ATOM	2286	CG	GLU	A	303	14.668	34.958	17.653	1.00215.95			C
ANISOU	2286	CG	GLU	A	303	34658	24302	23089	-15399	758	-144	C
ATOM	2287	CD	GLU	A	303	15.122	36.180	16.887	1.00221.44			C
ANISOU	2287	CD	GLU	A	303	35332	25080	23725	-15533	487	-13	C
ATOM	2288	OE1	GLU	A	303	14.608	36.409	15.772	1.00221.72			O
ANISOU	2288	OE1	GLU	A	303	35499	25097	23649	-15493	574	-157	O
ATOM	2289	OE2	GLU	A	303	15.994	36.912	17.401	1.00226.61			O
ANISOU	2289	OE2	GLU	A	303	35850	25815	24438	-15694	185	239	O
ATOM	2290	N	GLN	A	304	11.366	33.465	19.145	1.00227.58			N
ANISOU	2290	N	GLN	A	304	36661	25656	24155	-15073	1322	-916	N
ATOM	2291	CA	GLN	A	304	10.755	33.751	20.437	1.00219.74			C
ANISOU	2291	CA	GLN	A	304	35785	24698	23007	-15101	1224	-992	C
ATOM	2292	C	GLN	A	304	10.775	32.518	21.329	1.00215.88			C
ANISOU	2292	C	GLN	A	304	35313	24123	22588	-15065	1470	-1015	C
ATOM	2293	O	GLN	A	304	10.686	32.623	22.551	1.00221.79			O
ANISOU	2293	O	GLN	A	304	36130	24896	23245	-15134	1364	-984	O
ATOM	2294	CB	GLN	A	304	9.322	34.254	20.266	1.00191.88			C
ANISOU	2294	CB	GLN	A	304	32431	21184	19292	-15030	1288	-1287	C
ATOM	2295	CG	GLN	A	304	9.206	35.522	19.444	1.00215.78			C
ANISOU	2295	CG	GLN	A	304	35467	24257	22262	-15064	1026	-1253	C
ATOM	2296	CD	GLN	A	304	7.917	36.271	19.712	1.00213.61			C
ANISOU	2296	CD	GLN	A	304	35316	23976	21869	-15026	980	-1468	C
ATOM	2297	OE1	GLN	A	304	7.269	36.067	20.739	1.00191.67			O
ANISOU	2297	OE1	GLN	A	304	32605	21190	19032	-15014	1076	-1603	O
ATOM	2298	NE2	GLN	A	304	7.538	37.147	18.788	1.00211.98			N
ANISOU	2298	NE2	GLN	A	304	35136	23755	21651	-15014	835	-1498	N
ATOM	2299	N	LEU	A	305	10.888	31.348	20.708	1.00209.35			N
ANISOU	2299	N	LEU	A	305	34445	23180	21918	-14967	1804	-1069	N
ATOM	2300	CA	LEU	A	305	11.001	30.097	21.444	1.00213.75			C
ANISOU	2300	CA	LEU	A	305	35019	23609	22587	-14930	2058	-1057	C
ATOM	2301	C	LEU	A	305	12.399	29.948	22.035	1.00229.39			C
ANISOU	2301	C	LEU	A	305	36785	25556	24818	-15024	1864	-668	C
ATOM	2302	O	LEU	A	305	12.552	29.702	23.232	1.00232.18			O
ANISOU	2302	O	LEU	A	305	37174	25886	25158	-15088	1795	-565	O
ATOM	2303	CB	LEU	A	305	10.681	28.907	20.537	1.00206.97			C
ANISOU	2303	CB	LEU	A	305	34192	22608	21838	-14796	2491	-1232	C
ATOM	2304	CG	LEU	A	305	9.231	28.416	20.495	1.00199.19			C
ANISOU	2304	CG	LEU	A	305	33432	21600	20651	-14709	2817	-1622	C
ATOM	2305	CD1	LEU	A	305	8.279	29.505	20.019	1.00190.76			C
ANISOU	2305	CD1	LEU	A	305	32438	20672	19371	-14711	2685	-1816	C
ATOM	2306	CD2	LEU	A	305	9.118	27.182	19.614	1.00194.08			C
ANISOU	2306	CD2	LEU	A	305	32812	20800	20129	-14601	3236	-1758	C
ATOM	2307	N	PHE	A	306	13.412	30.104	21.187	1.00239.19			N
ANISOU	2307	N	PHE	A	306	37793	26794	26294	-15045	1787	-443	N
ATOM	2308	CA	PHE	A	306	14.805	30.005	21.613	1.00243.44			C

ANISOU	2308	CA	PHE	A	306	38049	27307	27141	-15140	1620	-36	C
ATOM	2309	C	PHE	A	306	15.748	30.545	20.542	1.00249.25			C
ANISOU	2309	C	PHE	A	306	38536	28093	28074	-15192	1512	165	C
ATOM	2310	O	PHE	A	306	16.475	31.512	20.771	1.00251.71			O
ANISOU	2310	O	PHE	A	306	38705	28534	28401	-15341	1163	385	O
ATOM	2311	CB	PHE	A	306	15.166	28.556	21.954	1.00233.81			C
ANISOU	2311	CB	PHE	A	306	36749	25873	26215	-15055	1937	92	C
ATOM	2312	CG	PHE	A	306	14.876	27.580	20.850	1.00221.60			C
ANISOU	2312	CG	PHE	A	306	35229	24171	24800	-14899	2364	-67	C
ATOM	2313	CD1	PHE	A	306	15.865	27.213	19.953	1.00223.06			C
ANISOU	2313	CD1	PHE	A	306	35142	24266	25346	-14870	2497	172	C
ATOM	2314	CD2	PHE	A	306	13.615	27.025	20.711	1.00213.35			C
ANISOU	2314	CD2	PHE	A	306	34475	23071	23518	-14794	2654	-455	C
ATOM	2315	CE1	PHE	A	306	15.599	26.314	18.940	1.00222.58			C
ANISOU	2315	CE1	PHE	A	306	35134	24056	25382	-14739	2900	17	C
ATOM	2316	CE2	PHE	A	306	13.343	26.130	19.698	1.00213.07			C
ANISOU	2316	CE2	PHE	A	306	34486	22897	23574	-14670	3043	-618	C
ATOM	2317	CZ	PHE	A	306	14.336	25.772	18.813	1.00216.64			C
ANISOU	2317	CZ	PHE	A	306	34700	23252	24360	-14642	3161	-387	C
ATOM	2318	C18	RET	B	400	-8.758	14.552	9.658	1.00147.74			C
ATOM	2319	C5	RET	B	400	-8.115	15.221	10.823	1.00139.58			C
ATOM	2320	C6	RET	B	400	-6.773	15.283	10.955	1.00143.62			C
ATOM	2321	C1	RET	B	400	-6.068	15.182	12.290	1.00137.39			C
ATOM	2322	C2	RET	B	400	-7.093	14.759	13.354	1.00141.66			C
ATOM	2323	C3	RET	B	400	-8.332	15.639	13.302	1.00141.66			C
ATOM	2324	C4	RET	B	400	-9.047	15.475	11.971	1.00135.03			C
ATOM	2325	C16	RET	B	400	-5.429	16.535	12.674	1.00132.77			C
ATOM	2326	C17	RET	B	400	-4.934	14.143	12.251	1.00142.10			C
ATOM	2327	C7	RET	B	400	-5.906	15.091	9.799	1.00156.02			C
ATOM	2328	C8	RET	B	400	-4.977	15.921	9.322	1.00152.33			C
ATOM	2329	C9	RET	B	400	-4.297	15.673	8.049	1.00138.37			C
ATOM	2330	C10	RET	B	400	-2.956	15.842	7.931	1.00125.96			C
ATOM	2331	C19	RET	B	400	-5.152	15.225	6.895	1.00142.88			C
TER												
ATOM	2332	O1	TAR	C	500	-14.302	20.601	28.055	1.00101.99			O
ATOM	2333	O11	TAR	C	500	-13.167	21.176	26.214	1.00113.34			O
ATOM	2334	C1	TAR	C	500	-13.259	20.615	27.493	1.00108.06			C
ATOM	2335	C2	TAR	C	500	-11.981	20.226	28.234	1.00122.35			C
ATOM	2336	O2	TAR	C	500	-10.992	21.215	28.185	1.00129.24			O
ATOM	2337	C3	TAR	C	500	-11.451	18.854	27.833	1.00135.71			C
ATOM	2338	O3	TAR	C	500	-12.459	17.895	27.658	1.00152.20			O
ATOM	2339	C4	TAR	C	500	-10.448	18.921	26.680	1.00132.08			C
ATOM	2340	O4	TAR	C	500	-10.746	19.455	25.665	1.00128.59			O
ATOM	2341	O41	TAR	C	500	-9.168	18.372	26.830	1.00132.40			O
TER												
HETATM	2342	O	HOH	S	1	-4.720	26.402	46.063	1.00101.89			O
HETATM	2343	O	HOH	S	2	2.830	6.442	39.080	1.00112.65			O
HETATM	2344	O	HOH	S	3	-5.225	37.136	3.342	1.00120.59			O
HETATM	2345	O	HOH	S	4	-3.061	36.157	32.459	1.00114.73			O
TER												
END												

COORDINATES OF R234W:9-CIS-RETINAL IN PDB FORMAT:

```

REMARK Date 2009-11-11 Time 16:55:11 CET +0100 (1257954911.83 s)
REMARK PHENIX refinement
REMARK
REMARK ***** INPUT FILES AND LABELS *****
REMARK Reflections:
REMARK   file name       : 9-cis.mtz
REMARK   labels          : ['FP,SIGFP']
REMARK R-free flags:
REMARK   file name       : 9-cis.mtz
REMARK   label           : FreeRflag
REMARK   test_flag_value: 0
REMARK Model file name(s):
REMARK   /home/achim/xray_data/xiaoqin/9cis/process/refine/9cis_test_001.pdb
REMARK
REMARK ***** REFINEMENT SUMMARY: QUICK FACTS *****
REMARK Start: r_work = 0.1586 r_free = 0.1931 bonds = 0.007 angles = 0.978
REMARK Final: r_work = 0.1651 r_free = 0.1975 bonds = 0.005 angles = 0.841
REMARK *****
REMARK ***** REFINEMENT STATISTICS STEP BY STEP *****
REMARK leading digit, like l_, means number of macro-cycle
REMARK   0 : statistics at the very beginning when nothing is done yet
REMARK   1 s: bulk solvent correction and/or (anisotropic) scaling
REMARK   1 z: refinement of coordinates
REMARK   1 p: refinement of ADPs (Atomic Displacement Parameters)
REMARK   1 t: ordered solvent update (add / remove)
REMARK
REMARK -----
REMARK R-factors, x-ray target values and norm of gradient of x-ray target
REMARK stage  r-work r-free  xray_target_w  xray_target_t
REMARK   0      : 0.2758 0.2848  2.962936e+00  3.076127e+00
REMARK  1_bss: 0.1586 0.1931  2.700979e+00  2.873534e+00
REMARK  1_xyz: 0.1660 0.1996  2.742926e+00  2.900151e+00
REMARK  1_adp: 0.1648 0.1978  2.732830e+00  2.889278e+00
REMARK  1_bss: 0.1651 0.1975  2.733333e+00  2.888987e+00
REMARK
REMARK -----
REMARK stage  k_sol  b_sol  b11  b22  b33  b12  b13  b23
REMARK   0      : 0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
REMARK  1_bss: 0.369  59.092  7.410 -3.138 -4.937 -0.000  0.450 -0.000
REMARK  1_xyz: 0.369  59.092  7.410 -3.138 -4.937 -0.000  0.450 -0.000
REMARK  1_adp: 0.369  59.092  7.410 -3.138 -4.937 -0.000  0.450 -0.000
REMARK  1_bss: 0.369  58.870  7.632 -2.917 -4.715 -0.000  0.450 -0.000
REMARK
REMARK -----
REMARK stage  <pher>  fom  alpha  beta
REMARK   0      : 25.794 0.8112 0.0884  180.662
REMARK  1_bss: 19.294 0.8776 0.0910  64.240
REMARK  1_xyz: 20.103 0.8699 0.0935  67.237
REMARK  1_adp: 19.754 0.8733 0.0915  66.465
REMARK  1_bss: 19.752 0.8733 0.0915  66.184
REMARK
REMARK -----
REMARK stage  angl  bond  chir  dihe  plan  repu  geom_target
REMARK   0      : 0.978  0.007  0.062 16.906  0.004  4.109  6.4861e-02
REMARK  1_bss: 0.978  0.007  0.062 16.906  0.004  4.109  6.4861e-02
REMARK  1_xyz: 0.841  0.005  0.055 16.387  0.003  4.111  5.1545e-02
REMARK  1_adp: 0.841  0.005  0.055 16.387  0.003  4.111  5.1545e-02
REMARK  1_bss: 0.841  0.005  0.055 16.387  0.003  4.110  5.1568e-02
REMARK
REMARK -----
REMARK Maximal deviations:
REMARK stage  angl  bond  chir  dihe  plan  repu  |grad|
REMARK   0      : 6.640  0.064  0.212175.026  0.021  2.113  5.6877e-02
REMARK  1_bss: 6.640  0.064  0.212175.026  0.021  2.113  5.6877e-02
REMARK  1_xyz: 6.335  0.045  0.191159.768  0.021  2.330  3.4878e-02
REMARK  1_adp: 6.335  0.045  0.191159.768  0.021  2.330  3.4878e-02
REMARK  1_bss: 6.335  0.045  0.191159.768  0.021  2.330  3.4894e-02
REMARK
REMARK -----
REMARK |-----overall-----|---macromolecule---|-----solvent-----|
REMARK stage  b_max  b_min  b_ave  b_max  b_min  b_ave  b_max  b_min  b_ave
REMARK   0      : 104.64 10.08 32.01 104.64 10.08 30.13 71.56 14.01 43.90

```

REMARK 1_bss: 104.64 10.08 32.01 104.64 10.08 30.13 71.56 14.01 43.90
 REMARK 1_xyz: 114.97 10.26 33.00 114.97 10.26 31.47 69.07 14.32 43.02
 REMARK 1_adp: 104.56 11.20 31.81 104.56 11.20 29.99 72.24 14.18 43.75
 REMARK 1_bss: 104.34 10.98 31.58 104.34 10.98 29.76 72.02 13.96 43.51

 REMARK stage Deviation of refined
 REMARK model from start model
 REMARK max min mean
 REMARK 0 : 0.000 0.000 0.000
 REMARK 1_bss: 0.000 0.000 0.000
 REMARK 1_xyz: 0.148 0.001 0.018
 REMARK 1_adp: 0.148 0.001 0.018
 REMARK 1_bss: 0.148 0.001 0.018

 REMARK stage number of ordered solvent
 REMARK 0 : 327
 REMARK 1_bss: 327
 REMARK 1_xyz: 316
 REMARK 1_adp: 316
 REMARK 1_bss: 315

 REMARK MODEL CONTENT.
 REMARK ELEMENT ATOM RECORD COUNT OCCUPANCY SUM
 REMARK C 1338 1338.00
 REMARK S 8 8.00
 REMARK O 697 697.00
 REMARK N 340 340.00
 REMARK TOTAL 2383 2383.00

 REMARK r_free_flags.md5.hexdigest 4d329d92ca5f17b4668057ad2c5e22d2

REMARK IF THIS FILE IS FOR PDB DEPOSITION: REMOVE ALL FROM THIS LINE UP.
 REMARK 3

REMARK 3 REFINEMENT.
 REMARK 3 PROGRAM : PHENIX (phenix.refine)
 REMARK 3 AUTHORS : Paul Adams, Pavel Afonine, Vincent Chen, Ian
 REMARK 3 : Davis, Kreshna Gopal, Ralf Grosse-Kunstleve,
 REMARK 3 : Jeffrey Headd, Li-Wei Hung, Robert
 REMARK 3 : Immormino, Tom Ioerger, Airlie McCoy, Erik
 REMARK 3 : McKee, Nigel Moriarty, Reetal Pai, Randy
 REMARK 3 : Read, Jane Richardson, David Richardson, Tod
 REMARK 3 : Romo, Jim Sacchettini, Nicholas Sauter,
 REMARK 3 : Jacob Smith, Laurent Storoni, Tom
 REMARK 3 : Terwilliger, Peter Zwart

REMARK 3 REFINEMENT TARGET : ML

REMARK 3 DATA USED IN REFINEMENT.
 REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 1.896
 REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 44.745
 REMARK 3 MIN(FOBS/SIGMA FOBS) : 2.00
 REMARK 3 COMPLETENESS FOR RANGE (%) : 98.75
 REMARK 3 NUMBER OF REFLECTIONS : 25013

REMARK 3 FIT TO DATA USED IN REFINEMENT.
 REMARK 3 R VALUE (WORKING + TEST SET) : 0.1683
 REMARK 3 R VALUE (WORKING SET) : 0.1651
 REMARK 3 FREE R VALUE : 0.1975
 REMARK 3 FREE R VALUE TEST SET SIZE (%) : 10.00
 REMARK 3 FREE R VALUE TEST SET COUNT : 2502

REMARK 3 FIT TO DATA USED IN REFINEMENT (IN BINS).
 REMARK 3 BIN RESOLUTION RANGE COMPL. NWORK NFREE RWORK RFREE
 REMARK 3 1 44.7573 - 4.9663 0.99 1305 146 0.1825 0.1960
 REMARK 3 2 4.9663 - 3.9426 1.00 1284 142 0.1369 0.1568
 REMARK 3 3 3.9426 - 3.4445 0.99 1263 140 0.1414 0.1698
 REMARK 3 4 3.4445 - 3.1296 1.00 1262 141 0.1470 0.1767
 REMARK 3 5 3.1296 - 2.9053 1.00 1264 140 0.1571 0.2135
 REMARK 3 6 2.9053 - 2.7341 1.00 1282 143 0.1699 0.1981
 REMARK 3 7 2.7341 - 2.5972 1.00 1250 139 0.1711 0.2187

REMARK 3 8 2.5972 - 2.4841 1.00 1259 139 0.1773 0.2087
REMARK 3 9 2.4841 - 2.3885 1.00 1246 139 0.1641 0.2028
REMARK 3 10 2.3885 - 2.3061 1.00 1275 142 0.1592 0.2009
REMARK 3 11 2.3061 - 2.2340 1.00 1267 140 0.1725 0.2202
REMARK 3 12 2.2340 - 2.1701 1.00 1241 138 0.1661 0.2213
REMARK 3 13 2.1701 - 2.1130 1.00 1252 139 0.1695 0.2155
REMARK 3 14 2.1130 - 2.0614 1.00 1277 142 0.1723 0.2256
REMARK 3 15 2.0614 - 2.0146 1.00 1251 139 0.1692 0.2087
REMARK 3 16 2.0146 - 1.9717 1.00 1263 140 0.1830 0.2107
REMARK 3 17 1.9717 - 1.9323 1.00 1247 139 0.1972 0.2203
REMARK 3 18 1.9323 - 1.8958 0.80 1023 114 0.2380 0.2472
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED : FLAT BULK SOLVENT MODEL
REMARK 3 SOLVENT RADIUS : 0.80
REMARK 3 SHRINKAGE RADIUS : 0.80
REMARK 3 GRID STEP FACTOR : 4.00
REMARK 3 K_SOL : 0.369
REMARK 3 B_SOL : 58.870
REMARK 3
REMARK 3 ERROR ESTIMATES.
REMARK 3 COORDINATE ERROR (MAXIMUM-LIKELIHOOD BASED) : 0.20
REMARK 3 PHASE ERROR (DEGREES, MAXIMUM-LIKELIHOOD BASED) : 19.75
REMARK 3
REMARK 3 OVERALL SCALE FACTORS.
REMARK 3 SCALE = SUM(|F_OBS|*|F_MODEL|)/SUM(|F_MODEL|**2) : 0.0948
REMARK 3 ANISOTROPIC SCALE MATRIX ELEMENTS (IN CARTESIAN BASIS).
REMARK 3 B11 : 7.6317
REMARK 3 B22 : -2.9166
REMARK 3 B33 : -4.7151
REMARK 3 B12 : -0.0000
REMARK 3 B13 : 0.4498
REMARK 3 B23 : -0.0000
REMARK 3
REMARK 3 R FACTOR FORMULA.
REMARK 3 $R = \frac{\sum(|F_OBS| - SCALE * |F_MODEL|)}{\sum(|F_OBS|)}$
REMARK 3
REMARK 3 TOTAL MODEL STRUCTURE FACTOR (F_MODEL).
REMARK 3 $F_MODEL = FB_CART * (F_CALC_ATOMS + F_BULK)$
REMARK 3 $F_BULK = K_SOL * EXP(-B_SOL * S**2 / 4) * F_MASK$
REMARK 3 $F_CALC_ATOMS =$ ATOMIC MODEL STRUCTURE FACTORS
REMARK 3 $FB_CART = EXP(-H(t) * A(-1) * B * A(-1t) * H)$
REMARK 3 $A =$ orthogonalization matrix, $H =$ MILLER INDEX
REMARK 3 $(t) =$ TRANSPOSE, $(-1) =$ INVERSE
REMARK 3
REMARK 3 STRUCTURE FACTORS CALCULATION ALGORITHM : FFT
REMARK 3
REMARK 3 DEVIATIONS FROM IDEAL VALUES.
REMARK 3 RMSD MAX COUNT
REMARK 3 BOND : 0.005 0.045 2115
REMARK 3 ANGLE : 0.841 6.335 2855
REMARK 3 CHIRALITY : 0.055 0.191 300
REMARK 3 PLANARITY : 0.003 0.021 370
REMARK 3 DIHEDRAL : 16.387 159.768 795
REMARK 3 MIN NONBONDED DISTANCE : 2.330
REMARK 3
REMARK 3 ATOMIC DISPLACEMENT PARAMETERS.
REMARK 3 WILSON B : None
REMARK 3 RMS(B_ISO_OR_EQUIVALENT_BONDED) : 3.93
REMARK 3 ATOMS NUMBER OF ATOMS
REMARK 3 ISO. ANISO.
REMARK 3 ALL : 2383 2047
REMARK 3 ALL (NO H) : 2383 2047
REMARK 3 SOLVENT : 315 0
REMARK 3 NON-SOLVENT : 2068 2047
REMARK 3 HYDROGENS : 0 0
REMARK 3
REMARK 3 TLS DETAILS.
REMARK 3 NUMBER OF TLS GROUPS: 7
REMARK 3 ORIGIN: CENTER OF MASS

```

REMARK 3 TLS GROUP : 1
REMARK 3 SELECTION: (chain A and resid 57:85)
REMARK 3 ORIGIN FOR THE GROUP (A): -14.3369 31.9499 8.9848
REMARK 3 T TENSOR
REMARK 3 T11: 0.2981 T22: 0.1423
REMARK 3 T33: 0.2513 T12: 0.1563
REMARK 3 T13: -0.0870 T23: -0.0356
REMARK 3 L TENSOR
REMARK 3 L11: 0.2863 L22: -0.8070
REMARK 3 L33: 5.1607 L12: 0.8936
REMARK 3 L13: 0.9129 L23: 0.1310
REMARK 3 S TENSOR
REMARK 3 S11: -0.1549 S12: 0.0452 S13: 0.3945
REMARK 3 S21: -0.1084 S22: -0.0993 S23: 0.2382
REMARK 3 S31: -0.8851 S32: -0.2117 S33: 0.2938
REMARK 3 TLS GROUP : 2
REMARK 3 SELECTION: (chain A and resid 86:98)
REMARK 3 ORIGIN FOR THE GROUP (A): -17.1863 23.5800 13.8063
REMARK 3 T TENSOR
REMARK 3 T11: 0.0740 T22: 0.1990
REMARK 3 T33: 0.2120 T12: 0.0922
REMARK 3 T13: -0.0044 T23: -0.0652
REMARK 3 L TENSOR
REMARK 3 L11: 4.3053 L22: 1.6617
REMARK 3 L33: 1.4195 L12: -1.6226
REMARK 3 L13: -0.8597 L23: 0.1731
REMARK 3 S TENSOR
REMARK 3 S11: 0.1595 S12: 0.6543 S13: -0.6978
REMARK 3 S21: 0.0453 S22: 0.0372 S23: 0.4534
REMARK 3 S31: -0.2022 S32: -0.3200 S33: -0.0998
REMARK 3 TLS GROUP : 3
REMARK 3 SELECTION: (chain A and resid 99:143)
REMARK 3 ORIGIN FOR THE GROUP (A): -9.8733 16.4298 12.8980
REMARK 3 T TENSOR
REMARK 3 T11: 0.0475 T22: 0.1173
REMARK 3 T33: 0.0963 T12: 0.0022
REMARK 3 T13: 0.0270 T23: 0.0028
REMARK 3 L TENSOR
REMARK 3 L11: -0.1262 L22: 0.5076
REMARK 3 L33: 1.2756 L12: -0.3005
REMARK 3 L13: 0.4507 L23: 0.1640
REMARK 3 S TENSOR
REMARK 3 S11: 0.0261 S12: -0.0488 S13: -0.0071
REMARK 3 S21: -0.0310 S22: -0.0783 S23: 0.2215
REMARK 3 S31: -0.1067 S32: -0.2687 S33: 0.0112
REMARK 3 TLS GROUP : 4
REMARK 3 SELECTION: (chain A and resid 144:185)
REMARK 3 ORIGIN FOR THE GROUP (A): -3.4660 4.6655 20.5590
REMARK 3 T TENSOR
REMARK 3 T11: 0.1119 T22: 0.0403
REMARK 3 T33: 0.0915 T12: -0.0340
REMARK 3 T13: 0.0134 T23: 0.0140
REMARK 3 L TENSOR
REMARK 3 L11: 1.4353 L22: 1.1464
REMARK 3 L33: 1.9986 L12: 0.1384
REMARK 3 L13: 1.0779 L23: -0.5242
REMARK 3 S TENSOR
REMARK 3 S11: 0.0902 S12: -0.0252 S13: -0.2170
REMARK 3 S21: 0.2103 S22: 0.0469 S23: 0.0364
REMARK 3 S31: 0.2393 S32: -0.0575 S33: -0.1183
REMARK 3 TLS GROUP : 5
REMARK 3 SELECTION: (chain A and resid 186:255)
REMARK 3 ORIGIN FOR THE GROUP (A): 3.3083 7.4464 15.0599
REMARK 3 T TENSOR
REMARK 3 T11: 0.0542 T22: 0.0740
REMARK 3 T33: 0.0744 T12: 0.0077
REMARK 3 T13: 0.0121 T23: -0.0032
REMARK 3 L TENSOR
REMARK 3 L11: 0.4999 L22: 0.6442
REMARK 3 L33: 0.6306 L12: -0.3420

```

```

REMARK 3      L13:   0.4140 L23:  -0.0786
REMARK 3      S TENSOR
REMARK 3      S11:   0.0238 S12:   0.1314 S13:  -0.0075
REMARK 3      S21:   0.0678 S22:  -0.0468 S23:  -0.0139
REMARK 3      S31:   0.0294 S32:   0.0910 S33:   0.0095
REMARK 3      TLS GROUP : 6
REMARK 3      SELECTION: (chain A and resid 256:295)
REMARK 3      ORIGIN FOR THE GROUP (A):   9.1620   8.0125  24.3525
REMARK 3      T TENSOR
REMARK 3      T11:   0.0905 T22:   0.0743
REMARK 3      T33:   0.1118 T12:  -0.0247
REMARK 3      T13:  -0.0222 T23:   0.0155
REMARK 3      L TENSOR
REMARK 3      L11:   0.2191 L22:   1.1090
REMARK 3      L33:   0.3304 L12:  -0.1958
REMARK 3      L13:   0.6117 L23:   0.5279
REMARK 3      S TENSOR
REMARK 3      S11:  -0.0299 S12:   0.0355 S13:   0.0173
REMARK 3      S21:   0.2764 S22:  -0.0170 S23:  -0.2060
REMARK 3      S31:  -0.0232 S32:   0.1604 S33:   0.0406
REMARK 3      TLS GROUP : 7
REMARK 3      SELECTION: (chain A and resid 296:306)
REMARK 3      ORIGIN FOR THE GROUP (A): -11.3359   3.3341  29.3839
REMARK 3      T TENSOR
REMARK 3      T11:   0.1901 T22:   0.1457
REMARK 3      T33:   0.0474 T12:  -0.1286
REMARK 3      T13:   0.2676 T23:   0.1319
REMARK 3      L TENSOR
REMARK 3      L11:   4.2506 L22:   0.6650
REMARK 3      L33:   2.4857 L12:   0.0001
REMARK 3      L13:  -0.6505 L23:  -0.6498
REMARK 3      S TENSOR
REMARK 3      S11:   0.7640 S12:  -0.5752 S13:   0.2772
REMARK 3      S21:   0.2434 S22:  -0.0010 S23:   0.1460
REMARK 3      S31:  -0.2766 S32:  -0.1711 S33:  -0.5849
REMARK 3
CRYST1 87.870  57.918  75.206  90.00 122.88  90.00 C 1 2 1
SCALE1 0.011380 0.000000 0.007356 0.000000
SCALE2 0.000000 0.017266 0.000000 0.000000
SCALE3 0.000000 0.000000 0.015833 0.000000
ATOM 1 N GLU A 57 -16.819 40.185 24.393 1.00 75.40 N
ANISOU 1 N GLU A 57 11136 7693 9821 2413 -810 -1780 N
ATOM 2 CA GLU A 57 -15.592 39.544 24.852 1.00 72.74 C
ANISOU 2 CA GLU A 57 10698 7400 9540 1983 -661 -1653 C
ATOM 3 C GLU A 57 -14.742 39.062 23.678 1.00 63.00 C
ANISOU 3 C GLU A 57 9504 6146 8286 1777 -646 -1452 C
ATOM 4 CB GLU A 57 -15.911 38.389 25.805 1.00 78.38 C
ANISOU 4 CB GLU A 57 10956 8459 10367 1888 -550 -1757 C
ATOM 5 CG GLU A 57 -16.633 38.816 27.074 1.00 86.05 C
ANISOU 5 CG GLU A 57 11845 9496 11353 2033 -553 -1957 C
ATOM 6 CD GLU A 57 -15.791 39.733 27.939 1.00 90.76 C
ANISOU 6 CD GLU A 57 12727 9838 11921 1859 -504 -1926 C
ATOM 7 OE1 GLU A 57 -14.556 39.546 27.976 1.00 91.96 O
ANISOU 7 OE1 GLU A 57 12953 9916 12074 1506 -405 -1759 O
ATOM 8 OE2 GLU A 57 -16.361 40.638 28.584 1.00 92.83 O
ANISOU 8 OE2 GLU A 57 13139 9993 12138 2076 -565 -2069 O
ATOM 9 O GLU A 57 -15.256 38.802 22.588 1.00 60.95 O
ANISOU 9 O GLU A 57 9206 5934 8019 1940 -721 -1429 O
ATOM 10 N THR A 58 -13.439 38.949 23.907 1.00 54.81 N
ANISOU 10 N THR A 58 8533 5068 7223 1419 -549 -1311 N
ATOM 11 CA THR A 58 -12.508 38.626 22.835 1.00 55.22 C
ANISOU 11 CA THR A 58 8646 5120 7215 1215 -541 -1124 C
ATOM 12 C THR A 58 -12.785 37.266 22.188 1.00 45.30 C
ANISOU 12 C THR A 58 7039 4131 6044 1247 -505 -1111 C
ATOM 13 CB THR A 58 -11.039 38.682 23.314 1.00 61.44 C
ANISOU 13 CB THR A 58 9515 5906 7923 821 -431 -985 C
ATOM 14 OG1 THR A 58 -10.713 37.480 24.024 1.00 64.99 O
ANISOU 14 OG1 THR A 58 9592 6631 8470 676 -288 -998 O
ATOM 15 CG2 THR A 58 -10.820 39.886 24.217 1.00 59.81 C
ANISOU 15 CG2 THR A 58 9626 5467 7631 748 -440 -1013 C

```

ATOM	16	O	THR	A	58	-12.669	37.129	20.971	1.00	44.36	O	
ANISOU	16	O	THR	A	58	6975	3996	5884	1267	-563	-1015	O
ATOM	17	N	ARG	A	59	-13.156	36.271	22.991	1.00	40.26	N	
ANISOU	17	N	ARG	A	59	6061	3728	5507	1237	-418	-1208	N
ATOM	18	CA	ARG	A	59	-13.359	34.914	22.468	1.00	40.51	C	
ANISOU	18	CA	ARG	A	59	5806	3998	5589	1228	-384	-1192	C
ATOM	19	CB	ARG	A	59	-13.629	33.916	23.598	1.00	38.68	C	
ANISOU	19	CB	ARG	A	59	5266	3994	5436	1149	-296	-1297	C
ATOM	20	CG	ARG	A	59	-12.392	33.442	24.330	1.00	37.27	C	
ANISOU	20	CG	ARG	A	59	5030	3867	5264	856	-171	-1213	C
ATOM	21	CD	ARG	A	59	-12.746	32.392	25.377	1.00	33.83	C	
ANISOU	21	CD	ARG	A	59	4305	3647	4902	781	-106	-1318	C
ATOM	22	NE	ARG	A	59	-11.562	31.936	26.092	1.00	33.14	N	
ANISOU	22	NE	ARG	A	59	4164	3614	4815	522	11	-1237	N
ATOM	23	CZ	ARG	A	59	-11.507	30.830	26.826	1.00	30.01	C	
ANISOU	23	CZ	ARG	A	59	3551	3392	4459	406	71	-1276	C
ATOM	24	NH1	ARG	A	59	-12.575	30.056	26.951	1.00	29.09	N	
ANISOU	24	NH1	ARG	A	59	3261	3419	4374	487	19	-1394	N
ATOM	25	NH2	ARG	A	59	-10.376	30.498	27.430	1.00	25.77	N	
ANISOU	25	NH2	ARG	A	59	2981	2904	3906	196	174	-1193	N
ATOM	26	C	ARG	A	59	-14.488	34.846	21.447	1.00	39.11	C	
ANISOU	26	C	ARG	A	59	5598	3856	5406	1498	-491	-1239	C
ATOM	27	O	ARG	A	59	-14.334	34.268	20.370	1.00	34.94	O	
ANISOU	27	O	ARG	A	59	5035	3380	4860	1479	-505	-1145	O
ATOM	28	N	GLU	A	60	-15.624	35.442	21.790	1.00	40.45	N	
ANISOU	28	N	GLU	A	60	5773	4021	5576	1758	-566	-1387	N
ATOM	29	CA	GLU	A	60	-16.795	35.408	20.922	1.00	48.24	C	
ANISOU	29	CA	GLU	A	60	6700	5096	6532	2035	-663	-1445	C
ATOM	30	CB	GLU	A	60	-18.018	35.969	21.652	1.00	61.45	C	
ANISOU	30	CB	GLU	A	60	8311	6856	8182	2322	-727	-1642	C
ATOM	31	CG	GLU	A	60	-18.421	35.176	22.893	1.00	70.46	C	
ANISOU	31	CG	GLU	A	60	9131	8279	9363	2231	-651	-1778	C
ATOM	32	CD	GLU	A	60	-17.446	35.349	24.048	1.00	77.03	C	
ANISOU	32	CD	GLU	A	60	10016	8997	10254	1988	-557	-1764	C
ATOM	33	OE1	GLU	A	60	-16.629	36.290	24.002	1.00	79.62	O	
ANISOU	33	OE1	GLU	A	60	10651	9034	10566	1933	-562	-1678	O
ATOM	34	OE2	GLU	A	60	-17.500	34.546	25.003	1.00	78.06	O	
ANISOU	34	OE2	GLU	A	60	9891	9339	10431	1829	-482	-1835	O
ATOM	35	C	GLU	A	60	-16.544	36.175	19.626	1.00	44.55	C	
ANISOU	35	C	GLU	A	60	6523	4397	6005	2118	-759	-1323	C
ATOM	36	O	GLU	A	60	-17.023	35.788	18.558	1.00	47.09	O	
ANISOU	36	O	GLU	A	60	6778	4803	6312	2217	-805	-1285	O
ATOM	37	N	GLU	A	61	-15.789	37.264	19.732	1.00	41.32	N	
ANISOU	37	N	GLU	A	61	6451	3701	5546	2048	-794	-1259	N
ATOM	38	CA	GLU	A	61	-15.412	38.056	18.568	1.00	47.29	C	
ANISOU	38	CA	GLU	A	61	7530	4219	6220	2060	-900	-1132	C
ATOM	39	CB	GLU	A	61	-14.754	39.365	19.006	1.00	58.59	C	
ANISOU	39	CB	GLU	A	61	9374	5333	7556	1979	-953	-1098	C
ATOM	40	CG	GLU	A	61	-14.090	40.131	17.876	1.00	70.52	C	
ANISOU	40	CG	GLU	A	61	11251	6601	8944	1870	-1061	-941	C
ATOM	41	CD	GLU	A	61	-13.213	41.264	18.376	1.00	80.12	C	
ANISOU	41	CD	GLU	A	61	12885	7535	10022	1668	-1096	-879	C
ATOM	42	OE1	GLU	A	61	-13.315	41.616	19.571	1.00	82.45	O	
ANISOU	42	OE1	GLU	A	61	13223	7778	10328	1694	-1051	-979	O
ATOM	43	OE2	GLU	A	61	-12.420	41.800	17.573	1.00	83.52	O	
ANISOU	43	OE2	GLU	A	61	13610	7810	10316	1459	-1171	-730	O
ATOM	44	C	GLU	A	61	-14.465	37.270	17.666	1.00	41.08	C	
ANISOU	44	C	GLU	A	61	6665	3513	5430	1797	-847	-965	C
ATOM	45	O	GLU	A	61	-14.606	37.276	16.441	1.00	38.36	O	
ANISOU	45	O	GLU	A	61	6378	3142	5057	1855	-921	-889	O
ATOM	46	N	ALA	A	62	-13.498	36.596	18.281	1.00	37.32	N	
ANISOU	46	N	ALA	A	62	6054	3154	4974	1522	-721	-914	N
ATOM	47	CA	ALA	A	62	-12.536	35.786	17.540	1.00	34.79	C	
ANISOU	47	CA	ALA	A	62	5637	2953	4628	1299	-665	-773	C
ATOM	48	CB	ALA	A	62	-11.465	35.244	18.480	1.00	35.12	C	
ANISOU	48	CB	ALA	A	62	5563	3117	4665	1037	-530	-737	C
ATOM	49	C	ALA	A	62	-13.222	34.647	16.796	1.00	37.15	C	
ANISOU	49	C	ALA	A	62	5677	3452	4988	1415	-657	-791	C
ATOM	50	O	ALA	A	62	-12.898	34.361	15.640	1.00	33.74	O	
ANISOU	50	O	ALA	A	62	5258	3044	4520	1368	-686	-686	O

ATOM	51	N	VAL	A	63	-14.168	33.993	17.464	1.00	36.76	N	
ANISOU	51	N	VAL	A	63	5396	3561	5011	1543	-621	-924	N
ATOM	52	CA	VAL	A	63	-14.923	32.907	16.849	1.00	35.01	C	
ANISOU	52	CA	VAL	A	63	4950	3542	4811	1625	-616	-947	C
ATOM	53	CB	VAL	A	63	-15.876	32.234	17.854	1.00	36.12	C	
ANISOU	53	CB	VAL	A	63	4849	3889	4986	1692	-577	-1101	C
ATOM	54	CG1	VAL	A	63	-16.868	31.346	17.125	1.00	35.03	C	
ANISOU	54	CG1	VAL	A	63	4536	3957	4818	1785	-600	-1128	C
ATOM	55	CG2	VAL	A	63	-15.086	31.439	18.881	1.00	33.83	C	
ANISOU	55	CG2	VAL	A	63	4442	3684	4727	1466	-468	-1103	C
ATOM	56	C	VAL	A	63	-15.732	33.430	15.675	1.00	37.05	C	
ANISOU	56	C	VAL	A	63	5299	3739	5038	1833	-727	-932	C
ATOM	57	O	VAL	A	63	-15.782	32.809	14.614	1.00	33.46	O	
ANISOU	57	O	VAL	A	63	4780	3364	4570	1816	-734	-857	O
ATOM	58	N	ARG	A	64	-16.361	34.586	15.873	1.00	40.33	N	
ANISOU	58	N	ARG	A	64	5877	4012	5433	2040	-816	-1005	N
ATOM	59	CA	ARG	A	64	-17.122	35.233	14.815	1.00	41.37	C	
ANISOU	59	CA	ARG	A	64	6132	4065	5522	2269	-936	-993	C
ATOM	60	CB	ARG	A	64	-17.789	36.516	15.323	1.00	44.05	C	
ANISOU	60	CB	ARG	A	64	6676	4241	5821	2537	-1037	-1103	C
ATOM	61	CG	ARG	A	64	-18.408	37.359	14.212	1.00	48.94	C	
ANISOU	61	CG	ARG	A	64	7500	4720	6376	2785	-1181	-1075	C
ATOM	62	CD	ARG	A	64	-19.073	38.621	14.752	1.00	62.28	C	
ANISOU	62	CD	ARG	A	64	9430	6234	7999	3099	-1295	-1198	C
ATOM	63	NE	ARG	A	64	-18.124	39.485	15.448	1.00	71.11	N	
ANISOU	63	NE	ARG	A	64	10872	7055	9091	2950	-1308	-1170	N
ATOM	64	CZ	ARG	A	64	-17.250	40.280	14.839	1.00	76.27	C	
ANISOU	64	CZ	ARG	A	64	11901	7405	9674	2795	-1388	-1033	C
ATOM	65	NH1	ARG	A	64	-17.200	40.323	13.513	1.00	74.50	N	
ANISOU	65	NH1	ARG	A	64	11763	7126	9419	2780	-1467	-917	N
ATOM	66	NH2	ARG	A	64	-16.423	41.029	15.556	1.00	78.58	N	
ANISOU	66	NH2	ARG	A	64	12487	7463	9907	2625	-1392	-1010	N
ATOM	67	C	ARG	A	64	-16.238	35.557	13.619	1.00	38.51	C	
ANISOU	67	C	ARG	A	64	5976	3532	5125	2128	-986	-823	C
ATOM	68	O	ARG	A	64	-16.612	35.302	12.477	1.00	33.53	O	
ANISOU	68	O	ARG	A	64	5303	2953	4483	2189	-1029	-766	O
ATOM	69	N	GLU	A	65	-15.071	36.134	13.885	1.00	35.08	N	
ANISOU	69	N	GLU	A	65	5759	2920	4651	1917	-982	-743	N
ATOM	70	CA	GLU	A	65	-14.149	36.504	12.818	1.00	37.42	C	
ANISOU	70	CA	GLU	A	65	6254	3093	4872	1735	-1040	-584	C
ATOM	71	CB	GLU	A	65	-12.929	37.234	13.380	1.00	41.50	C	
ANISOU	71	CB	GLU	A	65	7015	3458	5297	1481	-1034	-514	C
ATOM	72	CG	GLU	A	65	-13.240	38.599	13.970	1.00	51.13	C	
ANISOU	72	CG	GLU	A	65	8577	4396	6455	1600	-1133	-574	C
ATOM	73	CD	GLU	A	65	-11.988	39.410	14.249	1.00	57.41	C	
ANISOU	73	CD	GLU	A	65	9681	5028	7103	1290	-1150	-469	C
ATOM	74	OE1	GLU	A	65	-10.899	38.998	13.792	1.00	54.25	O	
ANISOU	74	OE1	GLU	A	65	9224	4757	6630	996	-1104	-342	O
ATOM	75	OE2	GLU	A	65	-12.092	40.461	14.919	1.00	64.15	O	
ANISOU	75	OE2	GLU	A	65	10842	5643	7888	1338	-1212	-516	O
ATOM	76	C	GLU	A	65	-13.709	35.278	12.019	1.00	33.80	C	
ANISOU	76	C	GLU	A	65	5557	2851	4435	1590	-967	-498	C
ATOM	77	O	GLU	A	65	-13.653	35.311	10.791	1.00	29.96	O	
ANISOU	77	O	GLU	A	65	5118	2349	3916	1572	-1033	-408	O
ATOM	78	N	LEU	A	66	-13.401	34.197	12.725	1.00	32.22	N	
ANISOU	78	N	LEU	A	66	5117	2846	4280	1492	-839	-531	N
ATOM	79	CA	LEU	A	66	-13.009	32.954	12.067	1.00	31.56	C	
ANISOU	79	CA	LEU	A	66	4834	2958	4198	1389	-772	-467	C
ATOM	80	CB	LEU	A	66	-12.644	31.886	13.096	1.00	26.29	C	
ANISOU	80	CB	LEU	A	66	3969	2459	3561	1297	-646	-518	C
ATOM	81	CG	LEU	A	66	-12.297	30.507	12.527	1.00	25.11	C	
ANISOU	81	CG	LEU	A	66	3650	2495	3394	1230	-584	-472	C
ATOM	82	CD1	LEU	A	66	-11.301	30.618	11.380	1.00	21.77	C	
ANISOU	82	CD1	LEU	A	66	3305	2079	2887	1110	-615	-337	C
ATOM	83	CD2	LEU	A	66	-11.759	29.593	13.628	1.00	22.78	C	
ANISOU	83	CD2	LEU	A	66	3229	2324	3104	1134	-478	-513	C
ATOM	84	C	LEU	A	66	-14.124	32.455	11.154	1.00	33.83	C	
ANISOU	84	C	LEU	A	66	5002	3331	4519	1559	-808	-488	C
ATOM	85	O	LEU	A	66	-13.881	32.085	10.007	1.00	35.18	O	
ANISOU	85	O	LEU	A	66	5155	3547	4665	1504	-827	-396	O

ATOM	86	N	GLN	A	67	-15.347	32.450	11.672	1.00	35.67	N	
ANISOU	86	N	GLN	A	67	5144	3617	4790	1755	-817	-610	N
ATOM	87	CA	GLN	A	67	-16.509	32.051	10.890	1.00	35.84	C	
ANISOU	87	CA	GLN	A	67	5043	3765	4808	1913	-849	-635	C
ATOM	88	CB	GLN	A	67	-17.776	32.116	11.748	1.00	34.79	C	
ANISOU	88	CB	GLN	A	67	4788	3758	4674	2113	-854	-790	C
ATOM	89	CG	GLN	A	67	-17.917	30.942	12.703	1.00	37.53	C	
ANISOU	89	CG	GLN	A	67	4917	4319	5024	2005	-755	-869	C
ATOM	90	CD	GLN	A	67	-19.000	31.150	13.739	1.00	43.18	C	
ANISOU	90	CD	GLN	A	67	5512	5178	5718	2161	-768	-1033	C
ATOM	91	OE1	GLN	A	67	-19.272	32.277	14.152	1.00	48.56	O	
ANISOU	91	OE1	GLN	A	67	6308	5740	6403	2335	-831	-1099	O
ATOM	92	NE2	GLN	A	67	-19.620	30.060	14.175	1.00	43.05	N	
ANISOU	92	NE2	GLN	A	67	5279	5427	5652	2091	-719	-1104	N
ATOM	93	C	GLN	A	67	-16.651	32.917	9.639	1.00	35.52	C	
ANISOU	93	C	GLN	A	67	5173	3581	4742	1998	-961	-550	C
ATOM	94	O	GLN	A	67	-16.912	32.408	8.549	1.00	35.77	O	
ANISOU	94	O	GLN	A	67	5125	3701	4763	1992	-968	-484	O
ATOM	95	N	GLU	A	68	-16.463	34.225	9.799	1.00	35.03	N	
ANISOU	95	N	GLU	A	68	5367	3284	4658	2062	-1054	-547	N
ATOM	96	CA	GLU	A	68	-16.549	35.149	8.671	1.00	38.66	C	
ANISOU	96	CA	GLU	A	68	6047	3568	5076	2128	-1185	-465	C
ATOM	97	CB	GLU	A	68	-16.453	36.603	9.151	1.00	41.39	C	
ANISOU	97	CB	GLU	A	68	6730	3627	5368	2220	-1298	-493	C
ATOM	98	CG	GLU	A	68	-17.619	37.031	10.033	1.00	46.36	C	
ANISOU	98	CG	GLU	A	68	7341	4269	6003	2541	-1323	-656	C
ATOM	99	CD	GLU	A	68	-17.405	38.387	10.698	1.00	54.38	C	
ANISOU	99	CD	GLU	A	68	8722	4984	6956	2623	-1422	-696	C
ATOM	100	OE1	GLU	A	68	-16.295	38.948	10.581	1.00	57.22	O	
ANISOU	100	OE1	GLU	A	68	9349	5133	7258	2378	-1459	-590	O
ATOM	101	OE2	GLU	A	68	-18.353	38.887	11.342	1.00	51.58	O	
ANISOU	101	OE2	GLU	A	68	8393	4621	6583	2927	-1467	-836	O
ATOM	102	C	GLU	A	68	-15.474	34.843	7.628	1.00	37.57	C	
ANISOU	102	C	GLU	A	68	5940	3425	4911	1869	-1186	-312	C
ATOM	103	O	GLU	A	68	-15.742	34.857	6.426	1.00	37.57	O	
ANISOU	103	O	GLU	A	68	5944	3429	4900	1890	-1247	-240	O
ATOM	104	N	MET	A	69	-14.265	34.551	8.093	1.00	33.99	N	
ANISOU	104	N	MET	A	69	5487	2995	4431	1628	-1116	-268	N
ATOM	105	CA	MET	A	69	-13.174	34.200	7.193	1.00	30.98	C	
ANISOU	105	CA	MET	A	69	5098	2680	3992	1387	-1112	-139	C
ATOM	106	CB	MET	A	69	-11.860	34.062	7.962	1.00	29.04	C	
ANISOU	106	CB	MET	A	69	4864	2489	3680	1157	-1039	-110	C
ATOM	107	CG	MET	A	69	-10.676	33.711	7.083	1.00	29.44	C	
ANISOU	107	CG	MET	A	69	4882	2677	3628	921	-1037	11	C
ATOM	108	SD	MET	A	69	-9.088	33.911	7.915	1.00	31.70	S	
ANISOU	108	SD	MET	A	69	5225	3056	3764	641	-981	61	S
ATOM	109	CE	MET	A	69	-9.100	35.673	8.264	1.00	24.92	C	
ANISOU	109	CE	MET	A	69	4765	1887	2815	568	-1114	81	C
ATOM	110	C	MET	A	69	-13.494	32.913	6.438	1.00	32.82	C	
ANISOU	110	C	MET	A	69	5074	3127	4267	1406	-1043	-123	C
ATOM	111	O	MET	A	69	-13.260	32.810	5.234	1.00	33.94	O	
ANISOU	111	O	MET	A	69	5215	3302	4380	1329	-1087	-31	O
ATOM	112	N	VAL	A	70	-14.038	31.931	7.148	1.00	33.71	N	
ANISOU	112	N	VAL	A	70	4987	3387	4435	1489	-940	-213	N
ATOM	113	CA	VAL	A	70	-14.475	30.694	6.511	1.00	31.77	C	
ANISOU	113	CA	VAL	A	70	4544	3326	4201	1503	-880	-206	C
ATOM	114	CB	VAL	A	70	-15.130	29.731	7.530	1.00	27.92	C	
ANISOU	114	CB	VAL	A	70	3891	2980	3737	1566	-788	-318	C
ATOM	115	CG1	VAL	A	70	-15.818	28.581	6.817	1.00	29.48	C	
ANISOU	115	CG1	VAL	A	70	3944	3348	3909	1577	-749	-310	C
ATOM	116	CG2	VAL	A	70	-14.084	29.212	8.509	1.00	26.25	C	
ANISOU	116	CG2	VAL	A	70	3659	2803	3514	1432	-707	-333	C
ATOM	117	C	VAL	A	70	-15.431	30.985	5.344	1.00	32.28	C	
ANISOU	117	C	VAL	A	70	4611	3381	4274	1620	-956	-171	C
ATOM	118	O	VAL	A	70	-15.280	30.436	4.252	1.00	30.81	O	
ANISOU	118	O	VAL	A	70	4364	3272	4070	1545	-952	-91	O
ATOM	119	N	GLN	A	71	-16.401	31.866	5.574	1.00	34.04	N	
ANISOU	119	N	GLN	A	71	4906	3518	4511	1815	-1026	-232	N
ATOM	120	CA	GLN	A	71	-17.359	32.234	4.524	1.00	38.24	C	
ANISOU	120	CA	GLN	A	71	5442	4053	5036	1958	-1103	-202	C

ATOM	121	CB	GLN	A	71	-18.548	33.001	5.113	1.00	42.52	C	
ANISOU	121	CB	GLN	A	71	6014	4574	5566	2239	-1161	-313	C
ATOM	122	CG	GLN	A	71	-19.461	32.150	5.981	1.00	50.86	C	
ANISOU	122	CG	GLN	A	71	6834	5883	6606	2329	-1070	-435	C
ATOM	123	CD	GLN	A	71	-19.976	30.917	5.256	1.00	52.73	C	
ANISOU	123	CD	GLN	A	71	6859	6370	6807	2250	-996	-398	C
ATOM	124	OE1	GLN	A	71	-20.422	30.996	4.110	1.00	55.24	O	
ANISOU	124	OE1	GLN	A	71	7161	6725	7103	2289	-1034	-326	O
ATOM	125	NE2	GLN	A	71	-19.923	29.769	5.927	1.00	47.67	N	
ANISOU	125	NE2	GLN	A	71	6075	5893	6143	2124	-895	-446	N
ATOM	126	C	GLN	A	71	-16.712	33.045	3.402	1.00	41.01	C	
ANISOU	126	C	GLN	A	71	5983	4233	5367	1861	-1213	-78	C
ATOM	127	O	GLN	A	71	-16.943	32.783	2.220	1.00	43.85	O	
ANISOU	127	O	GLN	A	71	6282	4655	5724	1832	-1235	-1	O
ATOM	128	N	ALA	A	72	-15.904	34.029	3.779	1.00	38.62	N	
ANISOU	128	N	ALA	A	72	5918	3725	5031	1782	-1287	-57	N
ATOM	129	CA	ALA	A	72	-15.241	34.885	2.807	1.00	40.58	C	
ANISOU	129	CA	ALA	A	72	6386	3810	5220	1641	-1414	60	C
ATOM	130	CB	ALA	A	72	-14.401	35.941	3.512	1.00	41.84	C	
ANISOU	130	CB	ALA	A	72	6836	3758	5302	1529	-1486	67	C
ATOM	131	C	ALA	A	72	-14.385	34.060	1.852	1.00	39.74	C	
ANISOU	131	C	ALA	A	72	6143	3864	5094	1401	-1370	162	C
ATOM	132	O	ALA	A	72	-14.458	34.227	0.635	1.00	35.86	O	
ANISOU	132	O	ALA	A	72	5672	3364	4587	1347	-1446	247	O
ATOM	133	N	GLN	A	73	-13.583	33.159	2.407	1.00	35.76	N	
ANISOU	133	N	GLN	A	73	5495	3513	4579	1271	-1253	148	N
ATOM	134	CA	GLN	A	73	-12.705	32.324	1.594	1.00	37.56	C	
ANISOU	134	CA	GLN	A	73	5590	3919	4762	1082	-1210	226	C
ATOM	135	CB	GLN	A	73	-11.722	31.556	2.481	1.00	34.15	C	
ANISOU	135	CB	GLN	A	73	5060	3629	4287	983	-1098	195	C
ATOM	136	CG	GLN	A	73	-10.738	32.456	3.208	1.00	41.40	C	
ANISOU	136	CG	GLN	A	73	6151	4467	5112	834	-1137	213	C
ATOM	137	CD	GLN	A	73	-9.890	33.275	2.253	1.00	50.02	C	
ANISOU	137	CD	GLN	A	73	7393	5542	6070	607	-1260	327	C
ATOM	138	OE1	GLN	A	73	-9.866	34.505	2.320	1.00	50.79	O	
ANISOU	138	OE1	GLN	A	73	7752	5438	6109	543	-1378	356	O
ATOM	139	NE2	GLN	A	73	-9.193	32.594	1.350	1.00	54.16	N	
ANISOU	139	NE2	GLN	A	73	7771	6283	6526	478	-1245	388	N
ATOM	140	C	GLN	A	73	-13.492	31.367	0.706	1.00	37.51	C	
ANISOU	140	C	GLN	A	73	5395	4048	4810	1163	-1161	236	C
ATOM	141	O	GLN	A	73	-13.093	31.081	-0.421	1.00	39.12	O	
ANISOU	141	O	GLN	A	73	5546	4336	4982	1042	-1184	318	O
ATOM	142	N	ALA	A	74	-14.615	30.876	1.216	1.00	34.58	N	
ANISOU	142	N	ALA	A	74	4919	3720	4499	1346	-1096	152	N
ATOM	143	CA	ALA	A	74	-15.449	29.958	0.456	1.00	34.83	C	
ANISOU	143	CA	ALA	A	74	4788	3899	4548	1397	-1044	163	C
ATOM	144	CB	ALA	A	74	-16.565	29.406	1.331	1.00	35.95	C	
ANISOU	144	CB	ALA	A	74	4820	4135	4703	1551	-969	56	C
ATOM	145	C	ALA	A	74	-16.021	30.666	-0.772	1.00	38.19	C	
ANISOU	145	C	ALA	A	74	5262	4264	4985	1429	-1145	240	C
ATOM	146	O	ALA	A	74	-16.201	30.059	-1.826	1.00	33.50	O	
ANISOU	146	O	ALA	A	74	4563	3780	4387	1368	-1123	303	O
ATOM	147	N	ALA	A	75	-16.285	31.961	-0.629	1.00	38.17	N	
ANISOU	147	N	ALA	A	75	5442	4075	4987	1527	-1261	235	N
ATOM	148	CA	ALA	A	75	-16.893	32.743	-1.700	1.00	41.81	C	
ANISOU	148	CA	ALA	A	75	5986	4450	5449	1592	-1377	301	C
ATOM	149	CB	ALA	A	75	-17.109	34.177	-1.249	1.00	38.36	C	
ANISOU	149	CB	ALA	A	75	5818	3766	4991	1734	-1515	271	C
ATOM	150	C	ALA	A	75	-16.069	32.703	-2.986	1.00	45.27	C	
ANISOU	150	C	ALA	A	75	6435	4901	5865	1356	-1430	426	C
ATOM	151	O	ALA	A	75	-16.605	32.876	-4.079	1.00	44.44	O	
ANISOU	151	O	ALA	A	75	6309	4805	5772	1367	-1485	494	O
ATOM	152	N	SER	A	76	-14.767	32.468	-2.849	1.00	49.32	N	
ANISOU	152	N	SER	A	76	6963	5447	6329	1141	-1412	454	N
ATOM	153	CA	SER	A	76	-13.872	32.415	-4.002	1.00	51.21	C	
ANISOU	153	CA	SER	A	76	7188	5755	6514	901	-1466	559	C
ATOM	154	CB	SER	A	76	-12.407	32.449	-3.551	1.00	50.13	C	
ANISOU	154	CB	SER	A	76	7100	5675	6274	692	-1467	570	C
ATOM	155	OG	SER	A	76	-12.024	31.228	-2.937	1.00	45.84	O	
ANISOU	155	OG	SER	A	76	6373	5313	5729	716	-1316	512	O

