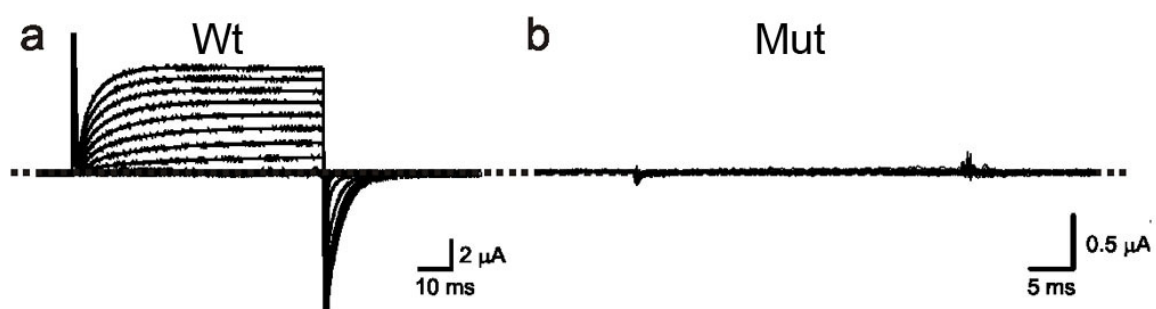


Supplementary Figure 1

Comparison of the tetrameric Shaker channel and a concatemer construct.

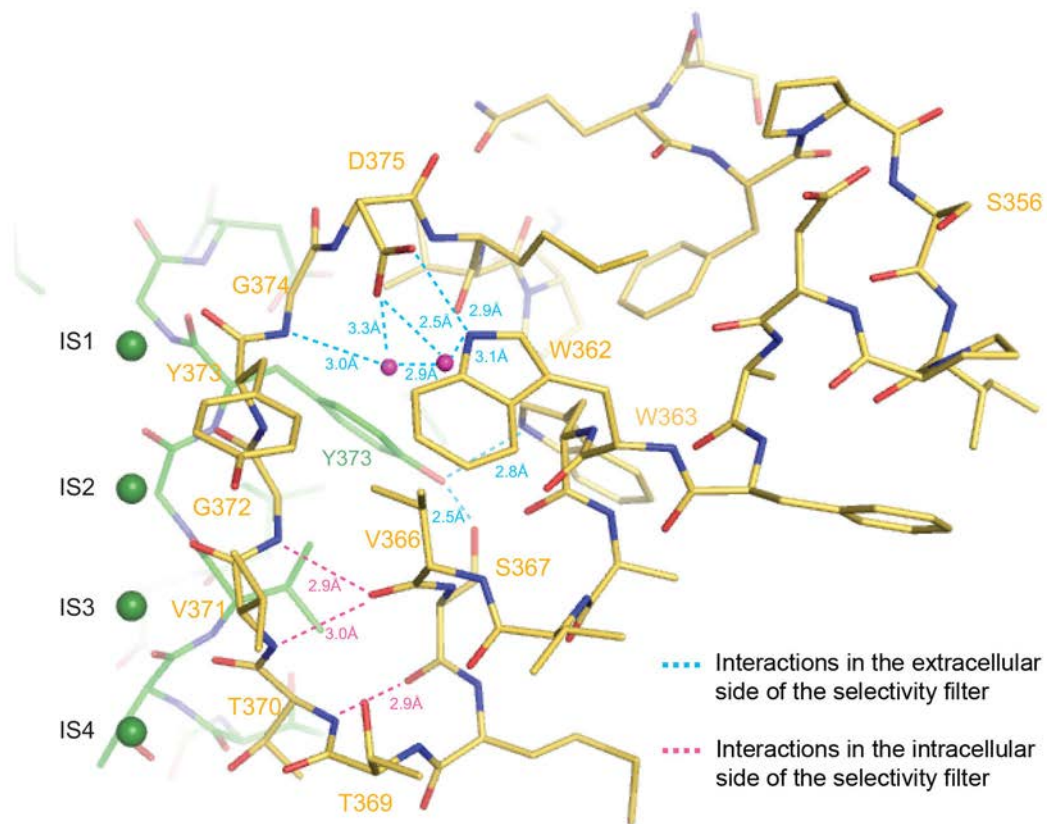
(a, b) Currents of tetrameric **(a)** and concatemer **(b)** channels, recorded from oocytes in the presence of 100 mM extracellular K^+ , as membrane voltage was stepped from the -80 mV holding potential to 80 mV in 10 mV increments and back to -80 mV. The dashed line identifies the zero current level. **(c)** Normalized tail currents (mean \pm s.e.m.; $n = 10 - 12$) of tetrameric (open circles) and concatemer (open squares) channels plotted against membrane voltage; curves are fits of Boltzmann functions with midpoint voltage $V_{1/2}$ (mean \pm s.e.m.) of -30 ± 0.5 mV and apparent valence Z of 3.5 ± 0.3 for tetrameric channels or $V_{1/2}$ of -30 ± 0.6 mV and apparent valence Z of 3.3 ± 0.2 for concatemer channels.



Supplementary Figure 2

Ionic currents of wild-type and mutant Kv1.2 channels, recorded from oocytes in the presence of 100 mM extracellular K^+ .

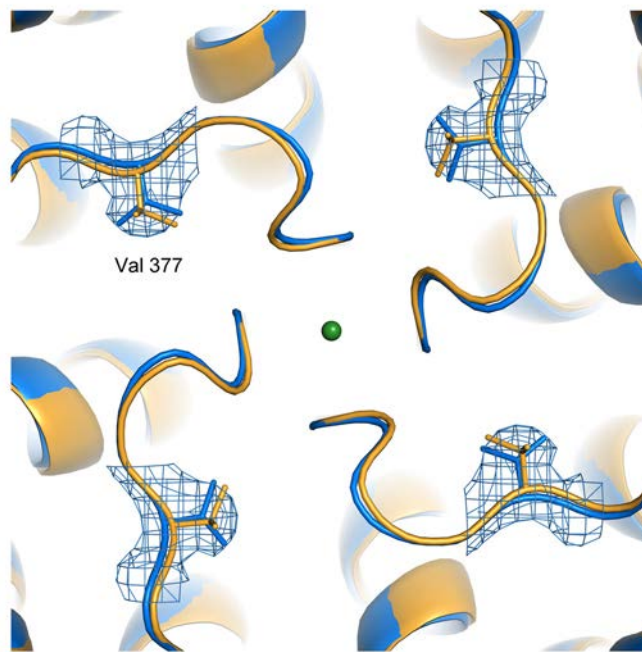
Ionic currents of wild-type (a) and mutant Kv1.2 (b) channels, The mutation in Kv1.2 corresponds to V478W in the Shaker channel. Currents were elicited by stepping membrane voltage from the -80 mV holding potential to 80 mV in 10 mV increments and back to -80 mV. The dashed line identifies the zero current level.



Supplementary Figure 3

Illustration of hydrogen bonds between the selectivity filter and the pore helix of Kv1.2-2.1, as defined by distances between 2.5 and 3.3 Å.