ATOM	156	C	SER	A	76	-14.124	31.178	-4.861	1.00	49.57	C	
ANISOU	156	C	SER	A	76	6743	5756	6336	877	-1366	586	C
ATOM	157	O	SER	A	76	-13.829	31.173	-6.055	1.00	50.74	O	
ANISOU	157	O	SER	A	76	6852	5964	6463	730	-1419	672	O
ATOM	158	N	GLY	A	77	-14.669	30.133	-4.247	1.00	45.42	N	
ANISOU	158	N	GLY	A	77	6076	5339	5842	1001	-1229	512	N
ATOM	159	CA	GLY	A	77	-14.938	28.888	-4.944	1.00	38.87	C	
ANISOU	159	CA	GLY	A	77	5071	4687	5010	972	-1130	532	C
ATOM	160	C	GLY	A	77	-13.777	27.908	-4.900	1.00	36.83	C	
ANISOU	160	C	GLY	A	77	4745	4566	4684	856	-1060	526	C
ATOM	161	O	GLY	A	77	-13.878	26.796	-5.414	1.00	39.26	O	
ANISOU	161	O	GLY	A	77	4949	5003	4966	839	-981	533	O
ATOM	162	N	GLU	A	78	-12.668	28.328	-4.295	1.00	38.46	N	
ANISOU	162	N	GLU	A	78	5023	4754	4836	782	-1094	512	N
ATOM	163	CA	GLU	A	78	-11.509	27.458	-4.126	1.00	36.63	C	
ANISOU	163	CA	GLU	A	78	4721	4686	4510	714	-1032	494	C
ATOM	164	CB	GLU	A	78	-10.431	28.159	-3.290	1.00	36.15	C	
ANISOU	164	CB	GLU	A	78	4745	4618	4373	633	-1072	481	C
ATOM	165	CG	GLU	A	78	-9.044	27.536	-3.385	1.00	30.40	C	
ANISOU	165	CG	GLU	A	78	3931	4123	3498	539	-1044	485	C
ATOM	166	CD	GLU	A	78	-8.638	26.782	-2.127	1.00	39.25	C	
ANISOU	166	CD	GLU	A	78	5029	5301	4584	645	-940	402	C
ATOM	167	OE1	GLU	A	78	-9.398	26.799	-1.136	1.00	34.58	O	
ANISOU	167	OE1	GLU	A	78	4489	4561	4087	758	-894	342	O
ATOM	168	OE2	GLU	A	78	-7.546	26.179	-2.129	1.00	45.23	O	
ANISOU	168	OE2	GLU	A	78	5710	6271	5204	621	-910	393	O
ATOM	169	C	GLU	A	78	-11.973	26.172	-3.456	1.00	35.40	C	
ANISOU	169	C	GLU	A	78	4505	4582	4361	845	-904	417	C
ATOM	170	O	GLU	A	78	-12.694	26.213	-2.461	1.00	34.38	O	
ANISOU	170	O	GLU	A	78	4411	4369	4285	953	-867	352	O
ATOM	171	N	GLU	A	79	-11.577	25.034	-4.016	1.00	30.51	N	
ANISOU	171	N	GLU	A	79	3816	4105	3672	831	-848	422	N
ATOM	172	CA	GLU	A	79	-12.114	23.747	-3.585	1.00	29.61	C	
ANISOU	172	CA	GLU	A	79	3699	4017	3533	927	-747	363	C
ATOM	173	CB	GLU	A	79	-11.428	22.594	-4.325	1.00	30.39	C	
ANISOU	173	CB	GLU	A	79	3771	4256	3521	915	-710	373	C
ATOM	174	CG	GLU	A	79	-12.009	21.241	-3.976	1.00	33.21	C	
ANISOU	174	CG	GLU	A	79	4194	4606	3818	991	-625	320	C
ATOM	175	CD	GLU	A	79	-11.332	20.091	-4.705	1.00	39.32	C	
ANISOU	175	CD	GLU	A	79	4992	5487	4460	1013	-599	322	C
ATOM	176	OE1	GLU	A	79	-10.485	20.351	-5.588	1.00	36.90	O	
ANISOU	176	OE1	GLU	A	79	4606	5297	4117	970	-644	363	O
ATOM	177	OE2	GLU	A	79	-11.654	18.925	-4.384	1.00	34.92	O	
ANISOU	177	OE2	GLU	A	79	4550	4903	3815	1070	-544	277	O
ATOM	178	C	GLU	A	79	-12.032	23.514	-2.077	1.00	28.43	C	
ANISOU	178	C	GLU	A	79	3600	3822	3377	1010	-698	274	C
ATOM	179	O	GLU	A	79	-13.025	23.167	-1.443	1.00	27.30	O	
ANISOU	179	O	GLU	A	79	3478	3632	3263	1069	-655	223	O
ATOM	180	N	LEU	A	80	-10.851	23.693	-1.502	1.00	24.06	N	
ANISOU	180	N	LEU	A	80	3056	3317	2768	997	-705	256	N
ATOM	181	CA	LEU	A	80	-10.686	23.408	-0.078	1.00	23.51	C	
ANISOU	181	CA	LEU	A	80	3025	3218	2690	1064	-653	176	C
ATOM	182	CB	LEU	A	80	-9.209	23.430	0.322	1.00	25.50	C	
ANISOU	182	CB	LEU	A	80	3261	3593	2836	1042	-652	172	C
ATOM	183	CG	LEU	A	80	-8.896	23.050	1.774	1.00	26.57	C	
ANISOU	183	CG	LEU	A	80	3427	3719	2950	1106	-592	96	C
ATOM	184	CD1	LEU	A	80	-9.710	21.832	2.213	1.00	27.20	C	
ANISOU	184	CD1	LEU	A	80	3559	3744	3031	1198	-535	32	C
ATOM	185	CD2	LEU	A	80	-7.399	22.811	1.978	1.00	25.60	C	
ANISOU	185	CD2	LEU	A	80	3263	3789	2675	1108	-580	98	C
ATOM	186	C	LEU	A	80	-11.506	24.376	0.776	1.00	26.38	C	
ANISOU	186	C	LEU	A	80	3420	3439	3163	1084	-672	143	C
ATOM	187	O	LEU	A	80	-12.194	23.960	1.706	1.00	25.48	O	
ANISOU	187	O	LEU	A	80	3318	3288	3075	1147	-625	71	O
ATOM	188	N	ALA	A	81	-11.443	25.664	0.441	1.00	28.54	N	
ANISOU	188	N	ALA	A	81	3724	3639	3481	1028	-753	193	N
ATOM	189	CA	ALA	A	81	-12.185	26.688	1.173	1.00	27.36	C	
ANISOU	189	CA	ALA	A	81	3637	3340	3417	1080	-789	158	C
ATOM	190	CB	ALA	A	81	-11.926	28.064	0.574	1.00	26.10	C	
ANISOU	190	CB	ALA	A	81	3573	3080	3264	1003	-903	229	C

ATOM	191	C	ALA	A	81	-13.680	26.390	1.194	1.00	31.59		C
ANISOU	191	C	ALA	A	81	4133	3858	4010	1191	-766	115	C
ATOM	192	O	ALA	A	81	-14.352	26.580	2.213	1.00	25.18		O
ANISOU	192	O	ALA	A	81	3326	3006	3234	1276	-749	35	O
ATOM	193	N	VAL	A	82	-14.197	25.924	0.061	1.00	31.06		N
ANISOU	193	N	VAL	A	82	4015	3856	3933	1178	-766	166	N
ATOM	194	CA	VAL	A	82	-15.606	25.578	-0.050	1.00	27.70		C
ANISOU	194	CA	VAL	A	82	3532	3478	3514	1251	-739	140	C
ATOM	195	CB	VAL	A	82	-16.004	25.260	-1.514	1.00	27.35		C
ANISOU	195	CB	VAL	A	82	3438	3504	3451	1198	-746	227	C
ATOM	196	CG1	VAL	A	82	-17.402	24.662	-1.569	1.00	27.80		C
ANISOU	196	CG1	VAL	A	82	3424	3676	3461	1237	-696	203	C
ATOM	197	CG2	VAL	A	82	-15.914	26.517	-2.377	1.00	24.57		C
ANISOU	197	CG2	VAL	A	82	3119	3060	3157	1188	-850	303	C
ATOM	198	C	VAL	A	82	-15.926	24.385	0.840	1.00	24.87		C
ANISOU	198	C	VAL	A	82	3151	3206	3092	1257	-653	60	C
ATOM	199	O	VAL	A	82	-16.954	24.364	1.511	1.00	29.51		O
ANISOU	199	O	VAL	A	82	3702	3841	3670	1316	-638	-7	O
ATOM	200	N	ALA	A	83	-15.036	23.394	0.850	1.00	23.02		N
ANISOU	200	N	ALA	A	83	2948	3007	2793	1198	-608	64	N
ATOM	201	CA	ALA	A	83	-15.231	22.204	1.679	1.00	25.13		C
ANISOU	201	CA	ALA	A	83	3249	3324	2975	1189	-545	-6	C
ATOM	202	CB	ALA	A	83	-14.197	21.121	1.336	1.00	22.47		C
ANISOU	202	CB	ALA	A	83	2981	3013	2542	1162	-515	14	C
ATOM	203	C	ALA	A	83	-15.185	22.527	3.167	1.00	26.73		C
ANISOU	203	C	ALA	A	83	3455	3487	3213	1226	-537	-95	C
ATOM	204	O	ALA	A	83	-15.936	21.949	3.953	1.00	25.53		O
ANISOU	204	O	ALA	A	83	3301	3387	3011	1215	-510	-166	O
ATOM	205	N	VAL	A	84	-14.302	23.440	3.558	1.00	25.28		N
ANISOU	205	N	VAL	A	84	3281	3227	3096	1243	-563	-89	N
ATOM	206	CA	VAL	A	84	-14.217	23.826	4.960	1.00	23.99		C
ANISOU	206	CA	VAL	A	84	3121	3021	2973	1267	-551	-169	C
ATOM	207	CB	VAL	A	84	-13.116	24.882	5.227	1.00	24.57		C
ANISOU	207	CB	VAL	A	84	3232	3016	3087	1246	-579	-138	C
ATOM	208	CG1	VAL	A	84	-13.289	25.490	6.624	1.00	22.78		C
ANISOU	208	CG1	VAL	A	84	3013	2727	2915	1272	-570	-219	C
ATOM	209	CG2	VAL	A	84	-11.724	24.272	5.062	1.00	23.84		C
ANISOU	209	CG2	VAL	A	84	3150	2997	2909	1191	-550	-98	C
ATOM	210	C	VAL	A	84	-15.568	24.364	5.426	1.00	26.67		C
ANISOU	210	C	VAL	A	84	3411	3368	3353	1334	-571	-233	C
ATOM	211	O	VAL	A	84	-16.099	23.932	6.446	1.00	28.18		O
ANISOU	211	O	VAL	A	84	3571	3615	3519	1333	-543	-321	O
ATOM	212	N	ALA	A	85	-16.125	25.300	4.664	1.00	30.62		N
ANISOU	212	N	ALA	A	85	3903	3833	3897	1397	-629	-194	N
ATOM	213	CA	ALA	A	85	-17.397	25.914	5.034	1.00	30.36		C
ANISOU	213	CA	ALA	A	85	3817	3841	3880	1513	-660	-261	C
ATOM	214	CB	ALA	A	85	-17.833	26.929	3.980	1.00	30.93		C
ANISOU	214	CB	ALA	A	85	3911	3854	3985	1602	-737	-198	C
ATOM	215	C	ALA	A	85	-18.476	24.856	5.237	1.00	29.68		C
ANISOU	215	C	ALA	A	85	3635	3951	3690	1484	-615	-316	C
ATOM	216	O	ALA	A	85	-19.214	24.885	6.219	1.00	32.76		O
ANISOU	216	O	ALA	A	85	3959	4438	4048	1526	-611	-417	O
ATOM	217	N	GLU	A	86	-18.548	23.907	4.310	1.00	38.49		N
ANISOU	217	N	GLU	A	86	2979	7476	4169	1653	-814	-1739	N
ATOM	218	CA	GLU	A	86	-19.559	22.860	4.372	1.00	41.16		C
ANISOU	218	CA	GLU	A	86	3056	7789	4793	1593	-961	-1994	C
ATOM	219	CB	GLU	A	86	-19.570	22.058	3.067	1.00	52.40		C
ANISOU	219	CB	GLU	A	86	4215	9556	6139	1675	-1172	-2390	C
ATOM	220	CG	GLU	A	86	-20.664	21.012	2.994	1.00	67.50		C
ANISOU	220	CG	GLU	A	86	5814	11466	8367	1618	-1337	-2700	C
ATOM	221	CD	GLU	A	86	-20.737	20.344	1.636	1.00	82.74		C
ANISOU	221	CD	GLU	A	86	7469	13786	10182	1728	-1560	-3126	C
ATOM	222	OE1	GLU	A	86	-20.069	20.827	0.697	1.00	86.57		O
ANISOU	222	OE1	GLU	A	86	8013	14604	10277	1890	-1575	-3131	O
ATOM	223	OE2	GLU	A	86	-21.465	19.337	1.507	1.00	90.33		O
ANISOU	223	OE2	GLU	A	86	8145	14726	11450	1659	-1715	-3462	O
ATOM	224	C	GLU	A	86	-19.327	21.933	5.566	1.00	37.70		C
ANISOU	224	C	GLU	A	86	2641	6921	4760	1375	-929	-2033	C
ATOM	225	O	GLU	A	86	-20.276	21.490	6.208	1.00	40.52		O
ANISOU	225	O	GLU	A	86	2884	7109	5405	1305	-933	-2036	O

ATOM	226	N	ARG	A	87	-18.060	21.664	5.869	1.00	32.00	N	
ANISOU	226	N	ARG	A	87	2065	6034	4061	1283	-884	-2041	N
ATOM	227	CA	ARG	A	87	-17.700	20.684	6.891	1.00	30.56	C	
ANISOU	227	CA	ARG	A	87	1891	5481	4240	1105	-861	-2089	C
ATOM	228	CB	ARG	A	87	-16.314	20.081	6.605	1.00	33.33	C	
ANISOU	228	CB	ARG	A	87	2281	5801	4582	1049	-900	-2256	C
ATOM	229	CG	ARG	A	87	-16.201	19.315	5.289	1.00	44.21	C	
ANISOU	229	CG	ARG	A	87	3427	7452	5920	1108	-1083	-2642	C
ATOM	230	CD	ARG	A	87	-17.151	18.134	5.242	1.00	51.41	C	
ANISOU	230	CD	ARG	A	87	4048	8280	7206	1040	-1212	-2928	C
ATOM	231	NE	ARG	A	87	-16.980	17.335	4.030	1.00	55.35	N	
ANISOU	231	NE	ARG	A	87	4315	9025	7690	1091	-1398	-3352	N
ATOM	232	CZ	ARG	A	87	-16.319	16.183	3.983	1.00	51.90	C	
ANISOU	232	CZ	ARG	A	87	3779	8429	7511	998	-1464	-3623	C
ATOM	233	NH1	ARG	A	87	-15.764	15.690	5.083	1.00	44.98	N	
ANISOU	233	NH1	ARG	A	87	3015	7154	6921	855	-1356	-3487	N
ATOM	234	NH2	ARG	A	87	-16.219	15.520	2.839	1.00	54.00	N	
ANISOU	234	NH2	ARG	A	87	3828	8946	7744	1063	-1638	-4035	N
ATOM	235	C	ARG	A	87	-17.727	21.214	8.327	1.00	32.89	C	
ANISOU	235	C	ARG	A	87	2403	5467	4624	1036	-684	-1756	C
ATOM	236	O	ARG	A	87	-17.613	20.433	9.274	1.00	31.14	O	
ANISOU	236	O	ARG	A	87	2178	4954	4699	917	-648	-1747	O
ATOM	237	N	VAL	A	88	-17.855	22.526	8.506	1.00	31.55	N	
ANISOU	237	N	VAL	A	88	2420	5362	4204	1123	-566	-1484	N
ATOM	238	CA	VAL	A	88	-17.858	23.076	9.865	1.00	27.71	C	
ANISOU	238	CA	VAL	A	88	2142	4607	3780	1073	-404	-1203	C
ATOM	239	CB	VAL	A	88	-16.683	24.066	10.116	1.00	30.22	C	
ANISOU	239	CB	VAL	A	88	2728	4887	3869	1080	-291	-1035	C
ATOM	240	CG1	VAL	A	88	-15.336	23.368	9.941	1.00	25.50	C	
ANISOU	240	CG1	VAL	A	88	2145	4245	3299	997	-345	-1199	C
ATOM	241	CG2	VAL	A	88	-16.795	25.287	9.213	1.00	32.27	C	
ANISOU	241	CG2	VAL	A	88	3047	5395	3820	1222	-248	-923	C
ATOM	242	C	VAL	A	88	-19.171	23.760	10.236	1.00	29.98	C	
ANISOU	242	C	VAL	A	88	2419	4906	4065	1148	-332	-1013	C
ATOM	243	O	VAL	A	88	-19.262	24.398	11.279	1.00	29.50	O	
ANISOU	243	O	VAL	A	88	2535	4669	4004	1142	-192	-779	O
ATOM	244	N	GLN	A	89	-20.190	23.611	9.396	1.00	25.35	N	
ANISOU	244	N	GLN	A	89	1615	4541	3477	1228	-434	-1132	N
ATOM	245	CA	GLN	A	89	-21.437	24.341	9.613	1.00	29.24	C	
ANISOU	245	CA	GLN	A	89	2085	5088	3938	1323	-369	-950	C
ATOM	246	CB	GLN	A	89	-22.317	24.343	8.352	1.00	32.40	C	
ANISOU	246	CB	GLN	A	89	2245	5839	4228	1452	-509	-1107	C
ATOM	247	CG	GLN	A	89	-22.731	22.978	7.847	1.00	37.84	C	
ANISOU	247	CG	GLN	A	89	2619	6581	5177	1380	-691	-1456	C
ATOM	248	CD	GLN	A	89	-23.452	23.048	6.508	1.00	43.54	C	
ANISOU	248	CD	GLN	A	89	3103	7715	5726	1532	-853	-1653	C
ATOM	249	OE1	GLN	A	89	-24.246	23.958	6.261	1.00	43.59	O	
ANISOU	249	OE1	GLN	A	89	3108	7912	5542	1682	-818	-1485	O
ATOM	250	NE2	GLN	A	89	-23.180	22.082	5.639	1.00	47.24	N	
ANISOU	250	NE2	GLN	A	89	3361	8333	6255	1509	-1034	-2018	N
ATOM	251	C	GLN	A	89	-22.229	23.885	10.845	1.00	33.72	C	
ANISOU	251	C	GLN	A	89	2614	5386	4812	1240	-291	-844	C
ATOM	252	O	GLN	A	89	-23.075	24.623	11.345	1.00	34.37	O	
ANISOU	252	O	GLN	A	89	2747	5450	4862	1311	-188	-633	O
ATOM	253	N	GLU	A	90	-21.953	22.683	11.344	1.00	33.86	N	
ANISOU	253	N	GLU	A	90	2539	5194	5131	1104	-323	-970	N
ATOM	254	CA	GLU	A	90	-22.653	22.195	12.532	1.00	33.03	C	
ANISOU	254	CA	GLU	A	90	2390	4833	5328	1039	-223	-836	C
ATOM	255	CB	GLU	A	90	-22.954	20.699	12.421	1.00	36.94	C	
ANISOU	255	CB	GLU	A	90	2603	5209	6224	925	-317	-1068	C
ATOM	256	CG	GLU	A	90	-23.727	20.296	11.182	1.00	48.15	C	
ANISOU	256	CG	GLU	A	90	3720	6867	7707	953	-494	-1357	C
ATOM	257	CD	GLU	A	90	-24.120	18.830	11.199	1.00	57.22	C	
ANISOU	257	CD	GLU	A	90	4571	7841	9328	825	-567	-1593	C
ATOM	258	OE1	GLU	A	90	-23.930	18.177	12.247	1.00	60.46	O	
ANISOU	258	OE1	GLU	A	90	5013	7933	10027	729	-449	-1466	O
ATOM	259	OE2	GLU	A	90	-24.622	18.333	10.168	1.00	57.88	O	
ANISOU	259	OE2	GLU	A	90	4380	8109	9504	830	-738	-1906	O
ATOM	260	C	GLU	A	90	-21.879	22.456	13.825	1.00	34.22	C	
ANISOU	260	C	GLU	A	90	2804	4743	5455	1001	-68	-612	C

ATOM	261	O	GLU	A	90	-22.396	22.235	14.921	1.00	35.45	O	
ANISOU	261	O	GLU	A	90	2967	4710	5792	984	47	-442	O
ATOM	262	N	LYS	A	91	-20.642	22.925	13.700	1.00	30.40	N	
ANISOU	262	N	LYS	A	91	2523	4283	4744	1000	-66	-614	N
ATOM	263	CA	LYS	A	91	-19.754	23.037	14.857	1.00	28.75	C	
ANISOU	263	CA	LYS	A	91	2533	3873	4517	959	44	-468	C
ATOM	264	CB	LYS	A	91	-18.304	23.195	14.397	1.00	22.64	C	
ANISOU	264	CB	LYS	A	91	1887	3149	3565	927	-7	-574	C
ATOM	265	CG	LYS	A	91	-17.822	22.069	13.498	1.00	22.47	C	
ANISOU	265	CG	LYS	A	91	1683	3180	3675	862	-154	-846	C
ATOM	266	CD	LYS	A	91	-17.734	20.756	14.266	1.00	30.88	C	
ANISOU	266	CD	LYS	A	91	2645	4010	5077	771	-149	-883	C
ATOM	267	CE	LYS	A	91	-17.294	19.617	13.354	1.00	34.03	C	
ANISOU	267	CE	LYS	A	91	2850	4438	5643	708	-293	-1181	C
ATOM	268	NZ	LYS	A	91	-17.042	18.367	14.115	1.00	34.19	N	
ANISOU	268	NZ	LYS	A	91	2787	4195	6007	627	-266	-1193	N
ATOM	269	C	LYS	A	91	-20.129	24.178	15.807	1.00	32.81	C	
ANISOU	269	C	LYS	A	91	3248	4335	4885	1038	199	-207	C
ATOM	270	O	LYS	A	91	-20.556	25.248	15.372	1.00	28.89	O	
ANISOU	270	O	LYS	A	91	2812	3971	4194	1127	229	-133	O
ATOM	271	N	ASP	A	92	-19.957	23.942	17.105	1.00	33.28	N	
ANISOU	271	N	ASP	A	92	3405	4207	5034	1020	302	-68	N
ATOM	272	CA	ASP	A	92	-20.226	24.971	18.105	1.00	34.24	C	
ANISOU	272	CA	ASP	A	92	3720	4280	5011	1102	446	146	C
ATOM	273	CB	ASP	A	92	-20.616	24.348	19.452	1.00	34.06	C	
ANISOU	273	CB	ASP	A	92	3685	4094	5160	1113	555	302	C
ATOM	274	CG	ASP	A	92	-19.489	23.545	20.082	1.00	38.34	C	
ANISOU	274	CG	ASP	A	92	4280	4522	5765	1054	543	273	C
ATOM	275	OD1	ASP	A	92	-18.321	23.707	19.674	1.00	39.65	O	
ANISOU	275	OD1	ASP	A	92	4541	4724	5800	1009	467	146	O
ATOM	276	OD2	ASP	A	92	-19.773	22.750	21.001	1.00	46.09	O	
ANISOU	276	OD2	ASP	A	92	5200	5380	6930	1066	621	396	O
ATOM	277	C	ASP	A	92	-19.029	25.899	18.260	1.00	35.36	C	
ANISOU	277	C	ASP	A	92	4101	4425	4907	1107	470	145	C
ATOM	278	O	ASP	A	92	-17.991	25.693	17.634	1.00	31.89	O	
ANISOU	278	O	ASP	A	92	3674	4024	4418	1044	383	1	O
ATOM	279	N	SER	A	93	-19.177	26.920	19.096	1.00	30.13	N	
ANISOU	279	N	SER	A	93	3618	3721	4110	1181	590	290	N
ATOM	280	CA	SER	A	93	-18.111	27.893	19.308	1.00	30.40	C	
ANISOU	280	CA	SER	A	93	3865	3736	3950	1180	622	272	C
ATOM	281	CB	SER	A	93	-18.597	29.023	20.223	1.00	36.47	C	
ANISOU	281	CB	SER	A	93	4794	4452	4609	1279	760	414	C
ATOM	282	OG	SER	A	93	-19.538	29.843	19.550	1.00	42.72	O	
ANISOU	282	OG	SER	A	93	5561	5316	5353	1357	804	489	O
ATOM	283	C	SER	A	93	-16.872	27.246	19.909	1.00	29.42	C	
ANISOU	283	C	SER	A	93	3797	3539	3844	1107	580	191	C
ATOM	284	O	SER	A	93	-15.746	27.650	19.619	1.00	31.89	O	
ANISOU	284	O	SER	A	93	4202	3863	4052	1058	545	93	O
ATOM	285	N	GLY	A	94	-17.088	26.252	20.760	1.00	23.92	N	
ANISOU	285	N	GLY	A	94	3033	2767	3289	1109	595	248	N
ATOM	286	CA	GLY	A	94	-15.994	25.557	21.408	1.00	27.96	C	
ANISOU	286	CA	GLY	A	94	3582	3222	3820	1067	562	202	C
ATOM	287	C	GLY	A	94	-15.049	24.953	20.390	1.00	27.99	C	
ANISOU	287	C	GLY	A	94	3506	3257	3872	968	436	21	C
ATOM	288	O	GLY	A	94	-13.832	24.996	20.556	1.00	24.50	O	
ANISOU	288	O	GLY	A	94	3150	2813	3346	927	397	-60	O
ATOM	289	N	PHE	A	95	-15.616	24.390	19.330	1.00	26.11	N	
ANISOU	289	N	PHE	A	95	3092	3064	3763	932	368	-58	N
ATOM	290	CA	PHE	A	95	-14.819	23.796	18.263	1.00	24.26	C	
ANISOU	290	CA	PHE	A	95	2764	2887	3566	854	246	-251	C
ATOM	291	CB	PHE	A	95	-15.744	23.208	17.195	1.00	26.57	C	
ANISOU	291	CB	PHE	A	95	2840	3253	4002	843	171	-349	C
ATOM	292	CG	PHE	A	95	-15.035	22.721	15.963	1.00	24.11	C	
ANISOU	292	CG	PHE	A	95	2426	3047	3688	790	43	-572	C
ATOM	293	CD1	PHE	A	95	-14.542	21.426	15.894	1.00	24.40	C	
ANISOU	293	CD1	PHE	A	95	2336	3002	3934	724	-30	-709	C
ATOM	294	CE1	PHE	A	95	-13.902	20.970	14.754	1.00	26.42	C	
ANISOU	294	CE1	PHE	A	95	2492	3366	4180	690	-147	-935	C
ATOM	295	CZ	PHE	A	95	-13.751	21.811	13.670	1.00	30.78	C	
ANISOU	295	CZ	PHE	A	95	3070	4131	4492	730	-186	-1003	C

ATOM	296	CE2	PHE	A	95	-14.243	23.103	13.723	1.00	27.11	C	
ANISOU	296	CE2	PHE	A	95	2730	3741	3828	799	-102	-838	C
ATOM	297	CD2	PHE	A	95	-14.882	23.551	14.866	1.00	25.25	C	
ANISOU	297	CD2	PHE	A	95	2595	3376	3624	823	8	-635	C
ATOM	298	C	PHE	A	95	-13.866	24.820	17.649	1.00	24.52	C	
ANISOU	298	C	PHE	A	95	2929	3014	3374	841	229	-321	C
ATOM	299	O	PHE	A	95	-12.676	24.551	17.491	1.00	26.01	O	
ANISOU	299	O	PHE	A	95	3143	3205	3536	786	176	-428	O
ATOM	300	N	PHE	A	96	-14.389	26.000	17.315	1.00	21.40	N	
ANISOU	300	N	PHE	A	96	2609	2687	2836	898	290	-245	N
ATOM	301	CA	PHE	A	96	-13.576	27.031	16.678	1.00	24.97	C	
ANISOU	301	CA	PHE	A	96	3169	3207	3111	892	306	-277	C
ATOM	302	CB	PHE	A	96	-14.448	28.167	16.124	1.00	27.38	C	
ANISOU	302	CB	PHE	A	96	3506	3590	3307	980	380	-166	C
ATOM	303	CG	PHE	A	96	-15.321	27.752	14.971	1.00	29.49	C	
ANISOU	303	CG	PHE	A	96	3591	4021	3593	1026	308	-207	C
ATOM	304	CD1	PHE	A	96	-14.794	27.630	13.696	1.00	28.31	C	
ANISOU	304	CD1	PHE	A	96	3361	4037	3360	1025	232	-322	C
ATOM	305	CE1	PHE	A	96	-15.590	27.244	12.633	1.00	28.48	C	
ANISOU	305	CE1	PHE	A	96	3200	4250	3373	1087	148	-393	C
ATOM	306	CZ	PHE	A	96	-16.931	26.973	12.836	1.00	28.25	C	
ANISOU	306	CZ	PHE	A	96	3057	4229	3448	1132	137	-351	C
ATOM	307	CE2	PHE	A	96	-17.473	27.093	14.103	1.00	27.40	C	
ANISOU	307	CE2	PHE	A	96	3028	3938	3445	1124	227	-214	C
ATOM	308	CD2	PHE	A	96	-16.667	27.478	15.164	1.00	27.33	C	
ANISOU	308	CD2	PHE	A	96	3212	3757	3415	1079	313	-142	C
ATOM	309	C	PHE	A	96	-12.503	27.573	17.627	1.00	27.67	C	
ANISOU	309	C	PHE	A	96	3681	3447	3384	859	355	-272	C
ATOM	310	O	PHE	A	96	-11.410	27.927	17.198	1.00	24.12	O	
ANISOU	310	O	PHE	A	96	3278	3023	2865	804	336	-348	O
ATOM	311	N	LEU	A	97	-12.812	27.619	18.918	1.00	27.46	N	
ANISOU	311	N	LEU	A	97	3734	3325	3375	889	411	-182	N
ATOM	312	CA	LEU	A	97	-11.860	28.124	19.905	1.00	24.92	C	
ANISOU	312	CA	LEU	A	97	3556	2943	2968	859	431	-193	C
ATOM	313	CB	LEU	A	97	-12.524	28.279	21.277	1.00	30.65	C	
ANISOU	313	CB	LEU	A	97	4360	3611	3675	945	510	-82	C
ATOM	314	CG	LEU	A	97	-13.309	29.580	21.440	1.00	41.20	C	
ANISOU	314	CG	LEU	A	97	5801	4922	4930	1017	619	5	C
ATOM	315	CD1	LEU	A	97	-14.180	29.557	22.690	1.00	46.19	C	
ANISOU	315	CD1	LEU	A	97	6477	5524	5548	1128	703	121	C
ATOM	316	CD2	LEU	A	97	-12.356	30.768	21.457	1.00	39.67	C	
ANISOU	316	CD2	LEU	A	97	5736	4689	4648	970	640	-72	C
ATOM	317	C	LEU	A	97	-10.583	27.283	20.006	1.00	22.85	C	
ANISOU	317	C	LEU	A	97	3255	2688	2738	779	333	-308	C
ATOM	318	O	LEU	A	97	-9.506	27.822	20.243	1.00	24.44	O	
ANISOU	318	O	LEU	A	97	3532	2884	2868	728	316	-370	O
ATOM	319	N	ARG	A	98	-10.698	25.968	19.828	1.00	25.04	N	
ANISOU	319	N	ARG	A	98	3400	2967	3148	771	272	-339	N
ATOM	320	CA	ARG	A	98	-9.509	25.109	19.796	1.00	21.91	C	
ANISOU	320	CA	ARG	A	98	2951	2576	2798	708	183	-449	C
ATOM	321	CB	ARG	A	98	-9.851	23.694	19.318	1.00	23.26	C	
ANISOU	321	CB	ARG	A	98	2949	2724	3165	701	126	-496	C
ATOM	322	CG	ARG	A	98	-10.854	22.949	20.160	1.00	31.70	C	
ANISOU	322	CG	ARG	A	98	3958	3701	4386	766	181	-362	C
ATOM	323	CD	ARG	A	98	-11.361	21.742	19.387	1.00	37.28	C	
ANISOU	323	CD	ARG	A	98	4461	4370	5336	739	127	-437	C
ATOM	324	NE	ARG	A	98	-11.948	20.733	20.259	1.00	46.84	N	
ANISOU	324	NE	ARG	A	98	5585	5452	6761	776	181	-307	N
ATOM	325	CZ	ARG	A	98	-13.252	20.572	20.448	1.00	51.95	C	
ANISOU	325	CZ	ARG	A	98	6148	6048	7543	808	248	-192	C
ATOM	326	NH1	ARG	A	98	-14.119	21.356	19.826	1.00	57.85	N	
ANISOU	326	NH1	ARG	A	98	6889	6877	8214	814	252	-201	N
ATOM	327	NH2	ARG	A	98	-13.689	19.619	21.258	1.00	50.90	N	
ANISOU	327	NH2	ARG	A	98	5927	5784	7631	843	320	-52	N
ATOM	328	C	ARG	A	98	-8.461	25.681	18.852	1.00	23.73	C	
ANISOU	328	C	ARG	A	98	3193	2878	2947	629	136	-557	C
ATOM	329	O	ARG	A	98	-7.296	25.805	19.200	1.00	22.37	O	
ANISOU	329	O	ARG	A	98	3057	2710	2734	581	102	-612	O
ATOM	330	N	PHE	A	99	-8.887	26.017	17.640	1.00	20.69	N	
ANISOU	330	N	PHE	A	99	2708	2725	2427	415	245	1	N

ATOM	331	CA	PHE	A	99	-7.968	26.493	16.617	1.00	17.84		C
ANISOU	331	CA	PHE	A	99	2438	2298	2043	383	203	23	C
ATOM	332	CB	PHE	A	99	-8.636	26.421	15.241	1.00	17.74		C
ANISOU	332	CB	PHE	A	99	2403	2301	2036	415	165	-3	C
ATOM	333	CG	PHE	A	99	-9.043	25.025	14.855	1.00	18.65		C
ANISOU	333	CG	PHE	A	99	2399	2474	2212	373	195	-9	C
ATOM	334	CD1	PHE	A	99	-8.181	24.218	14.133	1.00	16.98		C
ANISOU	334	CD1	PHE	A	99	2184	2245	2022	297	203	20	C
ATOM	335	CE1	PHE	A	99	-8.534	22.927	13.798	1.00	18.28		C
ANISOU	335	CE1	PHE	A	99	2256	2455	2234	261	221	17	C
ATOM	336	CZ	PHE	A	99	-9.759	22.428	14.187	1.00	19.24		C
ANISOU	336	CZ	PHE	A	99	2279	2643	2386	287	237	-15	C
ATOM	337	CE2	PHE	A	99	-10.627	23.218	14.918	1.00	21.45		C
ANISOU	337	CE2	PHE	A	99	2548	2953	2648	359	237	-45	C
ATOM	338	CD2	PHE	A	99	-10.265	24.510	15.253	1.00	22.48		C
ANISOU	338	CD2	PHE	A	99	2779	3037	2727	408	215	-43	C
ATOM	339	C	PHE	A	99	-7.487	27.905	16.913	1.00	18.89		C
ANISOU	339	C	PHE	A	99	2704	2362	2112	419	162	34	C
ATOM	340	O	PHE	A	99	-6.307	28.216	16.761	1.00	20.86		O
ANISOU	340	O	PHE	A	99	3032	2553	2343	357	152	70	O
ATOM	341	N	ILE	A	100	-8.415	28.754	17.328	1.00	19.63		N
ANISOU	341	N	ILE	A	100	2824	2467	2168	518	133	1	N
ATOM	342	CA	ILE	A	100	-8.096	30.126	17.695	1.00	22.64		C
ANISOU	342	CA	ILE	A	100	3343	2779	2479	564	84	7	C
ATOM	343	CB	ILE	A	100	-9.375	30.892	18.085	1.00	23.80		C
ANISOU	343	CB	ILE	A	100	3499	2960	2583	697	51	-41	C
ATOM	344	CG1	ILE	A	100	-10.218	31.161	16.834	1.00	24.34		C
ANISOU	344	CG1	ILE	A	100	3566	3047	2636	760	2	-84	C
ATOM	345	CD1	ILE	A	100	-11.631	31.597	17.128	1.00	28.36		C
ANISOU	345	CD1	ILE	A	100	4039	3623	3115	893	-22	-142	C
ATOM	346	CG2	ILE	A	100	-9.035	32.193	18.793	1.00	26.87		C
ANISOU	346	CG2	ILE	A	100	4034	3280	2897	748	3	-31	C
ATOM	347	C	ILE	A	100	-7.070	30.185	18.833	1.00	18.72		C
ANISOU	347	C	ILE	A	100	2890	2242	1980	509	111	48	C
ATOM	348	O	ILE	A	100	-6.069	30.893	18.735	1.00	21.51		O
ANISOU	348	O	ILE	A	100	3355	2521	2298	467	79	79	O
ATOM	349	N	ARG	A	101	-7.304	29.429	19.900	1.00	19.27		N
ANISOU	349	N	ARG	A	101	2875	2359	2088	505	169	46	N
ATOM	350	CA	ARG	A	101	-6.400	29.471	21.047	1.00	18.93		C
ANISOU	350	CA	ARG	A	101	2875	2275	2042	465	192	78	C
ATOM	351	CB	ARG	A	101	-7.029	28.820	22.283	1.00	20.30		C
ANISOU	351	CB	ARG	A	101	2965	2504	2243	495	251	64	C
ATOM	352	CG	ARG	A	101	-8.277	29.548	22.772	1.00	21.39		C
ANISOU	352	CG	ARG	A	101	3106	2680	2342	621	232	28	C
ATOM	353	CD	ARG	A	101	-8.841	28.923	24.026	1.00	21.22		C
ANISOU	353	CD	ARG	A	101	3004	2716	2341	645	296	19	C
ATOM	354	NE	ARG	A	101	-7.974	29.143	25.178	1.00	19.45		N
ANISOU	354	NE	ARG	A	101	2855	2430	2105	629	308	49	N
ATOM	355	CZ	ARG	A	101	-7.220	28.204	25.741	1.00	25.27		C
ANISOU	355	CZ	ARG	A	101	3560	3156	2885	545	361	71	C
ATOM	356	NH1	ARG	A	101	-7.220	26.963	25.261	1.00	21.91		N
ANISOU	356	NH1	ARG	A	101	3035	2777	2514	467	406	69	N
ATOM	357	NH2	ARG	A	101	-6.466	28.508	26.787	1.00	25.15		N
ANISOU	357	NH2	ARG	A	101	3622	3080	2855	542	364	92	N
ATOM	358	C	ARG	A	101	-5.053	28.845	20.708	1.00	23.12		C
ANISOU	358	C	ARG	A	101	3407	2775	2602	347	213	115	C
ATOM	359	O	ARG	A	101	-4.006	29.346	21.127	1.00	19.24		O
ANISOU	359	O	ARG	A	101	2998	2222	2088	306	198	146	O
ATOM	360	N	ALA	A	102	-5.072	27.763	19.933	1.00	17.88		N
ANISOU	360	N	ALA	A	102	2653	2156	1985	296	242	113	N
ATOM	361	CA	ALA	A	102	-3.825	27.128	19.519	1.00	19.13		C
ANISOU	361	CA	ALA	A	102	2808	2299	2164	196	258	144	C
ATOM	362	CB	ALA	A	102	-4.103	25.863	18.717	1.00	20.63		C
ANISOU	362	CB	ALA	A	102	2896	2544	2398	162	286	135	C
ATOM	363	C	ALA	A	102	-2.932	28.073	18.720	1.00	17.80		C
ANISOU	363	C	ALA	A	102	2742	2069	1952	162	209	170	C
ATOM	364	O	ALA	A	102	-1.732	27.835	18.586	1.00	21.15		O
ANISOU	364	O	ALA	A	102	3180	2476	2378	82	219	201	O
ATOM	365	N	ARG	A	103	-3.514	29.139	18.180	1.00	18.24		N
ANISOU	365	N	ARG	A	103	2871	2097	1963	223	156	157	N

ATOM	366	CA	ARG	A	103	-2.742	30.093	17.387	1.00	18.08		C
ANISOU	366	CA	ARG	A	103	2962	2014	1894	188	106	183	C
ATOM	367	CB	ARG	A	103	-3.214	30.097	15.926	1.00	20.09		C
ANISOU	367	CB	ARG	A	103	3214	2278	2141	205	81	168	C
ATOM	368	CG	ARG	A	103	-2.760	28.867	15.140	1.00	20.54		C
ANISOU	368	CG	ARG	A	103	3179	2379	2246	139	120	179	C
ATOM	369	CD	ARG	A	103	-1.247	28.774	15.164	1.00	26.85		C
ANISOU	369	CD	ARG	A	103	4005	3159	3038	38	136	224	C
ATOM	370	NE	ARG	A	103	-0.718	27.627	14.432	1.00	26.56		N
ANISOU	370	NE	ARG	A	103	3889	3167	3036	-17	169	236	N
ATOM	371	CZ	ARG	A	103	-0.127	26.586	15.010	1.00	26.93		C
ANISOU	371	CZ	ARG	A	103	3863	3252	3118	-63	214	244	C
ATOM	372	NH1	ARG	A	103	0.001	26.535	16.333	1.00	21.60		N
ANISOU	372	NH1	ARG	A	103	3181	2573	2454	-63	235	242	N
ATOM	373	NH2	ARG	A	103	0.335	25.594	14.264	1.00	25.65		N
ANISOU	373	NH2	ARG	A	103	3642	3129	2974	-101	234	253	N
ATOM	374	C	ARG	A	103	-2.767	31.499	17.995	1.00	21.70		C
ANISOU	374	C	ARG	A	103	3553	2406	2288	234	52	186	C
ATOM	375	O	ARG	A	103	-2.591	32.493	17.294	1.00	24.61		O
ANISOU	375	O	ARG	A	103	4031	2719	2600	235	-4	195	O
ATOM	376	N	LYS	A	104	-2.974	31.562	19.308	1.00	23.23		N
ANISOU	376	N	LYS	A	104	3743	2600	2485	273	67	181	N
ATOM	377	CA	LYS	A	104	-2.906	32.818	20.059	1.00	25.62		C
ANISOU	377	CA	LYS	A	104	4175	2835	2725	319	13	188	C
ATOM	378	CB	LYS	A	104	-1.458	33.296	20.159	1.00	26.54		C
ANISOU	378	CB	LYS	A	104	4380	2885	2820	219	-7	236	C
ATOM	379	CG	LYS	A	104	-0.578	32.353	20.956	1.00	29.52		C
ANISOU	379	CG	LYS	A	104	4680	3285	3253	146	52	255	C
ATOM	380	CD	LYS	A	104	0.893	32.662	20.770	1.00	40.65		C
ANISOU	380	CD	LYS	A	104	6146	4651	4647	34	36	299	C
ATOM	381	CE	LYS	A	104	1.754	31.515	21.283	1.00	46.71		C
ANISOU	381	CE	LYS	A	104	6817	5460	5472	-35	97	308	C
ATOM	382	NZ	LYS	A	104	1.485	30.231	20.563	1.00	49.16		N
ANISOU	382	NZ	LYS	A	104	7001	5847	5832	-49	150	291	N
ATOM	383	C	LYS	A	104	-3.804	33.920	19.495	1.00	27.12		C
ANISOU	383	C	LYS	A	104	4461	2998	2848	414	-56	161	C
ATOM	384	O	LYS	A	104	-3.400	35.084	19.394	1.00	23.52		O
ANISOU	384	O	LYS	A	104	4152	2464	2323	414	-122	178	O
ATOM	385	N	PHE	A	105	-5.026	33.536	19.137	1.00	23.39		N
ANISOU	385	N	PHE	A	105	3907	2589	2392	495	-45	116	N
ATOM	386	CA	PHE	A	105	-6.055	34.468	18.673	1.00	26.40		C
ANISOU	386	CA	PHE	A	105	4360	2961	2710	608	-110	76	C
ATOM	387	CB	PHE	A	105	-6.395	35.502	19.761	1.00	23.52		C
ANISOU	387	CB	PHE	A	105	4099	2560	2279	703	-156	67	C
ATOM	388	CG	PHE	A	105	-7.124	34.910	20.940	1.00	25.15		C
ANISOU	388	CG	PHE	A	105	4198	2839	2520	767	-102	46	C
ATOM	389	CD1	PHE	A	105	-8.509	34.859	20.963	1.00	30.47		C
ANISOU	389	CD1	PHE	A	105	4802	3591	3185	885	-102	-7	C
ATOM	390	CE1	PHE	A	105	-9.181	34.302	22.037	1.00	30.52		C
ANISOU	390	CE1	PHE	A	105	4705	3672	3221	936	-46	-23	C
ATOM	391	CZ	PHE	A	105	-8.472	33.780	23.102	1.00	32.10		C
ANISOU	391	CZ	PHE	A	105	4879	3858	3457	874	8	13	C
ATOM	392	CE2	PHE	A	105	-7.093	33.819	23.092	1.00	29.31		C
ANISOU	392	CE2	PHE	A	105	4597	3424	3114	764	3	61	C
ATOM	393	CD2	PHE	A	105	-6.423	34.378	22.011	1.00	25.53		C
ANISOU	393	CD2	PHE	A	105	4211	2882	2608	709	-51	79	C
ATOM	394	C	PHE	A	105	-5.739	35.123	17.327	1.00	28.64		C
ANISOU	394	C	PHE	A	105	4746	3187	2947	581	-167	81	C
ATOM	395	O	PHE	A	105	-6.375	36.103	16.935	1.00	27.60		O
ANISOU	395	O	PHE	A	105	4720	3022	2745	669	-236	51	O
ATOM	396	N	ASN	A	106	-4.769	34.560	16.611	1.00	26.48		N
ANISOU	396	N	ASN	A	106	4446	2906	2710	464	-138	117	N
ATOM	397	CA	ASN	A	106	-4.494	34.979	15.240	1.00	25.86		C
ANISOU	397	CA	ASN	A	106	4443	2785	2596	432	-177	123	C
ATOM	398	CB	ASN	A	106	-3.039	34.684	14.871	1.00	26.58		C
ANISOU	398	CB	ASN	A	106	4542	2852	2704	289	-149	180	C
ATOM	399	CG	ASN	A	106	-2.660	35.210	13.494	1.00	32.48		C
ANISOU	399	CG	ASN	A	106	5382	3552	3405	248	-187	194	C
ATOM	400	OD1	ASN	A	106	-3.361	34.979	12.507	1.00	29.28		O
ANISOU	400	OD1	ASN	A	106	4953	3166	3005	297	-196	162	O

ATOM	401	ND2	ASN	A	106	-1.529	35.906	13.420	1.00	32.48		N
ANISOU	401	ND2	ASN	A	106	5490	3489	3359	155	-209	241	N
ATOM	402	C	ASN	A	106	-5.452	34.257	14.302	1.00	29.05		C
ANISOU	402	C	ASN	A	106	4747	3251	3039	483	-163	81	C
ATOM	403	O	ASN	A	106	-5.304	33.061	14.044	1.00	25.36		O
ANISOU	403	O	ASN	A	106	4151	2842	2644	430	-104	89	O
ATOM	404	N	VAL	A	107	-6.451	34.980	13.810	1.00	26.38		N
ANISOU	404	N	VAL	A	107	4474	2901	2650	590	-222	34	N
ATOM	405	CA	VAL	A	107	-7.545	34.345	13.089	1.00	25.99		C
ANISOU	405	CA	VAL	A	107	4322	2916	2637	658	-215	-16	C
ATOM	406	CB	VAL	A	107	-8.696	35.340	12.818	1.00	26.44		C
ANISOU	406	CB	VAL	A	107	4464	2960	2622	799	-291	-77	C
ATOM	407	CG1	VAL	A	107	-9.757	34.714	11.925	1.00	27.30		C
ANISOU	407	CG1	VAL	A	107	4472	3133	2770	863	-292	-130	C
ATOM	408	CG2	VAL	A	107	-9.315	35.780	14.139	1.00	26.64		C
ANISOU	408	CG2	VAL	A	107	4489	3014	2620	889	-299	-99	C
ATOM	409	C	VAL	A	107	-7.074	33.655	11.808	1.00	26.27		C
ANISOU	409	C	VAL	A	107	4322	2951	2709	584	-197	2	C
ATOM	410	O	VAL	A	107	-7.432	32.505	11.556	1.00	25.98		O
ANISOU	410	O	VAL	A	107	4146	2982	2744	572	-152	-9	O
ATOM	411	N	GLY	A	108	-6.259	34.346	11.014	1.00	25.64		N
ANISOU	411	N	GLY	A	108	4373	2794	2577	531	-232	31	N
ATOM	412	CA	GLY	A	108	-5.762	33.786	9.767	1.00	25.80		C
ANISOU	412	CA	GLY	A	108	4374	2810	2620	467	-216	51	C
ATOM	413	C	GLY	A	108	-5.019	32.479	9.984	1.00	25.17		C
ANISOU	413	C	GLY	A	108	4157	2787	2619	371	-140	89	C
ATOM	414	O	GLY	A	108	-5.200	31.514	9.237	1.00	22.78		O
ANISOU	414	O	GLY	A	108	3763	2526	2366	363	-115	82	O
ATOM	415	N	ARG	A	109	-4.176	32.442	11.010	1.00	25.02		N
ANISOU	415	N	ARG	A	109	4131	2769	2608	303	-107	127	N
ATOM	416	CA	ARG	A	109	-3.452	31.218	11.338	1.00	25.35		C
ANISOU	416	CA	ARG	A	109	4052	2864	2715	220	-39	157	C
ATOM	417	CB	ARG	A	109	-2.339	31.490	12.354	1.00	23.15		C
ANISOU	417	CB	ARG	A	109	3807	2564	2426	143	-20	199	C
ATOM	418	CG	ARG	A	109	-1.210	32.347	11.793	1.00	29.25		C
ANISOU	418	CG	ARG	A	109	4700	3275	3140	63	-47	242	C
ATOM	419	CD	ARG	A	109	-0.180	32.707	12.854	1.00	37.71		C
ANISOU	419	CD	ARG	A	109	5806	4324	4198	-9	-37	280	C
ATOM	420	NE	ARG	A	109	0.938	33.455	12.282	1.00	46.37		N
ANISOU	420	NE	ARG	A	109	7005	5373	5242	-103	-59	325	N
ATOM	421	CZ	ARG	A	109	1.834	34.135	12.992	1.00	55.40		C
ANISOU	421	CZ	ARG	A	109	8219	6476	6353	-171	-74	360	C
ATOM	422	NH1	ARG	A	109	1.751	34.176	14.316	1.00	58.83		N
ANISOU	422	NH1	ARG	A	109	8642	6905	6804	-146	-71	354	N
ATOM	423	NH2	ARG	A	109	2.814	34.783	12.375	1.00	58.21		N
ANISOU	423	NH2	ARG	A	109	8661	6796	6659	-266	-93	402	N
ATOM	424	C	ARG	A	109	-4.382	30.111	11.834	1.00	20.43		C
ANISOU	424	C	ARG	A	109	3284	2317	2160	266	-1	123	C
ATOM	425	O	ARG	A	109	-4.175	28.941	11.513	1.00	21.15		O
ANISOU	425	O	ARG	A	109	3277	2455	2304	224	39	132	O
ATOM	426	N	ALA	A	110	-5.401	30.468	12.613	1.00	21.53		N
ANISOU	426	N	ALA	A	110	3414	2473	2295	352	-15	86	N
ATOM	427	CA	ALA	A	110	-6.381	29.473	13.050	1.00	21.75		C
ANISOU	427	CA	ALA	A	110	3303	2579	2381	391	22	54	C
ATOM	428	CB	ALA	A	110	-7.408	30.099	13.983	1.00	21.37		C
ANISOU	428	CB	ALA	A	110	3259	2550	2311	489	5	16	C
ATOM	429	C	ALA	A	110	-7.064	28.861	11.826	1.00	23.73		C
ANISOU	429	C	ALA	A	110	3495	2860	2661	417	9	27	C
ATOM	430	O	ALA	A	110	-7.327	27.652	11.767	1.00	18.40		O
ANISOU	430	O	ALA	A	110	2703	2242	2045	392	46	23	O
ATOM	431	N	TYR	A	111	-7.340	29.707	10.841	1.00	19.11		N
ANISOU	431	N	TYR	A	111	3002	2230	2028	468	-49	8	N
ATOM	432	CA	TYR	A	111	-7.995	29.254	9.620	1.00	18.58		C
ANISOU	432	CA	TYR	A	111	2897	2179	1983	503	-71	-21	C
ATOM	433	CB	TYR	A	111	-8.413	30.437	8.741	1.00	17.50		C
ANISOU	433	CB	TYR	A	111	2888	1982	1779	580	-143	-53	C
ATOM	434	CG	TYR	A	111	-9.028	30.004	7.425	1.00	25.17		C
ANISOU	434	CG	TYR	A	111	3832	2960	2770	621	-171	-84	C
ATOM	435	CD1	TYR	A	111	-10.291	29.428	7.385	1.00	26.61		C
ANISOU	435	CD1	TYR	A	111	3904	3211	2997	691	-177	-136	C

ATOM	436	CE1	TYR	A	111	-10.857	29.025	6.184	1.00	19.39		C
ANISOU	436	CE1	TYR	A	111	2966	2298	2104	729	-209	-166	C
ATOM	437	CZ	TYR	A	111	-10.156	29.182	5.006	1.00	23.83		C
ANISOU	437	CZ	TYR	A	111	3621	2792	2640	703	-231	-142	C
ATOM	438	OH	TYR	A	111	-10.721	28.772	3.809	1.00	23.98		O
ANISOU	438	OH	TYR	A	111	3623	2807	2679	748	-266	-172	O
ATOM	439	CE2	TYR	A	111	-8.898	29.747	5.017	1.00	23.78		C
ANISOU	439	CE2	TYR	A	111	3722	2725	2587	630	-219	-89	C
ATOM	440	CD2	TYR	A	111	-8.341	30.159	6.226	1.00	26.63		C
ANISOU	440	CD2	TYR	A	111	4102	3087	2930	587	-191	-60	C
ATOM	441	C	TYR	A	111	-7.106	28.301	8.836	1.00	22.34		C
ANISOU	441	C	TYR	A	111	3339	2656	2494	416	-42	18	C
ATOM	442	O	TYR	A	111	-7.589	27.343	8.232	1.00	21.19		O
ANISOU	442	O	TYR	A	111	3108	2549	2395	424	-36	3	O
ATOM	443	N	GLU	A	112	-5.803	28.563	8.842	1.00	21.88		N
ANISOU	443	N	GLU	A	112	3348	2557	2408	336	-27	68	N
ATOM	444	CA	GLU	A	112	-4.871	27.674	8.162	1.00	22.14		C
ANISOU	444	CA	GLU	A	112	3347	2601	2464	259	2	106	C
ATOM	445	CB	GLU	A	112	-3.460	28.273	8.134	1.00	26.84		C
ANISOU	445	CB	GLU	A	112	4032	3154	3014	177	11	158	C
ATOM	446	CG	GLU	A	112	-2.423	27.377	7.470	1.00	35.19		C
ANISOU	446	CG	GLU	A	112	5050	4235	4086	103	43	196	C
ATOM	447	CD	GLU	A	112	-2.829	26.953	6.068	1.00	48.19		C
ANISOU	447	CD	GLU	A	112	6691	5880	5738	140	21	184	C
ATOM	448	OE1	GLU	A	112	-3.356	27.802	5.317	1.00	51.31		O
ANISOU	448	OE1	GLU	A	112	7173	6226	6096	193	-25	163	O
ATOM	449	OE2	GLU	A	112	-2.621	25.768	5.720	1.00	54.24		O
ANISOU	449	OE2	GLU	A	112	7377	6690	6542	121	45	194	O
ATOM	450	C	GLU	A	112	-4.870	26.287	8.806	1.00	22.83		C
ANISOU	450	C	GLU	A	112	3303	2755	2616	223	54	112	C
ATOM	451	O	GLU	A	112	-4.829	25.275	8.099	1.00	16.82		O
ANISOU	451	O	GLU	A	112	2484	2021	1887	207	62	116	O
ATOM	452	N	LEU	A	113	-4.920	26.236	10.139	1.00	19.56		N
ANISOU	452	N	LEU	A	113	2854	2363	2216	214	83	111	N
ATOM	453	CA	LEU	A	113	-5.023	24.957	10.841	1.00	21.88		C
ANISOU	453	CA	LEU	A	113	3035	2714	2564	183	130	111	C
ATOM	454	CB	LEU	A	113	-5.015	25.141	12.365	1.00	19.70		C
ANISOU	454	CB	LEU	A	113	2746	2448	2291	177	161	111	C
ATOM	455	CG	LEU	A	113	-3.687	25.430	13.064	1.00	25.16		C
ANISOU	455	CG	LEU	A	113	3490	3110	2960	112	182	150	C
ATOM	456	CD1	LEU	A	113	-3.880	25.390	14.581	1.00	24.26		C
ANISOU	456	CD1	LEU	A	113	3351	3010	2859	119	214	143	C
ATOM	457	CD2	LEU	A	113	-2.603	24.454	12.616	1.00	22.29		C
ANISOU	457	CD2	LEU	A	113	3095	2763	2609	37	208	180	C
ATOM	458	C	LEU	A	113	-6.301	24.233	10.460	1.00	22.53		C
ANISOU	458	C	LEU	A	113	3031	2842	2688	232	121	73	C
ATOM	459	O	LEU	A	113	-6.304	23.025	10.250	1.00	20.63		O
ANISOU	459	O	LEU	A	113	2717	2636	2486	199	139	78	O
ATOM	460	N	LEU	A	114	-7.395	24.984	10.402	1.00	21.08		N
ANISOU	460	N	LEU	A	114	2858	2659	2492	313	87	32	N
ATOM	461	CA	LEU	A	114	-8.697	24.428	10.070	1.00	17.75		C
ANISOU	461	CA	LEU	A	114	2348	2287	2107	364	73	-10	C
ATOM	462	CB	LEU	A	114	-9.762	25.527	10.180	1.00	21.43		C
ANISOU	462	CB	LEU	A	114	2843	2757	2544	464	34	-58	C
ATOM	463	CG	LEU	A	114	-11.226	25.100	10.146	1.00	27.27		C
ANISOU	463	CG	LEU	A	114	3475	3567	3318	525	24	-109	C
ATOM	464	CD1	LEU	A	114	-11.512	24.110	11.270	1.00	27.19		C
ANISOU	464	CD1	LEU	A	114	3350	3626	3354	477	83	-102	C
ATOM	465	CD2	LEU	A	114	-12.148	26.320	10.250	1.00	22.59		C
ANISOU	465	CD2	LEU	A	114	2926	2979	2680	637	-21	-160	C
ATOM	466	C	LEU	A	114	-8.705	23.790	8.674	1.00	18.67		C
ANISOU	466	C	LEU	A	114	2456	2396	2243	360	45	-9	C
ATOM	467	O	LEU	A	114	-9.319	22.744	8.463	1.00	18.47		O
ANISOU	467	O	LEU	A	114	2339	2414	2263	353	49	-22	O
ATOM	468	N	ARG	A	115	-8.016	24.417	7.724	1.00	16.78		N
ANISOU	468	N	ARG	A	115	2316	2097	1964	361	16	8	N
ATOM	469	CA	ARG	A	115	-7.910	23.873	6.371	1.00	18.93		C
ANISOU	469	CA	ARG	A	115	2594	2354	2245	362	-10	13	C
ATOM	470	CB	ARG	A	115	-7.137	24.839	5.464	1.00	20.28		C
ANISOU	470	CB	ARG	A	115	2892	2455	2358	366	-38	32	C

ATOM	471	CG	ARG	A	115	-7.956	26.039	5.017	1.00	18.71		C
ANISOU	471	CG	ARG	A	115	2774	2217	2119	454	-93	-12	C
ATOM	472	CD	ARG	A	115	-7.091	27.064	4.285	1.00	21.04		C
ANISOU	472	CD	ARG	A	115	3213	2436	2346	441	-116	14	C
ATOM	473	NE	ARG	A	115	-6.523	26.547	3.042	1.00	29.20		N
ANISOU	473	NE	ARG	A	115	4266	3449	3379	417	-120	39	N
ATOM	474	CZ	ARG	A	115	-7.159	26.545	1.875	1.00	33.13		C
ANISOU	474	CZ	ARG	A	115	4793	3920	3874	483	-166	9	C
ATOM	475	NH1	ARG	A	115	-8.396	27.019	1.792	1.00	35.24		N
ANISOU	475	NH1	ARG	A	115	5064	4183	4142	575	-213	-52	N
ATOM	476	NH2	ARG	A	115	-6.563	26.061	0.792	1.00	29.88		N
ANISOU	476	NH2	ARG	A	115	4405	3490	3459	462	-167	37	N
ATOM	477	C	ARG	A	115	-7.262	22.483	6.353	1.00	21.86		C
ANISOU	477	C	ARG	A	115	2900	2754	2651	291	24	47	C
ATOM	478	O	ARG	A	115	-7.748	21.574	5.681	1.00	20.63		O
ANISOU	478	O	ARG	A	115	2691	2617	2528	301	6	36	O
ATOM	479	N	GLY	A	116	-6.180	22.316	7.109	1.00	17.48		N
ANISOU	479	N	GLY	A	116	2353	2203	2085	223	67	84	N
ATOM	480	CA	GLY	A	116	-5.504	21.029	7.183	1.00	17.40		C
ANISOU	480	CA	GLY	A	116	2292	2222	2097	163	95	112	C
ATOM	481	C	GLY	A	116	-6.368	19.969	7.847	1.00	14.97		C
ANISOU	481	C	GLY	A	116	1886	1964	1838	156	110	92	C
ATOM	482	O	GLY	A	116	-6.361	18.797	7.456	1.00	17.20		O
ANISOU	482	O	GLY	A	116	2127	2265	2142	134	105	99	O
ATOM	483	N	TYR	A	117	-7.106	20.390	8.867	1.00	17.51		N
ANISOU	483	N	TYR	A	117	2175	2306	2172	174	127	68	N
ATOM	484	CA	TYR	A	117	-8.024	19.516	9.591	1.00	20.23		C
ANISOU	484	CA	TYR	A	117	2424	2703	2558	163	146	48	C
ATOM	485	CB	TYR	A	117	-8.646	20.309	10.739	1.00	19.44		C
ANISOU	485	CB	TYR	A	117	2308	2624	2454	193	169	25	C
ATOM	486	CG	TYR	A	117	-9.666	19.569	11.562	1.00	17.00		C
ANISOU	486	CG	TYR	A	117	1898	2378	2183	183	196	4	C
ATOM	487	CD1	TYR	A	117	-9.291	18.838	12.684	1.00	18.24		C
ANISOU	487	CD1	TYR	A	117	2027	2553	2349	121	247	22	C
ATOM	488	CE1	TYR	A	117	-10.240	18.175	13.453	1.00	22.43		C
ANISOU	488	CE1	TYR	A	117	2470	3143	2909	104	276	5	C
ATOM	489	CZ	TYR	A	117	-11.572	18.245	13.091	1.00	24.76		C
ANISOU	489	CZ	TYR	A	117	2692	3487	3226	147	254	-31	C
ATOM	490	OH	TYR	A	117	-12.540	17.599	13.827	1.00	26.86		O
ANISOU	490	OH	TYR	A	117	2864	3823	3520	122	285	-47	O
ATOM	491	CE2	TYR	A	117	-11.960	18.972	11.989	1.00	23.88		C
ANISOU	491	CE2	TYR	A	117	2605	3361	3109	215	200	-54	C
ATOM	492	CD2	TYR	A	117	-11.015	19.626	11.234	1.00	19.19		C
ANISOU	492	CD2	TYR	A	117	2110	2700	2483	233	171	-37	C
ATOM	493	C	TYR	A	117	-9.109	18.972	8.659	1.00	21.32		C
ANISOU	493	C	TYR	A	117	2508	2863	2728	196	105	20	C
ATOM	494	O	TYR	A	117	-9.410	17.778	8.653	1.00	15.93		O
ANISOU	494	O	TYR	A	117	1766	2211	2078	159	108	22	O
ATOM	495	N	VAL	A	118	-9.683	19.852	7.850	1.00	16.32		N
ANISOU	495	N	VAL	A	118	1907	2210	2084	267	62	-8	N
ATOM	496	CA	VAL	A	118	-10.705	19.440	6.886	1.00	17.17		C
ANISOU	496	CA	VAL	A	118	1969	2332	2220	308	14	-39	C
ATOM	497	CB	VAL	A	118	-11.473	20.662	6.332	1.00	19.17		C
ANISOU	497	CB	VAL	A	118	2260	2569	2453	402	-31	-83	C
ATOM	498	CG1	VAL	A	118	-12.417	20.247	5.203	1.00	18.59		C
ANISOU	498	CG1	VAL	A	118	2151	2503	2410	450	-87	-118	C
ATOM	499	CG2	VAL	A	118	-12.237	21.347	7.460	1.00	21.97		C
ANISOU	499	CG2	VAL	A	118	2575	2969	2803	437	-10	-115	C
ATOM	500	C	VAL	A	118	-10.111	18.619	5.738	1.00	16.76		C
ANISOU	500	C	VAL	A	118	1947	2249	2172	287	-13	-13	C
ATOM	501	O	VAL	A	118	-10.720	17.651	5.276	1.00	19.90		O
ANISOU	501	O	VAL	A	118	2289	2667	2605	281	-39	-22	O
ATOM	502	N	ASN	A	119	-8.924	19.003	5.281	1.00	18.38		N
ANISOU	502	N	ASN	A	119	2239	2406	2337	277	-10	20	N
ATOM	503	CA	ASN	A	119	-8.268	18.289	4.186	1.00	16.36		C
ANISOU	503	CA	ASN	A	119	2017	2126	2074	266	-34	47	C
ATOM	504	CB	ASN	A	119	-6.921	18.929	3.835	1.00	18.59		C
ANISOU	504	CB	ASN	A	119	2390	2368	2303	251	-19	84	C
ATOM	505	CG	ASN	A	119	-6.356	18.409	2.513	1.00	23.32		C
ANISOU	505	CG	ASN	A	119	3033	2943	2886	263	-48	107	C

ATOM	506	OD1	ASN	A	119	-6.992	18.534	1.475	1.00	24.73		O
ANISOU	506	OD1	ASN	A	119	3233	3094	3069	321	-96	87	O
ATOM	507	ND2	ASN	A	119	-5.160	17.829	2.557	1.00	25.52		N
ANISOU	507	ND2	ASN	A	119	3324	3232	3138	216	-22	148	N
ATOM	508	C	ASN	A	119	-8.070	16.818	4.517	1.00	17.64		C
ANISOU	508	C	ASN	A	119	2124	2320	2259	208	-20	67	C
ATOM	509	O	ASN	A	119	-8.267	15.943	3.666	1.00	16.37		O
ANISOU	509	O	ASN	A	119	1954	2153	2112	217	-58	70	O
ATOM	510	N	PHE	A	120	-7.674	16.548	5.759	1.00	15.60		N
ANISOU	510	N	PHE	A	120	1838	2090	2002	153	30	80	N
ATOM	511	CA	PHE	A	120	-7.495	15.178	6.220	1.00	16.07		C
ANISOU	511	CA	PHE	A	120	1858	2175	2075	96	43	96	C
ATOM	512	CB	PHE	A	120	-7.010	15.145	7.672	1.00	15.59		C
ANISOU	512	CB	PHE	A	120	1783	2135	2007	44	102	105	C
ATOM	513	CG	PHE	A	120	-6.728	13.757	8.181	1.00	14.29		C
ANISOU	513	CG	PHE	A	120	1597	1990	1844	-13	114	119	C
ATOM	514	CD1	PHE	A	120	-5.600	13.071	7.749	1.00	11.99		C
ANISOU	514	CD1	PHE	A	120	1352	1685	1517	-29	105	146	C
ATOM	515	CE1	PHE	A	120	-5.335	11.784	8.206	1.00	14.82		C
ANISOU	515	CE1	PHE	A	120	1708	2057	1867	-74	107	154	C
ATOM	516	CZ	PHE	A	120	-6.202	11.168	9.101	1.00	17.89		C
ANISOU	516	CZ	PHE	A	120	2047	2467	2284	-116	122	139	C
ATOM	517	CE2	PHE	A	120	-7.330	11.851	9.550	1.00	18.97		C
ANISOU	517	CE2	PHE	A	120	2125	2623	2459	-107	140	115	C
ATOM	518	CD2	PHE	A	120	-7.589	13.137	9.080	1.00	17.72		C
ANISOU	518	CD2	PHE	A	120	1969	2456	2308	-50	133	103	C
ATOM	519	C	PHE	A	120	-8.790	14.390	6.095	1.00	16.65		C
ANISOU	519	C	PHE	A	120	1859	2276	2193	96	14	70	C
ATOM	520	O	PHE	A	120	-8.788	13.222	5.700	1.00	16.22		O
ANISOU	520	O	PHE	A	120	1797	2222	2145	71	-13	82	O
ATOM	521	N	ARG	A	121	-9.901	15.028	6.445	1.00	15.66		N
ANISOU	521	N	ARG	A	121	1681	2175	2093	124	15	35	N
ATOM	522	CA	ARG	A	121	-11.193	14.365	6.375	1.00	17.26		C
ANISOU	522	CA	ARG	A	121	1802	2417	2340	119	-10	8	C
ATOM	523	CB	ARG	A	121	-12.234	15.128	7.211	1.00	18.18		C
ANISOU	523	CB	ARG	A	121	1849	2583	2474	143	15	-30	C
ATOM	524	CG	ARG	A	121	-12.150	14.757	8.689	1.00	20.21		C
ANISOU	524	CG	ARG	A	121	2066	2879	2733	78	79	-18	C
ATOM	525	CD	ARG	A	121	-12.274	15.944	9.634	1.00	23.43		C
ANISOU	525	CD	ARG	A	121	2472	3304	3125	114	120	-34	C
ATOM	526	NE	ARG	A	121	-11.976	15.521	11.002	1.00	23.01		N
ANISOU	526	NE	ARG	A	121	2400	3275	3069	53	181	-17	N
ATOM	527	CZ	ARG	A	121	-10.751	15.462	11.517	1.00	20.67		C
ANISOU	527	CZ	ARG	A	121	2169	2941	2745	19	212	15	C
ATOM	528	NH1	ARG	A	121	-9.702	15.831	10.788	1.00	14.71		N
ANISOU	528	NH1	ARG	A	121	1494	2132	1962	35	191	35	N
ATOM	529	NH2	ARG	A	121	-10.575	15.043	12.764	1.00	24.25		N
ANISOU	529	NH2	ARG	A	121	2606	3413	3196	-31	265	25	N
ATOM	530	C	ARG	A	121	-11.657	14.156	4.935	1.00	19.09		C
ANISOU	530	C	ARG	A	121	2046	2623	2586	168	-81	-5	C
ATOM	531	O	ARG	A	121	-12.374	13.198	4.646	1.00	22.25		O
ANISOU	531	O	ARG	A	121	2395	3041	3016	145	-115	-12	O
ATOM	532	N	LEU	A	122	-11.236	15.034	4.029	1.00	17.75		N
ANISOU	532	N	LEU	A	122	1948	2406	2389	231	-106	-7	N
ATOM	533	CA	LEU	A	122	-11.556	14.852	2.611	1.00	15.50		C
ANISOU	533	CA	LEU	A	122	1692	2086	2112	284	-174	-17	C
ATOM	534	CB	LEU	A	122	-11.282	16.134	1.821	1.00	16.46		C
ANISOU	534	CB	LEU	A	122	1895	2159	2200	359	-192	-29	C
ATOM	535	CG	LEU	A	122	-12.169	17.343	2.098	1.00	25.62		C
ANISOU	535	CG	LEU	A	122	3040	3333	3363	418	-196	-77	C
ATOM	536	CD1	LEU	A	122	-11.640	18.559	1.349	1.00	28.10		C
ANISOU	536	CD1	LEU	A	122	3464	3584	3627	478	-213	-79	C
ATOM	537	CD2	LEU	A	122	-13.597	17.029	1.680	1.00	30.28		C
ANISOU	537	CD2	LEU	A	122	3552	3954	3997	459	-247	-127	C
ATOM	538	C	LEU	A	122	-10.758	13.708	1.990	1.00	18.22		C
ANISOU	538	C	LEU	A	122	2077	2403	2443	254	-195	23	C
ATOM	539	O	LEU	A	122	-11.257	12.988	1.134	1.00	19.51		O
ANISOU	539	O	LEU	A	122	2234	2553	2626	272	-253	18	O
ATOM	540	N	GLN	A	123	-9.512	13.554	2.418	1.00	14.28		N
ANISOU	540	N	GLN	A	123	1622	1899	1906	215	-154	61	N

ATOM	541	CA	GLN	A	123	-8.614	12.589	1.791	1.00	18.17		C
ANISOU	541	CA	GLN	A	123	2164	2370	2369	204	-175	97	C
ATOM	542	CB	GLN	A	123	-7.158	13.028	1.946	1.00	19.99		C
ANISOU	542	CB	GLN	A	123	2456	2592	2547	193	-132	131	C
ATOM	543	CG	GLN	A	123	-6.829	14.333	1.208	1.00	22.83		C
ANISOU	543	CG	GLN	A	123	2876	2919	2882	245	-133	129	C
ATOM	544	CD	GLN	A	123	-5.337	14.581	1.117	1.00	23.93		C
ANISOU	544	CD	GLN	A	123	3073	3054	2965	228	-99	168	C
ATOM	545	OE1	GLN	A	123	-4.595	14.325	2.066	1.00	23.23		O
ANISOU	545	OE1	GLN	A	123	2970	2995	2861	175	-55	185	O
ATOM	546	NE2	GLN	A	123	-4.886	15.060	-0.037	1.00	27.22		N
ANISOU	546	NE2	GLN	A	123	3555	3438	3349	272	-120	181	N
ATOM	547	C	GLN	A	123	-8.798	11.174	2.323	1.00	18.77		C
ANISOU	547	C	GLN	A	123	2204	2471	2459	143	-183	108	C
ATOM	548	O	GLN	A	123	-8.498	10.191	1.633	1.00	18.64		O
ANISOU	548	O	GLN	A	123	2222	2434	2425	147	-228	127	O
ATOM	549	N	TYR	A	124	-9.296	11.074	3.550	1.00	14.98		N
ANISOU	549	N	TYR	A	124	1660	2029	2002	88	-142	95	N
ATOM	550	CA	TYR	A	124	-9.490	9.783	4.191	1.00	13.27		C
ANISOU	550	CA	TYR	A	124	1416	1833	1791	19	-144	104	C
ATOM	551	CB	TYR	A	124	-8.493	9.642	5.337	1.00	15.70		C
ANISOU	551	CB	TYR	A	124	1746	2155	2066	-31	-83	123	C
ATOM	552	CG	TYR	A	124	-7.060	9.783	4.873	1.00	16.16		C
ANISOU	552	CG	TYR	A	124	1880	2189	2071	-3	-79	150	C
ATOM	553	CD1	TYR	A	124	-6.431	8.741	4.196	1.00	15.08		C
ANISOU	553	CD1	TYR	A	124	1797	2036	1897	5	-122	172	C
ATOM	554	CE1	TYR	A	124	-5.117	8.857	3.754	1.00	13.65		C
ANISOU	554	CE1	TYR	A	124	1676	1849	1662	34	-116	195	C
ATOM	555	CZ	TYR	A	124	-4.415	10.025	3.993	1.00	17.31		C
ANISOU	555	CZ	TYR	A	124	2147	2318	2112	44	-67	199	C
ATOM	556	OH	TYR	A	124	-3.106	10.132	3.564	1.00	16.12		O
ANISOU	556	OH	TYR	A	124	2046	2173	1907	65	-58	223	O
ATOM	557	CE2	TYR	A	124	-5.023	11.083	4.655	1.00	14.97		C
ANISOU	557	CE2	TYR	A	124	1810	2026	1851	34	-29	180	C
ATOM	558	CD2	TYR	A	124	-6.345	10.954	5.094	1.00	15.89		C
ANISOU	558	CD2	TYR	A	124	1866	2153	2019	17	-35	154	C
ATOM	559	C	TYR	A	124	-10.915	9.608	4.707	1.00	19.14		C
ANISOU	559	C	TYR	A	124	2068	2616	2587	-15	-146	75	C
ATOM	560	O	TYR	A	124	-11.121	9.368	5.894	1.00	20.94		O
ANISOU	560	O	TYR	A	124	2253	2880	2822	-76	-98	73	O
ATOM	561	N	PRO	A	125	-11.906	9.704	3.807	1.00	23.00		N
ANISOU	561	N	PRO	A	125	2526	3104	3111	25	-202	51	N
ATOM	562	CA	PRO	A	125	-13.317	9.660	4.206	1.00	25.22		C
ANISOU	562	CA	PRO	A	125	2705	3436	3442	1	-205	18	C
ATOM	563	CB	PRO	A	125	-14.054	9.829	2.871	1.00	26.87		C
ANISOU	563	CB	PRO	A	125	2910	3622	3677	69	-282	-7	C
ATOM	564	CG	PRO	A	125	-13.063	9.306	1.847	1.00	27.46		C
ANISOU	564	CG	PRO	A	125	3087	3631	3715	98	-327	26	C
ATOM	565	CD	PRO	A	125	-11.765	9.860	2.348	1.00	21.05		C
ANISOU	565	CD	PRO	A	125	2335	2807	2857	100	-266	52	C
ATOM	566	C	PRO	A	125	-13.684	8.323	4.851	1.00	27.58		C
ANISOU	566	C	PRO	A	125	2969	3760	3750	-97	-207	33	C
ATOM	567	O	PRO	A	125	-14.633	8.255	5.635	1.00	28.01		O
ANISOU	567	O	PRO	A	125	2935	3873	3835	-145	-180	14	O
ATOM	568	N	GLU	A	126	-12.936	7.272	4.522	1.00	22.78		N
ANISOU	568	N	GLU	A	126	2436	3111	3110	-125	-240	66	N
ATOM	569	CA	GLU	A	126	-13.197	5.952	5.083	1.00	25.10		C
ANISOU	569	CA	GLU	A	126	2723	3415	3399	-219	-251	82	C
ATOM	570	CB	GLU	A	126	-12.300	4.884	4.437	1.00	24.24		C
ANISOU	570	CB	GLU	A	126	2720	3249	3241	-219	-308	115	C
ATOM	571	CG	GLU	A	126	-10.822	4.958	4.820	1.00	21.25		C
ANISOU	571	CG	GLU	A	126	2422	2850	2803	-203	-267	137	C
ATOM	572	CD	GLU	A	126	-10.060	6.024	4.055	1.00	20.80		C
ANISOU	572	CD	GLU	A	126	2399	2772	2731	-111	-260	138	C
ATOM	573	OE1	GLU	A	126	-10.647	6.658	3.154	1.00	20.02		O
ANISOU	573	OE1	GLU	A	126	2278	2664	2664	-53	-293	121	O
ATOM	574	OE2	GLU	A	126	-8.868	6.227	4.356	1.00	19.92		O
ANISOU	574	OE2	GLU	A	126	2339	2654	2574	-98	-223	154	O
ATOM	575	C	GLU	A	126	-13.043	5.953	6.608	1.00	22.08		C
ANISOU	575	C	GLU	A	126	2313	3071	3006	-288	-168	85	C

ATOM	576	O	GLU	A	126	-13.641	5.130	7.292	1.00	23.67		O
ANISOU	576	O	GLU	A	126	2479	3299	3215	-375	-160	88	O
ATOM	577	N	LEU	A	127	-12.248	6.880	7.140	1.00	23.15		N
ANISOU	577	N	LEU	A	127	2468	3205	3121	-252	-107	85	N
ATOM	578	CA	LEU	A	127	-12.100	6.995	8.588	1.00	21.52		C
ANISOU	578	CA	LEU	A	127	2240	3031	2906	-305	-30	86	C
ATOM	579	CB	LEU	A	127	-10.830	7.773	8.944	1.00	23.42		C
ANISOU	579	CB	LEU	A	127	2541	3247	3110	-263	15	96	C
ATOM	580	CG	LEU	A	127	-9.497	7.208	8.457	1.00	19.92		C
ANISOU	580	CG	LEU	A	127	2197	2758	2615	-250	-11	122	C
ATOM	581	CD1	LEU	A	127	-8.354	8.089	8.927	1.00	15.48		C
ANISOU	581	CD1	LEU	A	127	1672	2186	2023	-219	40	129	C
ATOM	582	CD2	LEU	A	127	-9.305	5.775	8.942	1.00	18.39		C
ANISOU	582	CD2	LEU	A	127	2044	2554	2391	-322	-25	137	C
ATOM	583	C	LEU	A	127	-13.302	7.663	9.271	1.00	23.39		C
ANISOU	583	C	LEU	A	127	2367	3332	3186	-314	12	56	C
ATOM	584	O	LEU	A	127	-13.451	7.584	10.489	1.00	26.29		O
ANISOU	584	O	LEU	A	127	2705	3734	3551	-367	73	56	O
ATOM	585	N	PHE	A	128	-14.147	8.332	8.495	1.00	25.98		N
ANISOU	585	N	PHE	A	128	2640	3681	3550	-257	-21	29	N
ATOM	586	CA	PHE	A	128	-15.164	9.205	9.087	1.00	27.34		C
ANISOU	586	CA	PHE	A	128	2714	3922	3752	-237	18	-5	C
ATOM	587	CB	PHE	A	128	-14.819	10.676	8.805	1.00	25.20		C
ANISOU	587	CB	PHE	A	128	2470	3635	3471	-134	27	-23	C
ATOM	588	CG	PHE	A	128	-13.491	11.093	9.356	1.00	22.47		C
ANISOU	588	CG	PHE	A	128	2209	3247	3084	-128	71	2	C
ATOM	589	CD1	PHE	A	128	-13.355	11.416	10.696	1.00	23.16		C
ANISOU	589	CD1	PHE	A	128	2280	3360	3159	-153	141	4	C
ATOM	590	CE1	PHE	A	128	-12.127	11.791	11.214	1.00	22.69		C
ANISOU	590	CE1	PHE	A	128	2297	3261	3064	-149	176	26	C
ATOM	591	CZ	PHE	A	128	-11.019	11.841	10.391	1.00	21.59		C
ANISOU	591	CZ	PHE	A	128	2243	3064	2898	-124	146	46	C
ATOM	592	CE2	PHE	A	128	-11.142	11.522	9.054	1.00	19.11		C
ANISOU	592	CE2	PHE	A	128	1944	2727	2590	-97	82	47	C
ATOM	593	CD2	PHE	A	128	-12.373	11.145	8.541	1.00	19.28		C
ANISOU	593	CD2	PHE	A	128	1898	2778	2650	-97	42	25	C
ATOM	594	C	PHE	A	128	-16.588	8.912	8.628	1.00	32.47		C
ANISOU	594	C	PHE	A	128	3264	4627	4448	-249	-23	-33	C
ATOM	595	O	PHE	A	128	-17.542	9.161	9.365	1.00	35.53		O
ANISOU	595	O	PHE	A	128	3552	5092	4857	-268	15	-57	O
ATOM	596	N	ASP	A	129	-16.724	8.386	7.415	1.00	33.29		N
ANISOU	596	N	ASP	A	129	3392	4694	4564	-235	-102	-31	N
ATOM	597	CA	ASP	A	129	-18.030	8.219	6.782	1.00	38.50		C
ANISOU	597	CA	ASP	A	129	3961	5397	5269	-232	-155	-63	C
ATOM	598	CB	ASP	A	129	-17.893	7.517	5.425	1.00	43.02		C
ANISOU	598	CB	ASP	A	129	4595	5905	5847	-216	-249	-51	C
ATOM	599	CG	ASP	A	129	-17.517	8.472	4.302	1.00	50.13		C
ANISOU	599	CG	ASP	A	129	5553	6752	6741	-94	-288	-68	C
ATOM	600	OD1	ASP	A	129	-17.488	9.702	4.537	1.00	49.04		O
ANISOU	600	OD1	ASP	A	129	5405	6632	6597	-26	-250	-94	O
ATOM	601	OD2	ASP	A	129	-17.254	7.989	3.178	1.00	53.35		O
ANISOU	601	OD2	ASP	A	129	6026	7098	7145	-67	-360	-56	O
ATOM	602	C	ASP	A	129	-19.026	7.461	7.655	1.00	40.91		C
ANISOU	602	C	ASP	A	129	4163	5783	5599	-338	-128	-66	C
ATOM	603	O	ASP	A	129	-20.115	7.960	7.938	1.00	45.91		O
ANISOU	603	O	ASP	A	129	4680	6500	6261	-326	-111	-103	O
ATOM	604	N	SER	A	130	-18.659	6.255	8.075	1.00	37.24		N
ANISOU	604	N	SER	A	130	3741	5294	5114	-441	-126	-27	N
ATOM	605	CA	SER	A	130	-19.581	5.424	8.843	1.00	45.91		C
ANISOU	605	CA	SER	A	130	4754	6460	6229	-559	-104	-24	C
ATOM	606	CB	SER	A	130	-19.838	4.095	8.126	1.00	52.77		C
ANISOU	606	CB	SER	A	130	5654	7292	7103	-636	-187	-2	C
ATOM	607	OG	SER	A	130	-18.639	3.360	7.962	1.00	57.10		O
ANISOU	607	OG	SER	A	130	6344	7748	7602	-651	-212	38	O
ATOM	608	C	SER	A	130	-19.074	5.179	10.260	1.00	46.25		C
ANISOU	608	C	SER	A	130	4820	6514	6237	-629	-17	0	C
ATOM	609	O	SER	A	130	-19.244	4.094	10.818	1.00	47.56		O
ANISOU	609	O	SER	A	130	4994	6687	6391	-745	-10	24	O
ATOM	610	N	LEU	A	131	-18.451	6.201	10.836	1.00	40.99		N
ANISOU	610	N	LEU	A	131	4175	5846	5553	-560	44	-7	N

ATOM	611	CA	LEU	A	131	-17.910	6.109	12.182	1.00	40.75		C
ANISOU	611	CA	LEU	A	131	4174	5819	5489	-608	125	11	C
ATOM	612	CB	LEU	A	131	-17.284	7.443	12.592	1.00	33.55		C
ANISOU	612	CB	LEU	A	131	3284	4899	4563	-510	175	-2	C
ATOM	613	CG	LEU	A	131	-16.398	7.423	13.838	1.00	44.50		C
ANISOU	613	CG	LEU	A	131	4734	6263	5912	-538	247	19	C
ATOM	614	CD1	LEU	A	131	-15.276	6.411	13.675	1.00	45.08		C
ANISOU	614	CD1	LEU	A	131	4928	6254	5947	-584	219	52	C
ATOM	615	CD2	LEU	A	131	-15.834	8.811	14.112	1.00	46.06		C
ANISOU	615	CD2	LEU	A	131	4954	6450	6097	-438	282	6	C
ATOM	616	C	LEU	A	131	-19.003	5.723	13.171	1.00	45.30		C
ANISOU	616	C	LEU	A	131	4644	6487	6081	-700	178	5	C
ATOM	617	O	LEU	A	131	-20.037	6.384	13.252	1.00	45.44		O
ANISOU	617	O	LEU	A	131	4542	6593	6130	-670	196	-27	O
ATOM	618	N	SER	A	132	-18.766	4.643	13.909	1.00	45.70		N
ANISOU	618	N	SER	A	132	4741	6519	6103	-811	201	35	N
ATOM	619	CA	SER	A	132	-19.675	4.182	14.954	1.00	44.41		C
ANISOU	619	CA	SER	A	132	4493	6437	5944	-915	260	37	C
ATOM	620	CB	SER	A	132	-20.087	2.731	14.693	1.00	44.17		C
ANISOU	620	CB	SER	A	132	4481	6393	5909	-1047	210	62	C
ATOM	621	OG	SER	A	132	-20.690	2.149	15.835	1.00	44.58		O
ANISOU	621	OG	SER	A	132	4487	6504	5948	-1166	275	74	O
ATOM	622	C	SER	A	132	-18.996	4.288	16.317	1.00	43.05		C
ANISOU	622	C	SER	A	132	4376	6249	5731	-932	347	51	C
ATOM	623	O	SER	A	132	-18.035	3.567	16.589	1.00	35.37		O
ANISOU	623	O	SER	A	132	3526	5196	4716	-972	342	76	O
ATOM	624	N	PRO	A	133	-19.489	5.194	17.175	1.00	43.66		N
ANISOU	624	N	PRO	A	133	4368	6404	5818	-894	423	31	N
ATOM	625	CA	PRO	A	133	-18.922	5.396	18.513	1.00	44.35		C
ANISOU	625	CA	PRO	A	133	4503	6479	5868	-899	506	42	C
ATOM	626	CB	PRO	A	133	-19.916	6.361	19.167	1.00	47.59		C
ANISOU	626	CB	PRO	A	133	4782	7003	6298	-853	570	15	C
ATOM	627	CG	PRO	A	133	-20.506	7.113	18.018	1.00	44.89		C
ANISOU	627	CG	PRO	A	133	4362	6700	5995	-764	511	-17	C
ATOM	628	CD	PRO	A	133	-20.615	6.106	16.909	1.00	42.95		C
ANISOU	628	CD	PRO	A	133	4135	6417	5767	-830	428	-6	C
ATOM	629	C	PRO	A	133	-18.836	4.095	19.310	1.00	44.32		C
ANISOU	629	C	PRO	A	133	4556	6453	5830	-1036	533	71	C
ATOM	630	O	PRO	A	133	-17.938	3.937	20.136	1.00	41.38		O
ANISOU	630	O	PRO	A	133	4284	6020	5417	-1043	572	84	O
ATOM	631	N	GLU	A	134	-19.762	3.176	19.056	1.00	45.37		N
ANISOU	631	N	GLU	A	134	4630	6631	5977	-1145	508	79	N
ATOM	632	CA	GLU	A	134	-19.765	1.879	19.721	1.00	46.27		C
ANISOU	632	CA	GLU	A	134	4808	6720	6052	-1287	523	108	C
ATOM	633	CB	GLU	A	134	-21.065	1.132	19.418	1.00	60.79		C
ANISOU	633	CB	GLU	A	134	6542	8637	7916	-1406	500	112	C
ATOM	634	CG	GLU	A	134	-21.076	-0.313	19.886	1.00	74.48		C
ANISOU	634	CG	GLU	A	134	8363	10332	9605	-1566	493	146	C
ATOM	635	CD	GLU	A	134	-22.272	-1.085	19.360	1.00	87.31		C
ANISOU	635	CD	GLU	A	134	9896	12021	11256	-1687	447	154	C
ATOM	636	OE1	GLU	A	134	-23.191	-0.450	18.799	1.00	90.07		O
ANISOU	636	OE1	GLU	A	134	10095	12466	11662	-1647	437	129	O
ATOM	637	OE2	GLU	A	134	-22.291	-2.326	19.506	1.00	91.50		O
ANISOU	637	OE2	GLU	A	134	10511	12506	11747	-1823	417	183	O
ATOM	638	C	GLU	A	134	-18.568	1.033	19.297	1.00	39.27		C
ANISOU	638	C	GLU	A	134	4093	5706	5121	-1301	458	128	C
ATOM	639	O	GLU	A	134	-17.899	0.423	20.132	1.00	34.71		O
ANISOU	639	O	GLU	A	134	3626	5071	4492	-1351	487	143	O
ATOM	640	N	ALA	A	135	-18.302	0.997	17.996	1.00	40.36		N
ANISOU	640	N	ALA	A	135	4257	5802	5277	-1249	368	126	N
ATOM	641	CA	ALA	A	135	-17.178	0.233	17.466	1.00	39.38		C
ANISOU	641	CA	ALA	A	135	4288	5567	5106	-1244	299	143	C
ATOM	642	CB	ALA	A	135	-17.233	0.194	15.947	1.00	42.41		C
ANISOU	642	CB	ALA	A	135	4669	5928	5517	-1193	200	141	C
ATOM	643	C	ALA	A	135	-15.852	0.819	17.936	1.00	34.01		C
ANISOU	643	C	ALA	A	135	3700	4828	4393	-1153	334	139	C
ATOM	644	O	ALA	A	135	-14.919	0.086	18.265	1.00	28.63		O
ANISOU	644	O	ALA	A	135	3151	4073	3654	-1177	321	151	O
ATOM	645	N	VAL	A	136	-15.773	2.146	17.961	1.00	30.67		N
ANISOU	645	N	VAL	A	136	3212	4439	4003	-1049	373	119	N

ATOM	646	CA	VAL	A	136	-14.567	2.824	18.411	1.00	27.97		C
ANISOU	646	CA	VAL	A	136	2945	4047	3634	-966	406	115	C
ATOM	647	CB	VAL	A	136	-14.664	4.352	18.225	1.00	28.24		C
ANISOU	647	CB	VAL	A	136	2902	4121	3708	-852	432	95	C
ATOM	648	CG1	VAL	A	136	-13.392	5.026	18.712	1.00	29.77		C
ANISOU	648	CG1	VAL	A	136	3178	4260	3872	-780	461	94	C
ATOM	649	CG2	VAL	A	136	-14.926	4.694	16.765	1.00	30.76		C
ANISOU	649	CG2	VAL	A	136	3183	4444	4061	-794	358	87	C
ATOM	650	C	VAL	A	136	-14.311	2.492	19.877	1.00	30.59		C
ANISOU	650	C	VAL	A	136	3325	4369	3927	-1021	480	120	C
ATOM	651	O	VAL	A	136	-13.169	2.283	20.283	1.00	28.86		O
ANISOU	651	O	VAL	A	136	3221	4082	3664	-1001	484	123	O
ATOM	652	N	ARG	A	137	-15.380	2.428	20.669	1.00	30.48		N
ANISOU	652	N	ARG	A	137	3225	4426	3928	-1089	540	120	N
ATOM	653	CA	ARG	A	137	-15.243	2.053	22.072	1.00	31.01		C
ANISOU	653	CA	ARG	A	137	3352	4481	3950	-1137	604	121	C
ATOM	654	CB	ARG	A	137	-16.589	2.058	22.799	1.00	35.85		C
ANISOU	654	CB	ARG	A	137	3846	5192	4582	-1208	669	120	C
ATOM	655	CG	ARG	A	137	-16.506	1.389	24.165	1.00	43.27		C
ANISOU	655	CG	ARG	A	137	4864	6111	5468	-1281	727	125	C
ATOM	656	CD	ARG	A	137	-17.615	1.815	25.112	1.00	50.55		C
ANISOU	656	CD	ARG	A	137	5668	7135	6405	-1309	814	121	C
ATOM	657	NE	ARG	A	137	-17.242	1.533	26.496	1.00	53.22		N
ANISOU	657	NE	ARG	A	137	6097	7434	6690	-1333	876	120	N
ATOM	658	CZ	ARG	A	137	-17.854	2.040	27.560	1.00	55.95		C
ANISOU	658	CZ	ARG	A	137	6378	7846	7036	-1326	961	115	C
ATOM	659	NH1	ARG	A	137	-18.885	2.859	27.409	1.00	61.32		N
ANISOU	659	NH1	ARG	A	137	6895	8643	7760	-1293	994	109	N
ATOM	660	NH2	ARG	A	137	-17.434	1.726	28.778	1.00	49.77		N
ANISOU	660	NH2	ARG	A	137	5693	7013	6203	-1346	1011	115	N
ATOM	661	C	ARG	A	137	-14.576	0.691	22.226	1.00	30.88		C
ANISOU	661	C	ARG	A	137	3480	4382	3871	-1217	567	135	C
ATOM	662	O	ARG	A	137	-13.700	0.510	23.069	1.00	29.95		O
ANISOU	662	O	ARG	A	137	3472	4204	3702	-1198	588	127	O
ATOM	663	N	CYS	A	138	-14.991	-0.267	21.407	1.00	34.25		N
ANISOU	663	N	CYS	A	138	3910	4803	4300	-1303	504	153	N
ATOM	664	CA	CYS	A	138	-14.429	-1.609	21.470	1.00	37.51		C
ANISOU	664	CA	CYS	A	138	4472	5135	4646	-1379	455	167	C
ATOM	665	CB	CYS	A	138	-15.194	-2.551	20.537	1.00	43.36		C
ANISOU	665	CB	CYS	A	138	5201	5883	5392	-1467	374	184	C
ATOM	666	SG	CYS	A	138	-16.934	-2.773	20.998	1.00	55.20		S
ANISOU	666	SG	CYS	A	138	6553	7490	6931	-1604	425	195	S
ATOM	667	C	CYS	A	138	-12.935	-1.605	21.145	1.00	33.09		C
ANISOU	667	C	CYS	A	138	4040	4489	4044	-1286	411	159	C
ATOM	668	O	CYS	A	138	-12.146	-2.314	21.769	1.00	29.30		O
ANISOU	668	O	CYS	A	138	3695	3943	3495	-1307	408	157	O
ATOM	669	N	THR	A	139	-12.546	-0.794	20.170	1.00	26.27		N
ANISOU	669	N	THR	A	139	3136	3630	3215	-1181	376	152	N
ATOM	670	CA	THR	A	139	-11.139	-0.662	19.826	1.00	23.89		C
ANISOU	670	CA	THR	A	139	2935	3265	2876	-1090	340	145	C
ATOM	671	CB	THR	A	139	-10.954	0.266	18.613	1.00	24.60		C
ANISOU	671	CB	THR	A	139	2962	3373	3012	-988	303	142	C
ATOM	672	OG1	THR	A	139	-11.734	-0.229	17.518	1.00	26.99		O
ANISOU	672	OG1	THR	A	139	3227	3689	3337	-1020	233	152	O
ATOM	673	CG2	THR	A	139	-9.486	0.338	18.209	1.00	19.26		C
ANISOU	673	CG2	THR	A	139	2383	2641	2292	-903	267	137	C
ATOM	674	C	THR	A	139	-10.367	-0.102	21.014	1.00	25.03		C
ANISOU	674	C	THR	A	139	3120	3392	2997	-1043	410	127	C
ATOM	675	O	THR	A	139	-9.305	-0.605	21.382	1.00	26.08		O
ANISOU	675	O	THR	A	139	3375	3465	3068	-1025	394	117	O
ATOM	676	N	ILE	A	140	-10.918	0.936	21.623	1.00	22.01		N
ANISOU	676	N	ILE	A	140	2643	3063	2657	-1009	475	115	N
ATOM	677	CA	ILE	A	140	-10.266	1.561	22.758	1.00	23.74		C
ANISOU	677	CA	ILE	A	140	2902	3261	2858	-951	528	92	C
ATOM	678	CB	ILE	A	140	-10.969	2.872	23.139	1.00	25.05		C
ANISOU	678	CB	ILE	A	140	2951	3488	3078	-900	585	85	C
ATOM	679	CG1	ILE	A	140	-10.844	3.878	21.988	1.00	25.41		C
ANISOU	679	CG1	ILE	A	140	2932	3553	3168	-817	552	87	C
ATOM	680	CD1	ILE	A	140	-11.768	5.058	22.111	1.00	29.64		C
ANISOU	680	CD1	ILE	A	140	3348	4158	3755	-776	595	82	C

ATOM	681	CG2	ILE	A	140	-10.382	3.446	24.419	1.00	24.43		C
ANISOU	681	CG2	ILE	A	140	2922	3380	2982	-849	636	64	C
ATOM	682	C	ILE	A	140	-10.197	0.591	23.943	1.00	28.69		C
ANISOU	682	C	ILE	A	140	3622	3852	3427	-1025	556	85	C
ATOM	683	O	ILE	A	140	-9.167	0.484	24.615	1.00	25.26		O
ANISOU	683	O	ILE	A	140	3289	3361	2949	-987	560	65	O
ATOM	684	N	GLU	A	141	-11.285	-0.132	24.181	1.00	27.08		N
ANISOU	684	N	GLU	A	141	3386	3682	3223	-1134	574	101	N
ATOM	685	CA	GLU	A	141	-11.305	-1.121	25.259	1.00	33.48		C
ANISOU	685	CA	GLU	A	141	4294	4455	3972	-1220	601	98	C
ATOM	686	CB	GLU	A	141	-12.686	-1.768	25.390	1.00	36.14		C
ANISOU	686	CB	GLU	A	141	4565	4847	4319	-1351	624	121	C
ATOM	687	CG	GLU	A	141	-13.729	-0.842	25.997	1.00	40.45		C
ANISOU	687	CG	GLU	A	141	4966	5485	4918	-1346	706	119	C
ATOM	688	CD	GLU	A	141	-15.064	-1.521	26.230	1.00	52.37		C
ANISOU	688	CD	GLU	A	141	6405	7061	6432	-1485	736	141	C
ATOM	689	OE1	GLU	A	141	-15.176	-2.738	25.965	1.00	57.78		O
ANISOU	689	OE1	GLU	A	141	7166	7711	7077	-1595	690	159	O
ATOM	690	OE2	GLU	A	141	-16.004	-0.832	26.678	1.00	54.33		O
ANISOU	690	OE2	GLU	A	141	6522	7401	6719	-1485	803	140	O
ATOM	691	C	GLU	A	141	-10.227	-2.179	25.057	1.00	36.25		C
ANISOU	691	C	GLU	A	141	4806	4718	4248	-1231	537	94	C
ATOM	692	O	GLU	A	141	-9.650	-2.682	26.021	1.00	40.65		O
ANISOU	692	O	GLU	A	141	5479	5220	4745	-1243	555	76	O
ATOM	693	N	ALA	A	142	-9.943	-2.499	23.798	1.00	35.44		N
ANISOU	693	N	ALA	A	142	4716	4602	4146	-1219	460	109	N
ATOM	694	CA	ALA	A	142	-8.898	-3.462	23.477	1.00	31.93		C
ANISOU	694	CA	ALA	A	142	4424	4080	3627	-1215	390	107	C
ATOM	695	CB	ALA	A	142	-9.097	-4.016	22.074	1.00	34.21		C
ANISOU	695	CB	ALA	A	142	4713	4364	3922	-1234	301	131	C
ATOM	696	C	ALA	A	142	-7.493	-2.874	23.636	1.00	33.27		C
ANISOU	696	C	ALA	A	142	4648	4218	3776	-1094	389	78	C
ATOM	697	O	ALA	A	142	-6.500	-3.571	23.432	1.00	35.13		O
ANISOU	697	O	ALA	A	142	5007	4397	3944	-1071	336	70	O
ATOM	698	N	GLY	A	143	-7.416	-1.593	23.991	1.00	27.19		N
ANISOU	698	N	GLY	A	143	3787	3484	3060	-1017	443	61	N
ATOM	699	CA	GLY	A	143	-6.145	-0.953	24.276	1.00	29.75		C
ANISOU	699	CA	GLY	A	143	4152	3781	3373	-914	445	32	C
ATOM	700	C	GLY	A	143	-5.489	-0.169	23.148	1.00	28.88		C
ANISOU	700	C	GLY	A	143	3992	3689	3293	-826	407	37	C
ATOM	701	O	GLY	A	143	-4.327	0.223	23.274	1.00	25.25		O
ANISOU	701	O	GLY	A	143	3571	3205	2816	-751	398	14	O
ATOM	702	N	TYR	A	144	-6.223	0.078	22.061	1.00	24.88		N
ANISOU	702	N	TYR	A	144	3648	2477	3326	-607	-15	388	N
ATOM	703	CA	TYR	A	144	-5.659	0.722	20.869	1.00	24.95		C
ANISOU	703	CA	TYR	A	144	3601	2522	3357	-530	-3	281	C
ATOM	704	C	TYR	A	144	-6.365	2.019	20.474	1.00	27.21		C
ANISOU	704	C	TYR	A	144	3792	2925	3620	-534	98	279	C
ATOM	705	CB	TYR	A	144	-5.717	-0.229	19.665	1.00	22.60		C
ANISOU	705	CB	TYR	A	144	3317	2153	3118	-533	-85	226	C
ATOM	706	CG	TYR	A	144	-5.025	-1.554	19.884	1.00	27.70		C
ANISOU	706	CG	TYR	A	144	4064	2662	3799	-510	-205	210	C
ATOM	707	CD1	TYR	A	144	-3.671	-1.612	20.176	1.00	30.75		C
ANISOU	707	CD1	TYR	A	144	4481	3022	4181	-409	-241	154	C
ATOM	708	CD2	TYR	A	144	-5.729	-2.746	19.810	1.00	34.05		C
ANISOU	708	CD2	TYR	A	144	4933	3360	4644	-590	-293	257	C
ATOM	709	CE1	TYR	A	144	-3.034	-2.824	20.382	1.00	32.86		C
ANISOU	709	CE1	TYR	A	144	4841	3157	4488	-372	-359	136	C
ATOM	710	CE2	TYR	A	144	-5.101	-3.965	20.018	1.00	38.42		C
ANISOU	710	CE2	TYR	A	144	5594	3767	5236	-563	-420	241	C
ATOM	711	CZ	TYR	A	144	-3.752	-3.995	20.301	1.00	34.98		C
ANISOU	711	CZ	TYR	A	144	5186	3305	4799	-445	-451	176	C
ATOM	712	OH	TYR	A	144	-3.119	-5.202	20.507	1.00	33.87		O
ANISOU	712	OH	TYR	A	144	5152	3014	4704	-402	-585	157	O
ATOM	713	O	TYR	A	144	-7.521	1.991	20.061	1.00	32.77		O
ANISOU	713	O	TYR	A	144	4448	3661	4341	-598	126	320	O
ATOM	714	N	PRO	A	145	-5.682	3.167	20.621	1.00	21.12		N
ANISOU	714	N	PRO	A	145	2997	2213	2814	-469	144	239	N
ATOM	715	CA	PRO	A	145	-4.440	3.311	21.379	1.00	17.75		C
ANISOU	715	CA	PRO	A	145	2622	1763	2359	-412	115	219	C

ATOM	716	C	PRO	A	145	-4.810	3.521	22.837	1.00	18.89	C	
ANISOU	716	C	PRO	A	145	2815	1919	2444	-440	155	293	C
ATOM	717	CB	PRO	A	145	-3.853	4.606	20.827	1.00	20.59	C	
ANISOU	717	CB	PRO	A	145	2923	2194	2704	-359	147	163	C
ATOM	718	CG	PRO	A	145	-5.050	5.419	20.434	1.00	18.51	C	
ANISOU	718	CG	PRO	A	145	2598	1996	2438	-391	220	184	C
ATOM	719	CD	PRO	A	145	-6.124	4.444	20.029	1.00	17.53	C	
ANISOU	719	CD	PRO	A	145	2461	1848	2350	-455	213	220	C
ATOM	720	O	PRO	A	145	-6.000	3.555	23.151	1.00	22.05	O	
ANISOU	720	O	PRO	A	145	3194	2358	2826	-496	212	354	O
ATOM	721	N	GLY	A	146	-3.813	3.678	23.698	1.00	16.68	N	
ANISOU	721	N	GLY	A	146	2592	1618	2128	-403	126	289	N
ATOM	722	CA	GLY	A	146	-4.047	3.962	25.100	1.00	13.21	C	
ANISOU	722	CA	GLY	A	146	2209	1197	1611	-423	161	349	C
ATOM	723	C	GLY	A	146	-3.868	5.434	25.438	1.00	17.21	C	
ANISOU	723	C	GLY	A	146	2709	1769	2062	-379	217	317	C
ATOM	724	O	GLY	A	146	-3.356	6.217	24.637	1.00	18.76	O	
ANISOU	724	O	GLY	A	146	2859	1984	2284	-339	210	257	O
ATOM	725	N	VAL	A	147	-4.299	5.809	26.634	1.00	16.03	N	
ANISOU	725	N	VAL	A	147	2610	1653	1829	-388	266	357	N
ATOM	726	CA	VAL	A	147	-4.164	7.183	27.107	1.00	14.76	C	
ANISOU	726	CA	VAL	A	147	2470	1535	1603	-340	305	321	C
ATOM	727	CB	VAL	A	147	-5.487	7.964	26.947	1.00	22.47	C	
ANISOU	727	CB	VAL	A	147	3390	2590	2559	-327	408	320	C
ATOM	728	CG1	VAL	A	147	-5.308	9.421	27.383	1.00	26.75	C	
ANISOU	728	CG1	VAL	A	147	3972	3152	3041	-261	430	266	C
ATOM	729	CG2	VAL	A	147	-5.996	7.881	25.516	1.00	28.12	C	
ANISOU	729	CG2	VAL	A	147	4003	3315	3367	-340	415	304	C
ATOM	730	C	VAL	A	147	-3.807	7.161	28.586	1.00	19.24	C	
ANISOU	730	C	VAL	A	147	3141	2095	2072	-342	295	353	C
ATOM	731	O	VAL	A	147	-4.454	6.455	29.359	1.00	23.54	O	
ANISOU	731	O	VAL	A	147	3715	2661	2569	-386	326	421	O
ATOM	732	N	LEU	A	148	-2.785	7.915	28.984	1.00	18.54	N	
ANISOU	732	N	LEU	A	148	3111	1984	1951	-306	244	314	N
ATOM	733	CA	LEU	A	148	-2.414	8.002	30.401	1.00	18.62	C	
ANISOU	733	CA	LEU	A	148	3231	1988	1855	-308	225	339	C
ATOM	734	CB	LEU	A	148	-0.968	8.480	30.575	1.00	20.12	C	
ANISOU	734	CB	LEU	A	148	3471	2127	2045	-288	122	307	C
ATOM	735	CG	LEU	A	148	0.189	7.593	30.107	1.00	25.54	C	
ANISOU	735	CG	LEU	A	148	4129	2758	2815	-298	21	321	C
ATOM	736	CD1	LEU	A	148	1.523	8.214	30.531	1.00	24.27	C	
ANISOU	736	CD1	LEU	A	148	4016	2574	2633	-285	-74	306	C
ATOM	737	CD2	LEU	A	148	0.044	6.170	30.645	1.00	25.39	C	
ANISOU	737	CD2	LEU	A	148	4146	2703	2799	-337	-5	388	C
ATOM	738	C	LEU	A	148	-3.340	8.947	31.160	1.00	22.45	C	
ANISOU	738	C	LEU	A	148	3754	2542	2234	-276	319	323	C
ATOM	739	O	LEU	A	148	-3.789	9.959	30.622	1.00	20.38	O	
ANISOU	739	O	LEU	A	148	3453	2306	1985	-229	364	269	O
ATOM	740	N	SER	A	149	-3.615	8.624	32.420	1.00	22.66	N	
ANISOU	740	N	SER	A	149	3860	2601	2150	-295	347	369	N
ATOM	741	CA	SER	A	149	-4.456	9.492	33.237	1.00	25.98	C	
ANISOU	741	CA	SER	A	149	4321	3102	2447	-247	442	344	C
ATOM	742	CB	SER	A	149	-4.946	8.747	34.479	1.00	31.63	C	
ANISOU	742	CB	SER	A	149	5092	3884	3042	-292	489	423	C
ATOM	743	OG	SER	A	149	-3.873	8.533	35.375	1.00	41.58	O	
ANISOU	743	OG	SER	A	149	6471	5088	4240	-316	395	439	O
ATOM	744	C	SER	A	149	-3.719	10.769	33.644	1.00	26.47	C	
ANISOU	744	C	SER	A	149	4481	3125	2451	-184	393	261	C
ATOM	745	O	SER	A	149	-4.344	11.807	33.858	1.00	29.92	O	
ANISOU	745	O	SER	A	149	4941	3603	2826	-112	457	201	O
ATOM	746	N	SER	A	150	-2.394	10.695	33.750	1.00	24.47	N	
ANISOU	746	N	SER	A	150	4286	2792	2221	-209	272	260	N
ATOM	747	CA	SER	A	150	-1.592	11.866	34.114	1.00	25.01	C	
ANISOU	747	CA	SER	A	150	4450	2811	2242	-172	197	196	C
ATOM	748	CB	SER	A	150	-0.526	11.497	35.144	1.00	28.37	C	
ANISOU	748	CB	SER	A	150	4986	3195	2598	-212	96	230	C
ATOM	749	OG	SER	A	150	-1.124	11.088	36.359	1.00	39.02	O	
ANISOU	749	OG	SER	A	150	6414	4602	3810	-220	157	265	O
ATOM	750	C	SER	A	150	-0.918	12.506	32.909	1.00	22.94	C	
ANISOU	750	C	SER	A	150	4122	2495	2098	-167	127	158	C

ATOM	751	O	SER	A	150	-0.595	11.823	31.937	1.00	21.32		O
ANISOU	751	O	SER	A	150	3814	2281	2005	-199	103	186	O
ATOM	752	N	ARG	A	151	-0.710	13.822	32.978	1.00	16.72		N
ANISOU	752	N	ARG	A	151	3400	1675	1280	-127	87	94	N
ATOM	753	CA	ARG	A	151	0.027	14.538	31.945	1.00	17.44		C
ANISOU	753	CA	ARG	A	151	3440	1718	1467	-140	2	74	C
ATOM	754	CB	ARG	A	151	-0.303	16.042	31.993	1.00	20.22		C
ANISOU	754	CB	ARG	A	151	3867	2034	1782	-85	-13	2	C
ATOM	755	CG	ARG	A	151	-1.754	16.402	31.637	1.00	20.78		C
ANISOU	755	CG	ARG	A	151	3890	2151	1855	-12	111	-37	C
ATOM	756	CD	ARG	A	151	-2.072	17.902	31.865	1.00	19.77		C
ANISOU	756	CD	ARG	A	151	3862	1969	1679	65	82	-119	C
ATOM	757	NE	ARG	A	151	-3.493	18.178	31.638	1.00	23.33		N
ANISOU	757	NE	ARG	A	151	4259	2477	2127	153	206	-155	N
ATOM	758	CZ	ARG	A	151	-4.030	18.448	30.448	1.00	27.80		C
ANISOU	758	CZ	ARG	A	151	4711	3052	2800	162	229	-151	C
ATOM	759	NH1	ARG	A	151	-3.268	18.505	29.359	1.00	21.66		N
ANISOU	759	NH1	ARG	A	151	3865	2235	2130	88	143	-116	N
ATOM	760	NH2	ARG	A	151	-5.334	18.671	30.344	1.00	22.47		N
ANISOU	760	NH2	ARG	A	151	3983	2436	2119	246	339	-178	N
ATOM	761	C	ARG	A	151	1.521	14.330	32.190	1.00	20.91		C
ANISOU	761	C	ARG	A	151	3912	2113	1920	-197	-131	109	C
ATOM	762	O	ARG	A	151	1.920	14.014	33.311	1.00	17.28		O
ANISOU	762	O	ARG	A	151	3550	1639	1375	-211	-170	129	O
ATOM	763	N	ASP	A	152	2.343	14.506	31.152	1.00	20.75		N
ANISOU	763	N	ASP	A	152	3800	2083	2000	-230	-202	123	N
ATOM	764	CA	ASP	A	152	3.798	14.474	31.320	1.00	20.00		C
ANISOU	764	CA	ASP	A	152	3714	1963	1921	-281	-334	161	C
ATOM	765	CB	ASP	A	152	4.519	14.061	30.027	1.00	19.91		C
ANISOU	765	CB	ASP	A	152	3545	1991	2028	-307	-363	192	C
ATOM	766	CG	ASP	A	152	4.282	15.022	28.868	1.00	19.51		C
ANISOU	766	CG	ASP	A	152	3424	1956	2034	-313	-356	171	C
ATOM	767	OD1	ASP	A	152	3.979	16.216	29.104	1.00	18.09		O
ANISOU	767	OD1	ASP	A	152	3328	1732	1814	-310	-383	140	O
ATOM	768	OD2	ASP	A	152	4.417	14.571	27.704	1.00	20.59		O
ANISOU	768	OD2	ASP	A	152	3425	2147	2252	-320	-331	184	O
ATOM	769	C	ASP	A	152	4.313	15.816	31.833	1.00	19.93		C
ANISOU	769	C	ASP	A	152	3820	1897	1856	-298	-438	137	C
ATOM	770	O	ASP	A	152	3.523	16.706	32.144	1.00	18.66		O
ANISOU	770	O	ASP	A	152	3749	1706	1636	-255	-406	80	O
ATOM	771	N	LYS	A	153	5.633	15.965	31.923	1.00	18.21		N
ANISOU	771	N	LYS	A	153	3600	1662	1656	-357	-571	181	N
ATOM	772	CA	LYS	A	153	6.207	17.157	32.547	1.00	24.56		C
ANISOU	772	CA	LYS	A	153	4534	2399	2401	-391	-697	169	C
ATOM	773	CB	LYS	A	153	7.694	16.952	32.853	1.00	22.77		C
ANISOU	773	CB	LYS	A	153	4291	2172	2188	-465	-841	240	C
ATOM	774	CG	LYS	A	153	8.583	16.853	31.624	1.00	23.55		C
ANISOU	774	CG	LYS	A	153	4209	2335	2404	-514	-886	300	C
ATOM	775	CD	LYS	A	153	10.037	16.659	32.014	1.00	30.63		C
ANISOU	775	CD	LYS	A	153	5078	3248	3311	-580	-1027	375	C
ATOM	776	CE	LYS	A	153	10.957	16.812	30.816	1.00	33.61		C
ANISOU	776	CE	LYS	A	153	5273	3711	3788	-631	-1077	437	C
ATOM	777	NZ	LYS	A	153	12.385	16.723	31.223	1.00	31.00		N
ANISOU	777	NZ	LYS	A	153	4902	3410	3467	-697	-1221	520	N
ATOM	778	C	LYS	A	153	5.985	18.403	31.689	1.00	23.93		C
ANISOU	778	C	LYS	A	153	4440	2287	2363	-400	-728	143	C
ATOM	779	O	LYS	A	153	6.164	19.530	32.154	1.00	23.60		O
ANISOU	779	O	LYS	A	153	4529	2166	2271	-417	-828	117	O
ATOM	780	N	TYR	A	154	5.585	18.194	30.440	1.00	21.89		N
ANISOU	780	N	TYR	A	154	4035	2085	2197	-392	-652	151	N
ATOM	781	CA	TYR	A	154	5.280	19.304	29.544	1.00	21.04		C
ANISOU	781	CA	TYR	A	154	3907	1954	2135	-403	-677	136	C
ATOM	782	CB	TYR	A	154	5.670	18.949	28.106	1.00	21.62		C
ANISOU	782	CB	TYR	A	154	3789	2114	2314	-447	-661	190	C
ATOM	783	CG	TYR	A	154	7.140	18.638	27.907	1.00	22.88		C
ANISOU	783	CG	TYR	A	154	3860	2327	2507	-525	-762	267	C
ATOM	784	CD1	TYR	A	154	8.066	19.656	27.696	1.00	27.84		C
ANISOU	784	CD1	TYR	A	154	4491	2939	3147	-616	-906	321	C
ATOM	785	CE1	TYR	A	154	9.410	19.378	27.505	1.00	30.85		C
ANISOU	785	CE1	TYR	A	154	4768	3394	3558	-688	-994	403	C

ATOM	786	CZ	TYR	A	154	9.846	18.067	27.522	1.00	33.61		C
ANISOU	786	CZ	TYR	A	154	5017	3825	3930	-651	-938	418	C
ATOM	787	OH	TYR	A	154	11.183	17.787	27.328	1.00	31.88		O
ANISOU	787	OH	TYR	A	154	4679	3692	3742	-704	-1022	496	O
ATOM	788	CE2	TYR	A	154	8.948	17.035	27.734	1.00	24.80		C
ANISOU	788	CE2	TYR	A	154	3915	2703	2805	-559	-807	359	C
ATOM	789	CD2	TYR	A	154	7.604	17.323	27.920	1.00	23.09		C
ANISOU	789	CD2	TYR	A	154	3794	2423	2556	-507	-719	291	C
ATOM	790	C	TYR	A	154	3.792	19.650	29.602	1.00	20.38		C
ANISOU	790	C	TYR	A	154	3877	1844	2021	-311	-564	60	C
ATOM	791	O	TYR	A	154	3.319	20.534	28.885	1.00	22.73		O
ANISOU	791	O	TYR	A	154	4164	2115	2360	-302	-574	41	O
ATOM	792	N	GLY	A	155	3.057	18.941	30.454	1.00	20.03		N
ANISOU	792	N	GLY	A	155	3883	1819	1908	-247	-461	26	N
ATOM	793	CA	GLY	A	155	1.616	19.111	30.562	1.00	20.03		C
ANISOU	793	CA	GLY	A	155	3907	1829	1875	-154	-336	-36	C
ATOM	794	C	GLY	A	155	0.861	18.510	29.380	1.00	21.09		C
ANISOU	794	C	GLY	A	155	3876	2035	2102	-145	-227	-17	C
ATOM	795	O	GLY	A	155	-0.301	18.842	29.141	1.00	17.48		O
ANISOU	795	O	GLY	A	155	3404	1590	1647	-79	-141	-56	O
ATOM	796	N	ARG	A	156	1.521	17.621	28.641	1.00	18.71		N
ANISOU	796	N	ARG	A	156	3452	1784	1874	-204	-235	40	N
ATOM	797	CA	ARG	A	156	0.912	16.982	27.475	1.00	19.60		C
ANISOU	797	CA	ARG	A	156	3418	1961	2069	-203	-149	55	C
ATOM	798	CB	ARG	A	156	1.982	16.587	26.447	1.00	17.85		C
ANISOU	798	CB	ARG	A	156	3078	1779	1925	-268	-209	103	C
ATOM	799	CG	ARG	A	156	2.832	17.769	25.976	1.00	18.11		C
ANISOU	799	CG	ARG	A	156	3114	1787	1979	-323	-328	124	C
ATOM	800	CD	ARG	A	156	3.940	17.342	25.015	1.00	16.97		C
ANISOU	800	CD	ARG	A	156	2835	1717	1895	-385	-376	178	C
ATOM	801	NE	ARG	A	156	4.728	16.209	25.513	1.00	18.14		N
ANISOU	801	NE	ARG	A	156	2961	1894	2036	-383	-384	199	N
ATOM	802	CZ	ARG	A	156	5.976	15.944	25.124	1.00	21.54		C
ANISOU	802	CZ	ARG	A	156	3303	2384	2498	-424	-453	246	C
ATOM	803	NH1	ARG	A	156	6.583	16.746	24.251	1.00	18.12		N
ANISOU	803	NH1	ARG	A	156	2793	1998	2094	-485	-517	285	N
ATOM	804	NH2	ARG	A	156	6.622	14.886	25.609	1.00	21.10		N
ANISOU	804	NH2	ARG	A	156	3229	2345	2441	-405	-463	260	N
ATOM	805	C	ARG	A	156	0.105	15.750	27.845	1.00	20.33		C
ANISOU	805	C	ARG	A	156	3484	2099	2143	-175	-35	61	C
ATOM	806	O	ARG	A	156	0.418	15.046	28.811	1.00	17.58		O
ANISOU	806	O	ARG	A	156	3194	1746	1738	-180	-39	78	O
ATOM	807	N	VAL	A	157	-0.934	15.483	27.062	1.00	18.38		N
ANISOU	807	N	VAL	A	157	3146	1894	1943	-155	55	57	N
ATOM	808	CA	VAL	A	157	-1.586	14.187	27.129	1.00	19.66		C
ANISOU	808	CA	VAL	A	157	3257	2101	2111	-157	141	83	C
ATOM	809	CB	VAL	A	157	-2.930	14.184	26.402	1.00	21.74		C
ANISOU	809	CB	VAL	A	157	3437	2409	2415	-134	235	78	C
ATOM	810	CG1	VAL	A	157	-3.543	12.793	26.455	1.00	22.32		C
ANISOU	810	CG1	VAL	A	157	3459	2521	2499	-159	302	119	C
ATOM	811	CG2	VAL	A	157	-3.868	15.187	27.045	1.00	21.43		C
ANISOU	811	CG2	VAL	A	157	3457	2372	2313	-64	288	39	C
ATOM	812	C	VAL	A	157	-0.642	13.162	26.502	1.00	19.86		C
ANISOU	812	C	VAL	A	157	3212	2133	2200	-204	92	115	C
ATOM	813	O	VAL	A	157	-0.002	13.438	25.486	1.00	15.63		O
ANISOU	813	O	VAL	A	157	2605	1610	1725	-225	43	114	O
ATOM	814	N	VAL	A	158	-0.549	11.990	27.119	1.00	18.40		N
ANISOU	814	N	VAL	A	158	3048	1946	1998	-216	102	145	N
ATOM	815	CA	VAL	A	158	0.321	10.930	26.623	1.00	16.14		C
ANISOU	815	CA	VAL	A	158	2707	1655	1771	-237	51	165	C
ATOM	816	CB	VAL	A	158	1.240	10.398	27.739	1.00	18.95		C
ANISOU	816	CB	VAL	A	158	3143	1975	2083	-245	-18	194	C
ATOM	817	CG1	VAL	A	158	2.171	9.321	27.189	1.00	16.19		C
ANISOU	817	CG1	VAL	A	158	2730	1617	1803	-245	-77	208	C
ATOM	818	CG2	VAL	A	158	2.040	11.540	28.353	1.00	19.75		C
ANISOU	818	CG2	VAL	A	158	3315	2057	2132	-249	-89	185	C
ATOM	819	C	VAL	A	158	-0.506	9.772	26.078	1.00	17.58		C
ANISOU	819	C	VAL	A	158	2830	1849	1999	-246	107	179	C
ATOM	820	O	VAL	A	158	-1.249	9.130	26.822	1.00	18.33		O
ANISOU	820	O	VAL	A	158	2969	1939	2059	-257	151	211	O

ATOM	821	N	MET	A	159	-0.384	9.523	24.773	1.00	14.67		N
ANISOU	821	N	MET	A	159	2367	1502	1704	-247	102	160	N
ATOM	822	CA	MET	A	159	-1.065	8.415	24.117	1.00	16.18		C
ANISOU	822	CA	MET	A	159	2511	1692	1945	-259	132	165	C
ATOM	823	CB	MET	A	159	-1.640	8.863	22.766	1.00	16.11		C
ANISOU	823	CB	MET	A	159	2412	1728	1983	-263	167	138	C
ATOM	824	CG	MET	A	159	-2.547	10.091	22.919	1.00	21.82		C
ANISOU	824	CG	MET	A	159	3136	2478	2676	-259	223	139	C
ATOM	825	SD	MET	A	159	-3.534	10.498	21.473	1.00	27.54		S
ANISOU	825	SD	MET	A	159	3759	3249	3455	-272	264	127	S
ATOM	826	CE	MET	A	159	-4.768	9.200	21.567	1.00	21.28		C
ANISOU	826	CE	MET	A	159	2951	2455	2682	-304	316	163	C
ATOM	827	C	MET	A	159	-0.104	7.242	23.957	1.00	16.42		C
ANISOU	827	C	MET	A	159	2538	1686	2014	-247	62	163	C
ATOM	828	O	MET	A	159	1.117	7.432	23.918	1.00	14.02		O
ANISOU	828	O	MET	A	159	2223	1389	1716	-223	1	149	O
ATOM	829	N	LEU	A	160	-0.657	6.031	23.885	1.00	13.16		N
ANISOU	829	N	LEU	A	160	2137	1234	1631	-262	63	179	N
ATOM	830	CA	LEU	A	160	0.154	4.819	23.914	1.00	15.24		C
ANISOU	830	CA	LEU	A	160	2422	1437	1930	-239	-15	176	C
ATOM	831	CB	LEU	A	160	-0.042	4.081	25.242	1.00	15.28		C
ANISOU	831	CB	LEU	A	160	2524	1380	1902	-270	-41	241	C
ATOM	832	CG	LEU	A	160	0.166	4.841	26.553	1.00	17.37		C
ANISOU	832	CG	LEU	A	160	2856	1660	2083	-282	-31	278	C
ATOM	833	CD1	LEU	A	160	-0.320	3.974	27.706	1.00	23.12		C
ANISOU	833	CD1	LEU	A	160	3671	2343	2769	-330	-43	353	C
ATOM	834	CD2	LEU	A	160	1.628	5.249	26.741	1.00	18.14		C
ANISOU	834	CD2	LEU	A	160	2956	1758	2179	-241	-105	257	C
ATOM	835	C	LEU	A	160	-0.206	3.846	22.813	1.00	15.98		C
ANISOU	835	C	LEU	A	160	2478	1505	2087	-233	-29	144	C
ATOM	836	O	LEU	A	160	-1.369	3.720	22.434	1.00	17.49		O
ANISOU	836	O	LEU	A	160	2656	1702	2288	-278	17	158	O
ATOM	837	N	PHE	A	161	0.798	3.126	22.326	1.00	14.57		N
ANISOU	837	N	PHE	A	161	2287	1301	1949	-173	-98	100	N
ATOM	838	CA	PHE	A	161	0.548	2.001	21.446	1.00	16.23		C
ANISOU	838	CA	PHE	A	161	2496	1459	2212	-155	-133	59	C
ATOM	839	CB	PHE	A	161	0.503	2.417	19.970	1.00	14.45		C
ANISOU	839	CB	PHE	A	161	2180	1311	1999	-130	-99	-10	C
ATOM	840	CG	PHE	A	161	0.134	1.276	19.054	1.00	18.84		C
ANISOU	840	CG	PHE	A	161	2753	1809	2598	-114	-140	-61	C
ATOM	841	CD1	PHE	A	161	-1.190	0.909	18.884	1.00	23.94		C
ANISOU	841	CD1	PHE	A	161	3426	2412	3258	-193	-126	-29	C
ATOM	842	CE1	PHE	A	161	-1.537	-0.165	18.062	1.00	24.05		C
ANISOU	842	CE1	PHE	A	161	3473	2355	3310	-188	-184	-74	C
ATOM	843	CZ	PHE	A	161	-0.550	-0.886	17.420	1.00	23.49		C
ANISOU	843	CZ	PHE	A	161	3413	2255	3258	-84	-250	-167	C
ATOM	844	CE2	PHE	A	161	0.773	-0.540	17.593	1.00	25.53		C
ANISOU	844	CE2	PHE	A	161	3629	2570	3502	8	-251	-202	C
ATOM	845	CD2	PHE	A	161	1.114	0.536	18.417	1.00	20.20		C
ANISOU	845	CD2	PHE	A	161	2916	1966	2794	-16	-200	-141	C
ATOM	846	C	PHE	A	161	1.597	0.919	21.664	1.00	17.59		C
ANISOU	846	C	PHE	A	161	2709	1555	2420	-82	-231	35	C
ATOM	847	O	PHE	A	161	2.795	1.175	21.578	1.00	17.52		O
ANISOU	847	O	PHE	A	161	2656	1591	2411	-11	-257	2	O
ATOM	848	N	ASN	A	162	1.135	-0.287	21.979	1.00	18.44		N
ANISOU	848	N	ASN	A	162	2900	1547	2560	-104	-293	61	N
ATOM	849	CA	ASN	A	162	2.021	-1.424	22.161	1.00	20.29		C
ANISOU	849	CA	ASN	A	162	3187	1682	2840	-28	-402	36	C
ATOM	850	CB	ASN	A	162	1.841	-2.045	23.554	1.00	20.76		C
ANISOU	850	CB	ASN	A	162	3353	1641	2893	-87	-463	135	C
ATOM	851	CG	ASN	A	162	2.902	-3.097	23.873	1.00	27.48		C
ANISOU	851	CG	ASN	A	162	4260	2386	3794	1	-590	119	C
ATOM	852	OD1	ASN	A	162	3.369	-3.810	22.989	1.00	26.72		O
ANISOU	852	OD1	ASN	A	162	4155	2246	3753	98	-648	32	O
ATOM	853	ND2	ASN	A	162	3.271	-3.203	25.143	1.00	31.52		N
ANISOU	853	ND2	ASN	A	162	4833	2859	4284	-26	-638	201	N
ATOM	854	C	ASN	A	162	1.697	-2.419	21.064	1.00	24.44		C
ANISOU	854	C	ASN	A	162	3732	2139	3417	7	-451	-36	C
ATOM	855	O	ASN	A	162	0.593	-2.959	21.011	1.00	24.14		O
ANISOU	855	O	ASN	A	162	3748	2030	3393	-77	-464	1	O

ATOM	856	N	ILE	A	163	2.645	-2.636	20.161	1.00	23.64	N	
ANISOU	856	N	ILE	A	163	3580	2067	3337	130	-477	-139	N
ATOM	857	CA	ILE	A	163	2.360	-3.421	18.973	1.00	25.49	C	
ANISOU	857	CA	ILE	A	163	3830	2254	3601	177	-513	-232	C
ATOM	858	CB	ILE	A	163	3.358	-3.112	17.841	1.00	27.64	C	
ANISOU	858	CB	ILE	A	163	3998	2647	3856	306	-483	-348	C
ATOM	859	CG1	ILE	A	163	2.763	-3.500	16.486	1.00	31.10	C	
ANISOU	859	CG1	ILE	A	163	4440	3085	4291	321	-480	-439	C
ATOM	860	CD1	ILE	A	163	3.382	-2.763	15.326	1.00	34.23	C	
ANISOU	860	CD1	ILE	A	163	4710	3658	4636	394	-404	-522	C
ATOM	861	CG2	ILE	A	163	4.690	-3.810	18.096	1.00	29.92	C	
ANISOU	861	CG2	ILE	A	163	4291	2900	4176	453	-564	-398	C
ATOM	862	C	ILE	A	163	2.354	-4.921	19.261	1.00	24.75	C	
ANISOU	862	C	ILE	A	163	3864	1972	3567	208	-649	-240	C
ATOM	863	O	ILE	A	163	1.967	-5.718	18.407	1.00	28.89	O	
ANISOU	863	O	ILE	A	163	4439	2418	4120	232	-705	-311	O
ATOM	864	N	GLU	A	164	2.758	-5.305	20.466	1.00	28.98	N	
ANISOU	864	N	GLU	A	164	4462	2426	4121	202	-716	-165	N
ATOM	865	CA	GLU	A	164	2.895	-6.729	20.779	1.00	34.08	C	
ANISOU	865	CA	GLU	A	164	5236	2881	4833	240	-867	-167	C
ATOM	866	CB	GLU	A	164	3.463	-6.944	22.178	1.00	33.40	C	
ANISOU	866	CB	GLU	A	164	5202	2733	4755	229	-932	-70	C
ATOM	867	CG	GLU	A	164	3.791	-8.406	22.451	1.00	46.32	C	
ANISOU	867	CG	GLU	A	164	6968	4165	6468	290	-1107	-77	C
ATOM	868	CD	GLU	A	164	4.760	-8.586	23.593	1.00	58.65	C	
ANISOU	868	CD	GLU	A	164	8556	5687	8043	335	-1181	-14	C
ATOM	869	OE1	GLU	A	164	4.730	-7.761	24.529	1.00	62.85	O	
ANISOU	869	OE1	GLU	A	164	9055	6307	8516	247	-1114	84	O
ATOM	870	OE2	GLU	A	164	5.549	-9.555	23.558	1.00	65.57	O	
ANISOU	870	OE2	GLU	A	164	9488	6439	8987	464	-1314	-66	O
ATOM	871	C	GLU	A	164	1.589	-7.509	20.609	1.00	34.32	C	
ANISOU	871	C	GLU	A	164	5368	2783	4888	121	-924	-125	C
ATOM	872	O	GLU	A	164	0.568	-7.175	21.198	1.00	32.42	O	
ANISOU	872	O	GLU	A	164	5136	2561	4620	-34	-876	-10	O
ATOM	873	N	ASN	A	165	1.629	-8.553	19.795	1.00	40.48	N	
ANISOU	873	N	ASN	A	165	6223	3438	5720	195	-1031	-220	N
ATOM	874	CA	ASN	A	165	0.424	-9.329	19.526	1.00	53.24	C	
ANISOU	874	CA	ASN	A	165	7940	4924	7365	74	-1107	-182	C
ATOM	875	CB	ASN	A	165	-0.073	-10.001	20.809	1.00	64.46	C	
ANISOU	875	CB	ASN	A	165	9469	6210	8812	-58	-1202	-23	C
ATOM	876	CG	ASN	A	165	0.929	-10.986	21.374	1.00	72.92	C	
ANISOU	876	CG	ASN	A	165	10643	7122	9943	51	-1356	-39	C
ATOM	877	OD1	ASN	A	165	1.554	-11.747	20.632	1.00	74.67	O	
ANISOU	877	OD1	ASN	A	165	10917	7239	10214	201	-1456	-171	O
ATOM	878	ND2	ASN	A	165	1.089	-10.978	22.693	1.00	75.71	N	
ANISOU	878	ND2	ASN	A	165	11024	7455	10286	-16	-1378	93	N
ATOM	879	C	ASN	A	165	-0.713	-8.528	18.876	1.00	47.58	C	
ANISOU	879	C	ASN	A	165	7146	4329	6604	-45	-989	-160	C
ATOM	880	O	ASN	A	165	-1.853	-8.990	18.851	1.00	45.37	O	
ANISOU	880	O	ASN	A	165	6924	3972	6341	-183	-1036	-87	O
ATOM	881	N	TRP	A	166	-0.419	-7.333	18.364	1.00	34.27	N	
ANISOU	881	N	TRP	A	166	5325	2831	4864	1	-848	-211	N
ATOM	882	CA	TRP	A	166	-1.406	-6.643	17.539	1.00	29.06	C	
ANISOU	882	CA	TRP	A	166	4595	2275	4172	-85	-756	-212	C
ATOM	883	CB	TRP	A	166	-0.930	-5.248	17.104	1.00	25.92	C	
ANISOU	883	CB	TRP	A	166	4052	2080	3715	-33	-612	-254	C
ATOM	884	CG	TRP	A	166	-1.785	-4.665	16.025	1.00	27.72	C	
ANISOU	884	CG	TRP	A	166	4216	2400	3916	-92	-543	-280	C
ATOM	885	CD1	TRP	A	166	-3.136	-4.481	16.061	1.00	28.68	C	
ANISOU	885	CD1	TRP	A	166	4333	2524	4040	-237	-517	-191	C
ATOM	886	NE1	TRP	A	166	-3.572	-3.925	14.878	1.00	26.07	N	
ANISOU	886	NE1	TRP	A	166	3934	2289	3684	-248	-465	-244	N
ATOM	887	CE2	TRP	A	166	-2.492	-3.730	14.059	1.00	33.07	C	
ANISOU	887	CE2	TRP	A	166	4780	3244	4541	-114	-450	-367	C
ATOM	888	CD2	TRP	A	166	-1.349	-4.189	14.747	1.00	31.67	C	
ANISOU	888	CD2	TRP	A	166	4639	3013	4380	-8	-495	-393	C
ATOM	889	CE3	TRP	A	166	-0.104	-4.103	14.117	1.00	37.92	C	
ANISOU	889	CE3	TRP	A	166	5382	3881	5146	143	-484	-508	C
ATOM	890	CZ3	TRP	A	166	-0.040	-3.575	12.842	1.00	43.57	C	
ANISOU	890	CZ3	TRP	A	166	6019	4726	5810	176	-427	-589	C

ATOM	891	CH2	TRP	A	166	-1.193	-3.128	12.184	1.00	45.32	C	
ANISOU	891	CH2	TRP	A	166	6218	4987	6014	63	-389	-559	C
ATOM	892	CZ2	TRP	A	166	-2.425	-3.196	12.774	1.00	42.25	C	
ANISOU	892	CZ2	TRP	A	166	5871	4522	5661	-79	-402	-450	C
ATOM	893	C	TRP	A	166	-1.675	-7.521	16.325	1.00	31.07	C	
ANISOU	893	C	TRP	A	166	4917	2437	4452	-49	-847	-319	C
ATOM	894	O	TRP	A	166	-0.745	-7.964	15.646	1.00	32.41	O	
ANISOU	894	O	TRP	A	166	5105	2582	4627	108	-894	-456	O
ATOM	895	N	GLN	A	167	-2.948	-7.802	16.075	1.00	28.65	N	
ANISOU	895	N	GLN	A	167	4647	2079	4158	-192	-877	-258	N
ATOM	896	CA	GLN	A	167	-3.338	-8.587	14.911	1.00	36.23	C	
ANISOU	896	CA	GLN	A	167	5683	2947	5137	-182	-972	-353	C
ATOM	897	CB	GLN	A	167	-4.057	-9.861	15.345	1.00	42.28	C	
ANISOU	897	CB	GLN	A	167	6600	3498	5967	-291	-1139	-275	C
ATOM	898	CG	GLN	A	167	-3.165	-10.805	16.133	1.00	54.60	C	
ANISOU	898	CG	GLN	A	167	8273	4895	7575	-203	-1264	-284	C
ATOM	899	CD	GLN	A	167	-3.852	-12.110	16.474	1.00	66.94	C	
ANISOU	899	CD	GLN	A	167	10002	6229	9205	-318	-1454	-206	C
ATOM	900	OE1	GLN	A	167	-5.071	-12.158	16.636	1.00	71.55	O	
ANISOU	900	OE1	GLN	A	167	10587	6805	9795	-511	-1466	-76	O
ATOM	901	NE2	GLN	A	167	-3.072	-13.179	16.590	1.00	71.76	N	
ANISOU	901	NE2	GLN	A	167	10747	6649	9868	-202	-1613	-277	N
ATOM	902	C	GLN	A	167	-4.197	-7.751	13.965	1.00	32.47	C	
ANISOU	902	C	GLN	A	167	5111	2608	4619	-258	-877	-357	C
ATOM	903	O	GLN	A	167	-5.370	-7.482	14.235	1.00	28.01	O	
ANISOU	903	O	GLN	A	167	4516	2066	4060	-419	-850	-234	O
ATOM	904	N	SER	A	168	-3.591	-7.332	12.861	1.00	36.81	N	
ANISOU	904	N	SER	A	168	5604	3260	5122	-140	-826	-493	N
ATOM	905	CA	SER	A	168	-4.219	-6.387	11.943	1.00	37.26	C	
ANISOU	905	CA	SER	A	168	5557	3468	5130	-197	-729	-499	C
ATOM	906	CB	SER	A	168	-3.271	-6.057	10.792	1.00	38.58	C	
ANISOU	906	CB	SER	A	168	5673	3750	5236	-47	-684	-654	C
ATOM	907	OG	SER	A	168	-2.951	-7.228	10.061	1.00	44.08	O	
ANISOU	907	OG	SER	A	168	6489	4322	5935	51	-807	-789	O
ATOM	908	C	SER	A	168	-5.542	-6.894	11.388	1.00	39.56	C	
ANISOU	908	C	SER	A	168	5906	3682	5444	-338	-806	-459	C
ATOM	909	O	SER	A	168	-6.388	-6.103	10.976	1.00	42.58	O	
ANISOU	909	O	SER	A	168	6200	4175	5805	-434	-732	-404	O
ATOM	910	N	GLN	A	169	-5.720	-8.212	11.380	1.00	38.99	N	
ANISOU	910	N	GLN	A	169	5984	3412	5418	-352	-966	-483	N
ATOM	911	CA	GLN	A	169	-6.928	-8.808	10.822	1.00	48.86	C	
ANISOU	911	CA	GLN	A	169	7302	4570	6692	-494	-1068	-445	C
ATOM	912	CB	GLN	A	169	-6.658	-10.238	10.339	1.00	51.69	C	
ANISOU	912	CB	GLN	A	169	7848	4712	7080	-432	-1260	-559	C
ATOM	913	CG	GLN	A	169	-6.559	-11.279	11.448	1.00	61.21	C	
ANISOU	913	CG	GLN	A	169	9180	5717	8360	-464	-1394	-481	C
ATOM	914	CD	GLN	A	169	-5.265	-11.195	12.249	1.00	65.76	C	
ANISOU	914	CD	GLN	A	169	9742	6304	8940	-306	-1350	-518	C
ATOM	915	OE1	GLN	A	169	-4.394	-10.368	11.974	1.00	59.54	O	
ANISOU	915	OE1	GLN	A	169	8845	5676	8099	-170	-1221	-603	O
ATOM	916	NE2	GLN	A	169	-5.136	-12.065	13.246	1.00	71.43	N	
ANISOU	916	NE2	GLN	A	169	10570	6851	9721	-333	-1470	-443	N
ATOM	917	C	GLN	A	169	-8.094	-8.788	11.812	1.00	52.51	C	
ANISOU	917	C	GLN	A	169	7740	5012	7200	-692	-1071	-242	C
ATOM	918	O	GLN	A	169	-9.245	-9.004	11.431	1.00	56.47	O	
ANISOU	918	O	GLN	A	169	8247	5489	7719	-841	-1126	-170	O
ATOM	919	N	GLU	A	170	-7.791	-8.532	13.080	1.00	43.42	N	
ANISOU	919	N	GLU	A	170	6556	3882	6060	-696	-1013	-147	N
ATOM	920	CA	GLU	A	170	-8.826	-8.437	14.105	1.00	40.70	C	
ANISOU	920	CA	GLU	A	170	6172	3555	5738	-870	-991	47	C
ATOM	921	CB	GLU	A	170	-8.388	-9.167	15.373	1.00	45.96	C	
ANISOU	921	CB	GLU	A	170	6929	4101	6435	-877	-1063	122	C
ATOM	922	CG	GLU	A	170	-8.139	-10.656	15.165	1.00	56.03	C	
ANISOU	922	CG	GLU	A	170	8389	5135	7767	-866	-1275	73	C
ATOM	923	CD	GLU	A	170	-7.894	-11.398	16.466	1.00	61.60	C	
ANISOU	923	CD	GLU	A	170	9183	5713	8507	-909	-1363	183	C
ATOM	924	OE1	GLU	A	170	-7.659	-10.731	17.497	1.00	59.44	O	
ANISOU	924	OE1	GLU	A	170	8832	5549	8202	-910	-1249	266	O
ATOM	925	OE2	GLU	A	170	-7.935	-12.648	16.456	1.00	69.20	O	
ANISOU	925	OE2	GLU	A	170	10305	6461	9527	-944	-1557	188	O

ATOM	926	C	GLU	A	170	-9.153	-6.978	14.420	1.00	36.81	C	
ANISOU	926	C	GLU	A	170	5508	3277	5200	-888	-801	113	C
ATOM	927	O	GLU	A	170	-10.309	-6.618	14.637	1.00	34.05	O	
ANISOU	927	O	GLU	A	170	5080	3003	4853	-1025	-755	238	O
ATOM	928	N	ILE	A	171	-8.123	-6.142	14.451	1.00	27.93	N	
ANISOU	928	N	ILE	A	171	4326	2251	4036	-748	-698	29	N
ATOM	929	CA	ILE	A	171	-8.306	-4.706	14.629	1.00	25.16	C	
ANISOU	929	CA	ILE	A	171	3832	2086	3643	-746	-536	68	C
ATOM	930	CB	ILE	A	171	-7.897	-4.250	16.032	1.00	25.03	C	
ANISOU	930	CB	ILE	A	171	3795	2108	3607	-729	-463	143	C
ATOM	931	CG1	ILE	A	171	-8.773	-4.933	17.090	1.00	32.32	C	
ANISOU	931	CG1	ILE	A	171	4761	2968	4552	-867	-508	296	C
ATOM	932	CD1	ILE	A	171	-8.290	-4.723	18.500	1.00	31.75	C	
ANISOU	932	CD1	ILE	A	171	4701	2912	4450	-850	-463	364	C
ATOM	933	CG2	ILE	A	171	-7.967	-2.720	16.145	1.00	25.72	C	
ANISOU	933	CG2	ILE	A	171	3753	2370	3649	-704	-310	157	C
ATOM	934	C	ILE	A	171	-7.437	-4.017	13.597	1.00	29.77	C	
ANISOU	934	C	ILE	A	171	4366	2759	4189	-617	-483	-72	C
ATOM	935	O	ILE	A	171	-6.210	-4.102	13.657	1.00	31.15	O	
ANISOU	935	O	ILE	A	171	4566	2921	4349	-489	-489	-160	O
ATOM	936	N	THR	A	172	-8.074	-3.354	12.635	1.00	27.50	N	
ANISOU	936	N	THR	A	172	3999	2568	3883	-655	-437	-84	N
ATOM	937	CA	THR	A	172	-7.350	-2.840	11.481	1.00	22.49	C	
ANISOU	937	CA	THR	A	172	3325	2018	3203	-554	-405	-209	C
ATOM	938	CB	THR	A	172	-8.291	-2.582	10.279	1.00	24.11	C	
ANISOU	938	CB	THR	A	172	3486	2277	3396	-629	-412	-215	C
ATOM	939	OG1	THR	A	172	-9.162	-1.483	10.577	1.00	24.92	O	
ANISOU	939	OG1	THR	A	172	3475	2491	3503	-709	-317	-105	O
ATOM	940	CG2	THR	A	172	-9.119	-3.825	9.957	1.00	26.18	C	
ANISOU	940	CG2	THR	A	172	3852	2399	3698	-721	-548	-202	C
ATOM	941	C	THR	A	172	-6.608	-1.554	11.788	1.00	22.22	C	
ANISOU	941	C	THR	A	172	3191	2122	3130	-484	-285	-211	C
ATOM	942	O	THR	A	172	-6.923	-0.851	12.756	1.00	22.07	O	
ANISOU	942	O	THR	A	172	3124	2147	3116	-525	-214	-115	O
ATOM	943	N	PHE	A	173	-5.620	-1.248	10.951	1.00	22.02	N	
ANISOU	943	N	PHE	A	173	3136	2169	3060	-380	-266	-319	N
ATOM	944	CA	PHE	A	173	-4.907	0.023	11.035	1.00	21.35	C	
ANISOU	944	CA	PHE	A	173	2952	2223	2935	-331	-169	-316	C
ATOM	945	CB	PHE	A	173	-3.911	0.154	9.873	1.00	25.27	C	
ANISOU	945	CB	PHE	A	173	3413	2813	3375	-233	-163	-432	C
ATOM	946	CG	PHE	A	173	-2.822	1.165	10.115	1.00	31.22	C	
ANISOU	946	CG	PHE	A	173	4082	3687	4093	-171	-93	-430	C
ATOM	947	CD1	PHE	A	173	-1.551	0.759	10.490	1.00	34.62	C	
ANISOU	947	CD1	PHE	A	173	4524	4114	4517	-61	-110	-484	C
ATOM	948	CE1	PHE	A	173	-0.546	1.691	10.719	1.00	34.71	C	
ANISOU	948	CE1	PHE	A	173	4449	4240	4497	-20	-57	-468	C
ATOM	949	CZ	PHE	A	173	-0.810	3.042	10.577	1.00	32.84	C	
ANISOU	949	CZ	PHE	A	173	4131	4108	4237	-90	6	-401	C
ATOM	950	CE2	PHE	A	173	-2.073	3.458	10.198	1.00	32.48	C	
ANISOU	950	CE2	PHE	A	173	4081	4058	4201	-187	22	-355	C
ATOM	951	CD2	PHE	A	173	-3.072	2.522	9.972	1.00	33.48	C	
ANISOU	951	CD2	PHE	A	173	4278	4085	4358	-226	-23	-367	C
ATOM	952	C	PHE	A	173	-5.894	1.194	11.027	1.00	23.04	C	
ANISOU	952	C	PHE	A	173	3081	2525	3150	-423	-95	-225	C
ATOM	953	O	PHE	A	173	-5.768	2.132	11.822	1.00	20.38	O	
ANISOU	953	O	PHE	A	173	2697	2238	2809	-423	-29	-166	O
ATOM	954	N	ASP	A	174	-6.873	1.139	10.125	1.00	19.66	N	
ANISOU	954	N	ASP	A	174	2637	2108	2725	-494	-116	-218	N
ATOM	955	CA	ASP	A	174	-7.887	2.190	10.032	1.00	21.25	C	
ANISOU	955	CA	ASP	A	174	2751	2387	2934	-572	-58	-133	C
ATOM	956	CB	ASP	A	174	-8.852	1.923	8.876	1.00	19.83	C	
ANISOU	956	CB	ASP	A	174	2562	2215	2758	-647	-106	-136	C
ATOM	957	CG	ASP	A	174	-8.302	2.350	7.529	1.00	23.25	C	
ANISOU	957	CG	ASP	A	174	2962	2740	3131	-608	-106	-219	C
ATOM	958	OD1	ASP	A	174	-7.200	2.944	7.466	1.00	20.19	O	
ANISOU	958	OD1	ASP	A	174	2543	2428	2701	-530	-62	-263	O
ATOM	959	OD2	ASP	A	174	-8.997	2.096	6.526	1.00	28.20	O	
ANISOU	959	OD2	ASP	A	174	3593	3374	3749	-666	-155	-232	O
ATOM	960	C	ASP	A	174	-8.694	2.322	11.319	1.00	20.73	C	
ANISOU	960	C	ASP	A	174	2679	2291	2909	-629	-23	-22	C

ATOM	961	O	ASP	A	174	-9.000	3.431	11.752	1.00	16.99		O
ANISOU	961	O	ASP	A	174	2137	1888	2432	-634	50	34	O
ATOM	962	N	GLU	A	175	-9.068	1.191	11.914	1.00	18.30		N
ANISOU	962	N	GLU	A	175	2443	1877	2633	-673	-81	11	N
ATOM	963	CA	GLU	A	175	-9.871	1.222	13.126	1.00	21.03		C
ANISOU	963	CA	GLU	A	175	2776	2213	3001	-736	-45	126	C
ATOM	964	CB	GLU	A	175	-10.313	-0.193	13.533	1.00	24.58		C
ANISOU	964	CB	GLU	A	175	3312	2541	3485	-810	-137	170	C
ATOM	965	CG	GLU	A	175	-11.426	-0.739	12.661	1.00	25.45		C
ANISOU	965	CG	GLU	A	175	3413	2630	3628	-916	-205	203	C
ATOM	966	CD	GLU	A	175	-11.772	-2.187	12.975	1.00	28.44		C
ANISOU	966	CD	GLU	A	175	3894	2867	4043	-1000	-325	246	C
ATOM	967	OE1	GLU	A	175	-10.855	-2.970	13.287	1.00	23.41		O
ANISOU	967	OE1	GLU	A	175	3365	2123	3409	-940	-390	188	O
ATOM	968	OE2	GLU	A	175	-12.968	-2.533	12.909	1.00	39.54		O
ANISOU	968	OE2	GLU	A	175	5271	4271	5481	-1128	-362	346	O
ATOM	969	C	GLU	A	175	-9.106	1.897	14.255	1.00	22.00		C
ANISOU	969	C	GLU	A	175	2898	2364	3096	-667	24	135	C
ATOM	970	O	GLU	A	175	-9.692	2.578	15.093	1.00	17.69		O
ANISOU	970	O	GLU	A	175	2307	1871	2542	-689	96	211	O
ATOM	971	N	ILE	A	176	-7.790	1.726	14.258	1.00	18.97		N
ANISOU	971	N	ILE	A	176	2561	1952	2693	-580	0	55	N
ATOM	972	CA	ILE	A	176	-6.966	2.332	15.297	1.00	18.37		C
ANISOU	972	CA	ILE	A	176	2492	1897	2591	-521	46	64	C
ATOM	973	CB	ILE	A	176	-5.615	1.602	15.443	1.00	20.34		C
ANISOU	973	CB	ILE	A	176	2810	2083	2837	-439	-15	-6	C
ATOM	974	CG1	ILE	A	176	-5.857	0.200	16.016	1.00	22.80		C
ANISOU	974	CG1	ILE	A	176	3217	2265	3181	-475	-96	25	C
ATOM	975	CD1	ILE	A	176	-4.665	-0.714	15.906	1.00	29.50		C
ANISOU	975	CD1	ILE	A	176	4137	3031	4042	-384	-180	-57	C
ATOM	976	CG2	ILE	A	176	-4.667	2.375	16.354	1.00	24.73		C
ANISOU	976	CG2	ILE	A	176	3359	2675	3361	-382	25	1	C
ATOM	977	C	ILE	A	176	-6.792	3.840	15.072	1.00	20.71		C
ANISOU	977	C	ILE	A	176	2709	2301	2859	-490	120	57	C
ATOM	978	O	ILE	A	176	-6.774	4.609	16.029	1.00	15.76		O
ANISOU	978	O	ILE	A	176	2076	1700	2211	-478	171	98	O
ATOM	979	N	LEU	A	177	-6.705	4.267	13.815	1.00	15.15		N
ANISOU	979	N	LEU	A	177	1952	1654	2148	-482	116	9	N
ATOM	980	CA	LEU	A	177	-6.638	5.702	13.525	1.00	14.84		C
ANISOU	980	CA	LEU	A	177	1842	1706	2089	-470	167	18	C
ATOM	981	CB	LEU	A	177	-6.216	5.967	12.076	1.00	15.91		C
ANISOU	981	CB	LEU	A	177	1932	1909	2205	-460	146	-40	C
ATOM	982	CG	LEU	A	177	-4.789	5.618	11.650	1.00	16.54		C
ANISOU	982	CG	LEU	A	177	2022	2012	2251	-391	118	-118	C
ATOM	983	CD1	LEU	A	177	-4.533	6.171	10.250	1.00	19.59		C
ANISOU	983	CD1	LEU	A	177	2342	2504	2599	-395	117	-153	C
ATOM	984	CD2	LEU	A	177	-3.765	6.172	12.629	1.00	15.40		C
ANISOU	984	CD2	LEU	A	177	1883	1876	2091	-345	134	-105	C
ATOM	985	C	LEU	A	177	-7.976	6.385	13.813	1.00	17.43		C
ANISOU	985	C	LEU	A	177	2124	2062	2436	-519	216	93	C
ATOM	986	O	LEU	A	177	-8.016	7.547	14.214	1.00	17.78		O
ANISOU	986	O	LEU	A	177	2145	2149	2462	-484	254	110	O
ATOM	987	N	GLN	A	178	-9.074	5.669	13.593	1.00	17.71		N
ANISOU	987	N	GLN	A	178	2152	2076	2503	-583	201	131	N
ATOM	988	CA	GLN	A	178	-10.387	6.182	13.992	1.00	20.95		C
ANISOU	988	CA	GLN	A	178	2512	2533	2917	-595	240	200	C
ATOM	989	CB	GLN	A	178	-11.497	5.212	13.606	1.00	20.21		C
ANISOU	989	CB	GLN	A	178	2401	2420	2856	-680	203	249	C
ATOM	990	CG	GLN	A	178	-11.789	5.153	12.122	1.00	23.01		C
ANISOU	990	CG	GLN	A	178	2724	2794	3223	-713	152	220	C
ATOM	991	CD	GLN	A	178	-12.862	4.137	11.799	1.00	24.40		C
ANISOU	991	CD	GLN	A	178	2896	2939	3436	-813	98	274	C
ATOM	992	OE1	GLN	A	178	-12.700	2.951	12.066	1.00	24.79		O
ANISOU	992	OE1	GLN	A	178	3016	2897	3508	-869	45	277	O
ATOM	993	NE2	GLN	A	178	-13.968	4.601	11.224	1.00	29.11		N
ANISOU	993	NE2	GLN	A	178	3415	3601	4045	-842	96	324	N
ATOM	994	C	GLN	A	178	-10.434	6.417	15.495	1.00	21.85		C
ANISOU	994	C	GLN	A	178	2649	2642	3011	-570	295	242	C
ATOM	995	O	GLN	A	178	-11.001	7.405	15.962	1.00	23.65		O
ANISOU	995	O	GLN	A	178	2837	2922	3227	-535	348	268	O

ATOM	996	N	ALA	A	179	-9.853	5.492	16.251	1.00	19.45		N
ANISOU	996	N	ALA	A	179	2417	2269	2704	-591	279	250	N
ATOM	997	CA	ALA	A	179	-9.789	5.632	17.701	1.00	21.66		C
ANISOU	997	CA	ALA	A	179	2734	2545	2949	-576	328	293	C
ATOM	998	CB	ALA	A	179	-9.317	4.334	18.357	1.00	21.32		C
ANISOU	998	CB	ALA	A	179	2777	2418	2904	-603	273	309	C
ATOM	999	C	ALA	A	179	-8.907	6.813	18.114	1.00	19.56		C
ANISOU	999	C	ALA	A	179	2484	2301	2646	-497	358	250	C
ATOM	1000	O	ALA	A	179	-9.279	7.581	18.998	1.00	21.13		O
ANISOU	1000	O	ALA	A	179	2680	2536	2810	-469	418	277	O
ATOM	1001	N	TYR	A	180	-7.743	6.966	17.482	1.00	16.50		N
ANISOU	1001	N	TYR	A	180	2113	1897	2259	-461	312	184	N
ATOM	1002	CA	TYR	A	180	-6.935	8.164	17.711	1.00	15.92		C
ANISOU	1002	CA	TYR	A	180	2045	1848	2155	-407	322	155	C
ATOM	1003	CB	TYR	A	180	-5.740	8.224	16.758	1.00	15.67		C
ANISOU	1003	CB	TYR	A	180	2000	1826	2127	-386	269	98	C
ATOM	1004	CG	TYR	A	180	-4.453	7.608	17.246	1.00	16.30		C
ANISOU	1004	CG	TYR	A	180	2133	1869	2191	-351	226	70	C
ATOM	1005	CD1	TYR	A	180	-3.631	8.284	18.142	1.00	16.67		C
ANISOU	1005	CD1	TYR	A	180	2216	1913	2205	-321	221	75	C
ATOM	1006	CE1	TYR	A	180	-2.441	7.737	18.567	1.00	17.35		C
ANISOU	1006	CE1	TYR	A	180	2338	1972	2281	-289	174	56	C
ATOM	1007	CZ	TYR	A	180	-2.046	6.501	18.090	1.00	17.90		C
ANISOU	1007	CZ	TYR	A	180	2411	2014	2376	-272	134	23	C
ATOM	1008	OH	TYR	A	180	-0.857	5.957	18.515	1.00	20.26		O
ANISOU	1008	OH	TYR	A	180	2738	2288	2672	-225	83	5	O
ATOM	1009	CE2	TYR	A	180	-2.836	5.809	17.192	1.00	17.31		C
ANISOU	1009	CE2	TYR	A	180	2316	1931	2330	-296	135	6	C
ATOM	1010	CD2	TYR	A	180	-4.030	6.372	16.767	1.00	16.93		C
ANISOU	1010	CD2	TYR	A	180	2228	1915	2290	-343	180	34	C
ATOM	1011	C	TYR	A	180	-7.753	9.432	17.498	1.00	17.59		C
ANISOU	1011	C	TYR	A	180	2203	2111	2370	-395	365	171	C
ATOM	1012	O	TYR	A	180	-7.712	10.354	18.314	1.00	15.98		O
ANISOU	1012	O	TYR	A	180	2026	1911	2136	-356	394	176	O
ATOM	1013	N	CYS	A	181	-8.471	9.502	16.381	1.00	14.46		N
ANISOU	1013	N	CYS	A	181	1743	1749	2003	-409	349	167	N
ATOM	1014	CA	CYS	A	181	-9.199	10.730	16.057	1.00	20.62		C
ANISOU	1014	CA	CYS	A	181	2473	2568	2794	-384	367	179	C
ATOM	1015	CB	CYS	A	181	-9.717	10.706	14.613	1.00	21.66		C
ANISOU	1015	CB	CYS	A	181	2545	2732	2951	-408	326	174	C
ATOM	1016	SG	CYS	A	181	-8.400	10.835	13.394	1.00	20.96		S
ANISOU	1016	SG	CYS	A	181	2462	2661	2841	-412	262	122	S
ATOM	1017	C	CYS	A	181	-10.342	10.971	17.024	1.00	21.57		C
ANISOU	1017	C	CYS	A	181	2574	2708	2912	-372	441	228	C
ATOM	1018	O	CYS	A	181	-10.584	12.105	17.442	1.00	21.22		O
ANISOU	1018	O	CYS	A	181	2523	2679	2860	-331	483	234	O
ATOM	1019	N	PHE	A	182	-11.037	9.898	17.386	1.00	18.83		N
ANISOU	1019	N	PHE	A	182	2216	2368	2570	-413	461	269	N
ATOM	1020	CA	PHE	A	182	-12.152	9.995	18.322	1.00	21.46		C
ANISOU	1020	CA	PHE	A	182	2513	2752	2889	-409	542	329	C
ATOM	1021	CB	PHE	A	182	-12.837	8.634	18.469	1.00	22.27		C
ANISOU	1021	CB	PHE	A	182	2597	2862	3003	-486	535	390	C
ATOM	1022	CG	PHE	A	182	-14.058	8.664	19.346	1.00	29.33		C
ANISOU	1022	CG	PHE	A	182	3427	3840	3876	-494	621	470	C
ATOM	1023	CD1	PHE	A	182	-15.318	8.843	18.794	1.00	35.45		C
ANISOU	1023	CD1	PHE	A	182	4089	4687	4691	-511	639	519	C
ATOM	1024	CE1	PHE	A	182	-16.444	8.876	19.597	1.00	38.49		C
ANISOU	1024	CE1	PHE	A	182	4394	5178	5054	-513	729	600	C
ATOM	1025	CZ	PHE	A	182	-16.317	8.733	20.967	1.00	41.09		C
ANISOU	1025	CZ	PHE	A	182	4764	5544	5306	-499	806	626	C
ATOM	1026	CE2	PHE	A	182	-15.065	8.557	21.529	1.00	36.89		C
ANISOU	1026	CE2	PHE	A	182	4360	4927	4728	-487	781	576	C
ATOM	1027	CD2	PHE	A	182	-13.944	8.526	20.717	1.00	31.41		C
ANISOU	1027	CD2	PHE	A	182	3737	4126	4071	-484	688	500	C
ATOM	1028	C	PHE	A	182	-11.672	10.497	19.682	1.00	23.81		C
ANISOU	1028	C	PHE	A	182	2881	3046	3121	-355	598	321	C
ATOM	1029	O	PHE	A	182	-12.254	11.413	20.266	1.00	22.99		O
ANISOU	1029	O	PHE	A	182	2761	2986	2989	-287	657	320	O
ATOM	1030	N	ILE	A	183	-10.609	9.887	20.188	1.00	16.96		N
ANISOU	1030	N	ILE	A	183	2101	2122	2223	-367	560	301	N

ATOM	1031	CA	ILE	A	183	-10.021	10.316	21.453	1.00	18.27	C	
ANISOU	1031	CA	ILE	A	183	2352	2273	2317	-313	581	282	C
ATOM	1032	CB	ILE	A	183	-8.848	9.412	21.842	1.00	20.73	C	
ANISOU	1032	CB	ILE	A	183	2746	2518	2611	-341	521	274	C
ATOM	1033	CG1	ILE	A	183	-9.361	8.007	22.163	1.00	20.45	C	
ANISOU	1033	CG1	ILE	A	183	2710	2478	2581	-414	523	339	C
ATOM	1034	CD1	ILE	A	183	-8.264	6.986	22.254	1.00	23.32	C	
ANISOU	1034	CD1	ILE	A	183	3145	2761	2953	-438	443	328	C
ATOM	1035	CG2	ILE	A	183	-8.112	9.979	23.027	1.00	19.96	C	
ANISOU	1035	CG2	ILE	A	183	2741	2401	2440	-291	523	251	C
ATOM	1036	C	ILE	A	183	-9.548	11.770	21.409	1.00	20.83	C	
ANISOU	1036	C	ILE	A	183	2705	2583	2628	-239	568	225	C
ATOM	1037	O	ILE	A	183	-9.899	12.572	22.276	1.00	22.60	O	
ANISOU	1037	O	ILE	A	183	2961	2826	2800	-172	614	212	O
ATOM	1038	N	LEU	A	184	-8.763	12.114	20.391	1.00	20.68	N	
ANISOU	1038	N	LEU	A	184	2676	2531	2649	-251	499	192	N
ATOM	1039	CA	LEU	A	184	-8.228	13.473	20.283	1.00	21.14	C	
ANISOU	1039	CA	LEU	A	184	2766	2565	2700	-204	462	154	C
ATOM	1040	CB	LEU	A	184	-7.294	13.604	19.072	1.00	18.25	C	
ANISOU	1040	CB	LEU	A	184	2374	2187	2374	-245	386	139	C
ATOM	1041	CG	LEU	A	184	-5.942	12.926	19.314	1.00	19.85	C	
ANISOU	1041	CG	LEU	A	184	2623	2363	2555	-266	338	125	C
ATOM	1042	CD1	LEU	A	184	-5.164	12.751	18.015	1.00	19.07	C	
ANISOU	1042	CD1	LEU	A	184	2469	2290	2489	-304	284	114	C
ATOM	1043	CD2	LEU	A	184	-5.120	13.684	20.356	1.00	23.14	C	
ANISOU	1043	CD2	LEU	A	184	3131	2740	2921	-233	305	110	C
ATOM	1044	C	LEU	A	184	-9.314	14.544	20.244	1.00	23.79	C	
ANISOU	1044	C	LEU	A	184	3066	2925	3047	-145	502	152	C
ATOM	1045	O	LEU	A	184	-9.160	15.604	20.848	1.00	23.07	O	
ANISOU	1045	O	LEU	A	184	3040	2803	2922	-78	492	119	O
ATOM	1046	N	GLU	A	185	-10.411	14.268	19.545	1.00	23.67	N	
ANISOU	1046	N	GLU	A	185	2953	2962	3080	-164	538	186	N
ATOM	1047	CA	GLU	A	185	-11.534	15.202	19.511	1.00	29.70	C	
ANISOU	1047	CA	GLU	A	185	3664	3759	3861	-96	578	190	C
ATOM	1048	CB	GLU	A	185	-12.670	14.659	18.646	1.00	35.19	C	
ANISOU	1048	CB	GLU	A	185	4236	4520	4617	-143	605	244	C
ATOM	1049	CG	GLU	A	185	-12.405	14.745	17.164	1.00	44.54	C	
ANISOU	1049	CG	GLU	A	185	5375	5688	5861	-204	530	248	C
ATOM	1050	CD	GLU	A	185	-12.353	16.176	16.668	1.00	46.00	C	
ANISOU	1050	CD	GLU	A	185	5563	5842	6072	-153	480	228	C
ATOM	1051	OE1	GLU	A	185	-13.187	16.997	17.112	1.00	47.15	O	
ANISOU	1051	OE1	GLU	A	185	5692	6000	6224	-65	515	225	O
ATOM	1052	OE2	GLU	A	185	-11.481	16.473	15.827	1.00	40.23	O	
ANISOU	1052	OE2	GLU	A	185	4852	5080	5354	-198	403	219	O
ATOM	1053	C	GLU	A	185	-12.059	15.486	20.912	1.00	29.44	C	
ANISOU	1053	C	GLU	A	185	3672	3754	3758	-10	656	176	C
ATOM	1054	O	GLU	A	185	-12.366	16.629	21.245	1.00	30.09	O	
ANISOU	1054	O	GLU	A	185	3782	3825	3826	87	664	138	O
ATOM	1055	N	LYS	A	186	-12.170	14.440	21.723	1.00	27.83	N	
ANISOU	1055	N	LYS	A	186	3513	3412	3650	142	407	-94	N
ATOM	1056	CA	LYS	A	186	-12.619	14.586	23.104	1.00	26.63	C	
ANISOU	1056	CA	LYS	A	186	3394	3256	3468	172	446	-89	C
ATOM	1057	CB	LYS	A	186	-12.926	13.219	23.729	1.00	32.97	C	
ANISOU	1057	CB	LYS	A	186	4183	4061	4282	151	498	-71	C
ATOM	1058	CG	LYS	A	186	-14.172	12.540	23.185	1.00	45.42	C	
ANISOU	1058	CG	LYS	A	186	5688	5664	5905	133	533	-72	C
ATOM	1059	CD	LYS	A	186	-15.442	13.201	23.701	1.00	57.15	C	
ANISOU	1059	CD	LYS	A	186	7153	7177	7384	170	573	-76	C
ATOM	1060	CE	LYS	A	186	-16.685	12.403	23.314	1.00	60.38	C	
ANISOU	1060	CE	LYS	A	186	7484	7611	7846	147	613	-71	C
ATOM	1061	NZ	LYS	A	186	-16.980	12.474	21.854	1.00	56.93	N	
ANISOU	1061	NZ	LYS	A	186	6996	7181	7455	130	573	-94	N
ATOM	1062	C	LYS	A	186	-11.583	15.313	23.951	1.00	24.94	C	
ANISOU	1062	C	LYS	A	186	3254	3013	3210	194	414	-85	C
ATOM	1063	O	LYS	A	186	-11.920	16.232	24.694	1.00	21.56	O	
ANISOU	1063	O	LYS	A	186	2861	2581	2751	237	414	-93	O
ATOM	1064	N	LEU	A	187	-10.324	14.897	23.848	1.00	21.15	N	
ANISOU	1064	N	LEU	A	187	2795	2513	2727	168	384	-75	N
ATOM	1065	CA	LEU	A	187	-9.258	15.497	24.650	1.00	21.37	C	
ANISOU	1065	CA	LEU	A	187	2890	2509	2720	183	346	-70	C

ATOM	1066	CB	LEU	A	187	-7.913	14.814	24.376	1.00	28.30	C	
ANISOU	1066	CB	LEU	A	187	3774	3373	3607	149	318	-58	C
ATOM	1067	CG	LEU	A	187	-7.727	13.333	24.716	1.00	32.72	C	
ANISOU	1067	CG	LEU	A	187	4328	3932	4172	127	351	-47	C
ATOM	1068	CD1	LEU	A	187	-6.392	12.852	24.166	1.00	31.21	C	
ANISOU	1068	CD1	LEU	A	187	4134	3733	3991	100	313	-41	C
ATOM	1069	CD2	LEU	A	187	-7.805	13.089	26.212	1.00	29.98	C	
ANISOU	1069	CD2	LEU	A	187	4036	3567	3787	152	379	-40	C
ATOM	1070	C	LEU	A	187	-9.121	16.986	24.356	1.00	24.24	C	
ANISOU	1070	C	LEU	A	187	3273	2861	3075	205	295	-80	C
ATOM	1071	O	LEU	A	187	-8.787	17.773	25.241	1.00	20.14	O	
ANISOU	1071	O	LEU	A	187	2813	2315	2524	236	269	-84	O
ATOM	1072	N	LEU	A	188	-9.376	17.369	23.110	1.00	17.28	N	
ANISOU	1072	N	LEU	A	188	2348	1996	2222	190	276	-84	N
ATOM	1073	CA	LEU	A	188	-9.158	18.757	22.694	1.00	18.73	C	
ANISOU	1073	CA	LEU	A	188	2551	2164	2402	203	221	-88	C
ATOM	1074	CB	LEU	A	188	-8.930	18.841	21.188	1.00	21.14	C	
ANISOU	1074	CB	LEU	A	188	2809	2486	2738	171	197	-80	C
ATOM	1075	CG	LEU	A	188	-7.546	18.352	20.750	1.00	21.20	C	
ANISOU	1075	CG	LEU	A	188	2812	2490	2753	133	172	-58	C
ATOM	1076	CD1	LEU	A	188	-7.493	18.145	19.237	1.00	21.99	C	
ANISOU	1076	CD1	LEU	A	188	2858	2620	2876	108	166	-52	C
ATOM	1077	CD2	LEU	A	188	-6.487	19.349	21.197	1.00	20.22	C	
ANISOU	1077	CD2	LEU	A	188	2737	2331	2616	132	115	-43	C
ATOM	1078	C	LEU	A	188	-10.273	19.696	23.141	1.00	22.26	C	
ANISOU	1078	C	LEU	A	188	3015	2611	2832	252	227	-108	C
ATOM	1079	O	LEU	A	188	-10.251	20.890	22.836	1.00	23.56	O	
ANISOU	1079	O	LEU	A	188	3199	2759	2994	269	179	-114	O
ATOM	1080	N	GLU	A	189	-11.242	19.153	23.872	1.00	22.63	N	
ANISOU	1080	N	GLU	A	189	3052	2678	2868	277	286	-117	N
ATOM	1081	CA	GLU	A	189	-12.234	19.980	24.547	1.00	20.60	C	
ANISOU	1081	CA	GLU	A	189	2816	2427	2585	335	298	-137	C
ATOM	1082	CB	GLU	A	189	-13.391	19.120	25.072	1.00	26.97	C	
ANISOU	1082	CB	GLU	A	189	3584	3271	3391	349	378	-138	C
ATOM	1083	CG	GLU	A	189	-14.343	18.621	24.006	1.00	35.24	C	
ANISOU	1083	CG	GLU	A	189	4551	4354	4486	325	406	-141	C
ATOM	1084	CD	GLU	A	189	-15.349	17.620	24.549	1.00	43.75	C	
ANISOU	1084	CD	GLU	A	189	5585	5465	5572	326	482	-133	C
ATOM	1085	OE1	GLU	A	189	-15.571	17.605	25.780	1.00	39.59	O	
ANISOU	1085	OE1	GLU	A	189	5092	4943	5007	361	520	-127	O
ATOM	1086	OE2	GLU	A	189	-15.912	16.845	23.745	1.00	47.85	O	
ANISOU	1086	OE2	GLU	A	189	6038	6006	6138	291	504	-129	O
ATOM	1087	C	GLU	A	189	-11.576	20.706	25.722	1.00	22.18	C	
ANISOU	1087	C	GLU	A	189	3099	2589	2740	373	263	-141	C
ATOM	1088	O	GLU	A	189	-12.055	21.746	26.171	1.00	24.57	O	
ANISOU	1088	O	GLU	A	189	3437	2882	3016	426	242	-162	O
ATOM	1089	N	ASN	A	190	-10.480	20.143	26.216	1.00	18.82	N	
ANISOU	1089	N	ASN	A	190	2706	2141	2305	349	252	-125	N
ATOM	1090	CA	ASN	A	190	-9.779	20.687	27.372	1.00	19.72	C	
ANISOU	1090	CA	ASN	A	190	2900	2216	2377	383	215	-130	C
ATOM	1091	CB	ASN	A	190	-9.018	19.570	28.094	1.00	19.41	C	
ANISOU	1091	CB	ASN	A	190	2880	2169	2325	363	238	-113	C
ATOM	1092	CG	ASN	A	190	-8.184	20.079	29.253	1.00	24.48	C	
ANISOU	1092	CG	ASN	A	190	3608	2768	2926	397	192	-119	C
ATOM	1093	OD1	ASN	A	190	-7.077	20.577	29.064	1.00	21.23	O	
ANISOU	1093	OD1	ASN	A	190	3221	2319	2527	376	121	-114	O
ATOM	1094	ND2	ASN	A	190	-8.701	19.926	30.469	1.00	27.03	N	
ANISOU	1094	ND2	ASN	A	190	3975	3095	3199	450	230	-127	N
ATOM	1095	C	ASN	A	190	-8.845	21.830	26.971	1.00	23.96	C	
ANISOU	1095	C	ASN	A	190	3471	2709	2924	374	125	-130	C
ATOM	1096	O	ASN	A	190	-8.045	21.695	26.047	1.00	20.92	O	
ANISOU	1096	O	ASN	A	190	3056	2320	2574	321	95	-111	O
ATOM	1097	N	GLU	A	191	-8.946	22.950	27.677	1.00	22.28	N	
ANISOU	1097	N	GLU	A	191	3321	2464	2679	427	80	-150	N
ATOM	1098	CA	GLU	A	191	-8.235	24.161	27.282	1.00	22.52	C	
ANISOU	1098	CA	GLU	A	191	3384	2449	2725	420	-11	-149	C
ATOM	1099	CB	GLU	A	191	-8.852	25.393	27.965	1.00	23.77	C	
ANISOU	1099	CB	GLU	A	191	3605	2580	2848	493	-51	-181	C
ATOM	1100	CG	GLU	A	191	-10.211	25.750	27.361	1.00	27.27	C	
ANISOU	1100	CG	GLU	A	191	4007	3060	3296	522	-17	-199	C

ATOM	1101	CD	GLU	A	191	-10.798	27.053	27.873	1.00	30.84	C	
ANISOU	1101	CD	GLU	A	191	4518	3485	3716	598	-66	-233	C
ATOM	1102	OE1	GLU	A	191	-10.160	27.717	28.712	1.00	26.00	O	
ANISOU	1102	OE1	GLU	A	191	3983	2820	3076	630	-130	-244	O
ATOM	1103	OE2	GLU	A	191	-11.906	27.408	27.422	1.00	30.23	O	
ANISOU	1103	OE2	GLU	A	191	4409	3436	3641	629	-44	-251	O
ATOM	1104	C	GLU	A	191	-6.720	24.092	27.469	1.00	19.78	C	
ANISOU	1104	C	GLU	A	191	3066	2061	2390	380	-68	-128	C
ATOM	1105	O	GLU	A	191	-5.969	24.694	26.699	1.00	25.43	O	
ANISOU	1105	O	GLU	A	191	3771	2752	3139	340	-129	-109	O
ATOM	1106	N	GLU	A	192	-6.258	23.358	28.478	1.00	16.29	N	
ANISOU	1106	N	GLU	A	192	2657	1613	1922	390	-49	-128	N
ATOM	1107	CA	GLU	A	192	-4.821	23.209	28.643	1.00	15.00	C	
ANISOU	1107	CA	GLU	A	192	2513	1415	1773	353	-102	-109	C
ATOM	1108	CB	GLU	A	192	-4.465	22.611	30.007	1.00	19.41	C	
ANISOU	1108	CB	GLU	A	192	3129	1956	2289	385	-91	-118	C
ATOM	1109	CG	GLU	A	192	-4.228	23.619	31.094	1.00	32.90	C	
ANISOU	1109	CG	GLU	A	192	4928	3611	3961	442	-160	-141	C
ATOM	1110	CD	GLU	A	192	-3.729	22.960	32.365	1.00	36.44	C	
ANISOU	1110	CD	GLU	A	192	5435	4044	4368	471	-153	-147	C
ATOM	1111	OE1	GLU	A	192	-4.485	22.159	32.949	1.00	34.02	O	
ANISOU	1111	OE1	GLU	A	192	5130	3773	4022	502	-74	-152	O
ATOM	1112	OE2	GLU	A	192	-2.580	23.235	32.769	1.00	34.70	O	
ANISOU	1112	OE2	GLU	A	192	5255	3775	4155	461	-228	-145	O
ATOM	1113	C	GLU	A	192	-4.248	22.344	27.527	1.00	17.79	C	
ANISOU	1113	C	GLU	A	192	2791	1798	2170	283	-79	-79	C
ATOM	1114	O	GLU	A	192	-3.185	22.638	26.995	1.00	16.58	O	
ANISOU	1114	O	GLU	A	192	2625	1626	2047	241	-133	-57	O
ATOM	1115	N	THR	A	193	-4.955	21.271	27.182	1.00	20.59	N	
ANISOU	1115	N	THR	A	193	3096	2202	2527	274	0	-79	N
ATOM	1116	CA	THR	A	193	-4.510	20.383	26.107	1.00	22.19	C	
ANISOU	1116	CA	THR	A	193	3231	2436	2766	218	23	-57	C
ATOM	1117	CB	THR	A	193	-5.366	19.108	26.051	1.00	19.64	C	
ANISOU	1117	CB	THR	A	193	2867	2154	2440	217	105	-62	C
ATOM	1118	OG1	THR	A	193	-5.269	18.436	27.312	1.00	22.06	O	
ANISOU	1118	OG1	THR	A	193	3219	2449	2713	240	131	-66	O
ATOM	1119	CG2	THR	A	193	-4.882	18.179	24.951	1.00	15.60	C	
ANISOU	1119	CG2	THR	A	193	2293	1671	1962	167	120	-45	C
ATOM	1120	C	THR	A	193	-4.493	21.103	24.752	1.00	20.46	C	
ANISOU	1120	C	THR	A	193	2966	2227	2580	189	-7	-44	C
ATOM	1121	O	THR	A	193	-3.613	20.858	23.918	1.00	15.83	O	
ANISOU	1121	O	THR	A	193	2343	1652	2021	144	-24	-20	O
ATOM	1122	N	GLN	A	194	-5.440	22.015	24.548	1.00	17.30	N	
ANISOU	1122	N	GLN	A	194	2572	1825	2175	217	-14	-59	N
ATOM	1123	CA	GLN	A	194	-5.453	22.852	23.343	1.00	19.45	C	
ANISOU	1123	CA	GLN	A	194	2815	2100	2474	195	-50	-46	C
ATOM	1124	CB	GLN	A	194	-6.603	23.866	23.386	1.00	18.55	C	
ANISOU	1124	CB	GLN	A	194	2722	1978	2349	240	-61	-70	C
ATOM	1125	CG	GLN	A	194	-7.968	23.280	23.130	1.00	21.16	C	
ANISOU	1125	CG	GLN	A	194	3011	2354	2676	262	10	-91	C
ATOM	1126	CD	GLN	A	194	-9.075	24.276	23.402	1.00	24.15	C	
ANISOU	1126	CD	GLN	A	194	3415	2725	3037	318	-1	-119	C
ATOM	1127	OE1	GLN	A	194	-8.820	25.466	23.576	1.00	23.83	O	
ANISOU	1127	OE1	GLN	A	194	3423	2642	2990	338	-68	-122	O
ATOM	1128	NE2	GLN	A	194	-10.313	23.792	23.450	1.00	22.08	N	
ANISOU	1128	NE2	GLN	A	194	3118	2502	2769	346	62	-139	N
ATOM	1129	C	GLN	A	194	-4.137	23.600	23.141	1.00	18.82	C	
ANISOU	1129	C	GLN	A	194	2754	1984	2414	161	-126	-17	C
ATOM	1130	O	GLN	A	194	-3.792	23.977	22.016	1.00	18.90	O	
ANISOU	1130	O	GLN	A	194	2727	2005	2450	125	-149	10	O
ATOM	1131	N	ILE	A	195	-3.406	23.832	24.227	1.00	15.76	N	
ANISOU	1131	N	ILE	A	195	2421	1553	2013	173	-167	-19	N
ATOM	1132	CA	ILE	A	195	-2.116	24.506	24.134	1.00	14.24	C	
ANISOU	1132	CA	ILE	A	195	2242	1323	1846	137	-244	11	C
ATOM	1133	CB	ILE	A	195	-1.952	25.583	25.232	1.00	14.86	C	
ANISOU	1133	CB	ILE	A	195	2403	1334	1909	173	-318	-6	C
ATOM	1134	CG1	ILE	A	195	-3.214	26.455	25.333	1.00	15.95	C	
ANISOU	1134	CG1	ILE	A	195	2574	1461	2026	226	-322	-36	C
ATOM	1135	CD1	ILE	A	195	-3.573	27.208	24.045	1.00	15.21	C	
ANISOU	1135	CD1	ILE	A	195	2444	1377	1960	202	-340	-17	C

ATOM	1136	CG2	ILE	A	195	-0.693	26.408	24.980	1.00	16.91		C
ANISOU	1136	CG2	ILE	A	195	2668	1551	2207	128	-406	30	C
ATOM	1137	C	ILE	A	195	-0.941	23.525	24.212	1.00	14.81		C
ANISOU	1137	C	ILE	A	195	2289	1409	1931	101	-235	31	C
ATOM	1138	O	ILE	A	195	-0.033	23.555	23.372	1.00	18.05		O
ANISOU	1138	O	ILE	A	195	2655	1832	2373	53	-256	67	O
ATOM	1139	N	ASN	A	196	-0.956	22.656	25.218	1.00	14.72		N
ANISOU	1139	N	ASN	A	196	2304	1396	1892	126	-203	10	N
ATOM	1140	CA	ASN	A	196	0.156	21.738	25.452	1.00	15.65		C
ANISOU	1140	CA	ASN	A	196	2408	1520	2018	100	-202	24	C
ATOM	1141	CB	ASN	A	196	0.081	21.146	26.865	1.00	15.18		C
ANISOU	1141	CB	ASN	A	196	2408	1439	1921	141	-187	-2	C
ATOM	1142	CG	ASN	A	196	-0.004	22.212	27.941	1.00	17.94		C
ANISOU	1142	CG	ASN	A	196	2838	1732	2247	184	-246	-21	C
ATOM	1143	OD1	ASN	A	196	0.406	23.356	27.738	1.00	18.28		O
ANISOU	1143	OD1	ASN	A	196	2896	1739	2312	173	-319	-11	O
ATOM	1144	ND2	ASN	A	196	-0.552	21.842	29.092	1.00	15.82		N
ANISOU	1144	ND2	ASN	A	196	2624	1455	1932	236	-217	-49	N
ATOM	1145	C	ASN	A	196	0.231	20.605	24.418	1.00	17.16		C
ANISOU	1145	C	ASN	A	196	2526	1770	2225	68	-144	38	C
ATOM	1146	O	ASN	A	196	1.314	20.129	24.092	1.00	15.55		O
ANISOU	1146	O	ASN	A	196	2289	1579	2040	37	-156	59	O
ATOM	1147	N	GLY	A	197	-0.919	20.176	23.910	1.00	17.58		N
ANISOU	1147	N	GLY	A	197	2551	1859	2270	80	-84	23	N
ATOM	1148	CA	GLY	A	197	-0.950	19.127	22.904	1.00	15.20		C
ANISOU	1148	CA	GLY	A	197	2186	1608	1983	57	-36	31	C
ATOM	1149	C	GLY	A	197	-0.744	17.740	23.490	1.00	16.07		C
ANISOU	1149	C	GLY	A	197	2298	1727	2081	61	3	20	C
ATOM	1150	O	GLY	A	197	-1.049	17.491	24.662	1.00	15.55		O
ANISOU	1150	O	GLY	A	197	2281	1637	1989	89	16	4	O
ATOM	1151	N	PHE	A	198	-0.228	16.826	22.673	1.00	16.13		N
ANISOU	1151	N	PHE	A	198	2255	1770	2103	37	21	30	N
ATOM	1152	CA	PHE	A	198	-0.037	15.436	23.103	1.00	12.33		C
ANISOU	1152	CA	PHE	A	198	1775	1297	1614	40	54	20	C
ATOM	1153	CB	PHE	A	198	-1.211	14.566	22.658	1.00	13.04		C
ANISOU	1153	CB	PHE	A	198	1836	1412	1704	46	112	4	C
ATOM	1154	CG	PHE	A	198	-1.289	14.374	21.166	1.00	13.03		C
ANISOU	1154	CG	PHE	A	198	1773	1454	1723	29	120	8	C
ATOM	1155	CD1	PHE	A	198	-0.845	13.191	20.577	1.00	16.08		C
ANISOU	1155	CD1	PHE	A	198	2127	1867	2117	20	134	6	C
ATOM	1156	CE1	PHE	A	198	-0.917	13.008	19.199	1.00	16.90		C
ANISOU	1156	CE1	PHE	A	198	2178	2011	2233	13	139	7	C
ATOM	1157	CZ	PHE	A	198	-1.435	14.015	18.391	1.00	13.18		C
ANISOU	1157	CZ	PHE	A	198	1687	1555	1767	10	132	14	C
ATOM	1158	CE2	PHE	A	198	-1.885	15.197	18.968	1.00	13.21		C
ANISOU	1158	CE2	PHE	A	198	1723	1530	1766	16	117	18	C
ATOM	1159	CD2	PHE	A	198	-1.806	15.370	20.354	1.00	13.14		C
ANISOU	1159	CD2	PHE	A	198	1767	1481	1746	26	110	13	C
ATOM	1160	C	PHE	A	198	1.245	14.839	22.548	1.00	15.08		C
ANISOU	1160	C	PHE	A	198	2088	1666	1977	18	36	35	C
ATOM	1161	O	PHE	A	198	1.877	15.398	21.652	1.00	15.94		O
ANISOU	1161	O	PHE	A	198	2159	1796	2102	-2	10	57	O
ATOM	1162	N	CYS	A	199	1.621	13.689	23.095	1.00	12.50		N
ANISOU	1162	N	CYS	A	199	1773	1335	1641	25	50	26	N
ATOM	1163	CA	CYS	A	199	2.697	12.900	22.543	1.00	12.27		C
ANISOU	1163	CA	CYS	A	199	1708	1333	1623	13	41	34	C
ATOM	1164	CB	CYS	A	199	3.971	13.024	23.371	1.00	12.50		C
ANISOU	1164	CB	CYS	A	199	1763	1336	1652	12	-5	43	C
ATOM	1165	SG	CYS	A	199	3.852	12.320	25.044	1.00	16.17		S
ANISOU	1165	SG	CYS	A	199	2305	1750	2088	39	-1	23	S
ATOM	1166	C	CYS	A	199	2.239	11.447	22.433	1.00	13.37		C
ANISOU	1166	C	CYS	A	199	1839	1484	1757	21	82	14	C
ATOM	1167	O	CYS	A	199	1.170	11.082	22.934	1.00	14.38		O
ANISOU	1167	O	CYS	A	199	1991	1595	1875	31	116	1	O
ATOM	1168	N	ILE	A	200	3.040	10.641	21.748	1.00	13.44		N
ANISOU	1168	N	ILE	A	200	1811	1523	1773	18	77	15	N
ATOM	1169	CA	ILE	A	200	2.734	9.232	21.541	1.00	12.21		C
ANISOU	1169	CA	ILE	A	200	1648	1375	1616	27	104	-5	C
ATOM	1170	CB	ILE	A	200	2.422	8.941	20.044	1.00	11.98		C
ANISOU	1170	CB	ILE	A	200	1561	1393	1597	27	118	-11	C

ATOM	1171	CG1	ILE	A	200	1.224	9.770	19.556	1.00	15.30		C
ANISOU	1171	CG1	ILE	A	200	1970	1820	2024	20	137	-10	C
ATOM	1172	CD1	ILE	A	200	0.850	9.523	18.064	1.00	15.41		C
ANISOU	1172	CD1	ILE	A	200	1932	1879	2045	24	147	-18	C
ATOM	1173	CG2	ILE	A	200	2.196	7.444	19.832	1.00	11.42		C
ANISOU	1173	CG2	ILE	A	200	1487	1324	1528	38	133	-34	C
ATOM	1174	C	ILE	A	200	3.945	8.400	21.925	1.00	15.16		C
ANISOU	1174	C	ILE	A	200	2030	1745	1986	36	80	-7	C
ATOM	1175	O	ILE	A	200	5.081	8.742	21.568	1.00	14.07		O
ANISOU	1175	O	ILE	A	200	1863	1629	1852	33	51	6	O
ATOM	1176	N	ILE	A	201	3.697	7.318	22.656	1.00	15.60		N
ANISOU	1176	N	ILE	A	201	2123	1771	2033	46	93	-22	N
ATOM	1177	CA	ILE	A	201	4.730	6.360	23.024	1.00	17.29		C
ANISOU	1177	CA	ILE	A	201	2350	1977	2241	59	71	-30	C
ATOM	1178	CB	ILE	A	201	4.740	6.063	24.535	1.00	19.95		C
ANISOU	1178	CB	ILE	A	201	2758	2261	2561	68	66	-30	C
ATOM	1179	CG1	ILE	A	201	4.646	7.348	25.364	1.00	24.86		C
ANISOU	1179	CG1	ILE	A	201	3414	2859	3172	65	54	-17	C
ATOM	1180	CD1	ILE	A	201	5.746	8.353	25.089	1.00	32.14		C
ANISOU	1180	CD1	ILE	A	201	4310	3796	4106	58	9	-4	C
ATOM	1181	CG2	ILE	A	201	5.973	5.244	24.899	1.00	19.45		C
ANISOU	1181	CG2	ILE	A	201	2707	2189	2492	83	32	-38	C
ATOM	1182	C	ILE	A	201	4.458	5.045	22.311	1.00	12.48		C
ANISOU	1182	C	ILE	A	201	1721	1382	1637	68	85	-49	C
ATOM	1183	O	ILE	A	201	3.406	4.431	22.501	1.00	17.07		O
ANISOU	1183	O	ILE	A	201	2322	1941	2222	64	112	-58	O
ATOM	1184	N	GLU	A	202	5.406	4.621	21.486	1.00	13.69		N
ANISOU	1184	N	GLU	A	202	1835	1573	1794	82	64	-56	N
ATOM	1185	CA	GLU	A	202	5.267	3.401	20.708	1.00	16.78		C
ANISOU	1185	CA	GLU	A	202	2208	1979	2188	99	67	-80	C
ATOM	1186	CB	GLU	A	202	5.584	3.675	19.234	1.00	16.48		C
ANISOU	1186	CB	GLU	A	202	2106	2006	2151	110	65	-81	C
ATOM	1187	CG	GLU	A	202	4.700	4.729	18.574	1.00	19.14		C
ANISOU	1187	CG	GLU	A	202	2416	2362	2493	91	88	-68	C
ATOM	1188	CD	GLU	A	202	3.449	4.140	17.949	1.00	19.64		C
ANISOU	1188	CD	GLU	A	202	2475	2422	2567	93	108	-89	C
ATOM	1189	OE1	GLU	A	202	3.287	2.899	17.970	1.00	20.25		O
ANISOU	1189	OE1	GLU	A	202	2567	2479	2647	106	102	-113	O
ATOM	1190	OE2	GLU	A	202	2.630	4.920	17.421	1.00	20.88		O
ANISOU	1190	OE2	GLU	A	202	2613	2592	2729	80	124	-82	O
ATOM	1191	C	GLU	A	202	6.230	2.351	21.240	1.00	18.37		C
ANISOU	1191	C	GLU	A	202	2436	2164	2382	122	39	-93	C
ATOM	1192	O	GLU	A	202	7.444	2.500	21.115	1.00	18.30		O
ANISOU	1192	O	GLU	A	202	2404	2182	2368	136	13	-90	O
ATOM	1193	N	ASN	A	203	5.694	1.289	21.833	1.00	19.55		N
ANISOU	1193	N	ASN	A	203	2631	2267	2532	124	43	-106	N
ATOM	1194	CA	ASN	A	203	6.545	0.206	22.289	1.00	17.05		C
ANISOU	1194	CA	ASN	A	203	2343	1929	2207	148	12	-121	C
ATOM	1195	CB	ASN	A	203	6.031	-0.399	23.594	1.00	21.02		C
ANISOU	1195	CB	ASN	A	203	2917	2364	2704	138	19	-115	C
ATOM	1196	CG	ASN	A	203	6.998	-1.405	24.179	1.00	24.39		C
ANISOU	1196	CG	ASN	A	203	3381	2764	3120	164	-19	-128	C
ATOM	1197	OD1	ASN	A	203	7.952	-1.820	23.517	1.00	23.23		O
ANISOU	1197	OD1	ASN	A	203	3204	2650	2973	193	-49	-148	O
ATOM	1198	ND2	ASN	A	203	6.770	-1.795	25.425	1.00	23.74		N
ANISOU	1198	ND2	ASN	A	203	3367	2627	3027	158	-17	-117	N
ATOM	1199	C	ASN	A	203	6.601	-0.850	21.201	1.00	15.68		C
ANISOU	1199	C	ASN	A	203	2142	1778	2038	173	-1	-150	C
ATOM	1200	O	ASN	A	203	5.610	-1.539	20.943	1.00	16.49		O
ANISOU	1200	O	ASN	A	203	2256	1857	2153	165	10	-161	O
ATOM	1201	N	PHE	A	204	7.761	-0.955	20.557	1.00	18.16		N
ANISOU	1201	N	PHE	A	204	2419	2139	2343	205	-26	-161	N
ATOM	1202	CA	PHE	A	204	7.949	-1.860	19.426	1.00	19.89		C
ANISOU	1202	CA	PHE	A	204	2609	2390	2559	242	-42	-192	C
ATOM	1203	CB	PHE	A	204	8.581	-1.109	18.249	1.00	20.15		C
ANISOU	1203	CB	PHE	A	204	2570	2505	2581	260	-36	-186	C
ATOM	1204	CG	PHE	A	204	7.573	-0.496	17.315	1.00	20.30		C
ANISOU	1204	CG	PHE	A	204	2558	2549	2605	243	-8	-181	C
ATOM	1205	CD1	PHE	A	204	6.451	0.149	17.813	1.00	21.90		C
ANISOU	1205	CD1	PHE	A	204	2783	2716	2824	200	19	-163	C

ATOM	1206	CE1	PHE	A	204	5.519	0.713	16.955	1.00	20.18	C	
ANISOU	1206	CE1	PHE	A	204	2536	2520	2612	188	41	-160	C
ATOM	1207	CZ	PHE	A	204	5.701	0.633	15.592	1.00	19.88	C	
ANISOU	1207	CZ	PHE	A	204	2453	2540	2561	218	37	-174	C
ATOM	1208	CE2	PHE	A	204	6.816	-0.007	15.083	1.00	23.27	C	
ANISOU	1208	CE2	PHE	A	204	2862	3010	2970	264	15	-190	C
ATOM	1209	CD2	PHE	A	204	7.745	-0.566	15.944	1.00	25.29	C	
ANISOU	1209	CD2	PHE	A	204	3142	3244	3223	276	-7	-194	C
ATOM	1210	C	PHE	A	204	8.772	-3.090	19.799	1.00	19.83	C	
ANISOU	1210	C	PHE	A	204	2633	2360	2543	279	-82	-218	C
ATOM	1211	O	PHE	A	204	9.298	-3.792	18.934	1.00	19.56	O	
ANISOU	1211	O	PHE	A	204	2574	2359	2498	323	-104	-246	O
ATOM	1212	N	LYS	A	205	8.879	-3.352	21.095	1.00	21.94	N	
ANISOU	1212	N	LYS	A	205	2958	2569	2810	266	-92	-208	N
ATOM	1213	CA	LYS	A	205	9.542	-4.562	21.572	1.00	26.88	C	
ANISOU	1213	CA	LYS	A	205	3626	3160	3429	300	-132	-232	C
ATOM	1214	CB	LYS	A	205	9.291	-4.728	23.073	1.00	34.22	C	
ANISOU	1214	CB	LYS	A	205	4628	4016	4356	275	-133	-213	C
ATOM	1215	CG	LYS	A	205	9.865	-5.998	23.676	1.00	49.78	C	
ANISOU	1215	CG	LYS	A	205	6655	5940	6320	306	-176	-233	C
ATOM	1216	CD	LYS	A	205	11.382	-5.947	23.731	1.00	62.68	C	
ANISOU	1216	CD	LYS	A	205	8268	7609	7940	348	-214	-247	C
ATOM	1217	CE	LYS	A	205	11.961	-7.255	24.250	1.00	70.63	C	
ANISOU	1217	CE	LYS	A	205	9330	8568	8938	385	-263	-272	C
ATOM	1218	NZ	LYS	A	205	13.450	-7.283	24.163	1.00	73.79	N	
ANISOU	1218	NZ	LYS	A	205	9699	9011	9328	433	-302	-290	N
ATOM	1219	C	LYS	A	205	9.058	-5.795	20.802	1.00	29.41	C	
ANISOU	1219	C	LYS	A	205	3954	3465	3754	323	-151	-265	C
ATOM	1220	O	LYS	A	205	9.855	-6.662	20.425	1.00	26.81	O	
ANISOU	1220	O	LYS	A	205	3624	3147	3415	373	-190	-297	O
ATOM	1221	N	GLY	A	206	7.754	-5.866	20.553	1.00	27.81	N	
ANISOU	1221	N	GLY	A	206	3759	3237	3571	291	-128	-260	N
ATOM	1222	CA	GLY	A	206	7.169	-7.022	19.890	1.00	30.88	C	
ANISOU	1222	CA	GLY	A	206	4160	3599	3973	307	-153	-291	C
ATOM	1223	C	GLY	A	206	6.919	-6.883	18.398	1.00	28.87	C	
ANISOU	1223	C	GLY	A	206	3850	3402	3718	330	-152	-314	C
ATOM	1224	O	GLY	A	206	6.116	-7.623	17.825	1.00	33.41	O	
ANISOU	1224	O	GLY	A	206	4434	3950	4311	332	-169	-336	O
ATOM	1225	N	PHE	A	207	7.612	-5.945	17.761	1.00	23.97	N	
ANISOU	1225	N	PHE	A	207	3172	2858	3076	349	-136	-309	N
ATOM	1226	CA	PHE	A	207	7.466	-5.716	16.326	1.00	24.30	C	
ANISOU	1226	CA	PHE	A	207	3162	2963	3109	377	-131	-327	C
ATOM	1227	CB	PHE	A	207	8.099	-4.370	15.952	1.00	23.67	C	
ANISOU	1227	CB	PHE	A	207	3023	2959	3011	374	-99	-298	C
ATOM	1228	CG	PHE	A	207	7.804	-3.907	14.549	1.00	27.08	C	
ANISOU	1228	CG	PHE	A	207	3403	3457	3431	393	-84	-305	C
ATOM	1229	CD1	PHE	A	207	6.537	-4.042	14.000	1.00	26.21	C	
ANISOU	1229	CD1	PHE	A	207	3299	3324	3336	378	-80	-317	C
ATOM	1230	CE1	PHE	A	207	6.269	-3.597	12.709	1.00	22.47	C	
ANISOU	1230	CE1	PHE	A	207	2782	2909	2846	400	-69	-324	C
ATOM	1231	CZ	PHE	A	207	7.270	-2.992	11.960	1.00	25.67	C	
ANISOU	1231	CZ	PHE	A	207	3135	3400	3217	435	-57	-312	C
ATOM	1232	CE2	PHE	A	207	8.534	-2.843	12.503	1.00	31.42	C	
ANISOU	1232	CE2	PHE	A	207	3851	4155	3934	446	-58	-295	C
ATOM	1233	CD2	PHE	A	207	8.794	-3.292	13.793	1.00	26.93	C	
ANISOU	1233	CD2	PHE	A	207	3326	3523	3383	425	-74	-294	C
ATOM	1234	C	PHE	A	207	8.143	-6.843	15.559	1.00	28.46	C	
ANISOU	1234	C	PHE	A	207	3689	3509	3616	447	-178	-374	C
ATOM	1235	O	PHE	A	207	9.370	-6.899	15.489	1.00	34.24	O	
ANISOU	1235	O	PHE	A	207	4401	4286	4324	490	-191	-381	O
ATOM	1236	N	THR	A	208	7.341	-7.737	14.984	1.00	28.12	N	
ANISOU	1236	N	THR	A	208	3667	3431	3586	459	-205	-406	N
ATOM	1237	CA	THR	A	208	7.869	-8.898	14.266	1.00	30.05	C	
ANISOU	1237	CA	THR	A	208	3922	3682	3812	531	-259	-458	C
ATOM	1238	CB	THR	A	208	6.885	-10.076	14.311	1.00	26.72	C	
ANISOU	1238	CB	THR	A	208	3556	3175	3424	522	-303	-485	C
ATOM	1239	OG1	THR	A	208	5.679	-9.710	13.628	1.00	24.88	O	
ANISOU	1239	OG1	THR	A	208	3302	2940	3211	492	-286	-483	O
ATOM	1240	CG2	THR	A	208	6.559	-10.445	15.740	1.00	29.20	C	
ANISOU	1240	CG2	THR	A	208	3925	3401	3767	466	-303	-457	C

ATOM	1241	C	THR	A	208	8.116	-8.586	12.800	1.00	29.51	C	
ANISOU	1241	C	THR	A	208	3800	3702	3711	586	-255	-480	C
ATOM	1242	O	THR	A	208	7.536	-7.653	12.248	1.00	25.06	O	
ANISOU	1242	O	THR	A	208	3199	3174	3148	561	-217	-459	O
ATOM	1243	N	MET	A	209	8.961	-9.385	12.161	1.00	31.44	N	
ANISOU	1243	N	MET	A	209	4043	3981	3924	667	-294	-523	N
ATOM	1244	CA	MET	A	209	9.211	-9.219	10.736	1.00	35.22	C	
ANISOU	1244	CA	MET	A	209	4475	4545	4362	731	-292	-547	C
ATOM	1245	CB	MET	A	209	10.284	-10.199	10.252	1.00	36.83	C	
ANISOU	1245	CB	MET	A	209	4683	4785	4527	828	-338	-596	C
ATOM	1246	CG	MET	A	209	11.549	-10.171	11.093	1.00	42.34	C	
ANISOU	1246	CG	MET	A	209	5371	5502	5214	840	-335	-580	C
ATOM	1247	SD	MET	A	209	12.984	-10.891	10.273	1.00	64.93	S	
ANISOU	1247	SD	MET	A	209	8202	8451	8017	964	-367	-628	S
ATOM	1248	CE	MET	A	209	13.271	-9.685	8.981	1.00	68.84	C	
ANISOU	1248	CE	MET	A	209	8606	9081	8469	988	-304	-599	C
ATOM	1249	C	MET	A	209	7.918	-9.408	9.953	1.00	33.75	C	
ANISOU	1249	C	MET	A	209	4302	4330	4192	722	-307	-569	C
ATOM	1250	O	MET	A	209	7.712	-8.778	8.916	1.00	31.41	O	
ANISOU	1250	O	MET	A	209	3964	4099	3872	742	-284	-568	O
ATOM	1251	N	GLN	A	210	7.039	-10.267	10.463	1.00	31.70	N	
ANISOU	1251	N	GLN	A	210	4098	3971	3975	690	-346	-585	N
ATOM	1252	CA	GLN	A	210	5.753	-10.498	9.815	1.00	36.67	C	
ANISOU	1252	CA	GLN	A	210	4739	4563	4632	674	-366	-605	C
ATOM	1253	CB	GLN	A	210	4.991	-11.628	10.506	1.00	44.28	C	
ANISOU	1253	CB	GLN	A	210	5764	5412	5648	640	-417	-619	C
ATOM	1254	CG	GLN	A	210	3.660	-11.965	9.852	1.00	59.68	C	
ANISOU	1254	CG	GLN	A	210	7724	7317	7637	621	-449	-641	C
ATOM	1255	CD	GLN	A	210	3.167	-13.357	10.211	1.00	72.47	C	
ANISOU	1255	CD	GLN	A	210	9404	8830	9301	613	-521	-668	C
ATOM	1256	OE1	GLN	A	210	3.943	-14.212	10.645	1.00	77.78	O	
ANISOU	1256	OE1	GLN	A	210	10118	9473	9963	647	-561	-687	O
ATOM	1257	NE2	GLN	A	210	1.873	-13.593	10.026	1.00	73.87	N	
ANISOU	1257	NE2	GLN	A	210	9587	8948	9531	567	-543	-669	N
ATOM	1258	C	GLN	A	210	4.918	-9.221	9.808	1.00	35.91	C	
ANISOU	1258	C	GLN	A	210	4605	4487	4554	608	-306	-560	C
ATOM	1259	O	GLN	A	210	4.353	-8.840	8.784	1.00	37.37	O	
ANISOU	1259	O	GLN	A	210	4763	4706	4729	623	-302	-571	O
ATOM	1260	N	GLN	A	211	4.843	-8.560	10.956	1.00	31.87	N	
ANISOU	1260	N	GLN	A	211	4094	3951	4065	539	-263	-510	N
ATOM	1261	CA	GLN	A	211	4.152	-7.282	11.040	1.00	28.08	C	
ANISOU	1261	CA	GLN	A	211	3580	3491	3597	482	-207	-467	C
ATOM	1262	CB	GLN	A	211	4.140	-6.775	12.482	1.00	29.62	C	
ANISOU	1262	CB	GLN	A	211	3792	3647	3815	416	-171	-420	C
ATOM	1263	CG	GLN	A	211	3.265	-7.602	13.419	1.00	32.30	C	
ANISOU	1263	CG	GLN	A	211	4182	3890	4201	369	-188	-417	C
ATOM	1264	CD	GLN	A	211	3.366	-7.143	14.854	1.00	34.40	C	
ANISOU	1264	CD	GLN	A	211	4470	4124	4478	318	-152	-372	C
ATOM	1265	OE1	GLN	A	211	4.412	-6.663	15.289	1.00	36.79	O	
ANISOU	1265	OE1	GLN	A	211	4766	4460	4752	330	-139	-357	O
ATOM	1266	NE2	GLN	A	211	2.278	-7.292	15.606	1.00	38.75	N	
ANISOU	1266	NE2	GLN	A	211	5045	4611	5067	261	-138	-350	N
ATOM	1267	C	GLN	A	211	4.826	-6.273	10.112	1.00	29.70	C	
ANISOU	1267	C	GLN	A	211	3730	3798	3757	517	-175	-456	C
ATOM	1268	O	GLN	A	211	4.166	-5.610	9.307	1.00	33.44	O	
ANISOU	1268	O	GLN	A	211	4176	4303	4227	512	-158	-452	O
ATOM	1269	N	ALA	A	212	6.148	-6.179	10.210	1.00	29.15	N	
ANISOU	1269	N	ALA	A	212	3643	3780	3652	554	-169	-450	N
ATOM	1270	CA	ALA	A	212	6.913	-5.251	9.380	1.00	30.92	C	
ANISOU	1270	CA	ALA	A	212	3809	4104	3834	585	-137	-430	C
ATOM	1271	CB	ALA	A	212	8.407	-5.445	9.602	1.00	29.26	C	
ANISOU	1271	CB	ALA	A	212	3581	3943	3594	628	-140	-428	C
ATOM	1272	C	ALA	A	212	6.574	-5.419	7.905	1.00	31.95	C	
ANISOU	1272	C	ALA	A	212	3921	4284	3933	643	-151	-463	C
ATOM	1273	O	ALA	A	212	6.330	-4.445	7.195	1.00	34.29	O	
ANISOU	1273	O	ALA	A	212	4181	4634	4214	636	-118	-439	O
ATOM	1274	N	ALA	A	213	6.558	-6.665	7.451	1.00	33.31	N	
ANISOU	1274	N	ALA	A	213	4126	4434	4096	702	-204	-519	N
ATOM	1275	CA	ALA	A	213	6.353	-6.957	6.041	1.00	34.00	C	
ANISOU	1275	CA	ALA	A	213	4204	4569	4147	773	-228	-560	C

ATOM	1276	CB	ALA	A	213	6.718	-8.410	5.742	1.00	37.96	C	
ANISOU	1276	CB	ALA	A	213	4745	5047	4632	850	-295	-624	C
ATOM	1277	C	ALA	A	213	4.926	-6.666	5.598	1.00	34.63	C	
ANISOU	1277	C	ALA	A	213	4291	4611	4256	736	-232	-564	C
ATOM	1278	O	ALA	A	213	4.675	-6.438	4.417	1.00	43.39	O	
ANISOU	1278	O	ALA	A	213	5383	5771	5331	781	-235	-581	O
ATOM	1279	N	SER	A	214	3.992	-6.677	6.544	1.00	35.04	N	
ANISOU	1279	N	SER	A	214	4367	4577	4368	658	-231	-548	N
ATOM	1280	CA	SER	A	214	2.584	-6.487	6.213	1.00	37.17	C	
ANISOU	1280	CA	SER	A	214	4642	4807	4675	620	-239	-554	C
ATOM	1281	CB	SER	A	214	1.699	-7.363	7.104	1.00	42.72	C	
ANISOU	1281	CB	SER	A	214	5387	5402	5443	568	-273	-564	C
ATOM	1282	OG	SER	A	214	1.278	-6.657	8.256	1.00	50.97	O	
ANISOU	1282	OG	SER	A	214	6427	6414	6524	486	-225	-513	O
ATOM	1283	C	SER	A	214	2.124	-5.023	6.284	1.00	38.55	C	
ANISOU	1283	C	SER	A	214	4779	5013	4856	565	-179	-503	C
ATOM	1284	O	SER	A	214	1.048	-4.685	5.788	1.00	38.11	O	
ANISOU	1284	O	SER	A	214	4716	4945	4819	547	-182	-508	O
ATOM	1285	N	LEU	A	215	2.929	-4.160	6.901	1.00	32.68	N	
ANISOU	1285	N	LEU	A	215	4013	4307	4097	540	-132	-456	N
ATOM	1286	CA	LEU	A	215	2.595	-2.735	6.980	1.00	27.10	C	
ANISOU	1286	CA	LEU	A	215	3276	3627	3395	492	-82	-407	C
ATOM	1287	CB	LEU	A	215	3.639	-1.972	7.793	1.00	29.43	C	
ANISOU	1287	CB	LEU	A	215	3553	3950	3678	466	-44	-359	C
ATOM	1288	CG	LEU	A	215	3.508	-2.081	9.308	1.00	31.99	C	
ANISOU	1288	CG	LEU	A	215	3908	4202	4043	408	-37	-341	C
ATOM	1289	CD1	LEU	A	215	4.561	-1.229	10.011	1.00	30.48	C	
ANISOU	1289	CD1	LEU	A	215	3699	4041	3840	388	-8	-296	C
ATOM	1290	CD2	LEU	A	215	2.106	-1.670	9.728	1.00	38.00	C	
ANISOU	1290	CD2	LEU	A	215	4682	4910	4848	350	-24	-330	C
ATOM	1291	C	LEU	A	215	2.484	-2.118	5.593	1.00	28.23	C	
ANISOU	1291	C	LEU	A	215	3386	3841	3497	532	-74	-410	C
ATOM	1292	O	LEU	A	215	3.438	-2.145	4.816	1.00	30.91	O	
ANISOU	1292	O	LEU	A	215	3705	4254	3784	593	-72	-414	O
ATOM	1293	N	ARG	A	216	1.321	-1.560	5.284	1.00	25.13	N	
ANISOU	1293	N	ARG	A	216	2989	3430	3127	502	-69	-407	N
ATOM	1294	CA	ARG	A	216	1.122	-0.909	3.996	1.00	25.20	C	
ANISOU	1294	CA	ARG	A	216	2975	3503	3099	539	-63	-407	C
ATOM	1295	CB	ARG	A	216	-0.351	-0.960	3.587	1.00	31.04	C	
ANISOU	1295	CB	ARG	A	216	3724	4197	3873	523	-88	-433	C
ATOM	1296	CG	ARG	A	216	-0.865	-2.351	3.260	1.00	41.90	C	
ANISOU	1296	CG	ARG	A	216	5130	5523	5268	557	-150	-495	C
ATOM	1297	CD	ARG	A	216	-2.369	-2.344	3.031	1.00	53.58	C	
ANISOU	1297	CD	ARG	A	216	6610	6964	6784	543	-177	-518	C
ATOM	1298	NE	ARG	A	216	-3.114	-1.968	4.233	1.00	65.70	N	
ANISOU	1298	NE	ARG	A	216	8123	8563	8277	574	-165	-512	N
ATOM	1299	CZ	ARG	A	216	-4.441	-1.885	4.301	1.00	71.47	C	
ANISOU	1299	CZ	ARG	A	216	8859	9342	8956	653	-196	-547	C
ATOM	1300	NH1	ARG	A	216	-5.180	-2.145	3.230	1.00	76.90	N	
ANISOU	1300	NH1	ARG	A	216	9572	10021	9627	712	-245	-596	N
ATOM	1301	NH2	ARG	A	216	-5.030	-1.539	5.440	1.00	64.94	N	
ANISOU	1301	NH2	ARG	A	216	8015	8571	8089	678	-182	-534	N
ATOM	1302	C	ARG	A	216	1.601	0.538	4.049	1.00	27.56	C	
ANISOU	1302	C	ARG	A	216	3239	3854	3378	509	-12	-346	C
ATOM	1303	O	ARG	A	216	1.272	1.281	4.975	1.00	22.11	O	
ANISOU	1303	O	ARG	A	216	2549	3129	2722	445	13	-311	O
ATOM	1304	N	THR	A	217	2.380	0.937	3.054	1.00	22.92	N	
ANISOU	1304	N	THR	A	217	2624	3352	2733	559	2	-331	N
ATOM	1305	CA	THR	A	217	2.851	2.313	2.966	1.00	21.37	C	
ANISOU	1305	CA	THR	A	217	2394	3207	2519	531	46	-269	C
ATOM	1306	CB	THR	A	217	3.715	2.508	1.719	1.00	25.84	C	
ANISOU	1306	CB	THR	A	217	2929	3874	3016	596	60	-255	C
ATOM	1307	OG1	THR	A	217	4.889	1.703	1.851	1.00	29.63	O	
ANISOU	1307	OG1	THR	A	217	3399	4387	3471	640	56	-267	O
ATOM	1308	CG2	THR	A	217	4.114	3.975	1.546	1.00	23.05	C	
ANISOU	1308	CG2	THR	A	217	2540	3570	2648	561	102	-183	C
ATOM	1309	C	THR	A	217	1.697	3.312	2.981	1.00	19.55	C	
ANISOU	1309	C	THR	A	217	2167	2946	2317	481	56	-250	C
ATOM	1310	O	THR	A	217	1.804	4.386	3.575	1.00	21.75	O	
ANISOU	1310	O	THR	A	217	2434	3220	2612	429	83	-201	O

ATOM	1311	N	SER	A	218	0.584	2.957	2.346	1.00	20.19		N
ANISOU	1311	N	SER	A	218	2263	3002	2406	500	28	-291	N
ATOM	1312	CA	SER	A	218	-0.575	3.844	2.335	1.00	19.35		C
ANISOU	1312	CA	SER	A	218	2158	2866	2328	459	33	-279	C
ATOM	1313	CB	SER	A	218	-1.656	3.330	1.374	1.00	26.63		C
ANISOU	1313	CB	SER	A	218	3091	3775	3251	497	-6	-330	C
ATOM	1314	OG	SER	A	218	-2.111	2.042	1.748	1.00	26.25		O
ANISOU	1314	OG	SER	A	218	3066	3668	3240	501	-43	-380	O
ATOM	1315	C	SER	A	218	-1.150	4.086	3.735	1.00	19.13		C
ANISOU	1315	C	SER	A	218	2142	2766	2361	388	44	-265	C
ATOM	1316	O	SER	A	218	-1.703	5.155	4.008	1.00	17.99		O
ANISOU	1316	O	SER	A	218	1992	2608	2233	348	63	-236	O
ATOM	1317	N	ASP	A	219	-1.017	3.096	4.616	1.00	22.64		N
ANISOU	1317	N	ASP	A	219	2605	3163	2832	377	33	-287	N
ATOM	1318	CA	ASP	A	219	-1.478	3.223	5.998	1.00	22.41		C
ANISOU	1318	CA	ASP	A	219	2592	3070	2853	316	47	-272	C
ATOM	1319	CB	ASP	A	219	-1.609	1.839	6.650	1.00	23.83		C
ANISOU	1319	CB	ASP	A	219	2798	3195	3063	315	23	-306	C
ATOM	1320	CG	ASP	A	219	-2.843	1.082	6.189	1.00	27.90		C
ANISOU	1320	CG	ASP	A	219	3320	3670	3612	321	-12	-349	C
ATOM	1321	OD1	ASP	A	219	-3.768	1.709	5.626	1.00	30.20		O
ANISOU	1321	OD1	ASP	A	219	3596	3966	3912	316	-12	-351	O
ATOM	1322	OD2	ASP	A	219	-2.889	-0.145	6.400	1.00	31.44		O
ANISOU	1322	OD2	ASP	A	219	3789	4077	4079	331	-43	-381	O
ATOM	1323	C	ASP	A	219	-0.519	4.096	6.810	1.00	17.12		C
ANISOU	1323	C	ASP	A	219	1916	2416	2173	286	78	-222	C
ATOM	1324	O	ASP	A	219	-0.943	4.942	7.603	1.00	17.60		O
ANISOU	1324	O	ASP	A	219	1982	2447	2257	241	97	-195	O
ATOM	1325	N	LEU	A	220	0.777	3.886	6.618	1.00	14.80		N
ANISOU	1325	N	LEU	A	220	1611	2167	1845	315	80	-211	N
ATOM	1326	CA	LEU	A	220	1.767	4.736	7.260	1.00	14.48		C
ANISOU	1326	CA	LEU	A	220	1559	2145	1798	288	102	-162	C
ATOM	1327	CB	LEU	A	220	3.182	4.268	6.932	1.00	18.30		C
ANISOU	1327	CB	LEU	A	220	2023	2686	2247	328	100	-157	C
ATOM	1328	CG	LEU	A	220	3.537	2.862	7.436	1.00	22.88		C
ANISOU	1328	CG	LEU	A	220	2626	3236	2833	352	77	-197	C
ATOM	1329	CD1	LEU	A	220	4.927	2.440	6.957	1.00	21.66		C
ANISOU	1329	CD1	LEU	A	220	2444	3147	2637	403	75	-196	C
ATOM	1330	CD2	LEU	A	220	3.428	2.802	8.953	1.00	25.71		C
ANISOU	1330	CD2	LEU	A	220	3015	3525	3230	303	79	-189	C
ATOM	1331	C	LEU	A	220	1.581	6.186	6.826	1.00	20.09		C
ANISOU	1331	C	LEU	A	220	2249	2884	2499	266	120	-120	C
ATOM	1332	O	LEU	A	220	1.695	7.100	7.640	1.00	18.22		O
ANISOU	1332	O	LEU	A	220	2017	2625	2281	223	132	-85	O
ATOM	1333	N	ARG	A	221	1.292	6.399	5.545	1.00	19.59		N
ANISOU	1333	N	ARG	A	221	2169	2866	2408	299	118	-125	N
ATOM	1334	CA	ARG	A	221	1.089	7.761	5.049	1.00	12.94		C
ANISOU	1334	CA	ARG	A	221	1312	2050	1555	281	132	-83	C
ATOM	1335	CB	ARG	A	221	0.954	7.788	3.521	1.00	16.13		C
ANISOU	1335	CB	ARG	A	221	1699	2513	1915	331	128	-90	C
ATOM	1336	CG	ARG	A	221	2.262	7.579	2.777	1.00	15.65		C
ANISOU	1336	CG	ARG	A	221	1610	2534	1805	374	140	-69	C
ATOM	1337	CD	ARG	A	221	2.075	7.819	1.283	1.00	20.57		C
ANISOU	1337	CD	ARG	A	221	2221	3220	2377	423	141	-67	C
ATOM	1338	NE	ARG	A	221	1.795	9.226	1.000	1.00	15.85		N
ANISOU	1338	NE	ARG	A	221	1615	2631	1778	389	154	-15	N
ATOM	1339	CZ	ARG	A	221	1.787	9.749	-0.224	1.00	23.17		C
ANISOU	1339	CZ	ARG	A	221	2530	3616	2657	422	162	7	C
ATOM	1340	NH1	ARG	A	221	2.032	8.977	-1.277	1.00	22.03		N
ANISOU	1340	NH1	ARG	A	221	2380	3530	2460	493	159	-20	N
ATOM	1341	NH2	ARG	A	221	1.530	11.040	-0.392	1.00	26.29		N
ANISOU	1341	NH2	ARG	A	221	2923	4009	3055	386	169	57	N
ATOM	1342	C	ARG	A	221	-0.153	8.370	5.676	1.00	13.56		C
ANISOU	1342	C	ARG	A	221	1412	2067	1674	240	130	-87	C
ATOM	1343	O	ARG	A	221	-0.204	9.573	5.940	1.00	13.53		O
ANISOU	1343	O	ARG	A	221	1408	2057	1677	207	139	-49	O
ATOM	1344	N	LYS	A	222	-1.165	7.540	5.912	1.00	13.92		N
ANISOU	1344	N	LYS	A	222	1476	2067	1747	243	117	-134	N
ATOM	1345	CA	LYS	A	222	-2.383	8.024	6.548	1.00	13.97		C
ANISOU	1345	CA	LYS	A	222	1496	2020	1792	208	120	-139	C

ATOM	1346	CB	LYS	A	222	-3.437	6.910	6.559	1.00	16.83		C
ANISOU	1346	CB	LYS	A	222	1867	2344	2185	217	103	-189	C
ATOM	1347	CG	LYS	A	222	-4.866	7.359	6.827	1.00	18.15		C
ANISOU	1347	CG	LYS	A	222	2034	2472	2390	192	105	-199	C
ATOM	1348	CD	LYS	A	222	-5.840	6.177	6.718	1.00	20.65		C
ANISOU	1348	CD	LYS	A	222	2350	2754	2742	199	84	-245	C
ATOM	1349	CE	LYS	A	222	-5.686	5.395	5.402	1.00	19.17		C
ANISOU	1349	CE	LYS	A	222	2156	2596	2530	249	50	-280	C
ATOM	1350	NZ	LYS	A	222	-6.815	4.433	5.175	1.00	20.94		N
ANISOU	1350	NZ	LYS	A	222	2378	2781	2797	252	18	-324	N
ATOM	1351	C	LYS	A	222	-2.068	8.530	7.965	1.00	15.61		C
ANISOU	1351	C	LYS	A	222	1720	2190	2021	165	135	-111	C
ATOM	1352	O	LYS	A	222	-2.565	9.582	8.395	1.00	13.91		O
ANISOU	1352	O	LYS	A	222	1513	1955	1819	139	143	-90	O
ATOM	1353	N	MET	A	223	-1.230	7.793	8.690	1.00	16.16		N
ANISOU	1353	N	MET	A	223	1800	2249	2091	163	136	-112	N
ATOM	1354	CA	MET	A	223	-0.827	8.245	10.017	1.00	15.52		C
ANISOU	1354	CA	MET	A	223	1739	2134	2024	128	146	-87	C
ATOM	1355	CB	MET	A	223	-0.070	7.152	10.784	1.00	15.51		C
ANISOU	1355	CB	MET	A	223	1753	2115	2025	133	142	-99	C
ATOM	1356	CG	MET	A	223	0.214	7.536	12.233	1.00	18.68		C
ANISOU	1356	CG	MET	A	223	2184	2474	2441	101	148	-78	C
ATOM	1357	SD	MET	A	223	0.753	6.114	13.191	1.00	21.85		S
ANISOU	1357	SD	MET	A	223	2614	2841	2848	108	141	-99	S
ATOM	1358	CE	MET	A	223	0.823	6.835	14.839	1.00	21.61		C
ANISOU	1358	CE	MET	A	223	2623	2760	2828	74	149	-74	C
ATOM	1359	C	MET	A	223	-0.005	9.531	9.961	1.00	14.42		C
ANISOU	1359	C	MET	A	223	1589	2021	1871	113	147	-39	C
ATOM	1360	O	MET	A	223	-0.216	10.440	10.764	1.00	15.05		O
ANISOU	1360	O	MET	A	223	1687	2068	1964	84	149	-19	O
ATOM	1361	N	VAL	A	224	0.925	9.609	9.012	1.00	15.57		N
ANISOU	1361	N	VAL	A	224	1704	2225	1987	133	145	-20	N
ATOM	1362	CA	VAL	A	224	1.687	10.841	8.799	1.00	15.58		C
ANISOU	1362	CA	VAL	A	224	1687	2254	1977	115	145	33	C
ATOM	1363	CB	VAL	A	224	2.607	10.726	7.560	1.00	14.72		C
ANISOU	1363	CB	VAL	A	224	1538	2222	1832	145	151	54	C
ATOM	1364	CG1	VAL	A	224	3.107	12.105	7.110	1.00	13.82		C
ANISOU	1364	CG1	VAL	A	224	1403	2139	1710	121	152	115	C
ATOM	1365	CG2	VAL	A	224	3.772	9.797	7.858	1.00	17.35		C
ANISOU	1365	CG2	VAL	A	224	1858	2578	2157	163	151	48	C
ATOM	1366	C	VAL	A	224	0.749	12.035	8.627	1.00	15.05		C
ANISOU	1366	C	VAL	A	224	1631	2168	1920	95	143	48	C
ATOM	1367	O	VAL	A	224	0.903	13.070	9.292	1.00	15.85		O
ANISOU	1367	O	VAL	A	224	1745	2241	2035	63	134	79	O
ATOM	1368	N	ASP	A	225	-0.229	11.894	7.736	1.00	15.63		N
ANISOU	1368	N	ASP	A	225	1700	2253	1986	118	143	23	N
ATOM	1369	CA	ASP	A	225	-1.147	12.992	7.449	1.00	17.75		C
ANISOU	1369	CA	ASP	A	225	1976	2507	2260	107	138	33	C
ATOM	1370	CB	ASP	A	225	-1.977	12.705	6.183	1.00	15.30		C
ANISOU	1370	CB	ASP	A	225	1655	2226	1935	142	134	6	C
ATOM	1371	CG	ASP	A	225	-1.127	12.673	4.920	1.00	18.70		C
ANISOU	1371	CG	ASP	A	225	2058	2725	2321	171	137	29	C
ATOM	1372	OD1	ASP	A	225	-0.019	13.241	4.932	1.00	20.81		O
ANISOU	1372	OD1	ASP	A	225	2311	3021	2575	155	143	79	O
ATOM	1373	OD2	ASP	A	225	-1.574	12.087	3.916	1.00	17.91		O
ANISOU	1373	OD2	ASP	A	225	1951	2654	2201	211	132	-1	O
ATOM	1374	C	ASP	A	225	-2.046	13.317	8.645	1.00	16.98		C
ANISOU	1374	C	ASP	A	225	1910	2346	2196	83	137	17	C
ATOM	1375	O	ASP	A	225	-2.437	14.471	8.842	1.00	14.60		O
ANISOU	1375	O	ASP	A	225	1622	2024	1902	67	128	37	O
ATOM	1376	N	MET	A	226	-2.366	12.311	9.459	1.00	15.38		N
ANISOU	1376	N	MET	A	226	1720	2112	2011	84	146	-16	N
ATOM	1377	CA	MET	A	226	-3.116	12.570	10.682	1.00	16.02		C
ANISOU	1377	CA	MET	A	226	1829	2140	2117	65	152	-26	C
ATOM	1378	CB	MET	A	226	-3.424	11.276	11.451	1.00	14.61		C
ANISOU	1378	CB	MET	A	226	1661	1934	1955	66	165	-57	C
ATOM	1379	CG	MET	A	226	-4.361	11.487	12.640	1.00	16.82		C
ANISOU	1379	CG	MET	A	226	1967	2168	2257	53	179	-66	C
ATOM	1380	SD	MET	A	226	-4.657	9.999	13.617	1.00	17.12		S
ANISOU	1380	SD	MET	A	226	2019	2172	2313	48	197	-90	S

ATOM	1381	CE	MET	A	226	-3.068	9.820	14.424	1.00	15.31		C
ANISOU	1381	CE	MET	A	226	1815	1937	2065	42	189	-68	C
ATOM	1382	C	MET	A	226	-2.344	13.540	11.575	1.00	16.59		C
ANISOU	1382	C	MET	A	226	1923	2191	2188	42	142	10	C
ATOM	1383	O	MET	A	226	-2.923	14.467	12.135	1.00	16.20		O
ANISOU	1383	O	MET	A	226	1896	2111	2148	33	137	15	O
ATOM	1384	N	LEU	A	227	-1.037	13.328	11.706	1.00	15.21		N
ANISOU	1384	N	LEU	A	227	1742	2033	2004	36	136	32	N
ATOM	1385	CA	LEU	A	227	-0.230	14.171	12.591	1.00	13.06		C
ANISOU	1385	CA	LEU	A	227	1489	1735	1736	12	119	65	C
ATOM	1386	CB	LEU	A	227	1.034	13.435	13.041	1.00	11.17		C
ANISOU	1386	CB	LEU	A	227	1245	1505	1494	10	116	72	C
ATOM	1387	CG	LEU	A	227	0.785	12.086	13.721	1.00	14.83		C
ANISOU	1387	CG	LEU	A	227	1726	1949	1961	23	131	34	C
ATOM	1388	CD1	LEU	A	227	2.108	11.388	14.016	1.00	15.49		C
ANISOU	1388	CD1	LEU	A	227	1802	2046	2039	26	122	41	C
ATOM	1389	CD2	LEU	A	227	-0.053	12.251	14.989	1.00	15.76		C
ANISOU	1389	CD2	LEU	A	227	1887	2009	2090	15	137	19	C
ATOM	1390	C	LEU	A	227	0.156	15.495	11.938	1.00	18.33		C
ANISOU	1390	C	LEU	A	227	2144	2419	2400	-3	99	108	C
ATOM	1391	O	LEU	A	227	0.230	16.528	12.604	1.00	19.40		O
ANISOU	1391	O	LEU	A	227	2306	2518	2546	-22	76	128	O
ATOM	1392	N	GLN	A	228	0.384	15.452	10.632	1.00	17.25		N
ANISOU	1392	N	GLN	A	228	1971	2335	2246	7	104	123	N
ATOM	1393	CA	GLN	A	228	0.915	16.582	9.880	1.00	21.89		C
ANISOU	1393	CA	GLN	A	228	2542	2948	2827	-9	88	174	C
ATOM	1394	CB	GLN	A	228	1.809	16.051	8.750	1.00	24.33		C
ANISOU	1394	CB	GLN	A	228	2805	3329	3110	6	103	195	C
ATOM	1395	CG	GLN	A	228	2.829	17.022	8.209	1.00	26.41		C
ANISOU	1395	CG	GLN	A	228	3040	3624	3368	-18	92	263	C
ATOM	1396	CD	GLN	A	228	3.969	16.311	7.498	1.00	23.32		C
ANISOU	1396	CD	GLN	A	228	2601	3306	2954	-2	112	284	C
ATOM	1397	OE1	GLN	A	228	5.103	16.303	7.975	1.00	23.74		O
ANISOU	1397	OE1	GLN	A	228	2634	3368	3019	-21	106	313	O
ATOM	1398	NE2	GLN	A	228	3.668	15.695	6.366	1.00	15.48		N
ANISOU	1398	NE2	GLN	A	228	1590	2367	1927	39	134	266	N
ATOM	1399	C	GLN	A	228	-0.182	17.486	9.311	1.00	21.89		C
ANISOU	1399	C	GLN	A	228	2554	2936	2825	-5	80	173	C
ATOM	1400	O	GLN	A	228	0.022	18.698	9.138	1.00	19.17		O
ANISOU	1400	O	GLN	A	228	2217	2582	2485	-26	57	215	O
ATOM	1401	N	ASP	A	229	-1.347	16.908	9.028	1.00	15.89		N
ANISOU	1401	N	ASP	A	229	1799	2176	2064	21	94	127	N
ATOM	1402	CA	ASP	A	229	-2.472	17.684	8.504	1.00	14.95		C
ANISOU	1402	CA	ASP	A	229	1689	2045	1944	31	85	119	C
ATOM	1403	CB	ASP	A	229	-3.094	16.992	7.289	1.00	15.26		C
ANISOU	1403	CB	ASP	A	229	1706	2126	1967	64	97	92	C
ATOM	1404	CG	ASP	A	229	-2.517	17.474	5.984	1.00	33.51		C
ANISOU	1404	CG	ASP	A	229	3996	4488	4247	71	92	133	C
ATOM	1405	OD1	ASP	A	229	-1.426	18.083	5.998	1.00	39.88		O
ANISOU	1405	OD1	ASP	A	229	4795	5309	5048	46	86	186	O
ATOM	1406	OD2	ASP	A	229	-3.169	17.238	4.944	1.00	34.29		O
ANISOU	1406	OD2	ASP	A	229	4085	4614	4328	101	93	113	O
ATOM	1407	C	ASP	A	229	-3.569	17.924	9.527	1.00	17.19		C
ANISOU	1407	C	ASP	A	229	2006	2275	2251	32	82	86	C
ATOM	1408	O	ASP	A	229	-3.999	19.055	9.733	1.00	18.00		O
ANISOU	1408	O	ASP	A	229	2131	2348	2360	26	61	97	O
ATOM	1409	N	SER	A	230	-4.041	16.856	10.156	1.00	12.59		N
ANISOU	1409	N	SER	A	230	1424	1680	1679	42	104	46	N
ATOM	1410	CA	SER	A	230	-5.173	16.983	11.066	1.00	15.25		C
ANISOU	1410	CA	SER	A	230	1784	1977	2035	48	111	16	C
ATOM	1411	CB	SER	A	230	-5.810	15.615	11.325	1.00	18.44		C
ANISOU	1411	CB	SER	A	230	2175	2380	2451	58	138	-24	C
ATOM	1412	OG	SER	A	230	-6.982	15.762	12.097	1.00	17.23		O
ANISOU	1412	OG	SER	A	230	2034	2197	2315	64	151	-48	O
ATOM	1413	C	SER	A	230	-4.814	17.656	12.396	1.00	19.66		C
ANISOU	1413	C	SER	A	230	2380	2492	2598	34	100	29	C
ATOM	1414	O	SER	A	230	-5.520	18.564	12.852	1.00	16.85		O
ANISOU	1414	O	SER	A	230	2050	2107	2247	41	88	24	O
ATOM	1415	N	PHE	A	231	-3.715	17.220	13.010	1.00	14.77		N
ANISOU	1415	N	PHE	A	231	1768	1868	1976	19	99	44	N

ATOM	1416	CA	PHE	A	231	-3.372	17.663	14.366	1.00	16.34		C
ANISOU	1416	CA	PHE	A	231	2008	2023	2177	11	87	50	C
ATOM	1417	CB	PHE	A	231	-3.533	16.483	15.345	1.00	11.70		C
ANISOU	1417	CB	PHE	A	231	1432	1422	1591	18	116	23	C
ATOM	1418	CG	PHE	A	231	-4.899	15.863	15.335	1.00	14.43		C
ANISOU	1418	CG	PHE	A	231	1768	1770	1946	34	148	-11	C
ATOM	1419	CD1	PHE	A	231	-5.996	16.557	15.816	1.00	18.00		C
ANISOU	1419	CD1	PHE	A	231	2237	2201	2400	49	153	-25	C
ATOM	1420	CE1	PHE	A	231	-7.256	15.983	15.812	1.00	22.11		C
ANISOU	1420	CE1	PHE	A	231	2739	2727	2934	62	184	-53	C
ATOM	1421	CZ	PHE	A	231	-7.428	14.694	15.336	1.00	23.05		C
ANISOU	1421	CZ	PHE	A	231	2826	2865	3067	57	205	-67	C
ATOM	1422	CE2	PHE	A	231	-6.339	13.989	14.852	1.00	19.84		C
ANISOU	1422	CE2	PHE	A	231	2410	2475	2654	46	196	-57	C
ATOM	1423	CD2	PHE	A	231	-5.083	14.572	14.860	1.00	19.57		C
ANISOU	1423	CD2	PHE	A	231	2390	2442	2603	36	171	-30	C
ATOM	1424	C	PHE	A	231	-1.977	18.283	14.582	1.00	13.70		C
ANISOU	1424	C	PHE	A	231	1683	1681	1843	-13	53	91	C
ATOM	1425	O	PHE	A	231	-1.432	18.168	15.687	1.00	15.16		O
ANISOU	1425	O	PHE	A	231	1896	1836	2030	-18	43	91	O
ATOM	1426	N	PRO	A	232	-1.399	18.951	13.559	1.00	13.12		N
ANISOU	1426	N	PRO	A	232	1584	1632	1768	-28	32	128	N
ATOM	1427	CA	PRO	A	232	-0.020	19.450	13.691	1.00	16.79		C
ANISOU	1427	CA	PRO	A	232	2044	2095	2239	-57	2	173	C
ATOM	1428	CB	PRO	A	232	0.239	20.126	12.332	1.00	21.00		C
ANISOU	1428	CB	PRO	A	232	2545	2666	2768	-69	-8	215	C
ATOM	1429	CG	PRO	A	232	-1.133	20.449	11.815	1.00	17.35		C
ANISOU	1429	CG	PRO	A	232	2093	2201	2299	-47	0	189	C
ATOM	1430	CD	PRO	A	232	-1.933	19.241	12.217	1.00	15.69		C
ANISOU	1430	CD	PRO	A	232	1882	1993	2085	-20	37	135	C
ATOM	1431	C	PRO	A	232	0.201	20.451	14.837	1.00	18.28		C
ANISOU	1431	C	PRO	A	232	2282	2223	2441	-69	-41	183	C
ATOM	1432	O	PRO	A	232	1.297	20.480	15.391	1.00	18.70		O
ANISOU	1432	O	PRO	A	232	2337	2263	2504	-88	-65	204	O
ATOM	1433	N	ALA	A	233	-0.803	21.250	15.189	1.00	16.18		N
ANISOU	1433	N	ALA	A	233	2053	1919	2175	-53	-56	165	N
ATOM	1434	CA	ALA	A	233	-0.644	22.211	16.284	1.00	14.99		C
ANISOU	1434	CA	ALA	A	233	1955	1708	2032	-55	-103	167	C
ATOM	1435	CB	ALA	A	233	-1.807	23.186	16.321	1.00	18.26		C
ANISOU	1435	CB	ALA	A	233	2403	2093	2442	-31	-120	149	C
ATOM	1436	C	ALA	A	233	-0.502	21.524	17.634	1.00	18.09		C
ANISOU	1436	C	ALA	A	233	2381	2075	2418	-39	-93	138	C
ATOM	1437	O	ALA	A	233	-0.014	22.121	18.604	1.00	17.77		O
ANISOU	1437	O	ALA	A	233	2383	1986	2381	-41	-137	143	O
ATOM	1438	N	TRP	A	234	-0.932	20.267	17.694	1.00	13.90		N
ANISOU	1438	N	TRP	A	234	1833	1572	1876	-24	-41	109	N
ATOM	1439	CA	TRP	A	234	-1.027	19.546	18.963	1.00	16.40		C
ANISOU	1439	CA	TRP	A	234	2184	1865	2181	-5	-23	81	C
ATOM	1440	CB	TRP	A	234	-2.483	19.142	19.232	1.00	15.75		C
ANISOU	1440	CB	TRP	A	234	2111	1786	2087	26	22	44	C
ATOM	1441	CG	TRP	A	234	-3.372	20.341	19.255	1.00	17.12		C
ANISOU	1441	CG	TRP	A	234	2309	1938	2258	45	2	36	C
ATOM	1442	CD1	TRP	A	234	-3.363	21.346	20.181	1.00	18.28		C
ANISOU	1442	CD1	TRP	A	234	2511	2038	2396	63	-39	33	C
ATOM	1443	NE1	TRP	A	234	-4.304	22.292	19.858	1.00	15.07		N
ANISOU	1443	NE1	TRP	A	234	2114	1624	1989	83	-52	23	N
ATOM	1444	CE2	TRP	A	234	-4.943	21.909	18.707	1.00	18.60		C
ANISOU	1444	CE2	TRP	A	234	2509	2113	2445	77	-19	20	C
ATOM	1445	CD2	TRP	A	234	-4.377	20.684	18.294	1.00	18.24		C
ANISOU	1445	CD2	TRP	A	234	2424	2103	2405	54	14	28	C
ATOM	1446	CE3	TRP	A	234	-4.861	20.074	17.127	1.00	16.69		C
ANISOU	1446	CE3	TRP	A	234	2175	1949	2216	49	44	24	C
ATOM	1447	CZ3	TRP	A	234	-5.878	20.701	16.417	1.00	18.45		C
ANISOU	1447	CZ3	TRP	A	234	2387	2181	2442	65	42	14	C
ATOM	1448	CH2	TRP	A	234	-6.410	21.925	16.850	1.00	19.32		C
ANISOU	1448	CH2	TRP	A	234	2536	2258	2548	86	11	7	C
ATOM	1449	CZ2	TRP	A	234	-5.965	22.535	17.994	1.00	21.23		C
ANISOU	1449	CZ2	TRP	A	234	2830	2455	2781	94	-20	10	C
ATOM	1450	C	TRP	A	234	-0.097	18.335	19.081	1.00	17.90		C
ANISOU	1450	C	TRP	A	234	2354	2076	2372	-16	-6	85	C

ATOM	1451	O	TRP	A	234	0.260	17.942	20.192	1.00	15.17		O
ANISOU	1451	O	TRP	A	234	2043	1703	2018	-8	-10	74	O
ATOM	1452	N	PHE	A	235	0.300	17.747	17.956	1.00	15.76		N
ANISOU	1452	N	PHE	A	235	2029	1853	2106	-29	11	98	N
ATOM	1453	CA	PHE	A	235	1.253	16.638	18.007	1.00	14.66		C
ANISOU	1453	CA	PHE	A	235	1868	1735	1966	-35	21	99	C
ATOM	1454	CB	PHE	A	235	1.277	15.836	16.705	1.00	14.37		C
ANISOU	1454	CB	PHE	A	235	1778	1756	1927	-33	50	99	C
ATOM	1455	CG	PHE	A	235	2.424	14.868	16.647	1.00	10.98		C
ANISOU	1455	CG	PHE	A	235	1324	1352	1495	-34	52	105	C
ATOM	1456	CD1	PHE	A	235	2.448	13.768	17.487	1.00	12.23		C
ANISOU	1456	CD1	PHE	A	235	1506	1492	1649	-21	65	77	C
ATOM	1457	CE1	PHE	A	235	3.510	12.884	17.467	1.00	15.64		C
ANISOU	1457	CE1	PHE	A	235	1919	1945	2079	-17	62	79	C
ATOM	1458	CZ	PHE	A	235	4.574	13.114	16.630	1.00	19.77		C
ANISOU	1458	CZ	PHE	A	235	2395	2513	2605	-26	48	109	C
ATOM	1459	CE2	PHE	A	235	4.574	14.227	15.800	1.00	20.50		C
ANISOU	1459	CE2	PHE	A	235	2461	2627	2702	-43	38	142	C
ATOM	1460	CD2	PHE	A	235	3.507	15.101	15.820	1.00	18.32		C
ANISOU	1460	CD2	PHE	A	235	2210	2324	2429	-48	38	139	C
ATOM	1461	C	PHE	A	235	2.654	17.152	18.318	1.00	15.11		C
ANISOU	1461	C	PHE	A	235	1925	1781	2035	-57	-24	133	C
ATOM	1462	O	PHE	A	235	3.242	17.896	17.521	1.00	15.21		O
ANISOU	1462	O	PHE	A	235	1906	1814	2060	-79	-46	170	O
ATOM	1463	N	LYS	A	236	3.191	16.762	19.473	1.00	13.15		N
ANISOU	1463	N	LYS	A	236	1711	1500	1784	-51	-38	122	N
ATOM	1464	CA	LYS	A	236	4.441	17.342	19.960	1.00	12.55		C
ANISOU	1464	CA	LYS	A	236	1641	1402	1724	-71	-90	150	C
ATOM	1465	CB	LYS	A	236	4.280	17.816	21.416	1.00	14.67		C
ANISOU	1465	CB	LYS	A	236	1982	1605	1986	-56	-123	132	C
ATOM	1466	CG	LYS	A	236	3.210	18.901	21.602	1.00	12.46		C
ANISOU	1466	CG	LYS	A	236	1741	1293	1700	-44	-134	123	C
ATOM	1467	CD	LYS	A	236	3.510	20.145	20.770	1.00	14.52		C
ANISOU	1467	CD	LYS	A	236	1979	1554	1985	-73	-175	160	C
ATOM	1468	CE	LYS	A	236	2.441	21.229	20.964	1.00	17.40		C
ANISOU	1468	CE	LYS	A	236	2386	1882	2342	-56	-192	147	C
ATOM	1469	NZ	LYS	A	236	2.679	22.482	20.166	1.00	14.57		N
ANISOU	1469	NZ	LYS	A	236	2013	1516	2008	-85	-238	186	N
ATOM	1470	C	LYS	A	236	5.663	16.430	19.850	1.00	14.47		C
ANISOU	1470	C	LYS	A	236	1849	1677	1974	-77	-91	159	C
ATOM	1471	O	LYS	A	236	6.777	16.909	19.647	1.00	17.12		O
ANISOU	1471	O	LYS	A	236	2154	2021	2330	-102	-127	194	O
ATOM	1472	N	ALA	A	237	5.461	15.123	19.992	1.00	13.59		N
ANISOU	1472	N	ALA	A	237	1738	1580	1846	-55	-54	130	N
ATOM	1473	CA	ALA	A	237	6.581	14.196	20.030	1.00	12.58		C
ANISOU	1473	CA	ALA	A	237	1584	1475	1720	-53	-58	131	C
ATOM	1474	CB	ALA	A	237	7.346	14.354	21.360	1.00	13.45		C
ANISOU	1474	CB	ALA	A	237	1739	1535	1836	-53	-103	130	C
ATOM	1475	C	ALA	A	237	6.084	12.767	19.901	1.00	15.37		C
ANISOU	1475	C	ALA	A	237	1939	1847	2056	-27	-15	97	C
ATOM	1476	O	ALA	A	237	4.977	12.449	20.317	1.00	13.98		O
ANISOU	1476	O	ALA	A	237	1798	1645	1867	-14	11	72	O
ATOM	1477	N	ILE	A	238	6.907	11.907	19.320	1.00	13.08		N
ANISOU	1477	N	ILE	A	238	1606	1598	1764	-19	-10	98	N
ATOM	1478	CA	ILE	A	238	6.621	10.474	19.336	1.00	13.06		C
ANISOU	1478	CA	ILE	A	238	1612	1603	1748	6	17	64	C
ATOM	1479	CB	ILE	A	238	6.055	9.966	17.976	1.00	14.60		C
ANISOU	1479	CB	ILE	A	238	1764	1847	1936	18	49	54	C
ATOM	1480	CG1	ILE	A	238	5.643	8.490	18.074	1.00	13.83		C
ANISOU	1480	CG1	ILE	A	238	1683	1741	1829	43	67	16	C
ATOM	1481	CD1	ILE	A	238	4.745	8.014	16.898	1.00	12.08		C
ANISOU	1481	CD1	ILE	A	238	1435	1551	1603	56	93	-2	C
ATOM	1482	CG2	ILE	A	238	7.050	10.218	16.830	1.00	15.34		C
ANISOU	1482	CG2	ILE	A	238	1793	2007	2029	19	43	81	C
ATOM	1483	C	ILE	A	238	7.897	9.743	19.735	1.00	13.91		C
ANISOU	1483	C	ILE	A	238	1713	1716	1856	18	-7	62	C
ATOM	1484	O	ILE	A	238	8.983	10.027	19.214	1.00	16.16		O
ANISOU	1484	O	ILE	A	238	1948	2041	2150	12	-25	87	O
ATOM	1485	N	HIS	A	239	7.765	8.842	20.702	1.00	15.39		N
ANISOU	1485	N	HIS	A	239	1950	1864	2035	34	-7	36	N

ATOM	1486	CA	HIS	A	239	8.900	8.118	21.254	1.00	17.47		C
ANISOU	1486	CA	HIS	A	239	2219	2123	2298	49	-34	29	C
ATOM	1487	CB	HIS	A	239	8.974	8.326	22.776	1.00	15.19		C
ANISOU	1487	CB	HIS	A	239	1998	1769	2004	48	-60	25	C
ATOM	1488	CG	HIS	A	239	9.301	9.732	23.183	1.00	16.75		C
ANISOU	1488	CG	HIS	A	239	2202	1947	2216	26	-94	51	C
ATOM	1489	ND1	HIS	A	239	10.586	10.225	23.185	1.00	20.55		N
ANISOU	1489	ND1	HIS	A	239	2650	2441	2718	15	-138	73	N
ATOM	1490	CE1	HIS	A	239	10.575	11.488	23.567	1.00	19.66		C
ANISOU	1490	CE1	HIS	A	239	2553	2297	2619	-7	-170	93	C
ATOM	1491	NE2	HIS	A	239	9.325	11.835	23.818	1.00	18.91		N
ANISOU	1491	NE2	HIS	A	239	2503	2175	2509	-4	-145	82	N
ATOM	1492	CD2	HIS	A	239	8.507	10.755	23.586	1.00	19.10		C
ANISOU	1492	CD2	HIS	A	239	2534	2212	2512	14	-95	57	C
ATOM	1493	C	HIS	A	239	8.774	6.622	20.947	1.00	20.05		C
ANISOU	1493	C	HIS	A	239	2546	2461	2611	77	-16	-2	C
ATOM	1494	O	HIS	A	239	7.862	5.961	21.440	1.00	18.37		O
ANISOU	1494	O	HIS	A	239	2379	2212	2391	82	3	-22	O
ATOM	1495	N	PHE	A	240	9.688	6.102	20.132	1.00	15.65		N
ANISOU	1495	N	PHE	A	240	1937	1956	2053	96	-23	-3	N
ATOM	1496	CA	PHE	A	240	9.749	4.673	19.857	1.00	15.16		C
ANISOU	1496	CA	PHE	A	240	1878	1902	1979	129	-19	-36	C
ATOM	1497	CB	PHE	A	240	10.203	4.422	18.420	1.00	15.95		C
ANISOU	1497	CB	PHE	A	240	1910	2078	2071	153	-10	-37	C
ATOM	1498	CG	PHE	A	240	9.168	4.781	17.383	1.00	16.99		C
ANISOU	1498	CG	PHE	A	240	2021	2235	2200	146	20	-35	C
ATOM	1499	CD1	PHE	A	240	8.266	3.833	16.936	1.00	19.48		C
ANISOU	1499	CD1	PHE	A	240	2353	2541	2509	164	34	-68	C
ATOM	1500	CE1	PHE	A	240	7.311	4.152	15.984	1.00	17.17		C
ANISOU	1500	CE1	PHE	A	240	2040	2269	2213	160	56	-70	C
ATOM	1501	CZ	PHE	A	240	7.250	5.436	15.477	1.00	15.48		C
ANISOU	1501	CZ	PHE	A	240	1794	2086	2002	138	68	-37	C
ATOM	1502	CE2	PHE	A	240	8.143	6.395	15.907	1.00	16.18		C
ANISOU	1502	CE2	PHE	A	240	1868	2182	2099	117	54	0	C
ATOM	1503	CD2	PHE	A	240	9.102	6.063	16.862	1.00	17.66		C
ANISOU	1503	CD2	PHE	A	240	2071	2347	2290	120	30	0	C
ATOM	1504	C	PHE	A	240	10.725	4.013	20.823	1.00	18.12		C
ANISOU	1504	C	PHE	A	240	2282	2250	2351	147	-53	-47	C
ATOM	1505	O	PHE	A	240	11.864	4.463	20.957	1.00	17.49		O
ANISOU	1505	O	PHE	A	240	2173	2191	2281	147	-81	-29	O
ATOM	1506	N	ILE	A	241	10.279	2.959	21.506	1.00	17.15		N
ANISOU	1506	N	ILE	A	241	2217	2079	2220	161	-54	-73	N
ATOM	1507	CA	ILE	A	241	11.161	2.214	22.401	1.00	18.37		C
ANISOU	1507	CA	ILE	A	241	2406	2204	2369	183	-88	-86	C
ATOM	1508	CB	ILE	A	241	10.716	2.309	23.881	1.00	21.50		C
ANISOU	1508	CB	ILE	A	241	2882	2527	2759	170	-94	-82	C
ATOM	1509	CG1	ILE	A	241	9.312	1.731	24.064	1.00	21.66		C
ANISOU	1509	CG1	ILE	A	241	2947	2510	2772	161	-58	-91	C
ATOM	1510	CD1	ILE	A	241	8.789	1.823	25.495	1.00	22.79		C
ANISOU	1510	CD1	ILE	A	241	3168	2590	2903	151	-53	-83	C
ATOM	1511	CG2	ILE	A	241	10.763	3.757	24.375	1.00	17.64		C
ANISOU	1511	CG2	ILE	A	241	2397	2029	2278	143	-101	-55	C
ATOM	1512	C	ILE	A	241	11.264	0.748	21.983	1.00	19.33		C
ANISOU	1512	C	ILE	A	241	2533	2331	2482	220	-94	-119	C
ATOM	1513	O	ILE	A	241	10.315	0.175	21.443	1.00	16.67		O
ANISOU	1513	O	ILE	A	241	2202	1989	2143	221	-72	-134	O
ATOM	1514	N	HIS	A	242	12.438	0.169	22.207	1.00	22.83		N
ANISOU	1514	N	HIS	A	242	2971	2783	2921	251	-130	-131	N
ATOM	1515	CA	HIS	A	242	12.674	-1.262	22.002	1.00	24.31		C
ANISOU	1515	CA	HIS	A	242	3175	2964	3097	293	-149	-166	C
ATOM	1516	CB	HIS	A	242	11.777	-2.104	22.923	1.00	22.48		C
ANISOU	1516	CB	HIS	A	242	3027	2653	2861	285	-148	-178	C
ATOM	1517	CG	HIS	A	242	11.917	-1.789	24.383	1.00	26.13		C
ANISOU	1517	CG	HIS	A	242	3551	3058	3319	269	-161	-162	C
ATOM	1518	ND1	HIS	A	242	13.133	-1.777	25.031	1.00	29.41		N
ANISOU	1518	ND1	HIS	A	242	3973	3470	3731	290	-203	-164	N
ATOM	1519	CE1	HIS	A	242	12.950	-1.473	26.305	1.00	26.58		C
ANISOU	1519	CE1	HIS	A	242	3679	3055	3364	274	-210	-151	C
ATOM	1520	NE2	HIS	A	242	11.656	-1.304	26.510	1.00	23.50		N
ANISOU	1520	NE2	HIS	A	242	3322	2635	2971	246	-169	-139	N

ATOM	1521	CD2	HIS	A	242	10.987	-1.496	25.326	1.00	24.84	C	
ANISOU	1521	CD2	HIS	A	242	3446	2841	3151	239	-139	-145	C
ATOM	1522	C	HIS	A	242	12.468	-1.726	20.561	1.00	23.69	C	
ANISOU	1522	C	HIS	A	242	3046	2942	3013	320	-134	-185	C
ATOM	1523	O	HIS	A	242	12.144	-2.892	20.331	1.00	20.51	O	
ANISOU	1523	O	HIS	A	242	2671	2518	2604	347	-145	-217	O
ATOM	1524	N	GLN	A	243	12.650	-0.836	19.588	1.00	21.52	N	
ANISOU	1524	N	GLN	A	243	2702	2735	2739	314	-114	-166	N
ATOM	1525	CA	GLN	A	243	12.409	-1.218	18.199	1.00	18.86	C	
ANISOU	1525	CA	GLN	A	243	2322	2453	2389	344	-99	-184	C
ATOM	1526	CB	GLN	A	243	12.266	0.013	17.296	1.00	21.75	C	
ANISOU	1526	CB	GLN	A	243	2627	2881	2757	321	-67	-151	C
ATOM	1527	CG	GLN	A	243	13.581	0.674	16.880	1.00	20.94	C	
ANISOU	1527	CG	GLN	A	243	2453	2853	2652	332	-71	-123	C
ATOM	1528	CD	GLN	A	243	14.313	1.340	18.032	1.00	24.33	C	
ANISOU	1528	CD	GLN	A	243	2890	3252	3102	302	-93	-97	C
ATOM	1529	OE1	GLN	A	243	13.716	1.678	19.061	1.00	21.17	O	
ANISOU	1529	OE1	GLN	A	243	2547	2781	2714	266	-98	-91	O
ATOM	1530	NE2	GLN	A	243	15.616	1.537	17.862	1.00	23.78	N	
ANISOU	1530	NE2	GLN	A	243	2762	3237	3036	319	-109	-80	N
ATOM	1531	C	GLN	A	243	13.528	-2.134	17.706	1.00	20.46	C	
ANISOU	1531	C	GLN	A	243	2497	2702	2575	406	-127	-212	C
ATOM	1532	O	GLN	A	243	14.687	-1.949	18.072	1.00	22.25	O	
ANISOU	1532	O	GLN	A	243	2697	2953	2803	419	-146	-202	O
ATOM	1533	N	PRO	A	244	13.180	-3.133	16.884	1.00	22.99	N	
ANISOU	1533	N	PRO	A	244	2822	3033	2880	449	-133	-250	N
ATOM	1534	CA	PRO	A	244	14.170	-4.077	16.345	1.00	23.85	C	
ANISOU	1534	CA	PRO	A	244	2908	3187	2966	521	-162	-284	C
ATOM	1535	CB	PRO	A	244	13.307	-5.239	15.845	1.00	24.38	C	
ANISOU	1535	CB	PRO	A	244	3020	3219	3026	550	-179	-329	C
ATOM	1536	CG	PRO	A	244	12.005	-4.617	15.487	1.00	24.67	C	
ANISOU	1536	CG	PRO	A	244	3059	3239	3075	503	-145	-313	C
ATOM	1537	CD	PRO	A	244	11.813	-3.429	16.420	1.00	22.34	C	
ANISOU	1537	CD	PRO	A	244	2768	2919	2801	435	-119	-265	C
ATOM	1538	C	PRO	A	244	14.978	-3.481	15.191	1.00	26.19	C	
ANISOU	1538	C	PRO	A	244	3116	3592	3242	552	-140	-268	C
ATOM	1539	O	PRO	A	244	14.647	-2.399	14.704	1.00	21.11	O	
ANISOU	1539	O	PRO	A	244	2433	2984	2602	516	-105	-232	O
ATOM	1540	N	TRP	A	245	16.020	-4.185	14.750	1.00	24.42	N	
ANISOU	1540	N	TRP	A	245	2861	3423	2996	621	-162	-294	N
ATOM	1541	CA	TRP	A	245	16.901	-3.670	13.699	1.00	25.61	C	
ANISOU	1541	CA	TRP	A	245	2921	3687	3123	656	-137	-274	C
ATOM	1542	CB	TRP	A	245	18.057	-4.644	13.416	1.00	24.22	C	
ANISOU	1542	CB	TRP	A	245	2719	3563	2921	742	-166	-310	C
ATOM	1543	CG	TRP	A	245	17.649	-5.926	12.737	1.00	25.38	C	
ANISOU	1543	CG	TRP	A	245	2905	3702	3037	813	-192	-373	C
ATOM	1544	CD1	TRP	A	245	17.326	-7.110	13.339	1.00	28.90	C	
ANISOU	1544	CD1	TRP	A	245	3430	4062	3488	834	-240	-421	C
ATOM	1545	NE1	TRP	A	245	17.014	-8.056	12.388	1.00	30.85	N	
ANISOU	1545	NE1	TRP	A	245	3695	4324	3704	903	-260	-472	N
ATOM	1546	CE2	TRP	A	245	17.138	-7.494	11.146	1.00	31.30	C	
ANISOU	1546	CE2	TRP	A	245	3683	4480	3728	934	-222	-459	C
ATOM	1547	CD2	TRP	A	245	17.539	-6.153	11.324	1.00	27.61	C	
ANISOU	1547	CD2	TRP	A	245	3153	4061	3277	876	-176	-393	C
ATOM	1548	CE3	TRP	A	245	17.736	-5.351	10.195	1.00	29.69	C	
ANISOU	1548	CE3	TRP	A	245	3341	4427	3512	889	-129	-361	C
ATOM	1549	CZ3	TRP	A	245	17.528	-5.907	8.937	1.00	32.13	C	
ANISOU	1549	CZ3	TRP	A	245	3643	4791	3774	966	-128	-398	C
ATOM	1550	CH2	TRP	A	245	17.131	-7.244	8.793	1.00	31.82	C	
ANISOU	1550	CH2	TRP	A	245	3670	4702	3719	1027	-179	-469	C
ATOM	1551	CZ2	TRP	A	245	16.930	-8.051	9.881	1.00	33.09	C	
ANISOU	1551	CZ2	TRP	A	245	3903	4758	3913	1009	-227	-499	C
ATOM	1552	C	TRP	A	245	16.172	-3.312	12.402	1.00	21.94	C	
ANISOU	1552	C	TRP	A	245	2428	3274	2635	665	-102	-269	C
ATOM	1553	O	TRP	A	245	16.517	-2.332	11.744	1.00	24.35	O	
ANISOU	1553	O	TRP	A	245	2665	3655	2933	652	-66	-225	O
ATOM	1554	N	TYR	A	246	15.159	-4.089	12.036	1.00	24.28	N	
ANISOU	1554	N	TYR	A	246	2777	3527	2923	683	-115	-311	N
ATOM	1555	CA	TYR	A	246	14.469	-3.846	10.766	1.00	27.99	C	
ANISOU	1555	CA	TYR	A	246	3225	4044	3368	701	-89	-314	C

ATOM	1556	CB	TYR	A	246	13.790	-5.121	10.245	1.00	28.49	C	
ANISOU	1556	CB	TYR	A	246	3340	4072	3414	756	-125	-379	C
ATOM	1557	CG	TYR	A	246	13.104	-5.932	11.314	1.00	26.26	C	
ANISOU	1557	CG	TYR	A	246	3137	3673	3166	725	-162	-405	C
ATOM	1558	CD1	TYR	A	246	11.777	-5.692	11.653	1.00	23.98	C	
ANISOU	1558	CD1	TYR	A	246	2890	3312	2909	661	-154	-396	C
ATOM	1559	CE1	TYR	A	246	11.146	-6.432	12.635	1.00	24.96	C	
ANISOU	1559	CE1	TYR	A	246	3084	3334	3064	630	-182	-412	C
ATOM	1560	CZ	TYR	A	246	11.849	-7.426	13.297	1.00	30.82	C	
ANISOU	1560	CZ	TYR	A	246	3862	4041	3805	663	-224	-439	C
ATOM	1561	OH	TYR	A	246	11.235	-8.169	14.277	1.00	29.95	O	
ANISOU	1561	OH	TYR	A	246	3825	3830	3725	631	-252	-448	O
ATOM	1562	CE2	TYR	A	246	13.171	-7.682	12.975	1.00	30.72	C	
ANISOU	1562	CE2	TYR	A	246	3813	4096	3762	730	-238	-453	C
ATOM	1563	CD2	TYR	A	246	13.788	-6.937	11.992	1.00	30.06	C	
ANISOU	1563	CD2	TYR	A	246	3653	4119	3648	760	-205	-436	C
ATOM	1564	C	TYR	A	246	13.481	-2.679	10.819	1.00	27.71	C	
ANISOU	1564	C	TYR	A	246	3190	3984	3356	624	-55	-272	C
ATOM	1565	O	TYR	A	246	12.771	-2.419	9.852	1.00	24.10	O	
ANISOU	1565	O	TYR	A	246	2721	3553	2881	631	-37	-273	O
ATOM	1566	N	PHE	A	247	13.436	-1.978	11.947	1.00	22.69	N	
ANISOU	1566	N	PHE	A	247	2569	3296	2755	555	-50	-237	N
ATOM	1567	CA	PHE	A	247	12.617	-0.776	12.043	1.00	24.06	C	
ANISOU	1567	CA	PHE	A	247	2741	3452	2950	488	-21	-196	C
ATOM	1568	CB	PHE	A	247	12.634	-0.226	13.467	1.00	19.01	C	
ANISOU	1568	CB	PHE	A	247	2133	2744	2346	426	-27	-169	C
ATOM	1569	CG	PHE	A	247	11.865	1.060	13.635	1.00	21.89	C	
ANISOU	1569	CG	PHE	A	247	2498	3089	2731	362	-2	-129	C
ATOM	1570	CD1	PHE	A	247	10.488	1.044	13.802	1.00	21.87	C	
ANISOU	1570	CD1	PHE	A	247	2542	3028	2741	334	7	-142	C
ATOM	1571	CE1	PHE	A	247	9.777	2.226	13.964	1.00	22.63	C	
ANISOU	1571	CE1	PHE	A	247	2638	3106	2853	282	28	-109	C
ATOM	1572	CZ	PHE	A	247	10.440	3.433	13.966	1.00	19.69	C	
ANISOU	1572	CZ	PHE	A	247	2226	2769	2487	255	36	-61	C
ATOM	1573	CE2	PHE	A	247	11.818	3.463	13.807	1.00	24.43	C	
ANISOU	1573	CE2	PHE	A	247	2778	3425	3080	275	27	-44	C
ATOM	1574	CD2	PHE	A	247	12.523	2.280	13.645	1.00	22.41	C	
ANISOU	1574	CD2	PHE	A	247	2516	3192	2806	330	10	-78	C
ATOM	1575	C	PHE	A	247	13.166	0.271	11.088	1.00	25.41	C	
ANISOU	1575	C	PHE	A	247	2836	3715	3102	489	12	-151	C
ATOM	1576	O	PHE	A	247	12.444	1.156	10.627	1.00	26.25	O	
ANISOU	1576	O	PHE	A	247	2932	3829	3212	455	37	-124	O
ATOM	1577	N	THR	A	248	14.455	0.154	10.790	1.00	24.45	N	
ANISOU	1577	N	THR	A	248	2659	3667	2963	529	12	-140	N
ATOM	1578	CA	THR	A	248	15.140	1.120	9.943	1.00	24.86	C	
ANISOU	1578	CA	THR	A	248	2632	3814	3000	528	45	-87	C
ATOM	1579	CB	THR	A	248	16.639	0.774	9.816	1.00	32.59	C	
ANISOU	1579	CB	THR	A	248	3549	4870	3964	577	41	-80	C
ATOM	1580	OG1	THR	A	248	17.290	1.064	11.060	1.00	34.22	O	
ANISOU	1580	OG1	THR	A	248	3759	5032	4212	534	18	-60	O
ATOM	1581	CG2	THR	A	248	17.295	1.581	8.706	1.00	35.56	C	
ANISOU	1581	CG2	THR	A	248	3837	5359	4314	589	82	-26	C
ATOM	1582	C	THR	A	248	14.492	1.225	8.565	1.00	24.66	C	
ANISOU	1582	C	THR	A	248	2591	3843	2936	560	72	-91	C
ATOM	1583	O	THR	A	248	14.312	2.322	8.040	1.00	26.31	O	
ANISOU	1583	O	THR	A	248	2766	4088	3144	525	102	-42	O
ATOM	1584	N	THR	A	249	14.127	0.083	7.992	1.00	28.34	N	
ANISOU	1584	N	THR	A	249	3086	4311	3371	626	56	-151	N
ATOM	1585	CA	THR	A	249	13.461	0.061	6.691	1.00	31.29	C	
ANISOU	1585	CA	THR	A	249	3455	4729	3705	665	72	-165	C
ATOM	1586	CB	THR	A	249	13.263	-1.377	6.186	1.00	34.84	C	
ANISOU	1586	CB	THR	A	249	3941	5173	4122	749	38	-239	C
ATOM	1587	OG1	THR	A	249	14.540	-1.981	5.946	1.00	42.01	O	
ANISOU	1587	OG1	THR	A	249	4810	6154	4998	820	34	-251	O
ATOM	1588	CG2	THR	A	249	12.457	-1.381	4.898	1.00	39.95	C	
ANISOU	1588	CG2	THR	A	249	4593	5855	4731	788	46	-258	C
ATOM	1589	C	THR	A	249	12.103	0.757	6.745	1.00	29.31	C	
ANISOU	1589	C	THR	A	249	3240	4417	3480	604	79	-154	C
ATOM	1590	O	THR	A	249	11.763	1.547	5.864	1.00	27.92	O	
ANISOU	1590	O	THR	A	249	3038	4287	3284	599	107	-124	O

ATOM	1591	N	THR	A	250	11.330	0.446	7.781	1.00	23.36		N
ANISOU	1591	N	THR	A	250	2546	3562	2766	561	56	-177	N
ATOM	1592	CA	THR	A	250	10.026	1.062	7.998	1.00	21.52		C
ANISOU	1592	CA	THR	A	250	2347	3268	2563	503	63	-169	C
ATOM	1593	CB	THR	A	250	9.367	0.507	9.282	1.00	27.12		C
ANISOU	1593	CB	THR	A	250	3119	3872	3314	464	39	-194	C
ATOM	1594	OG1	THR	A	250	9.291	-0.922	9.202	1.00	32.51		O
ANISOU	1594	OG1	THR	A	250	3836	4529	3988	515	5	-252	O
ATOM	1595	CG2	THR	A	250	7.971	1.074	9.452	1.00	26.43		C
ANISOU	1595	CG2	THR	A	250	3060	3729	3254	413	49	-188	C
ATOM	1596	C	THR	A	250	10.150	2.583	8.122	1.00	26.80		C
ANISOU	1596	C	THR	A	250	2982	3956	3246	443	92	-102	C
ATOM	1597	O	THR	A	250	9.380	3.337	7.523	1.00	24.88		O
ANISOU	1597	O	THR	A	250	2733	3720	2999	424	109	-85	O
ATOM	1598	N	TYR	A	251	11.127	3.029	8.902	1.00	22.49		N
ANISOU	1598	N	TYR	A	251	2413	3414	2717	415	93	-67	N
ATOM	1599	CA	TYR	A	251	11.385	4.453	9.066	1.00	23.17		C
ANISOU	1599	CA	TYR	A	251	2467	3514	2822	358	110	-2	C
ATOM	1600	CB	TYR	A	251	12.496	4.665	10.090	1.00	24.09		C
ANISOU	1600	CB	TYR	A	251	2568	3620	2965	333	96	24	C
ATOM	1601	CG	TYR	A	251	12.927	6.106	10.255	1.00	32.24		C
ANISOU	1601	CG	TYR	A	251	3564	4665	4021	275	104	92	C
ATOM	1602	CD1	TYR	A	251	12.450	6.877	11.307	1.00	33.74		C
ANISOU	1602	CD1	TYR	A	251	3794	4777	4249	215	88	107	C
ATOM	1603	CE1	TYR	A	251	12.845	8.195	11.469	1.00	40.82		C
ANISOU	1603	CE1	TYR	A	251	4663	5677	5171	163	85	167	C
ATOM	1604	CZ	TYR	A	251	13.732	8.758	10.569	1.00	49.24		C
ANISOU	1604	CZ	TYR	A	251	5655	6827	6228	164	101	220	C
ATOM	1605	OH	TYR	A	251	14.128	10.068	10.726	1.00	52.39		O
ANISOU	1605	OH	TYR	A	251	6025	7222	6657	107	92	284	O
ATOM	1606	CE2	TYR	A	251	14.224	8.011	9.514	1.00	43.54		C
ANISOU	1606	CE2	TYR	A	251	4887	6192	5465	224	126	210	C
ATOM	1607	CD2	TYR	A	251	13.823	6.692	9.366	1.00	39.99		C
ANISOU	1607	CD2	TYR	A	251	4470	5736	4986	282	125	143	C
ATOM	1608	C	TYR	A	251	11.773	5.100	7.739	1.00	23.97		C
ANISOU	1608	C	TYR	A	251	2507	3710	2889	379	140	38	C
ATOM	1609	O	TYR	A	251	11.325	6.206	7.414	1.00	21.68		O
ANISOU	1609	O	TYR	A	251	2208	3424	2605	339	156	79	O
ATOM	1610	N	ASN	A	252	12.613	4.410	6.977	1.00	22.33		N
ANISOU	1610	N	ASN	A	252	2259	3582	2642	444	147	27	N
ATOM	1611	CA	ASN	A	252	13.055	4.926	5.690	1.00	27.40		C
ANISOU	1611	CA	ASN	A	252	2842	4326	3243	473	181	67	C
ATOM	1612	CB	ASN	A	252	14.127	4.019	5.076	1.00	27.91		C
ANISOU	1612	CB	ASN	A	252	2863	4478	3263	555	187	49	C
ATOM	1613	CG	ASN	A	252	15.487	4.200	5.724	1.00	30.08		C
ANISOU	1613	CG	ASN	A	252	3085	4784	3561	539	187	87	C
ATOM	1614	OD1	ASN	A	252	15.726	5.176	6.438	1.00	30.68		O
ANISOU	1614	OD1	ASN	A	252	3146	4829	3681	465	185	139	O
ATOM	1615	ND2	ASN	A	252	16.389	3.259	5.470	1.00	33.10		N
ANISOU	1615	ND2	ASN	A	252	3438	5227	3913	611	184	60	N
ATOM	1616	C	ASN	A	252	11.898	5.115	4.713	1.00	27.38		C
ANISOU	1616	C	ASN	A	252	2864	4327	3213	488	191	53	C
ATOM	1617	O	ASN	A	252	11.918	6.032	3.896	1.00	22.96		O
ANISOU	1617	O	ASN	A	252	2269	3821	2633	478	219	104	O
ATOM	1618	N	VAL	A	253	10.892	4.248	4.802	1.00	24.27		N
ANISOU	1618	N	VAL	A	253	2528	3873	2821	510	167	-13	N
ATOM	1619	CA	VAL	A	253	9.724	4.337	3.925	1.00	23.48		C
ANISOU	1619	CA	VAL	A	253	2454	3767	2702	525	169	-34	C
ATOM	1620	CB	VAL	A	253	8.823	3.081	4.050	1.00	26.63		C
ANISOU	1620	CB	VAL	A	253	2910	4102	3106	558	133	-113	C
ATOM	1621	CG1	VAL	A	253	7.421	3.355	3.501	1.00	26.20		C
ANISOU	1621	CG1	VAL	A	253	2886	4015	3056	549	127	-131	C
ATOM	1622	CG2	VAL	A	253	9.464	1.892	3.348	1.00	30.23		C
ANISOU	1622	CG2	VAL	A	253	3359	4613	3515	649	119	-158	C
ATOM	1623	C	VAL	A	253	8.899	5.602	4.194	1.00	22.31		C
ANISOU	1623	C	VAL	A	253	2317	3574	2586	452	178	6	C
ATOM	1624	O	VAL	A	253	8.357	6.207	3.272	1.00	24.56		O
ANISOU	1624	O	VAL	A	253	2595	3888	2847	458	191	23	O
ATOM	1625	N	VAL	A	254	8.825	6.005	5.458	1.00	18.85		N
ANISOU	1625	N	VAL	A	254	1898	3065	2197	388	168	21	N

ATOM	1626	CA	VAL	A	254	7.999	7.134	5.865	1.00	18.42		C
ANISOU	1626	CA	VAL	A	254	1864	2959	2176	325	170	50	C
ATOM	1627	CB	VAL	A	254	7.558	6.965	7.337	1.00	25.63		C
ANISOU	1627	CB	VAL	A	254	2824	3778	3137	281	150	28	C
ATOM	1628	CG1	VAL	A	254	6.663	8.101	7.758	1.00	32.78		C
ANISOU	1628	CG1	VAL	A	254	3752	4632	4072	225	151	52	C
ATOM	1629	CG2	VAL	A	254	6.848	5.634	7.520	1.00	31.80		C
ANISOU	1629	CG2	VAL	A	254	3645	4515	3921	313	133	-39	C
ATOM	1630	C	VAL	A	254	8.744	8.462	5.720	1.00	18.42		C
ANISOU	1630	C	VAL	A	254	1819	2999	2179	285	187	126	C
ATOM	1631	O	VAL	A	254	8.142	9.516	5.519	1.00	22.20		O
ANISOU	1631	O	VAL	A	254	2305	3463	2667	249	191	158	O
ATOM	1632	N	LYS	A	255	10.065	8.399	5.825	1.00	22.88		N
ANISOU	1632	N	LYS	A	255	2340	3614	2740	291	193	157	N
ATOM	1633	CA	LYS	A	255	10.900	9.599	5.872	1.00	21.55		C
ANISOU	1633	CA	LYS	A	255	2126	3476	2587	244	202	235	C
ATOM	1634	CB	LYS	A	255	12.378	9.201	5.826	1.00	35.02		C
ANISOU	1634	CB	LYS	A	255	3771	5251	4283	268	210	258	C
ATOM	1635	CG	LYS	A	255	13.347	10.326	6.130	1.00	50.56		C
ANISOU	1635	CG	LYS	A	255	5689	7238	6283	210	210	337	C
ATOM	1636	CD	LYS	A	255	14.776	9.890	5.840	1.00	61.14		C
ANISOU	1636	CD	LYS	A	255	6957	8666	7609	243	225	362	C
ATOM	1637	CE	LYS	A	255	15.697	11.086	5.652	1.00	67.44		C
ANISOU	1637	CE	LYS	A	255	7685	9509	8430	189	235	457	C
ATOM	1638	NZ	LYS	A	255	16.978	10.698	4.993	1.00	70.38		N
ANISOU	1638	NZ	LYS	A	255	7971	9994	8774	232	264	489	N
ATOM	1639	C	LYS	A	255	10.593	10.652	4.793	1.00	22.22		C
ANISOU	1639	C	LYS	A	255	2188	3604	2650	232	223	287	C
ATOM	1640	O	LYS	A	255	10.479	11.832	5.104	1.00	22.96		O
ANISOU	1640	O	LYS	A	255	2284	3666	2774	172	215	335	O
ATOM	1641	N	PRO	A	256	10.455	10.235	3.521	1.00	20.39		N
ANISOU	1641	N	PRO	A	256	2037	2969	2741	-235	549	296	N
ATOM	1642	CA	PRO	A	256	10.274	11.250	2.468	1.00	22.40		C
ANISOU	1642	CA	PRO	A	256	2380	3193	2937	-281	579	320	C
ATOM	1643	CB	PRO	A	256	10.235	10.417	1.180	1.00	24.11		C
ANISOU	1643	CB	PRO	A	256	2590	3445	3123	-197	638	307	C
ATOM	1644	CG	PRO	A	256	10.954	9.159	1.520	1.00	19.68		C
ANISOU	1644	CG	PRO	A	256	1899	2971	2609	-144	652	291	C
ATOM	1645	CD	PRO	A	256	10.583	8.880	2.956	1.00	16.89		C
ANISOU	1645	CD	PRO	A	256	1528	2582	2307	-137	582	270	C
ATOM	1646	C	PRO	A	256	8.980	12.047	2.614	1.00	18.98		C
ANISOU	1646	C	PRO	A	256	2079	2647	2484	-283	522	298	C
ATOM	1647	O	PRO	A	256	8.854	13.134	2.052	1.00	24.00		O
ANISOU	1647	O	PRO	A	256	2801	3242	3076	-343	520	320	O
ATOM	1648	N	PHE	A	257	8.029	11.505	3.365	1.00	18.80		N
ANISOU	1648	N	PHE	A	257	2073	2575	2494	-219	475	253	N
ATOM	1649	CA	PHE	A	257	6.729	12.143	3.531	1.00	20.24		C
ANISOU	1649	CA	PHE	A	257	2369	2653	2669	-210	421	215	C
ATOM	1650	CB	PHE	A	257	5.628	11.081	3.609	1.00	22.91		C
ANISOU	1650	CB	PHE	A	257	2717	2950	3039	-99	409	156	C
ATOM	1651	CG	PHE	A	257	5.554	10.214	2.388	1.00	19.53		C
ANISOU	1651	CG	PHE	A	257	2282	2541	2598	-11	452	144	C
ATOM	1652	CD1	PHE	A	257	5.123	10.742	1.183	1.00	22.77		C
ANISOU	1652	CD1	PHE	A	257	2788	2902	2963	5	459	136	C
ATOM	1653	CE1	PHE	A	257	5.069	9.954	0.046	1.00	25.97		C
ANISOU	1653	CE1	PHE	A	257	3193	3322	3351	93	496	125	C
ATOM	1654	CZ	PHE	A	257	5.458	8.633	0.105	1.00	27.30		C
ANISOU	1654	CZ	PHE	A	257	3259	3561	3553	165	521	121	C
ATOM	1655	CE2	PHE	A	257	5.900	8.097	1.300	1.00	26.51		C
ANISOU	1655	CE2	PHE	A	257	3063	3511	3499	146	510	127	C
ATOM	1656	CD2	PHE	A	257	5.951	8.891	2.433	1.00	27.11		C
ANISOU	1656	CD2	PHE	A	257	3146	3567	3587	59	477	140	C
ATOM	1657	C	PHE	A	257	6.666	13.069	4.742	1.00	25.30		C
ANISOU	1657	C	PHE	A	257	3030	3259	3324	-287	362	221	C
ATOM	1658	O	PHE	A	257	5.655	13.728	4.966	1.00	26.26		O
ANISOU	1658	O	PHE	A	257	3240	3297	3440	-289	311	186	O
ATOM	1659	N	LEU	A	258	7.753	13.123	5.508	1.00	24.39		N
ANISOU	1659	N	LEU	A	258	2831	3205	3230	-345	363	260	N
ATOM	1660	CA	LEU	A	258	7.799	13.926	6.730	1.00	24.09		C
ANISOU	1660	CA	LEU	A	258	2806	3139	3210	-409	301	267	C

ATOM	1661	CB	LEU	A	258	8.596	13.187	7.809	1.00	23.12		C
ANISOU	1661	CB	LEU	A	258	2583	3070	3130	-405	296	276	C
ATOM	1662	CG	LEU	A	258	8.122	11.774	8.141	1.00	31.87		C
ANISOU	1662	CG	LEU	A	258	3658	4188	4263	-311	308	237	C
ATOM	1663	CD1	LEU	A	258	9.032	11.121	9.178	1.00	34.32		C
ANISOU	1663	CD1	LEU	A	258	3882	4547	4610	-315	291	248	C
ATOM	1664	CD2	LEU	A	258	6.690	11.810	8.625	1.00	25.31		C
ANISOU	1664	CD2	LEU	A	258	2910	3276	3432	-271	274	188	C
ATOM	1665	C	LEU	A	258	8.427	15.297	6.504	1.00	24.03		C
ANISOU	1665	C	LEU	A	258	2828	3126	3178	-514	284	314	C
ATOM	1666	O	LEU	A	258	9.567	15.397	6.064	1.00	23.13		O
ANISOU	1666	O	LEU	A	258	2650	3074	3063	-564	326	360	O
ATOM	1667	N	LYS	A	259	7.686	16.354	6.813	1.00	18.79		N
ANISOU	1667	N	LYS	A	259	2257	2386	2498	-549	219	299	N
ATOM	1668	CA	LYS	A	259	8.271	17.689	6.838	1.00	25.66		C
ANISOU	1668	CA	LYS	A	259	3154	3243	3353	-653	181	344	C
ATOM	1669	CB	LYS	A	259	7.188	18.745	7.068	1.00	30.37		C
ANISOU	1669	CB	LYS	A	259	3867	3745	3927	-670	98	309	C
ATOM	1670	CG	LYS	A	259	6.118	18.725	5.985	1.00	39.04		C
ANISOU	1670	CG	LYS	A	259	5063	4782	4988	-619	104	265	C
ATOM	1671	CD	LYS	A	259	5.297	19.997	5.952	1.00	48.85		C
ANISOU	1671	CD	LYS	A	259	6425	5932	6205	-656	15	236	C
ATOM	1672	CE	LYS	A	259	4.132	19.939	6.918	1.00	52.41		C
ANISOU	1672	CE	LYS	A	259	6904	6325	6683	-605	-46	159	C
ATOM	1673	NZ	LYS	A	259	3.036	20.881	6.529	1.00	51.65		N
ANISOU	1673	NZ	LYS	A	259	6932	6129	6564	-606	-125	101	N
ATOM	1674	C	LYS	A	259	9.326	17.746	7.935	1.00	25.55		C
ANISOU	1674	C	LYS	A	259	3050	3276	3384	-700	161	378	C
ATOM	1675	O	LYS	A	259	9.261	16.989	8.904	1.00	20.70		O
ANISOU	1675	O	LYS	A	259	2389	2674	2803	-653	148	353	O
ATOM	1676	N	SER	A	260	10.300	18.640	7.781	1.00	26.70		N
ANISOU	1676	N	SER	A	260	3173	3440	3531	-793	155	433	N
ATOM	1677	CA	SER	A	260	11.421	18.718	8.715	1.00	30.81		C
ANISOU	1677	CA	SER	A	260	3600	4001	4106	-838	133	463	C
ATOM	1678	CB	SER	A	260	12.427	19.776	8.252	1.00	37.17		C
ANISOU	1678	CB	SER	A	260	4388	4822	4915	-947	137	525	C
ATOM	1679	OG	SER	A	260	11.891	21.077	8.407	1.00	41.12		O
ANISOU	1679	OG	SER	A	260	4987	5247	5389	-1002	56	534	O
ATOM	1680	C	SER	A	260	10.974	18.999	10.154	1.00	28.06		C
ANISOU	1680	C	SER	A	260	3277	3603	3779	-826	41	437	C
ATOM	1681	O	SER	A	260	11.564	18.485	11.105	1.00	25.28		O
ANISOU	1681	O	SER	A	260	2856	3278	3472	-810	25	436	O
ATOM	1682	N	LYS	A	261	9.933	19.812	10.308	1.00	29.26		N
ANISOU	1682	N	LYS	A	261	3534	3682	3900	-830	-21	412	N
ATOM	1683	CA	LYS	A	261	9.397	20.138	11.628	1.00	31.81		C
ANISOU	1683	CA	LYS	A	261	3892	3959	4236	-815	-105	381	C
ATOM	1684	CB	LYS	A	261	8.242	21.133	11.507	1.00	41.50		C
ANISOU	1684	CB	LYS	A	261	5234	5108	5424	-824	-171	346	C
ATOM	1685	CG	LYS	A	261	8.603	22.452	10.858	1.00	55.24		C
ANISOU	1685	CG	LYS	A	261	7021	6823	7145	-914	-214	389	C
ATOM	1686	CD	LYS	A	261	7.351	23.283	10.606	1.00	63.51		C
ANISOU	1686	CD	LYS	A	261	8189	7788	8153	-909	-282	339	C
ATOM	1687	CE	LYS	A	261	6.281	22.461	9.897	1.00	64.98		C
ANISOU	1687	CE	LYS	A	261	8416	7955	8317	-828	-229	280	C
ATOM	1688	NZ	LYS	A	261	5.006	23.213	9.749	1.00	65.69		N
ANISOU	1688	NZ	LYS	A	261	8619	7958	8381	-814	-304	213	N
ATOM	1689	C	LYS	A	261	8.905	18.886	12.348	1.00	29.21		C
ANISOU	1689	C	LYS	A	261	3539	3641	3920	-727	-81	336	C
ATOM	1690	O	LYS	A	261	9.042	18.759	13.567	1.00	28.82		O
ANISOU	1690	O	LYS	A	261	3474	3584	3891	-715	-125	327	O
ATOM	1691	N	LEU	A	262	8.326	17.966	11.582	1.00	24.36		N
ANISOU	1691	N	LEU	A	262	2927	3039	3291	-665	-14	308	N
ATOM	1692	CA	LEU	A	262	7.801	16.717	12.124	1.00	21.48		C
ANISOU	1692	CA	LEU	A	262	2543	2682	2939	-583	14	267	C
ATOM	1693	CB	LEU	A	262	6.801	16.103	11.136	1.00	26.32		C
ANISOU	1693	CB	LEU	A	262	3191	3277	3533	-519	65	227	C
ATOM	1694	CG	LEU	A	262	6.392	14.641	11.332	1.00	40.31		C
ANISOU	1694	CG	LEU	A	262	4927	5066	5323	-434	109	194	C
ATOM	1695	CD1	LEU	A	262	5.850	14.396	12.728	1.00	39.09		C
ANISOU	1695	CD1	LEU	A	262	4792	4881	5178	-413	75	162	C

ATOM	1696	CD2	LEU	A	262	5.365	14.243	10.284	1.00	48.26		C
ANISOU	1696	CD2	LEU	A	262	5976	6042	6318	-373	145	153	C
ATOM	1697	C	LEU	A	262	8.914	15.721	12.438	1.00	23.33		C
ANISOU	1697	C	LEU	A	262	2675	2983	3207	-569	46	292	C
ATOM	1698	O	LEU	A	262	8.877	15.035	13.462	1.00	21.18		O
ANISOU	1698	O	LEU	A	262	2388	2710	2951	-532	30	273	O
ATOM	1699	N	LEU	A	263	9.905	15.641	11.556	1.00	21.42		N
ANISOU	1699	N	LEU	A	263	2367	2798	2974	-598	91	330	N
ATOM	1700	CA	LEU	A	263	11.049	14.770	11.787	1.00	24.95		C
ANISOU	1700	CA	LEU	A	263	2708	3310	3461	-587	115	344	C
ATOM	1701	CB	LEU	A	263	12.057	14.865	10.638	1.00	29.22		C
ANISOU	1701	CB	LEU	A	263	3179	3914	4008	-628	175	381	C
ATOM	1702	CG	LEU	A	263	11.880	13.818	9.536	1.00	42.14		C
ANISOU	1702	CG	LEU	A	263	4788	5596	5628	-564	252	365	C
ATOM	1703	CD1	LEU	A	263	12.699	14.174	8.299	1.00	45.15		C
ANISOU	1703	CD1	LEU	A	263	5127	6031	5997	-614	317	401	C
ATOM	1704	CD2	LEU	A	263	12.244	12.430	10.053	1.00	44.16		C
ANISOU	1704	CD2	LEU	A	263	4965	5894	5918	-496	257	338	C
ATOM	1705	C	LEU	A	263	11.733	15.101	13.102	1.00	22.51		C
ANISOU	1705	C	LEU	A	263	2376	2990	3188	-619	45	355	C
ATOM	1706	O	LEU	A	263	12.184	14.207	13.818	1.00	21.11		O
ANISOU	1706	O	LEU	A	263	2149	2832	3039	-582	33	341	O
ATOM	1707	N	GLU	A	264	11.813	16.391	13.412	1.00	20.15		N
ANISOU	1707	N	GLU	A	264	2117	2652	2886	-685	-11	378	N
ATOM	1708	CA	GLU	A	264	12.422	16.846	14.658	1.00	20.54		C
ANISOU	1708	CA	GLU	A	264	2154	2679	2970	-713	-90	388	C
ATOM	1709	CB	GLU	A	264	12.488	18.377	14.688	1.00	23.72		C
ANISOU	1709	CB	GLU	A	264	2601	3042	3369	-790	-150	418	C
ATOM	1710	CG	GLU	A	264	13.441	18.974	13.673	1.00	35.55		C
ANISOU	1710	CG	GLU	A	264	4043	4577	4887	-866	-115	466	C
ATOM	1711	CD	GLU	A	264	13.285	20.475	13.542	1.00	44.25		C
ANISOU	1711	CD	GLU	A	264	5208	5630	5973	-942	-175	496	C
ATOM	1712	OE1	GLU	A	264	12.528	21.073	14.340	1.00	42.41		O
ANISOU	1712	OE1	GLU	A	264	5054	5339	5723	-931	-254	475	O
ATOM	1713	OE2	GLU	A	264	13.917	21.055	12.635	1.00	51.81		O
ANISOU	1713	OE2	GLU	A	264	6139	6609	6935	-1013	-142	538	O
ATOM	1714	C	GLU	A	264	11.690	16.352	15.904	1.00	22.53		C
ANISOU	1714	C	GLU	A	264	2461	2889	3209	-654	-133	349	C
ATOM	1715	O	GLU	A	264	12.213	16.443	17.017	1.00	21.27		O
ANISOU	1715	O	GLU	A	264	2295	2711	3075	-657	-197	351	O
ATOM	1716	N	ARG	A	265	10.476	15.846	15.719	1.00	19.28		N
ANISOU	1716	N	ARG	A	265	2107	2458	2759	-601	-99	312	N
ATOM	1717	CA	ARG	A	265	9.655	15.415	16.846	1.00	20.60		C
ANISOU	1717	CA	ARG	A	265	2334	2585	2909	-553	-125	275	C
ATOM	1718	CB	ARG	A	265	8.224	15.936	16.687	1.00	20.40		C
ANISOU	1718	CB	ARG	A	265	2396	2509	2845	-541	-124	238	C
ATOM	1719	CG	ARG	A	265	8.136	17.469	16.618	1.00	23.23		C
ANISOU	1719	CG	ARG	A	265	2802	2832	3192	-603	-186	250	C
ATOM	1720	CD	ARG	A	265	6.686	17.928	16.560	1.00	24.87		C
ANISOU	1720	CD	ARG	A	265	3096	2987	3367	-584	-197	197	C
ATOM	1721	NE	ARG	A	265	6.514	19.385	16.614	1.00	34.51		N
ANISOU	1721	NE	ARG	A	265	4371	4167	4576	-637	-274	198	N
ATOM	1722	CZ	ARG	A	265	6.644	20.145	17.705	1.00	34.36		C
ANISOU	1722	CZ	ARG	A	265	4381	4120	4556	-658	-356	199	C
ATOM	1723	NH1	ARG	A	265	6.992	19.619	18.882	1.00	20.37		N
ANISOU	1723	NH1	ARG	A	265	2595	2353	2791	-632	-369	200	N
ATOM	1724	NH2	ARG	A	265	6.431	21.454	17.610	1.00	30.34		N
ANISOU	1724	NH2	ARG	A	265	3920	3573	4034	-703	-431	197	N
ATOM	1725	C	ARG	A	265	9.650	13.897	16.998	1.00	21.35		C
ANISOU	1725	C	ARG	A	265	2394	2706	3011	-487	-82	255	C
ATOM	1726	O	ARG	A	265	8.924	13.359	17.835	1.00	20.05		O
ANISOU	1726	O	ARG	A	265	2281	2511	2828	-446	-87	225	O
ATOM	1727	N	VAL	A	266	10.461	13.213	16.191	1.00	19.92		N
ANISOU	1727	N	VAL	A	266	2129	2584	2856	-480	-39	271	N
ATOM	1728	CA	VAL	A	266	10.552	11.754	16.242	1.00	18.76		C
ANISOU	1728	CA	VAL	A	266	1942	2466	2719	-416	-9	252	C
ATOM	1729	CB	VAL	A	266	10.617	11.151	14.829	1.00	20.78		C
ANISOU	1729	CB	VAL	A	266	2141	2775	2978	-391	62	253	C
ATOM	1730	CG1	VAL	A	266	10.677	9.621	14.913	1.00	17.04		C
ANISOU	1730	CG1	VAL	A	266	1629	2329	2518	-320	79	230	C

ATOM	1731	CG2	VAL	A	266	9.426	11.608	14.000	1.00	15.60		C
ANISOU	1731	CG2	VAL	A	266	1549	2088	2288	-383	98	239	C
ATOM	1732	C	VAL	A	266	11.793	11.302	17.005	1.00	21.39		C
ANISOU	1732	C	VAL	A	266	2216	2819	3091	-419	-55	259	C
ATOM	1733	O	VAL	A	266	12.910	11.695	16.666	1.00	22.33		O
ANISOU	1733	O	VAL	A	266	2262	2974	3248	-460	-64	282	O
ATOM	1734	N	PHE	A	267	11.593	10.482	18.033	1.00	19.33		N
ANISOU	1734	N	PHE	A	267	1991	2532	2823	-376	-85	238	N
ATOM	1735	CA	PHE	A	267	12.690	9.977	18.853	1.00	22.17		C
ANISOU	1735	CA	PHE	A	267	2312	2895	3218	-369	-145	235	C
ATOM	1736	CB	PHE	A	267	12.633	10.585	20.257	1.00	23.95		C
ANISOU	1736	CB	PHE	A	267	2617	3054	3429	-384	-220	235	C
ATOM	1737	CG	PHE	A	267	12.578	12.081	20.245	1.00	29.31		C
ANISOU	1737	CG	PHE	A	267	3319	3711	4105	-442	-244	257	C
ATOM	1738	CD1	PHE	A	267	13.728	12.825	20.030	1.00	33.32		C
ANISOU	1738	CD1	PHE	A	267	3757	4237	4665	-492	-280	282	C
ATOM	1739	CE1	PHE	A	267	13.682	14.212	19.994	1.00	34.97		C
ANISOU	1739	CE1	PHE	A	267	3990	4423	4875	-548	-310	306	C
ATOM	1740	CZ	PHE	A	267	12.475	14.862	20.160	1.00	30.73		C
ANISOU	1740	CZ	PHE	A	267	3546	3846	4284	-550	-309	299	C
ATOM	1741	CE2	PHE	A	267	11.316	14.128	20.365	1.00	28.36		C
ANISOU	1741	CE2	PHE	A	267	3309	3531	3936	-499	-269	267	C
ATOM	1742	CD2	PHE	A	267	11.372	12.744	20.400	1.00	25.87		C
ANISOU	1742	CD2	PHE	A	267	2970	3236	3622	-448	-234	250	C
ATOM	1743	C	PHE	A	267	12.686	8.454	18.918	1.00	20.83		C
ANISOU	1743	C	PHE	A	267	2123	2743	3049	-305	-134	209	C
ATOM	1744	O	PHE	A	267	11.642	7.834	19.111	1.00	16.94		O
ANISOU	1744	O	PHE	A	267	1692	2225	2520	-266	-108	194	O
ATOM	1745	N	VAL	A	268	13.862	7.861	18.748	1.00	19.34		N
ANISOU	1745	N	VAL	A	268	1845	2596	2908	-296	-158	201	N
ATOM	1746	CA	VAL	A	268	13.996	6.412	18.677	1.00	21.17		C
ANISOU	1746	CA	VAL	A	268	2046	2851	3147	-235	-159	174	C
ATOM	1747	CB	VAL	A	268	14.472	5.981	17.276	1.00	25.66		C
ANISOU	1747	CB	VAL	A	268	2504	3502	3745	-221	-103	170	C
ATOM	1748	CG1	VAL	A	268	14.576	4.477	17.184	1.00	23.18		C
ANISOU	1748	CG1	VAL	A	268	2157	3211	3438	-152	-116	138	C
ATOM	1749	CG2	VAL	A	268	13.522	6.510	16.203	1.00	24.73		C
ANISOU	1749	CG2	VAL	A	268	2406	3397	3593	-229	-21	189	C
ATOM	1750	C	VAL	A	268	15.010	5.996	19.737	1.00	25.93		C
ANISOU	1750	C	VAL	A	268	2641	3429	3783	-226	-252	154	C
ATOM	1751	O	VAL	A	268	16.161	6.421	19.690	1.00	25.76		O
ANISOU	1751	O	VAL	A	268	2544	3429	3816	-256	-287	152	O
ATOM	1752	N	HIS	A	269	14.582	5.182	20.699	1.00	26.19		N
ANISOU	1752	N	HIS	A	269	2756	3411	3784	-187	-293	138	N
ATOM	1753	CA	HIS	A	269	15.375	4.962	21.911	1.00	27.39		C
ANISOU	1753	CA	HIS	A	269	2942	3513	3953	-180	-394	119	C
ATOM	1754	CB	HIS	A	269	14.509	5.182	23.156	1.00	24.31		C
ANISOU	1754	CB	HIS	A	269	2697	3040	3498	-180	-418	128	C
ATOM	1755	CG	HIS	A	269	13.976	6.573	23.283	1.00	24.72		C
ANISOU	1755	CG	HIS	A	269	2793	3071	3529	-227	-395	155	C
ATOM	1756	ND1	HIS	A	269	14.689	7.591	23.876	1.00	23.32		N
ANISOU	1756	ND1	HIS	A	269	2619	2863	3377	-260	-461	163	N
ATOM	1757	CE1	HIS	A	269	13.980	8.704	23.843	1.00	25.89		C
ANISOU	1757	CE1	HIS	A	269	2986	3175	3674	-295	-432	185	C
ATOM	1758	NE2	HIS	A	269	12.827	8.444	23.248	1.00	26.64		N
ANISOU	1758	NE2	HIS	A	269	3104	3289	3729	-285	-348	186	N
ATOM	1759	CD2	HIS	A	269	12.802	7.120	22.886	1.00	25.67		C
ANISOU	1759	CD2	HIS	A	269	2952	3192	3608	-242	-322	169	C
ATOM	1760	C	HIS	A	269	16.039	3.592	22.017	1.00	30.18		C
ANISOU	1760	C	HIS	A	269	3258	3878	4332	-129	-447	81	C
ATOM	1761	O	HIS	A	269	16.958	3.403	22.818	1.00	29.30		O
ANISOU	1761	O	HIS	A	269	3151	3731	4252	-122	-542	55	O
ATOM	1762	N	GLY	A	270	15.565	2.630	21.241	1.00	25.99		N
ANISOU	1762	N	GLY	A	270	2695	3389	3789	-90	-399	73	N
ATOM	1763	CA	GLY	A	270	16.062	1.273	21.381	1.00	24.69		C
ANISOU	1763	CA	GLY	A	270	2508	3230	3643	-37	-460	35	C
ATOM	1764	C	GLY	A	270	15.882	0.783	22.808	1.00	27.73		C
ANISOU	1764	C	GLY	A	270	3023	3526	3988	-21	-541	25	C
ATOM	1765	O	GLY	A	270	14.832	0.997	23.414	1.00	24.36		O
ANISOU	1765	O	GLY	A	270	2709	3046	3498	-32	-509	50	O

ATOM	1766	N	ASP	A	271	16.906	0.132	23.358	1.00	31.37		N
ANISOU	1766	N	ASP	A	271	3471	3965	4484	4	-646	-16	N
ATOM	1767	CA	ASP	A	271	16.785	-0.474	24.684	1.00	31.60		C
ANISOU	1767	CA	ASP	A	271	3637	3902	4469	24	-733	-28	C
ATOM	1768	CB	ASP	A	271	17.470	-1.847	24.729	1.00	30.44		C
ANISOU	1768	CB	ASP	A	271	3463	3754	4348	77	-825	-78	C
ATOM	1769	CG	ASP	A	271	16.695	-2.917	23.979	1.00	34.22		C
ANISOU	1769	CG	ASP	A	271	3924	4274	4804	113	-773	-74	C
ATOM	1770	OD1	ASP	A	271	15.452	-2.817	23.874	1.00	29.05		O
ANISOU	1770	OD1	ASP	A	271	3332	3612	4095	103	-684	-33	O
ATOM	1771	OD2	ASP	A	271	17.333	-3.873	23.494	1.00	40.54		O
ANISOU	1771	OD2	ASP	A	271	4644	5112	5645	156	-828	-116	O
ATOM	1772	C	ASP	A	271	17.331	0.419	25.800	1.00	36.12		C
ANISOU	1772	C	ASP	A	271	4278	4402	5044	-2	-807	-28	C
ATOM	1773	O	ASP	A	271	17.244	0.070	26.977	1.00	40.38		O
ANISOU	1773	O	ASP	A	271	4948	4855	5538	12	-880	-36	O
ATOM	1774	N	ASP	A	272	17.887	1.569	25.433	1.00	33.57		N
ANISOU	1774	N	ASP	A	272	3873	4109	4772	-40	-791	-19	N
ATOM	1775	CA	ASP	A	272	18.420	2.503	26.421	1.00	37.42		C
ANISOU	1775	CA	ASP	A	272	4416	4529	5275	-62	-865	-19	C
ATOM	1776	CB	ASP	A	272	19.710	3.140	25.901	1.00	45.19		C
ANISOU	1776	CB	ASP	A	272	5255	5552	6362	-85	-898	-42	C
ATOM	1777	CG	ASP	A	272	20.295	4.152	26.869	1.00	56.44		C
ANISOU	1777	CG	ASP	A	272	6726	6902	7815	-105	-983	-42	C
ATOM	1778	OD1	ASP	A	272	19.854	4.191	28.038	1.00	59.37		O
ANISOU	1778	OD1	ASP	A	272	7248	7187	8124	-89	-1036	-35	O
ATOM	1779	OD2	ASP	A	272	21.200	4.907	26.459	1.00	59.33		O
ANISOU	1779	OD2	ASP	A	272	6980	7297	8268	-135	-996	-50	O
ATOM	1780	C	ASP	A	272	17.394	3.585	26.765	1.00	33.20		C
ANISOU	1780	C	ASP	A	272	3970	3967	4676	-99	-802	30	C
ATOM	1781	O	ASP	A	272	17.298	4.599	26.077	1.00	34.95		O
ANISOU	1781	O	ASP	A	272	4125	4235	4922	-139	-741	56	O
ATOM	1782	N	LEU	A	273	16.634	3.372	27.835	1.00	32.36		N
ANISOU	1782	N	LEU	A	273	4018	3786	4490	-86	-819	40	N
ATOM	1783	CA	LEU	A	273	15.535	4.277	28.171	1.00	34.20		C
ANISOU	1783	CA	LEU	A	273	4338	3999	4658	-115	-754	76	C
ATOM	1784	CB	LEU	A	273	14.394	3.516	28.848	1.00	34.95		C
ANISOU	1784	CB	LEU	A	273	4571	4049	4661	-97	-718	83	C
ATOM	1785	CG	LEU	A	273	13.848	2.262	28.163	1.00	38.06		C
ANISOU	1785	CG	LEU	A	273	4936	4482	5042	-73	-660	78	C
ATOM	1786	CD1	LEU	A	273	12.656	1.711	28.935	1.00	42.85		C
ANISOU	1786	CD1	LEU	A	273	5686	5035	5559	-68	-617	90	C
ATOM	1787	CD2	LEU	A	273	13.468	2.556	26.727	1.00	29.30		C
ANISOU	1787	CD2	LEU	A	273	3701	3460	3970	-87	-562	91	C
ATOM	1788	C	LEU	A	273	15.953	5.448	29.057	1.00	38.13		C
ANISOU	1788	C	LEU	A	273	4888	4438	5161	-133	-825	83	C
ATOM	1789	O	LEU	A	273	15.099	6.182	29.564	1.00	34.02		O
ANISOU	1789	O	LEU	A	273	4457	3888	4581	-149	-793	105	O
ATOM	1790	N	SER	A	274	17.256	5.628	29.245	1.00	41.51		N
ANISOU	1790	N	SER	A	274	5259	4848	5665	-127	-925	58	N
ATOM	1791	CA	SER	A	274	17.744	6.683	30.129	1.00	39.97		C
ANISOU	1791	CA	SER	A	274	5113	4587	5486	-135	-1010	61	C
ATOM	1792	CB	SER	A	274	19.275	6.671	30.218	1.00	43.48		C
ANISOU	1792	CB	SER	A	274	5473	5011	6037	-123	-1123	22	C
ATOM	1793	OG	SER	A	274	19.868	6.953	28.963	1.00	47.69		O
ANISOU	1793	OG	SER	A	274	5831	5632	6657	-156	-1074	22	O
ATOM	1794	C	SER	A	274	17.228	8.054	29.691	1.00	38.32		C
ANISOU	1794	C	SER	A	274	4873	4410	5276	-183	-948	99	C
ATOM	1795	O	SER	A	274	16.670	8.799	30.497	1.00	34.59		O
ANISOU	1795	O	SER	A	274	4506	3887	4751	-186	-966	114	O
ATOM	1796	N	GLY	A	275	17.400	8.374	28.411	1.00	38.04		N
ANISOU	1796	N	GLY	A	275	4700	4458	5295	-218	-879	112	N
ATOM	1797	CA	GLY	A	275	16.896	9.624	27.870	1.00	34.78		C
ANISOU	1797	CA	GLY	A	275	4260	4076	4879	-267	-823	147	C
ATOM	1798	C	GLY	A	275	15.378	9.654	27.804	1.00	31.81		C
ANISOU	1798	C	GLY	A	275	3968	3708	4412	-269	-732	164	C
ATOM	1799	O	GLY	A	275	14.752	10.689	28.029	1.00	33.31		O
ANISOU	1799	O	GLY	A	275	4207	3879	4569	-292	-724	181	O
ATOM	1800	N	PHE	A	276	14.783	8.506	27.497	1.00	27.01		N
ANISOU	1800	N	PHE	A	276	3372	3123	3767	-242	-669	154	N

ATOM	1801	CA	PHE	A	276	13.333	8.383	27.427	1.00	22.33		C
ANISOU	1801	CA	PHE	A	276	2851	2533	3099	-241	-580	161	C
ATOM	1802	CB	PHE	A	276	12.949	6.972	26.960	1.00	21.66		C
ANISOU	1802	CB	PHE	A	276	2753	2477	3001	-209	-524	148	C
ATOM	1803	CG	PHE	A	276	11.493	6.643	27.135	1.00	21.27		C
ANISOU	1803	CG	PHE	A	276	2789	2413	2880	-201	-444	148	C
ATOM	1804	CD1	PHE	A	276	10.539	7.172	26.273	1.00	22.74		C
ANISOU	1804	CD1	PHE	A	276	2945	2635	3061	-220	-357	153	C
ATOM	1805	CE1	PHE	A	276	9.200	6.865	26.432	1.00	23.02		C
ANISOU	1805	CE1	PHE	A	276	3049	2652	3044	-212	-284	143	C
ATOM	1806	CZ	PHE	A	276	8.799	6.018	27.447	1.00	26.54		C
ANISOU	1806	CZ	PHE	A	276	3597	3049	3438	-191	-287	135	C
ATOM	1807	CE2	PHE	A	276	9.740	5.480	28.306	1.00	27.29		C
ANISOU	1807	CE2	PHE	A	276	3736	3108	3527	-174	-374	136	C
ATOM	1808	CD2	PHE	A	276	11.078	5.791	28.145	1.00	25.00		C
ANISOU	1808	CD2	PHE	A	276	3374	2831	3295	-175	-456	138	C
ATOM	1809	C	PHE	A	276	12.665	8.735	28.761	1.00	25.43		C
ANISOU	1809	C	PHE	A	276	3391	2852	3418	-232	-610	159	C
ATOM	1810	O	PHE	A	276	11.661	9.451	28.789	1.00	21.51		O
ANISOU	1810	O	PHE	A	276	2939	2354	2880	-250	-560	164	O
ATOM	1811	N	TYR	A	277	13.228	8.241	29.864	1.00	26.04		N
ANISOU	1811	N	TYR	A	277	3547	2866	3479	-202	-694	146	N
ATOM	1812	CA	TYR	A	277	12.688	8.511	31.199	1.00	28.84		C
ANISOU	1812	CA	TYR	A	277	4054	3147	3757	-189	-726	143	C
ATOM	1813	CB	TYR	A	277	13.315	7.591	32.244	1.00	33.67		C
ANISOU	1813	CB	TYR	A	277	4759	3690	4345	-149	-812	126	C
ATOM	1814	CG	TYR	A	277	12.839	6.155	32.221	1.00	33.34		C
ANISOU	1814	CG	TYR	A	277	4758	3648	4261	-129	-763	119	C
ATOM	1815	CD1	TYR	A	277	11.519	5.829	31.915	1.00	26.59		C
ANISOU	1815	CD1	TYR	A	277	3929	2820	3352	-141	-646	127	C
ATOM	1816	CE1	TYR	A	277	11.095	4.500	31.915	1.00	33.37		C
ANISOU	1816	CE1	TYR	A	277	4826	3675	4178	-125	-607	122	C
ATOM	1817	CZ	TYR	A	277	11.999	3.498	32.241	1.00	35.98		C
ANISOU	1817	CZ	TYR	A	277	5176	3972	4522	-95	-695	108	C
ATOM	1818	OH	TYR	A	277	11.628	2.171	32.263	1.00	31.26		O
ANISOU	1818	OH	TYR	A	277	4620	3364	3892	-79	-672	105	O
ATOM	1819	CE2	TYR	A	277	13.300	3.813	32.556	1.00	39.47		C
ANISOU	1819	CE2	TYR	A	277	5594	4386	5016	-80	-815	93	C
ATOM	1820	CD2	TYR	A	277	13.708	5.127	32.551	1.00	37.67		C
ANISOU	1820	CD2	TYR	A	277	5323	4163	4827	-97	-846	99	C
ATOM	1821	C	TYR	A	277	12.887	9.958	31.650	1.00	28.33		C
ANISOU	1821	C	TYR	A	277	4008	3055	3701	-206	-785	152	C
ATOM	1822	O	TYR	A	277	12.177	10.443	32.533	1.00	27.57		O
ANISOU	1822	O	TYR	A	277	4024	2915	3535	-200	-788	150	O
ATOM	1823	N	GLN	A	278	13.868	10.641	31.074	1.00	23.86		N
ANISOU	1823	N	GLN	A	278	3331	2512	3221	-226	-836	160	N
ATOM	1824	CA	GLN	A	278	14.014	12.070	31.327	1.00	32.64		C
ANISOU	1824	CA	GLN	A	278	4447	3605	4352	-248	-891	173	C
ATOM	1825	CB	GLN	A	278	15.346	12.592	30.781	1.00	44.10		C
ANISOU	1825	CB	GLN	A	278	5772	5072	5911	-271	-958	181	C
ATOM	1826	CG	GLN	A	278	16.539	12.302	31.675	1.00	57.09		C
ANISOU	1826	CG	GLN	A	278	7440	6650	7604	-235	-1083	160	C
ATOM	1827	CD	GLN	A	278	17.864	12.563	30.981	1.00	65.81		C
ANISOU	1827	CD	GLN	A	278	8394	7780	8829	-260	-1128	157	C
ATOM	1828	OE1	GLN	A	278	17.902	13.067	29.856	1.00	66.79		O
ANISOU	1828	OE1	GLN	A	278	8407	7974	8997	-309	-1064	179	O
ATOM	1829	NE2	GLN	A	278	18.959	12.216	31.648	1.00	68.51		N
ANISOU	1829	NE2	GLN	A	278	8738	8064	9230	-226	-1239	127	N
ATOM	1830	C	GLN	A	278	12.855	12.847	30.708	1.00	32.87		C
ANISOU	1830	C	GLN	A	278	4469	3675	4347	-282	-806	184	C
ATOM	1831	O	GLN	A	278	12.508	13.935	31.171	1.00	30.09		O
ANISOU	1831	O	GLN	A	278	4165	3296	3972	-291	-842	187	O
ATOM	1832	N	GLU	A	279	12.258	12.285	29.660	1.00	24.02		N
ANISOU	1832	N	GLU	A	279	3289	2615	3224	-295	-701	184	N
ATOM	1833	CA	GLU	A	279	11.147	12.944	28.977	1.00	23.97		C
ANISOU	1833	CA	GLU	A	279	3275	2642	3192	-323	-624	185	C
ATOM	1834	CB	GLU	A	279	11.152	12.585	27.485	1.00	21.20		C
ANISOU	1834	CB	GLU	A	279	2810	2361	2885	-343	-545	193	C
ATOM	1835	CG	GLU	A	279	12.361	13.099	26.728	1.00	22.17		C
ANISOU	1835	CG	GLU	A	279	2819	2516	3088	-375	-584	216	C

ATOM	1836	CD	GLU	A	279	12.439	14.610	26.749	1.00	27.19		C
ANISOU	1836	CD	GLU	A	279	3455	3136	3738	-416	-637	233	C
ATOM	1837	OE1	GLU	A	279	11.379	15.255	26.632	1.00	29.99		O
ANISOU	1837	OE1	GLU	A	279	3858	3487	4050	-428	-606	225	O
ATOM	1838	OE2	GLU	A	279	13.554	15.149	26.893	1.00	28.99		O
ANISOU	1838	OE2	GLU	A	279	3635	3353	4027	-435	-713	249	O
ATOM	1839	C	GLU	A	279	9.792	12.580	29.590	1.00	23.61		C
ANISOU	1839	C	GLU	A	279	3337	2573	3063	-302	-561	161	C
ATOM	1840	O	GLU	A	279	8.965	13.455	29.852	1.00	22.60		O
ANISOU	1840	O	GLU	A	279	3258	2431	2898	-313	-554	148	O
ATOM	1841	N	ILE	A	280	9.569	11.282	29.791	1.00	22.23		N
ANISOU	1841	N	ILE	A	280	3193	2394	2860	-275	-516	152	N
ATOM	1842	CA	ILE	A	280	8.302	10.776	30.308	1.00	20.21		C
ANISOU	1842	CA	ILE	A	280	3029	2118	2531	-262	-442	131	C
ATOM	1843	CB	ILE	A	280	7.642	9.768	29.338	1.00	26.23		C
ANISOU	1843	CB	ILE	A	280	3738	2923	3305	-257	-341	124	C
ATOM	1844	CG1	ILE	A	280	7.607	10.309	27.907	1.00	25.08		C
ANISOU	1844	CG1	ILE	A	280	3478	2834	3218	-280	-307	128	C
ATOM	1845	CD1	ILE	A	280	6.881	11.629	27.758	1.00	27.15		C
ANISOU	1845	CD1	ILE	A	280	3752	3093	3470	-306	-301	114	C
ATOM	1846	CG2	ILE	A	280	6.233	9.401	29.812	1.00	24.37		C
ANISOU	1846	CG2	ILE	A	280	3586	2666	3007	-252	-256	97	C
ATOM	1847	C	ILE	A	280	8.552	10.072	31.638	1.00	24.83		C
ANISOU	1847	C	ILE	A	280	3731	2643	3061	-232	-486	128	C
ATOM	1848	O	ILE	A	280	9.249	9.060	31.688	1.00	26.21		O
ANISOU	1848	O	ILE	A	280	3898	2810	3251	-213	-512	135	O
ATOM	1849	N	ASP	A	281	7.982	10.620	32.707	1.00	21.10		N
ANISOU	1849	N	ASP	A	281	3371	2125	2521	-227	-497	116	N
ATOM	1850	CA	ASP	A	281	8.192	10.121	34.064	1.00	22.79		C
ANISOU	1850	CA	ASP	A	281	3720	2272	2669	-199	-544	114	C
ATOM	1851	CB	ASP	A	281	7.311	10.915	35.033	1.00	27.83		C
ANISOU	1851	CB	ASP	A	281	4468	2876	3229	-197	-531	96	C
ATOM	1852	CG	ASP	A	281	7.531	10.540	36.497	1.00	36.69		C
ANISOU	1852	CG	ASP	A	281	5748	3922	4270	-166	-583	95	C
ATOM	1853	OD1	ASP	A	281	8.282	9.584	36.799	1.00	38.67		O
ANISOU	1853	OD1	ASP	A	281	6034	4138	4520	-147	-629	107	O
ATOM	1854	OD2	ASP	A	281	6.933	11.221	37.351	1.00	37.16		O
ANISOU	1854	OD2	ASP	A	281	5902	3954	4263	-160	-582	79	O
ATOM	1855	C	ASP	A	281	7.871	8.630	34.159	1.00	19.83		C
ANISOU	1855	C	ASP	A	281	3387	1888	2259	-188	-483	114	C
ATOM	1856	O	ASP	A	281	6.772	8.202	33.817	1.00	21.60		O
ANISOU	1856	O	ASP	A	281	3610	2136	2460	-201	-375	103	O
ATOM	1857	N	GLU	A	282	8.841	7.846	34.617	1.00	22.10		N
ANISOU	1857	N	GLU	A	282	3711	2137	2551	-164	-561	122	N
ATOM	1858	CA	GLU	A	282	8.650	6.411	34.786	1.00	25.32		C
ANISOU	1858	CA	GLU	A	282	4170	2526	2923	-152	-526	123	C
ATOM	1859	CB	GLU	A	282	9.912	5.783	35.382	1.00	29.51		C
ANISOU	1859	CB	GLU	A	282	4747	3001	3463	-121	-650	124	C
ATOM	1860	CG	GLU	A	282	9.804	4.296	35.632	1.00	32.88		C
ANISOU	1860	CG	GLU	A	282	5243	3400	3851	-109	-637	123	C
ATOM	1861	CD	GLU	A	282	11.015	3.728	36.362	1.00	32.35		C
ANISOU	1861	CD	GLU	A	282	5246	3261	3786	-74	-777	113	C
ATOM	1862	OE1	GLU	A	282	11.920	4.509	36.740	1.00	30.68		O
ANISOU	1862	OE1	GLU	A	282	5032	3018	3608	-57	-881	105	O
ATOM	1863	OE2	GLU	A	282	11.056	2.494	36.556	1.00	34.15		O
ANISOU	1863	OE2	GLU	A	282	5531	3459	3985	-62	-789	111	O
ATOM	1864	C	GLU	A	282	7.447	6.122	35.681	1.00	25.94		C
ANISOU	1864	C	GLU	A	282	4388	2568	2900	-160	-444	117	C
ATOM	1865	O	GLU	A	282	6.764	5.107	35.529	1.00	22.61		O
ANISOU	1865	O	GLU	A	282	3986	2152	2454	-167	-364	118	O
ATOM	1866	N	ASN	A	283	7.183	7.031	36.609	1.00	22.89		N
ANISOU	1866	N	ASN	A	283	4096	2145	2456	-158	-463	109	N
ATOM	1867	CA	ASN	A	283	6.175	6.798	37.632	1.00	25.31		C
ANISOU	1867	CA	ASN	A	283	4550	2411	2657	-163	-392	101	C
ATOM	1868	CB	ASN	A	283	6.515	7.613	38.876	1.00	23.51		C
ANISOU	1868	CB	ASN	A	283	4448	2121	2365	-140	-476	97	C
ATOM	1869	CG	ASN	A	283	6.218	6.875	40.162	1.00	31.75		C
ANISOU	1869	CG	ASN	A	283	5682	3090	3292	-130	-462	99	C
ATOM	1870	OD1	ASN	A	283	6.403	5.659	40.258	1.00	29.30		O
ANISOU	1870	OD1	ASN	A	283	5419	2751	2961	-130	-458	112	O

ATOM	1871	ND2	ASN	A	283	5.779	7.615	41.176	1.00	34.55		N
ANISOU	1871	ND2	ASN	A	283	6153	3409	3564	-121	-460	86	N
ATOM	1872	C	ASN	A	283	4.762	7.113	37.152	1.00	25.49		C
ANISOU	1872	C	ASN	A	283	4529	2483	2672	-194	-256	79	C
ATOM	1873	O	ASN	A	283	3.806	6.984	37.908	1.00	27.34		O
ANISOU	1873	O	ASN	A	283	4867	2694	2828	-205	-176	65	O
ATOM	1874	N	ILE	A	284	4.631	7.531	35.894	1.00	23.54		N
ANISOU	1874	N	ILE	A	284	4132	2301	2512	-206	-229	72	N
ATOM	1875	CA	ILE	A	284	3.313	7.742	35.302	1.00	19.25		C
ANISOU	1875	CA	ILE	A	284	3538	1798	1978	-230	-109	43	C
ATOM	1876	CB	ILE	A	284	3.123	9.187	34.763	1.00	27.58		C
ANISOU	1876	CB	ILE	A	284	4516	2889	3076	-239	-129	21	C
ATOM	1877	CG1	ILE	A	284	3.916	9.390	33.464	1.00	23.62		C
ANISOU	1877	CG1	ILE	A	284	3872	2433	2670	-241	-176	40	C
ATOM	1878	CD1	ILE	A	284	3.616	10.707	32.749	1.00	24.14		C
ANISOU	1878	CD1	ILE	A	284	3862	2533	2779	-257	-186	20	C
ATOM	1879	CG2	ILE	A	284	3.495	10.217	35.827	1.00	30.05		C
ANISOU	1879	CG2	ILE	A	284	4915	3164	3339	-226	-215	18	C
ATOM	1880	C	ILE	A	284	3.017	6.744	34.179	1.00	17.65		C
ANISOU	1880	C	ILE	A	284	3238	1633	1834	-235	-41	47	C
ATOM	1881	O	ILE	A	284	1.930	6.757	33.609	1.00	22.17		O
ANISOU	1881	O	ILE	A	284	3764	2231	2427	-249	56	19	O
ATOM	1882	N	LEU	A	285	3.979	5.878	33.868	1.00	19.71		N
ANISOU	1882	N	LEU	A	285	3468	1894	2126	-219	-97	76	N
ATOM	1883	CA	LEU	A	285	3.798	4.894	32.803	1.00	21.89		C
ANISOU	1883	CA	LEU	A	285	3653	2206	2460	-215	-47	80	C
ATOM	1884	CB	LEU	A	285	5.094	4.738	32.003	1.00	21.00		C
ANISOU	1884	CB	LEU	A	285	3437	2124	2417	-197	-135	100	C
ATOM	1885	CG	LEU	A	285	5.481	5.894	31.084	1.00	22.01		C
ANISOU	1885	CG	LEU	A	285	3451	2301	2609	-205	-161	97	C
ATOM	1886	CD1	LEU	A	285	6.966	5.809	30.736	1.00	20.84		C
ANISOU	1886	CD1	LEU	A	285	3234	2170	2516	-192	-261	116	C
ATOM	1887	CD2	LEU	A	285	4.618	5.870	29.838	1.00	21.71		C
ANISOU	1887	CD2	LEU	A	285	3317	2312	2620	-210	-73	82	C
ATOM	1888	C	LEU	A	285	3.360	3.523	33.326	1.00	20.05		C
ANISOU	1888	C	LEU	A	285	3503	1936	2179	-215	0	88	C
ATOM	1889	O	LEU	A	285	3.768	3.106	34.413	1.00	19.10		O
ANISOU	1889	O	LEU	A	285	3505	1760	1991	-211	-47	102	O
ATOM	1890	N	PRO	A	286	2.531	2.817	32.543	1.00	19.15		N
ANISOU	1890	N	PRO	A	286	3328	1847	2102	-218	87	78	N
ATOM	1891	CA	PRO	A	286	2.164	1.426	32.840	1.00	20.80		C
ANISOU	1891	CA	PRO	A	286	3595	2023	2283	-218	126	90	C
ATOM	1892	CB	PRO	A	286	1.170	1.073	31.726	1.00	19.24		C
ANISOU	1892	CB	PRO	A	286	3294	1863	2154	-217	221	71	C
ATOM	1893	CG	PRO	A	286	0.760	2.373	31.126	1.00	22.49		C
ANISOU	1893	CG	PRO	A	286	3630	2311	2604	-223	247	40	C
ATOM	1894	CD	PRO	A	286	1.945	3.272	31.272	1.00	18.62		C
ANISOU	1894	CD	PRO	A	286	3132	1833	2111	-217	143	56	C
ATOM	1895	C	PRO	A	286	3.379	0.518	32.721	1.00	18.03		C
ANISOU	1895	C	PRO	A	286	3235	1666	1948	-192	23	116	C
ATOM	1896	O	PRO	A	286	4.338	0.852	32.022	1.00	16.43		O
ANISOU	1896	O	PRO	A	286	2936	1502	1805	-171	-51	119	O
ATOM	1897	N	SER	A	287	3.322	-0.631	33.380	1.00	15.81		N
ANISOU	1897	N	SER	A	287	3053	1336	1617	-194	18	132	N
ATOM	1898	CA	SER	A	287	4.439	-1.566	33.399	1.00	20.91		C
ANISOU	1898	CA	SER	A	287	3708	1964	2272	-166	-93	147	C
ATOM	1899	CB	SER	A	287	4.105	-2.764	34.292	1.00	20.48		C
ANISOU	1899	CB	SER	A	287	3796	1841	2144	-179	-86	164	C
ATOM	1900	OG	SER	A	287	3.046	-3.518	33.730	1.00	19.20		O
ANISOU	1900	OG	SER	A	287	3594	1694	2007	-191	14	165	O
ATOM	1901	C	SER	A	287	4.835	-2.053	32.007	1.00	23.82		C
ANISOU	1901	C	SER	A	287	3918	2396	2738	-136	-114	143	C
ATOM	1902	O	SER	A	287	5.993	-2.393	31.778	1.00	21.18		O
ANISOU	1902	O	SER	A	287	3542	2071	2435	-108	-220	144	O
ATOM	1903	N	ASP	A	288	3.880	-2.102	31.080	1.00	21.22		N
ANISOU	1903	N	ASP	A	288	3499	2108	2457	-138	-18	134	N
ATOM	1904	CA	ASP	A	288	4.186	-2.577	29.740	1.00	17.71		C
ANISOU	1904	CA	ASP	A	288	2912	1721	2097	-104	-33	130	C
ATOM	1905	CB	ASP	A	288	2.995	-3.300	29.066	1.00	20.18		C
ANISOU	1905	CB	ASP	A	288	3183	2041	2444	-98	61	124	C

ATOM	1906	CG	ASP	A	288	1.694	-2.513	29.122	1.00	25.75		C
ANISOU	1906	CG	ASP	A	288	3899	2740	3144	-128	178	104	C
ATOM	1907	OD1	ASP	A	288	1.454	-1.798	30.116	1.00	22.15		O
ANISOU	1907	OD1	ASP	A	288	3538	2254	2626	-161	200	100	O
ATOM	1908	OD2	ASP	A	288	0.889	-2.637	28.169	1.00	26.13		O
ANISOU	1908	OD2	ASP	A	288	3864	2812	3254	-113	244	85	O
ATOM	1909	C	ASP	A	288	4.763	-1.468	28.857	1.00	23.01		C
ANISOU	1909	C	ASP	A	288	3463	2453	2825	-95	-53	120	C
ATOM	1910	O	ASP	A	288	5.008	-1.672	27.672	1.00	25.32		O
ANISOU	1910	O	ASP	A	288	3636	2801	3185	-68	-55	115	O
ATOM	1911	N	PHE	A	289	4.978	-0.297	29.450	1.00	17.71		N
ANISOU	1911	N	PHE	A	289	2833	1771	2124	-119	-67	119	N
ATOM	1912	CA	PHE	A	289	5.717	0.776	28.795	1.00	21.02		C
ANISOU	1912	CA	PHE	A	289	3157	2237	2591	-118	-105	116	C
ATOM	1913	CB	PHE	A	289	4.802	1.960	28.488	1.00	18.63		C
ANISOU	1913	CB	PHE	A	289	2835	1951	2294	-143	-29	102	C
ATOM	1914	CG	PHE	A	289	3.801	1.678	27.405	1.00	21.27		C
ANISOU	1914	CG	PHE	A	289	3095	2315	2672	-132	59	86	C
ATOM	1915	CD1	PHE	A	289	4.058	2.040	26.093	1.00	24.64		C
ANISOU	1915	CD1	PHE	A	289	3403	2796	3162	-118	61	83	C
ATOM	1916	CE1	PHE	A	289	3.134	1.775	25.092	1.00	22.30		C
ANISOU	1916	CE1	PHE	A	289	3048	2518	2908	-100	132	64	C
ATOM	1917	CZ	PHE	A	289	1.947	1.142	25.401	1.00	21.68		C
ANISOU	1917	CZ	PHE	A	289	3018	2401	2818	-98	202	47	C
ATOM	1918	CE2	PHE	A	289	1.684	0.774	26.704	1.00	26.13		C
ANISOU	1918	CE2	PHE	A	289	3693	2916	3320	-120	210	52	C
ATOM	1919	CD2	PHE	A	289	2.609	1.042	27.697	1.00	22.39		C
ANISOU	1919	CD2	PHE	A	289	3289	2424	2794	-136	138	73	C
ATOM	1920	C	PHE	A	289	6.888	1.214	29.668	1.00	28.20		C
ANISOU	1920	C	PHE	A	289	4119	3118	3479	-121	-211	123	C
ATOM	1921	O	PHE	A	289	7.342	2.353	29.584	1.00	27.95		O
ANISOU	1921	O	PHE	A	289	4051	3101	3466	-134	-240	123	O
ATOM	1922	N	GLY	A	290	7.365	0.299	30.508	1.00	25.47		N
ANISOU	1922	N	GLY	A	290	3862	2722	3095	-108	-276	127	N
ATOM	1923	CA	GLY	A	290	8.545	0.532	31.327	1.00	26.80		C
ANISOU	1923	CA	GLY	A	290	4083	2849	3251	-99	-394	126	C
ATOM	1924	C	GLY	A	290	8.301	1.278	32.628	1.00	28.76		C
ANISOU	1924	C	GLY	A	290	4472	3033	3422	-117	-405	130	C
ATOM	1925	O	GLY	A	290	9.245	1.724	33.283	1.00	27.33		O
ANISOU	1925	O	GLY	A	290	4331	2814	3238	-107	-506	126	O
ATOM	1926	N	GLY	A	291	7.036	1.406	33.015	1.00	21.35		N
ANISOU	1926	N	GLY	A	291	3608	2080	2426	-140	-305	132	N
ATOM	1927	CA	GLY	A	291	6.678	2.209	34.173	1.00	20.67		C
ANISOU	1927	CA	GLY	A	291	3647	1943	2264	-155	-300	131	C
ATOM	1928	C	GLY	A	291	6.374	1.406	35.425	1.00	22.66		C
ANISOU	1928	C	GLY	A	291	4075	2117	2418	-157	-301	138	C
ATOM	1929	O	GLY	A	291	6.528	0.183	35.451	1.00	21.84		O
ANISOU	1929	O	GLY	A	291	4003	1991	2305	-149	-319	146	O
ATOM	1930	N	THR	A	292	5.928	2.106	36.464	1.00	21.85		N
ANISOU	1930	N	THR	A	292	4091	1972	2237	-169	-281	136	N
ATOM	1931	CA	THR	A	292	5.640	1.494	37.755	1.00	24.37		C
ANISOU	1931	CA	THR	A	292	4599	2213	2448	-175	-277	144	C
ATOM	1932	CB	THR	A	292	6.206	2.343	38.915	1.00	24.23		C
ANISOU	1932	CB	THR	A	292	4703	2134	2368	-157	-365	141	C
ATOM	1933	OG1	THR	A	292	5.622	3.651	38.874	1.00	23.32		O
ANISOU	1933	OG1	THR	A	292	4550	2055	2256	-168	-314	126	O
ATOM	1934	CG2	THR	A	292	7.734	2.462	38.824	1.00	21.89		C
ANISOU	1934	CG2	THR	A	292	4367	1817	2133	-119	-526	138	C
ATOM	1935	C	THR	A	292	4.139	1.317	37.991	1.00	22.56		C
ANISOU	1935	C	THR	A	292	4423	1988	2162	-212	-124	140	C
ATOM	1936	O	THR	A	292	3.732	0.782	39.023	1.00	23.02		O
ANISOU	1936	O	THR	A	292	4640	1985	2123	-227	-92	149	O
ATOM	1937	N	LEU	A	293	3.319	1.781	37.049	1.00	20.11		N
ANISOU	1937	N	LEU	A	293	3985	1745	1913	-228	-29	123	N
ATOM	1938	CA	LEU	A	293	1.865	1.645	37.176	1.00	22.11		C
ANISOU	1938	CA	LEU	A	293	4264	2003	2133	-262	118	107	C
ATOM	1939	CB	LEU	A	293	1.141	2.807	36.482	1.00	22.53		C
ANISOU	1939	CB	LEU	A	293	4205	2115	2241	-270	182	71	C
ATOM	1940	CG	LEU	A	293	1.386	4.231	37.012	1.00	24.35		C
ANISOU	1940	CG	LEU	A	293	4464	2345	2444	-263	131	55	C

ATOM	1941	CD1	LEU	A	293	0.416	5.212	36.354	1.00	23.25		C
ANISOU	1941	CD1	LEU	A	293	4227	2255	2350	-276	206	12	C
ATOM	1942	CD2	LEU	A	293	1.275	4.308	38.522	1.00	31.72		C
ANISOU	1942	CD2	LEU	A	293	5578	3215	3259	-267	129	57	C
ATOM	1943	C	LEU	A	293	1.389	0.298	36.627	1.00	21.90		C
ANISOU	1943	C	LEU	A	293	4206	1980	2135	-272	180	118	C
ATOM	1944	O	LEU	A	293	2.137	-0.392	35.931	1.00	20.30		O
ANISOU	1944	O	LEU	A	293	3932	1791	1989	-249	110	134	O
ATOM	1945	N	PRO	A	294	0.150	-0.101	36.961	1.00	20.36		N
ANISOU	1945	N	PRO	A	294	4063	1770	1903	-307	308	108	N
ATOM	1946	CA	PRO	A	294	-0.335	-1.395	36.476	1.00	23.84		C
ANISOU	1946	CA	PRO	A	294	4476	2206	2375	-318	362	120	C
ATOM	1947	CB	PRO	A	294	-1.767	-1.463	37.024	1.00	22.68		C
ANISOU	1947	CB	PRO	A	294	4392	2041	2185	-364	515	100	C
ATOM	1948	CG	PRO	A	294	-1.733	-0.605	38.246	1.00	24.07		C
ANISOU	1948	CG	PRO	A	294	4700	2187	2259	-376	515	92	C
ATOM	1949	CD	PRO	A	294	-0.797	0.529	37.901	1.00	23.07		C
ANISOU	1949	CD	PRO	A	294	4503	2093	2168	-338	404	84	C
ATOM	1950	C	PRO	A	294	-0.325	-1.502	34.951	1.00	24.45		C
ANISOU	1950	C	PRO	A	294	4369	2346	2575	-292	359	109	C
ATOM	1951	O	PRO	A	294	-0.433	-0.497	34.248	1.00	21.39		O
ANISOU	1951	O	PRO	A	294	3875	2006	2244	-281	367	82	O
ATOM	1952	N	LYS	A	295	-0.164	-2.723	34.455	1.00	16.28		N
ANISOU	1952	N	LYS	A	295	3305	1306	1576	-280	338	129	N
ATOM	1953	CA	LYS	A	295	-0.243	-2.997	33.028	1.00	24.83		C
ANISOU	1953	CA	LYS	A	295	4225	2442	2768	-250	341	119	C
ATOM	1954	CB	LYS	A	295	-0.371	-4.501	32.786	1.00	26.25		C
ANISOU	1954	CB	LYS	A	295	4409	2599	2966	-243	337	140	C
ATOM	1955	CG	LYS	A	295	-0.406	-4.891	31.314	1.00	25.69		C
ANISOU	1955	CG	LYS	A	295	4177	2579	3005	-201	329	130	C
ATOM	1956	CD	LYS	A	295	-0.764	-6.367	31.145	1.00	33.33		C
ANISOU	1956	CD	LYS	A	295	5155	3518	3992	-196	336	148	C
ATOM	1957	CE	LYS	A	295	-0.444	-6.846	29.740	1.00	33.26		C
ANISOU	1957	CE	LYS	A	295	4996	3559	4082	-139	288	141	C
ATOM	1958	NZ	LYS	A	295	1.027	-6.742	29.500	1.00	39.19		N
ANISOU	1958	NZ	LYS	A	295	5713	4343	4835	-103	157	150	N
ATOM	1959	C	LYS	A	295	-1.441	-2.271	32.429	1.00	20.49		C
ANISOU	1959	C	LYS	A	295	3591	1923	2271	-261	454	78	C
ATOM	1960	O	LYS	A	295	-2.540	-2.304	32.997	1.00	19.86		O
ANISOU	1960	O	LYS	A	295	3570	1815	2161	-297	561	59	O
ATOM	1961	N	TYR	A	296	-1.226	-1.608	31.296	1.00	25.94		N
ANISOU	1961	N	TYR	A	296	3662	3956	2237	-1513	595	384	N
ATOM	1962	CA	TYR	A	296	-2.276	-0.784	30.700	1.00	24.07		C
ANISOU	1962	CA	TYR	A	296	3511	3525	2110	-1399	745	301	C
ATOM	1963	CB	TYR	A	296	-1.811	-0.067	29.423	1.00	24.70		C
ANISOU	1963	CB	TYR	A	296	3662	3413	2311	-1251	862	171	C
ATOM	1964	CG	TYR	A	296	-2.911	0.819	28.885	1.00	23.84		C
ANISOU	1964	CG	TYR	A	296	3624	3120	2315	-1134	1030	128	C
ATOM	1965	CD1	TYR	A	296	-3.200	2.040	29.489	1.00	26.58		C
ANISOU	1965	CD1	TYR	A	296	4035	3415	2648	-1234	1259	-2	C
ATOM	1966	CE1	TYR	A	296	-4.228	2.840	29.028	1.00	25.90		C
ANISOU	1966	CE1	TYR	A	296	4008	3153	2680	-1114	1428	-6	C
ATOM	1967	CZ	TYR	A	296	-4.988	2.423	27.955	1.00	25.70		C
ANISOU	1967	CZ	TYR	A	296	3958	3040	2765	-898	1355	121	C
ATOM	1968	OH	TYR	A	296	-6.012	3.211	27.492	1.00	24.67		O
ANISOU	1968	OH	TYR	A	296	3863	2764	2746	-770	1524	151	O
ATOM	1969	CE2	TYR	A	296	-4.730	1.216	27.344	1.00	25.68		C
ANISOU	1969	CE2	TYR	A	296	3888	3108	2762	-820	1126	223	C
ATOM	1970	CD2	TYR	A	296	-3.700	0.414	27.817	1.00	26.03		C
ANISOU	1970	CD2	TYR	A	296	3892	3288	2710	-934	971	227	C
ATOM	1971	C	TYR	A	296	-3.548	-1.574	30.405	1.00	26.07		C
ANISOU	1971	C	TYR	A	296	3739	3718	2447	-1288	626	475	C
ATOM	1972	O	TYR	A	296	-3.511	-2.617	29.758	1.00	23.75		O
ANISOU	1972	O	TYR	A	296	3411	3385	2229	-1193	455	598	O
ATOM	1973	N	ASP	A	297	-4.673	-1.045	30.869	1.00	23.05		N
ANISOU	1973	N	ASP	A	297	3371	3329	2058	-1310	731	476	N
ATOM	1974	CA	ASP	A	297	-5.971	-1.654	30.631	1.00	30.69		C
ANISOU	1974	CA	ASP	A	297	4297	4263	3100	-1225	642	635	C
ATOM	1975	CB	ASP	A	297	-6.575	-2.115	31.960	1.00	34.48		C
ANISOU	1975	CB	ASP	A	297	4701	4933	3469	-1387	572	777	C

ATOM	1976	CG	ASP	A	297	-7.921	-2.781	31.791	1.00	44.79	C	
ANISOU	1976	CG	ASP	A	297	5945	6223	4852	-1329	471	961	C
ATOM	1977	OD1	ASP	A	297	-8.344	-2.995	30.637	1.00	43.82	O	
ANISOU	1977	OD1	ASP	A	297	5830	5959	4860	-1176	436	975	O
ATOM	1978	OD2	ASP	A	297	-8.552	-3.092	32.822	1.00	53.99	O	
ANISOU	1978	OD2	ASP	A	297	7037	7542	5936	-1451	429	1097	O
ATOM	1979	C	ASP	A	297	-6.891	-0.646	29.954	1.00	29.44	C	
ANISOU	1979	C	ASP	A	297	4196	3950	3038	-1088	833	561	C
ATOM	1980	O	ASP	A	297	-7.234	0.374	30.543	1.00	31.66	O	
ANISOU	1980	O	ASP	A	297	4524	4221	3286	-1145	1030	472	O
ATOM	1981	N	GLY	A	298	-7.287	-0.937	28.718	1.00	29.14	N	
ANISOU	1981	N	GLY	A	298	4148	3801	3122	-913	785	608	N
ATOM	1982	CA	GLY	A	298	-8.092	-0.018	27.927	1.00	29.90	C	
ANISOU	1982	CA	GLY	A	298	4277	3767	3319	-759	959	577	C
ATOM	1983	C	GLY	A	298	-9.474	0.278	28.485	1.00	32.50	C	
ANISOU	1983	C	GLY	A	298	4572	4128	3647	-767	1039	669	C
ATOM	1984	O	GLY	A	298	-10.078	1.297	28.158	1.00	35.04	O	
ANISOU	1984	O	GLY	A	298	4933	4343	4040	-665	1241	642	O
ATOM	1985	N	LYS	A	299	-9.978	-0.607	29.339	1.00	37.87	N	
ANISOU	1985	N	LYS	A	299	5176	4958	4256	-887	887	802	N
ATOM	1986	CA	LYS	A	299	-11.322	-0.447	29.896	1.00	45.58	C	
ANISOU	1986	CA	LYS	A	299	6097	6000	5220	-902	944	918	C
ATOM	1987	CB	LYS	A	299	-11.708	-1.669	30.730	1.00	56.64	C	
ANISOU	1987	CB	LYS	A	299	7393	7575	6552	-1047	726	1102	C
ATOM	1988	CG	LYS	A	299	-11.985	-2.917	29.905	1.00	64.87	C	
ANISOU	1988	CG	LYS	A	299	8361	8599	7688	-1009	493	1243	C
ATOM	1989	CD	LYS	A	299	-12.221	-4.126	30.797	1.00	72.19	C	
ANISOU	1989	CD	LYS	A	299	9195	9657	8578	-1175	280	1445	C
ATOM	1990	CE	LYS	A	299	-10.966	-4.479	31.578	1.00	76.52	C	
ANISOU	1990	CE	LYS	A	299	9766	10271	9038	-1297	205	1422	C
ATOM	1991	NZ	LYS	A	299	-11.230	-5.460	32.665	1.00	80.22	N	
ANISOU	1991	NZ	LYS	A	299	10131	10893	9458	-1465	38	1653	N
ATOM	1992	C	LYS	A	299	-11.508	0.835	30.708	1.00	49.31	C	
ANISOU	1992	C	LYS	A	299	6639	6454	5641	-951	1209	809	C
ATOM	1993	O	LYS	A	299	-12.558	1.471	30.637	1.00	47.13	O	
ANISOU	1993	O	LYS	A	299	6356	6136	5415	-867	1362	857	O
ATOM	1994	N	ALA	A	300	-10.491	1.212	31.476	1.00	53.79	N	
ANISOU	1994	N	ALA	A	300	7268	7059	6110	-1098	1273	663	N
ATOM	1995	CA	ALA	A	300	-10.567	2.409	32.310	1.00	55.08	C	
ANISOU	1995	CA	ALA	A	300	7501	7209	6217	-1193	1539	523	C
ATOM	1996	CB	ALA	A	300	-9.330	2.520	33.186	1.00	56.78	C	
ANISOU	1996	CB	ALA	A	300	7743	7542	6290	-1405	1547	370	C
ATOM	1997	C	ALA	A	300	-10.758	3.685	31.486	1.00	57.38	C	
ANISOU	1997	C	ALA	A	300	7894	7246	6663	-1041	1805	420	C
ATOM	1998	O	ALA	A	300	-11.624	4.510	31.789	1.00	56.77	O	
ANISOU	1998	O	ALA	A	300	7840	7111	6618	-1012	2025	421	O
ATOM	1999	N	VAL	A	301	-9.940	3.846	30.450	1.00	50.07	N	
ANISOU	1999	N	VAL	A	301	7019	6171	5833	-941	1796	353	N
ATOM	2000	CA	VAL	A	301	-10.058	4.993	29.561	1.00	55.28	C	
ANISOU	2000	CA	VAL	A	301	7759	6588	6655	-786	2035	303	C
ATOM	2001	CB	VAL	A	301	-8.958	4.991	28.479	1.00	54.10	C	
ANISOU	2001	CB	VAL	A	301	7642	6334	6579	-705	1982	244	C
ATOM	2002	CG1	VAL	A	301	-9.477	5.604	27.191	1.00	55.81	C	
ANISOU	2002	CG1	VAL	A	301	7866	6373	6964	-465	2107	335	C
ATOM	2003	CG2	VAL	A	301	-7.725	5.729	28.974	1.00	56.53	C	
ANISOU	2003	CG2	VAL	A	301	8039	6586	6854	-879	2122	35	C
ATOM	2004	C	VAL	A	301	-11.418	4.998	28.887	1.00	51.70	C	
ANISOU	2004	C	VAL	A	301	7244	6097	6302	-582	2061	490	C
ATOM	2005	O	VAL	A	301	-12.097	6.022	28.840	1.00	50.81	O	
ANISOU	2005	O	VAL	A	301	7173	5849	6282	-499	2318	506	O
ATOM	2006	N	ALA	A	302	-11.807	3.838	28.369	1.00	45.95	N	
ANISOU	2006	N	ALA	A	302	6406	5494	5558	-514	1804	635	N
ATOM	2007	CA	ALA	A	302	-13.073	3.695	27.667	1.00	41.76	C	
ANISOU	2007	CA	ALA	A	302	5782	4980	5103	-346	1792	820	C
ATOM	2008	CB	ALA	A	302	-13.295	2.241	27.280	1.00	31.07	C	
ANISOU	2008	CB	ALA	A	302	4307	3788	3711	-359	1485	939	C
ATOM	2009	C	ALA	A	302	-14.239	4.210	28.507	1.00	47.64	C	
ANISOU	2009	C	ALA	A	302	6507	5764	5832	-362	1955	900	C
ATOM	2010	O	ALA	A	302	-15.052	5.005	28.036	1.00	48.73	O	
ANISOU	2010	O	ALA	A	302	6639	5806	6072	-204	2148	987	O

ATOM	2011	N	GLU	A	303	-14.314	3.758	29.753	1.00	55.52	N	
ANISOU	2011	N	GLU	A	303	7482	6918	6694	-549	1884	889	N
ATOM	2012	CA	GLU	A	303	-15.386	4.183	30.645	1.00	66.49	C	
ANISOU	2012	CA	GLU	A	303	8840	8385	8040	-583	2037	963	C
ATOM	2013	CB	GLU	A	303	-15.351	3.390	31.955	1.00	71.95	C	
ANISOU	2013	CB	GLU	A	303	9470	9315	8552	-804	1889	984	C
ATOM	2014	CG	GLU	A	303	-15.866	1.962	31.811	1.00	76.81	C	
ANISOU	2014	CG	GLU	A	303	9939	10105	9139	-826	1579	1193	C
ATOM	2015	CD	GLU	A	303	-15.702	1.134	33.073	1.00	81.57	C	
ANISOU	2015	CD	GLU	A	303	10474	10939	9578	-1046	1424	1254	C
ATOM	2016	OE1	GLU	A	303	-15.151	1.651	34.067	1.00	83.61	O	
ANISOU	2016	OE1	GLU	A	303	10790	11264	9716	-1185	1548	1120	O
ATOM	2017	OE2	GLU	A	303	-16.125	-0.042	33.067	1.00	81.57	O	
ANISOU	2017	OE2	GLU	A	303	10356	11064	9572	-1092	1182	1446	O
ATOM	2018	C	GLU	A	303	-15.334	5.686	30.909	1.00	70.17	C	
ANISOU	2018	C	GLU	A	303	9430	8663	8570	-558	2403	826	C
ATOM	2019	O	GLU	A	303	-16.367	6.320	31.114	1.00	71.21	O	
ANISOU	2019	O	GLU	A	303	9543	8774	8741	-477	2606	912	O
ATOM	2020	N	GLN	A	304	-14.133	6.256	30.886	1.00	72.85	N	
ANISOU	2020	N	GLN	A	304	9890	8861	8929	-634	2501	621	N
ATOM	2021	CA	GLN	A	304	-13.965	7.687	31.114	1.00	78.00	C	
ANISOU	2021	CA	GLN	A	304	10665	9301	9668	-649	2869	470	C
ATOM	2022	C	GLN	A	304	-14.464	8.523	29.936	1.00	77.03	C	
ANISOU	2022	C	GLN	A	304	10571	8939	9758	-394	3067	581	C
ATOM	2023	CB	GLN	A	304	-12.502	8.023	31.396	1.00	86.02	C	
ANISOU	2023	CB	GLN	A	304	11781	10252	10650	-832	2911	224	C
ATOM	2024	CG	GLN	A	304	-12.243	9.512	31.541	1.00	95.95	C	
ANISOU	2024	CG	GLN	A	304	13164	11263	12029	-875	3310	48	C
ATOM	2025	CD	GLN	A	304	-10.819	9.900	31.198	1.00	101.51	C	
ANISOU	2025	CD	GLN	A	304	13951	11839	12779	-976	3348	-138	C
ATOM	2026	OE1	GLN	A	304	-9.931	9.051	31.125	1.00	102.14	O	
ANISOU	2026	OE1	GLN	A	304	13995	12059	12753	-1054	3078	-169	O
ATOM	2027	NE2	GLN	A	304	-10.595	11.190	30.982	1.00	104.34	N	
ANISOU	2027	NE2	GLN	A	304	14411	11928	13305	-976	3699	-252	N
ATOM	2028	O	GLN	A	304	-15.031	9.599	30.123	1.00	78.69	O	
ANISOU	2028	O	GLN	A	304	10834	8998	10067	-337	3392	580	O
ATOM	2029	N	LEU	A	305	-14.243	8.029	28.722	1.00	74.16	N	
ANISOU	2029	N	LEU	A	305	10162	8554	9462	-240	2885	684	N
ATOM	2030	CA	LEU	A	305	-14.659	8.749	27.522	1.00	72.86	C	
ANISOU	2030	CA	LEU	A	305	9993	8212	9477	9	3048	823	C
ATOM	2031	C	LEU	A	305	-16.153	8.589	27.279	1.00	74.23	C	
ANISOU	2031	C	LEU	A	305	10040	8491	9673	178	3051	1070	C
ATOM	2032	CB	LEU	A	305	-13.879	8.262	26.298	1.00	67.95	C	
ANISOU	2032	CB	LEU	A	305	9343	7585	8890	104	2855	843	C
ATOM	2033	CG	LEU	A	305	-12.360	8.430	26.345	1.00	65.51	C	
ANISOU	2033	CG	LEU	A	305	9139	7183	8569	-35	2850	630	C
ATOM	2034	CD1	LEU	A	305	-11.730	7.899	25.068	1.00	63.05	C	
ANISOU	2034	CD1	LEU	A	305	8776	6898	8283	87	2662	683	C
ATOM	2035	CD2	LEU	A	305	-11.983	9.889	26.569	1.00	66.55	C	
ANISOU	2035	CD2	LEU	A	305	9403	7052	8833	-71	3227	516	C
ATOM	2036	O	LEU	A	305	-16.876	9.574	27.134	1.00	77.85	O	
ANISOU	2036	O	LEU	A	305	10514	8815	10251	319	3339	1174	O
ATOM	2037	N	PHE	A	306	-16.606	7.341	27.232	1.00	73.07	N	
ANISOU	2037	N	PHE	A	306	9760	8588	9417	156	2741	1174	N
ATOM	2038	CA	PHE	A	306	-18.018	7.042	27.029	1.00	74.49	C	
ANISOU	2038	CA	PHE	A	306	9789	8917	9596	277	2706	1413	C
ATOM	2039	C	PHE	A	306	-18.761	6.976	28.361	1.00	80.01	C	
ANISOU	2039	C	PHE	A	306	10464	9745	10191	149	2761	1429	C
ATOM	2040	CB	PHE	A	306	-18.182	5.722	26.275	1.00	67.40	C	
ANISOU	2040	CB	PHE	A	306	8745	8218	8644	286	2361	1519	C
ATOM	2041	CG	PHE	A	306	-17.499	5.698	24.937	1.00	61.12	C	
ANISOU	2041	CG	PHE	A	306	7950	7351	7921	408	2299	1508	C
ATOM	2042	CD1	PHE	A	306	-18.170	6.101	23.794	1.00	58.13	C	
ANISOU	2042	CD1	PHE	A	306	7479	6978	7630	627	2381	1696	C
ATOM	2043	CD2	PHE	A	306	-16.187	5.269	24.823	1.00	58.07	C	
ANISOU	2043	CD2	PHE	A	306	7642	6922	7501	306	2161	1328	C
ATOM	2044	CE1	PHE	A	306	-17.544	6.077	22.562	1.00	56.97	C	
ANISOU	2044	CE1	PHE	A	306	7318	6803	7526	734	2326	1699	C
ATOM	2045	CE2	PHE	A	306	-15.555	5.245	23.594	1.00	53.90	C	
ANISOU	2045	CE2	PHE	A	306	7106	6351	7025	418	2112	1324	C

ATOM	2046	CZ	PHE	A	306	-16.234	5.649	22.462	1.00	54.06	C	
ANISOU	2046	CZ	PHE	A	306	7034	6385	7123	629	2194	1507	C
ATOM	2047	O	PHE	A	306	-19.673	7.762	28.616	1.00	82.85	O	
ANISOU	2047	O	PHE	A	306	10811	10068	10601	246	3011	1530	O
TER	2048		PHE	A	306							
ATOM	2048	C18	RET	B	400	8.566	6.307	11.943	1.00	24.03	C	
ATOM	2049	C5	RET	B	400	7.379	7.203	12.021	1.00	20.83	C	
ATOM	2050	C6	RET	B	400	6.109	6.750	11.941	1.00	19.19	C	
ATOM	2051	C1	RET	B	400	4.937	7.703	11.796	1.00	24.47	C	
ATOM	2052	C2	RET	B	400	5.388	9.090	11.313	1.00	28.40	C	
ATOM	2053	C3	RET	B	400	6.586	9.596	12.091	1.00	28.52	C	
ATOM	2054	C4	RET	B	400	7.743	8.644	11.872	1.00	24.32	C	
ATOM	2055	C16	RET	B	400	4.215	7.856	13.147	1.00	27.06	C	
ATOM	2056	C17	RET	B	400	3.904	7.219	10.773	1.00	21.24	C	
ATOM	2057	C7	RET	B	400	5.842	5.302	12.008	1.00	21.50	C	
ATOM	2058	C8	RET	B	400	4.795	4.570	12.433	1.00	26.28	C	
ATOM	2059	C9	RET	B	400	4.762	3.098	12.339	1.00	30.68	C	
ATOM	2060	C10	RET	B	400	3.771	2.341	12.851	1.00	37.20	C	
ATOM	2061	C11	RET	B	400	2.534	2.856	13.398	1.00	39.19	C	
ATOM	2062	C12	RET	B	400	1.742	2.158	14.216	1.00	42.22	C	
ATOM	2063	C13	RET	B	400	0.908	1.020	13.830	1.00	42.10	C	
ATOM	2064	C14	RET	B	400	-0.348	0.984	14.271	1.00	42.95	C	
ATOM	2065	C15	RET	B	400	-1.240	-0.161	14.008	1.00	45.99	C	
ATOM	2066	O1	RET	B	400	-2.427	-0.130	14.262	1.00	48.88	O	
ATOM	2067	C20	RET	B	400	1.577	-0.220	13.364	1.00	47.36	C	
ATOM	2068	C19	RET	B	400	6.010	2.370	11.977	1.00	29.34	C	
TER	2070		RET	B	400							
HETATM	2069	O	HOH	S	1	0.000	0.651	0.000	1.00	13.96	O	
HETATM	2070	O	HOH	S	2	-2.133	13.731	1.777	1.00	22.07	O	
HETATM	2071	O	HOH	S	3	-2.096	11.821	29.637	1.00	17.64	O	
HETATM	2072	O	HOH	S	4	3.919	21.110	24.583	1.00	18.33	O	
HETATM	2073	O	HOH	S	5	9.437	16.660	23.224	1.00	23.00	O	
HETATM	2074	O	HOH	S	6	6.358	19.658	23.907	1.00	24.06	O	
HETATM	2075	O	HOH	S	7	-4.490	14.678	4.789	1.00	20.15	O	
HETATM	2076	O	HOH	S	8	-7.142	2.228	25.372	1.00	21.65	O	
HETATM	2077	O	HOH	S	9	-8.336	7.433	1.385	1.00	17.96	O	
HETATM	2078	O	HOH	S	10	7.334	13.553	32.082	1.00	20.90	O	
HETATM	2079	O	HOH	S	11	9.558	16.829	20.553	1.00	22.68	O	
HETATM	2080	O	HOH	S	12	2.599	24.372	26.568	1.00	20.08	O	
HETATM	2081	O	HOH	S	13	2.897	21.722	17.302	1.00	21.79	O	
HETATM	2082	O	HOH	S	14	-1.637	-3.738	28.240	1.00	27.29	O	
HETATM	2083	O	HOH	S	15	9.398	14.460	24.772	1.00	19.86	O	
HETATM	2084	O	HOH	S	16	3.635	19.004	15.126	1.00	17.92	O	
HETATM	2085	O	HOH	S	17	-13.363	28.258	3.997	1.00	25.66	O	
HETATM	2086	O	HOH	S	18	-6.952	-0.649	7.818	1.00	26.87	O	
HETATM	2087	O	HOH	S	19	11.314	18.185	18.960	1.00	27.16	O	
HETATM	2088	O	HOH	S	20	-1.607	15.342	35.280	1.00	26.47	O	
HETATM	2089	O	HOH	S	21	6.425	1.734	-0.205	1.00	38.61	O	
HETATM	2090	O	HOH	S	22	2.313	20.486	9.133	1.00	23.10	O	
HETATM	2091	O	HOH	S	23	9.023	5.797	0.673	1.00	24.20	O	
HETATM	2092	O	HOH	S	24	4.335	22.275	27.010	1.00	20.43	O	
HETATM	2093	O	HOH	S	25	-0.548	7.973	34.292	1.00	21.05	O	
HETATM	2094	O	HOH	S	26	7.175	15.440	2.371	1.00	30.09	O	
HETATM	2095	O	HOH	S	27	-0.435	23.547	31.454	1.00	23.49	O	
HETATM	2096	O	HOH	S	28	-3.491	21.347	14.159	1.00	19.10	O	
HETATM	2097	O	HOH	S	29	1.440	-0.890	39.778	1.00	28.97	O	
HETATM	2098	O	HOH	S	30	-7.184	16.618	27.444	1.00	20.47	O	
HETATM	2099	O	HOH	S	31	-1.473	27.956	11.524	1.00	25.04	O	
HETATM	2100	O	HOH	S	32	-11.282	-1.210	8.978	1.00	28.24	O	
HETATM	2101	O	HOH	S	33	1.005	30.504	17.501	1.00	28.06	O	
HETATM	2102	O	HOH	S	34	-1.277	28.729	21.622	1.00	20.52	O	
HETATM	2103	O	HOH	S	35	-3.267	6.266	1.897	1.00	25.74	O	
HETATM	2104	O	HOH	S	36	2.622	24.010	15.948	1.00	27.68	O	
HETATM	2105	O	HOH	S	37	1.438	24.488	21.287	1.00	30.11	O	
HETATM	2106	O	HOH	S	38	-0.826	-1.538	7.113	1.00	30.49	O	
HETATM	2107	O	HOH	S	39	-6.048	5.704	1.875	1.00	28.70	O	
HETATM	2108	O	HOH	S	40	-10.909	23.138	29.911	1.00	28.45	O	
HETATM	2109	O	HOH	S	41	-12.178	1.959	15.891	1.00	21.80	O	
HETATM	2110	O	HOH	S	42	-4.871	-3.160	8.785	1.00	27.47	O	
HETATM	2111	O	HOH	S	43	-6.420	37.906	13.884	1.00	29.95	O	

HETATM	2112	O	HOH	S	44	-14.312	1.809	14.003	1.00	29.06	O
HETATM	2113	O	HOH	S	45	2.651	25.453	23.922	1.00	24.99	O
HETATM	2114	O	HOH	S	46	-8.858	1.808	3.996	1.00	29.91	O
HETATM	2115	O	HOH	S	47	-4.620	1.086	32.770	1.00	34.97	O
HETATM	2116	O	HOH	S	48	11.496	8.916	35.230	1.00	30.42	O
HETATM	2117	O	HOH	S	49	-2.524	6.251	33.694	1.00	21.97	O
HETATM	2118	O	HOH	S	50	16.867	-6.095	16.604	1.00	29.61	O
HETATM	2119	O	HOH	S	51	5.857	-4.306	22.058	1.00	28.81	O
HETATM	2120	O	HOH	S	52	7.222	21.074	21.346	1.00	37.21	O
HETATM	2121	O	HOH	S	53	-1.907	1.595	34.119	1.00	27.91	O
HETATM	2122	O	HOH	S	54	-16.351	3.085	10.414	1.00	30.18	O
HETATM	2123	O	HOH	S	55	-0.510	-5.115	22.034	1.00	36.39	O
HETATM	2124	O	HOH	S	56	-15.729	16.587	7.911	1.00	30.94	O
HETATM	2125	O	HOH	S	57	15.865	-2.025	20.432	1.00	34.07	O
HETATM	2126	O	HOH	S	58	-4.268	2.277	3.234	1.00	40.73	O
HETATM	2127	O	HOH	S	59	8.092	-1.743	34.109	1.00	26.29	O
HETATM	2128	O	HOH	S	60	16.247	9.718	18.653	1.00	36.77	O
HETATM	2129	O	HOH	S	61	-0.683	8.582	37.016	1.00	31.29	O
HETATM	2130	O	HOH	S	62	-12.591	13.836	14.186	1.00	39.62	O
HETATM	2131	O	HOH	S	63	-13.579	37.901	29.986	1.00	35.98	O
HETATM	2132	O	HOH	S	64	5.403	20.392	14.042	1.00	42.41	O
HETATM	2133	O	HOH	S	65	-4.986	-7.028	18.075	1.00	41.39	O
HETATM	2134	O	HOH	S	66	16.577	7.170	25.744	1.00	35.43	O
HETATM	2135	O	HOH	S	67	9.640	20.976	15.306	1.00	34.95	O
HETATM	2136	O	HOH	S	68	0.856	15.785	5.422	1.00	28.77	O
HETATM	2137	O	HOH	S	69	-8.421	23.333	30.937	1.00	33.07	O
HETATM	2138	O	HOH	S	70	18.203	2.867	18.730	1.00	37.79	O
HETATM	2139	O	HOH	S	71	15.682	-1.561	28.279	1.00	37.18	O
HETATM	2140	O	HOH	S	72	-1.524	16.588	2.784	1.00	31.98	O
HETATM	2141	O	HOH	S	73	-15.154	21.624	-2.325	1.00	32.35	O
HETATM	2142	O	HOH	S	74	-1.429	-0.507	23.121	1.00	33.19	O
HETATM	2143	O	HOH	S	75	-4.657	21.385	11.409	1.00	40.45	O
HETATM	2144	O	HOH	S	76	-13.800	11.662	14.935	1.00	35.55	O
HETATM	2145	O	HOH	S	77	5.413	23.549	19.547	1.00	37.78	O
HETATM	2146	O	HOH	S	78	-17.268	18.648	0.677	1.00	50.14	O
HETATM	2147	O	HOH	S	79	-20.316	20.606	10.935	1.00	32.73	O
HETATM	2148	O	HOH	S	80	-6.883	2.958	2.763	1.00	29.52	O
HETATM	2149	O	HOH	S	81	-7.090	21.341	32.642	1.00	36.87	O
HETATM	2150	O	HOH	S	82	-8.178	23.606	-3.008	1.00	36.66	O
HETATM	2151	O	HOH	S	83	8.410	-3.710	27.304	1.00	34.84	O
HETATM	2152	O	HOH	S	84	-12.203	18.870	18.670	1.00	48.65	O
HETATM	2153	O	HOH	S	85	-12.803	25.001	23.276	1.00	35.79	O
HETATM	2154	O	HOH	S	86	6.899	23.291	27.001	1.00	33.64	O
HETATM	2155	O	HOH	S	87	-19.382	25.567	1.014	1.00	37.21	O
HETATM	2156	O	HOH	S	88	-12.793	8.899	14.828	1.00	39.31	O
HETATM	2157	O	HOH	S	89	-12.434	-3.213	17.267	1.00	42.95	O
HETATM	2158	O	HOH	S	90	-2.557	7.150	38.231	1.00	48.69	O
HETATM	2159	O	HOH	S	91	11.288	12.940	34.177	1.00	47.67	O
HETATM	2160	O	HOH	S	92	13.372	6.909	36.188	1.00	40.42	O
HETATM	2161	O	HOH	S	93	-3.758	5.401	36.088	1.00	38.01	O
HETATM	2162	O	HOH	S	94	-2.294	3.966	32.582	1.00	31.12	O
HETATM	2163	O	HOH	S	95	-19.778	27.040	7.748	1.00	37.31	O
HETATM	2164	O	HOH	S	96	8.837	13.675	34.131	1.00	29.78	O
HETATM	2165	O	HOH	S	97	7.635	-2.031	7.663	1.00	35.46	O
HETATM	2166	O	HOH	S	98	2.995	22.775	13.352	1.00	35.12	O
HETATM	2167	O	HOH	S	99	15.122	13.745	16.763	1.00	47.79	O
HETATM	2168	O	HOH	S	100	1.813	22.836	10.703	1.00	41.28	O
HETATM	2169	O	HOH	S	101	-10.038	25.064	-6.452	1.00	44.75	O
HETATM	2170	O	HOH	S	102	-14.930	12.137	19.929	1.00	34.74	O
HETATM	2171	O	HOH	S	103	-4.649	14.492	32.539	1.00	52.16	O
HETATM	2172	O	HOH	S	104	-6.057	13.569	30.618	1.00	62.62	O
HETATM	2173	O	HOH	S	105	-7.352	3.144	30.422	1.00	44.77	O
HETATM	2174	O	HOH	S	106	-5.630	37.168	11.045	1.00	40.05	O
HETATM	2175	O	HOH	S	107	-1.060	20.812	7.032	1.00	34.64	O
HETATM	2176	O	HOH	S	108	-15.474	14.040	8.542	1.00	38.18	O
HETATM	2177	O	HOH	S	109	-15.858	5.388	8.776	1.00	35.14	O
HETATM	2178	O	HOH	S	110	-10.706	19.483	16.806	1.00	38.61	O
HETATM	2179	O	HOH	S	111	7.588	-12.614	12.036	1.00	38.59	O
HETATM	2180	O	HOH	S	112	-15.526	30.490	26.155	1.00	45.64	O
HETATM	2181	O	HOH	S	113	11.413	18.303	23.928	1.00	43.56	O

HETATM	2182	O	HOH	S	114	-14.733	-2.210	16.502	1.00	53.35	O
HETATM	2183	O	HOH	S	115	-11.702	5.699	0.780	1.00	40.41	O
HETATM	2184	O	HOH	S	116	-8.576	39.348	14.786	1.00	46.18	O
HETATM	2185	O	HOH	S	117	-19.546	21.087	17.662	1.00	39.61	O
HETATM	2186	O	HOH	S	118	-15.062	17.390	12.226	1.00	34.09	O
HETATM	2187	O	HOH	S	119	-15.390	18.603	9.758	1.00	35.44	O
HETATM	2188	O	HOH	S	120	3.793	-11.450	13.742	1.00	39.35	O
HETATM	2189	O	HOH	S	121	-16.757	2.866	13.298	1.00	44.41	O
HETATM	2190	O	HOH	S	122	14.230	16.715	29.085	1.00	42.02	O
HETATM	2191	O	HOH	S	123	5.475	-0.224	4.233	1.00	35.98	O
HETATM	2192	O	HOH	S	124	-14.786	12.840	5.752	1.00	43.03	O
HETATM	2193	O	HOH	S	125	-14.710	14.609	11.468	1.00	35.97	O
HETATM	2194	O	HOH	S	126	-15.922	12.543	13.063	1.00	42.56	O
HETATM	2195	O	HOH	S	127	-0.931	-7.460	12.163	1.00	61.81	O
HETATM	2196	O	HOH	S	128	7.376	22.720	15.045	1.00	49.59	O
HETATM	2197	O	HOH	S	129	-13.591	12.984	-0.094	1.00	35.56	O
HETATM	2198	O	HOH	S	130	13.456	16.871	23.173	1.00	61.44	O
HETATM	2199	O	HOH	S	131	16.443	-4.892	20.452	1.00	57.87	O
HETATM	2200	O	HOH	S	132	-15.496	12.141	17.089	1.00	42.68	O
HETATM	2201	O	HOH	S	133	-2.453	22.491	9.246	1.00	40.39	O
HETATM	2202	O	HOH	S	134	0.266	32.605	16.048	1.00	44.10	O
HETATM	2203	O	HOH	S	135	2.681	-10.875	16.636	1.00	56.07	O
HETATM	2204	O	HOH	S	136	-3.113	2.898	36.417	1.00	33.97	O
HETATM	2205	O	HOH	S	137	-6.504	-6.274	23.108	1.00	44.45	O
HETATM	2206	O	HOH	S	138	7.090	20.075	34.782	1.00	44.23	O
HETATM	2207	O	HOH	S	139	-23.577	19.376	7.643	1.00	57.66	O
HETATM	2208	O	HOH	S	140	-14.666	21.923	22.392	1.00	39.18	O
HETATM	2209	O	HOH	S	141	10.770	15.026	2.012	1.00	41.72	O
HETATM	2210	O	HOH	S	142	8.783	21.154	23.313	1.00	57.45	O
HETATM	2211	O	HOH	S	143	-10.499	29.444	30.829	1.00	41.31	O
HETATM	2212	O	HOH	S	144	1.158	26.043	11.650	1.00	41.60	O
HETATM	2213	O	HOH	S	145	10.583	-3.302	8.368	1.00	37.63	O
HETATM	2214	O	HOH	S	146	-12.862	1.419	9.831	1.00	40.35	O
HETATM	2215	O	HOH	S	147	7.127	17.781	1.558	1.00	40.51	O
HETATM	2217	O	HOH	S	149	-12.162	9.048	12.327	1.00	43.59	O
HETATM	2218	O	HOH	S	150	-6.454	-5.457	8.264	1.00	43.98	O
HETATM	2219	O	HOH	S	151	-6.261	-3.018	27.138	1.00	34.75	O
HETATM	2220	O	HOH	S	152	-15.048	16.842	-1.749	1.00	49.24	O
HETATM	2221	O	HOH	S	153	-17.145	20.957	-0.674	1.00	49.03	O
HETATM	2222	O	HOH	S	154	-6.492	0.643	5.685	1.00	57.42	O
HETATM	2223	O	HOH	S	155	10.138	20.467	17.850	1.00	38.66	O
HETATM	2224	O	HOH	S	156	-13.113	-4.431	22.891	1.00	42.34	O
HETATM	2225	O	HOH	S	157	-18.599	28.540	9.738	1.00	44.48	O
HETATM	2226	O	HOH	S	158	1.440	8.249	38.825	1.00	34.15	O
HETATM	2227	O	HOH	S	159	-17.487	11.204	11.241	1.00	43.55	O
HETATM	2228	O	HOH	S	160	-13.005	35.830	28.230	1.00	46.13	O
HETATM	2229	O	HOH	S	161	14.968	16.343	17.364	1.00	49.07	O
HETATM	2230	O	HOH	S	162	17.690	1.881	30.060	1.00	45.20	O
HETATM	2231	O	HOH	S	163	14.305	17.368	25.553	1.00	43.40	O
HETATM	2232	O	HOH	S	164	-16.960	21.730	20.801	1.00	49.71	O
HETATM	2233	O	HOH	S	165	-12.393	37.640	9.152	1.00	38.21	O
HETATM	2234	O	HOH	S	166	-14.060	23.150	24.599	1.00	46.10	O
HETATM	2235	O	HOH	S	167	-4.791	32.122	6.374	1.00	46.22	O
HETATM	2236	O	HOH	S	168	-4.301	22.543	3.810	1.00	48.42	O
HETATM	2237	O	HOH	S	169	15.943	11.623	24.884	1.00	50.99	O
HETATM	2238	O	HOH	S	170	-19.005	5.400	30.735	1.00	58.00	O
HETATM	2239	O	HOH	S	171	-7.271	-8.151	19.022	1.00	53.29	O
HETATM	2240	O	HOH	S	172	-1.872	-3.529	8.362	1.00	47.39	O
HETATM	2241	O	HOH	S	173	4.761	22.908	22.252	1.00	37.73	O
HETATM	2242	O	HOH	S	174	-19.085	-0.465	22.471	1.00	42.62	O
HETATM	2243	O	HOH	S	175	-7.644	25.820	31.832	1.00	56.83	O
HETATM	2244	O	HOH	S	176	-3.747	20.187	34.779	1.00	45.66	O
HETATM	2245	O	HOH	S	177	6.131	-5.488	24.794	1.00	44.48	O
HETATM	2246	O	HOH	S	178	-19.285	25.682	22.693	1.00	40.83	O
HETATM	2247	O	HOH	S	179	-13.581	30.833	30.486	1.00	50.17	O
HETATM	2249	O	HOH	S	181	-0.230	23.712	9.483	1.00	51.31	O
HETATM	2250	O	HOH	S	182	-7.118	11.374	30.474	1.00	57.03	O
HETATM	2251	O	HOH	S	183	-15.175	0.191	29.482	1.00	53.33	O
HETATM	2252	O	HOH	S	184	-7.734	27.736	30.132	1.00	44.89	O
HETATM	2253	O	HOH	S	185	4.105	-9.266	18.578	1.00	36.66	O

HETATM	2254	O	HOH	S	186	7.440	25.255	28.502	1.00	37.93	O
HETATM	2255	O	HOH	S	187	-13.626	26.429	25.545	1.00	42.59	O
HETATM	2256	O	HOH	S	188	1.217	-5.344	26.961	1.00	44.72	O
HETATM	2257	O	HOH	S	189	-24.254	26.752	10.190	1.00	42.07	O
HETATM	2258	O	HOH	S	190	13.310	15.135	1.824	1.00	46.20	O
HETATM	2259	O	HOH	S	191	15.841	0.794	4.191	1.00	48.56	O
HETATM	2260	O	HOH	S	192	-15.274	5.530	2.295	1.00	56.08	O
HETATM	2261	O	HOH	S	193	-19.871	27.883	-0.195	1.00	54.43	O
HETATM	2262	O	HOH	S	194	-20.988	23.641	-0.237	1.00	54.18	O
HETATM	2263	O	HOH	S	195	17.175	-1.717	16.772	1.00	50.97	O
HETATM	2264	O	HOH	S	196	-0.358	26.254	9.474	1.00	48.57	O
HETATM	2265	O	HOH	S	197	3.224	17.391	12.883	1.00	42.27	O
HETATM	2266	O	HOH	S	198	-14.218	19.117	-2.709	1.00	48.23	O
HETATM	2267	O	HOH	S	199	6.021	10.896	40.004	1.00	54.09	O
HETATM	2268	O	HOH	S	200	-4.608	16.859	34.281	1.00	62.14	O
HETATM	2269	O	HOH	S	201	18.808	3.959	16.353	1.00	56.19	O
HETATM	2270	O	HOH	S	202	7.850	-0.522	5.441	1.00	50.15	O
HETATM	2271	O	HOH	S	203	-16.608	3.683	5.955	1.00	55.92	O
HETATM	2272	O	HOH	S	204	-2.814	20.472	3.667	1.00	45.71	O
HETATM	2273	O	HOH	S	205	15.936	13.635	26.811	1.00	54.30	O
HETATM	2274	O	HOH	S	206	0.000	13.999	0.000	1.00	46.38	O
HETATM	2275	O	HOH	S	207	-0.645	36.948	15.890	1.00	50.18	O
HETATM	2276	O	HOH	S	208	14.153	7.512	3.311	1.00	44.68	O
HETATM	2277	O	HOH	S	209	-18.187	12.964	9.175	1.00	54.27	O
HETATM	2278	O	HOH	S	210	-16.083	12.586	1.543	1.00	61.75	O
HETATM	2279	O	HOH	S	211	-8.252	38.565	17.174	1.00	54.59	O
HETATM	2280	O	HOH	S	212	-2.175	15.710	-2.188	1.00	58.00	O
HETATM	2281	O	HOH	S	213	-13.268	-4.614	19.307	1.00	48.40	O
HETATM	2282	O	HOH	S	214	-10.949	2.273	2.002	1.00	44.31	O
HETATM	2283	O	HOH	S	215	-13.731	33.153	29.130	1.00	48.38	O
HETATM	2284	O	HOH	S	216	13.381	22.168	10.358	1.00	54.34	O
HETATM	2285	O	HOH	S	217	-4.219	24.995	3.136	1.00	54.49	O
HETATM	2286	O	HOH	S	218	-20.139	-5.309	22.839	1.00	60.99	O
HETATM	2287	O	HOH	S	219	-8.657	15.936	29.633	1.00	48.40	O
HETATM	2288	O	HOH	S	220	-2.634	3.435	39.169	1.00	54.30	O
HETATM	2289	O	HOH	S	221	15.585	-8.679	16.967	1.00	55.63	O
HETATM	2290	O	HOH	S	222	15.005	13.114	13.869	1.00	51.43	O
HETATM	2291	O	HOH	S	223	-12.186	-4.898	14.875	1.00	56.00	O
HETATM	2292	O	HOH	S	224	16.375	16.826	15.109	1.00	64.33	O
HETATM	2293	O	HOH	S	225	0.299	3.907	16.781	1.00	21.95	O
HETATM	2294	O	HOH	S	226	-9.094	20.402	34.453	1.00	61.15	O
HETATM	2295	O	HOH	S	227	-20.077	18.089	12.589	1.00	58.07	O
HETATM	2296	O	HOH	S	228	18.911	0.123	18.799	1.00	47.44	O
HETATM	2297	O	HOH	S	229	-16.101	22.555	-4.717	1.00	52.80	O
HETATM	2299	O	HOH	S	231	-12.408	37.461	6.289	1.00	44.62	O
HETATM	2300	O	HOH	S	232	-14.404	39.376	5.611	1.00	55.08	O
HETATM	2301	O	HOH	S	233	-18.622	-6.773	21.367	1.00	66.84	O
HETATM	2302	O	HOH	S	234	-8.245	7.819	32.567	1.00	57.83	O
HETATM	2303	O	HOH	S	235	-1.787	22.086	35.014	1.00	63.53	O
HETATM	2304	O	HOH	S	236	5.615	25.465	23.164	1.00	56.74	O
HETATM	2305	O	HOH	S	237	19.415	-2.845	16.765	1.00	50.94	O
HETATM	2306	O	HOH	S	238	-25.519	26.276	7.709	1.00	46.07	O
HETATM	2307	O	HOH	S	239	-11.870	16.377	27.752	1.00	45.26	O
HETATM	2308	O	HOH	S	240	9.021	-10.829	18.908	1.00	58.67	O
HETATM	2309	O	HOH	S	241	-21.666	26.018	3.058	1.00	50.38	O
HETATM	2310	O	HOH	S	242	-13.709	11.319	-2.340	1.00	39.02	O
HETATM	2311	O	HOH	S	243	10.391	-8.588	18.259	1.00	61.78	O
HETATM	2312	O	HOH	S	244	15.626	16.644	12.660	1.00	54.88	O
HETATM	2313	O	HOH	S	245	4.202	25.619	12.365	1.00	62.28	O
HETATM	2314	O	HOH	S	246	10.783	-5.037	27.674	1.00	52.02	O
HETATM	2315	O	HOH	S	247	2.141	18.396	34.178	1.00	38.44	O
HETATM	2316	O	HOH	S	248	20.065	-5.349	16.855	1.00	39.55	O
HETATM	2317	O	HOH	S	249	-1.203	4.169	14.481	1.00	32.54	O
HETATM	2318	O	HOH	S	250	9.748	22.909	29.823	1.00	48.65	O
HETATM	2319	O	HOH	S	251	18.255	-1.190	20.912	1.00	52.48	O
HETATM	2320	O	HOH	S	252	-3.650	14.054	-3.286	1.00	46.05	O
HETATM	2321	O	HOH	S	253	18.659	-0.840	12.243	1.00	43.68	O
HETATM	2322	O	HOH	S	254	-13.401	36.550	25.786	1.00	48.25	O
HETATM	2323	O	HOH	S	255	11.479	20.551	30.970	1.00	47.64	O
HETATM	2324	O	HOH	S	256	1.625	27.116	19.655	1.00	57.34	O

HETATM	2325	O	HOH	S	257	11.867	11.294	36.524	1.00	56.39	O
HETATM	2326	O	HOH	S	258	-10.006	42.022	16.109	1.00	65.93	O
HETATM	2327	O	HOH	S	259	-21.539	27.767	20.241	1.00	44.33	O
HETATM	2328	O	HOH	S	260	-15.109	2.505	3.185	1.00	55.11	O
HETATM	2329	O	HOH	S	261	-1.538	2.450	41.305	1.00	53.50	O
HETATM	2330	O	HOH	S	262	-6.171	34.176	5.315	1.00	65.41	O
HETATM	2331	O	HOH	S	263	-3.828	38.765	14.310	1.00	57.43	O
HETATM	2332	O	HOH	S	264	-11.535	1.111	6.812	1.00	40.01	O
HETATM	2333	O	HOH	S	265	0.376	-10.609	15.551	1.00	51.23	O
HETATM	2334	O	HOH	S	266	7.451	22.848	30.975	1.00	55.10	O
HETATM	2335	O	HOH	S	267	15.769	0.329	30.736	1.00	53.91	O
HETATM	2336	O	HOH	S	268	13.138	-5.411	19.590	1.00	47.45	O
HETATM	2337	O	HOH	S	269	9.036	20.824	31.417	1.00	52.23	O
HETATM	2339	O	HOH	S	271	20.782	-0.963	13.750	1.00	62.37	O
HETATM	2340	O	HOH	S	272	-16.114	27.507	25.011	1.00	57.42	O
HETATM	2341	O	HOH	S	273	-6.289	-5.692	27.599	1.00	46.02	O
HETATM	2342	O	HOH	S	274	-14.916	9.334	-1.282	1.00	59.72	O
HETATM	2343	O	HOH	S	275	5.579	-13.945	13.948	1.00	52.20	O
HETATM	2344	O	HOH	S	276	5.228	27.250	21.027	1.00	43.65	O
HETATM	2345	O	HOH	S	277	18.741	5.948	23.010	1.00	53.71	O
HETATM	2346	O	HOH	S	278	-3.254	2.415	13.592	1.00	42.15	O
HETATM	2348	O	HOH	S	280	13.324	13.938	23.041	1.00	44.78	O
HETATM	2349	O	HOH	S	281	-11.151	38.866	19.484	1.00	49.85	O
HETATM	2350	O	HOH	S	282	-21.017	19.270	16.854	1.00	68.17	O
HETATM	2351	O	HOH	S	283	16.542	10.999	21.812	1.00	51.19	O
HETATM	2352	O	HOH	S	284	4.684	18.965	11.159	1.00	51.36	O
HETATM	2353	O	HOH	S	285	-10.652	36.540	4.565	1.00	44.83	O
HETATM	2354	O	HOH	S	286	10.066	-7.789	7.212	1.00	50.87	O
HETATM	2355	O	HOH	S	287	-15.897	14.679	26.844	1.00	59.46	O
HETATM	2356	O	HOH	S	288	0.002	19.869	33.823	1.00	49.20	O
HETATM	2357	O	HOH	S	289	17.837	8.618	22.256	1.00	60.36	O
HETATM	2358	O	HOH	S	290	10.325	-11.630	13.910	1.00	37.15	O
HETATM	2359	O	HOH	S	291	12.233	13.969	4.969	1.00	45.26	O
HETATM	2360	O	HOH	S	292	8.026	3.349	-0.713	1.00	46.61	O
HETATM	2361	O	HOH	S	293	-16.082	-4.892	22.518	1.00	61.25	O
HETATM	2362	O	HOH	S	294	-17.200	-2.644	23.870	1.00	59.86	O
HETATM	2363	O	HOH	S	295	19.399	-7.610	16.089	1.00	53.06	O
HETATM	2364	O	HOH	S	296	-7.055	16.430	32.282	1.00	62.01	O
HETATM	2365	O	HOH	S	297	1.595	-11.134	12.005	1.00	51.93	O
HETATM	2366	O	HOH	S	298	-19.109	32.138	20.979	1.00	55.48	O
HETATM	2367	O	HOH	S	299	16.660	10.959	9.716	1.00	56.09	O
HETATM	2368	O	HOH	S	300	12.049	16.481	5.499	1.00	50.61	O
HETATM	2369	O	HOH	S	301	-20.968	26.572	13.087	1.00	47.61	O
HETATM	2370	O	HOH	S	302	-4.515	0.152	1.111	1.00	61.83	O
HETATM	2371	O	HOH	S	303	11.378	-5.549	7.022	1.00	66.60	O
HETATM	2372	O	HOH	S	304	8.901	27.289	26.656	1.00	54.68	O
HETATM	2373	O	HOH	S	305	-17.063	-3.778	15.831	1.00	56.98	O
HETATM	2374	O	HOH	S	306	9.201	21.633	8.018	1.00	42.14	O
HETATM	2375	O	HOH	S	307	-8.104	23.160	-6.001	1.00	48.40	O
HETATM	2377	O	HOH	S	309	-12.581	18.698	29.365	1.00	67.30	O
HETATM	2378	O	HOH	S	310	-6.488	21.061	-2.477	1.00	46.69	O
HETATM	2379	O	HOH	S	311	-17.221	-6.079	25.012	1.00	62.62	O
HETATM	2380	O	HOH	S	312	-2.580	35.629	9.721	1.00	46.00	O
HETATM	2381	O	HOH	S	313	19.084	-10.119	15.726	1.00	51.22	O
HETATM	2383	O	HOH	S	315	-4.425	21.833	-1.044	1.00	66.35	O
TER	2379		HOH	S	315						
END											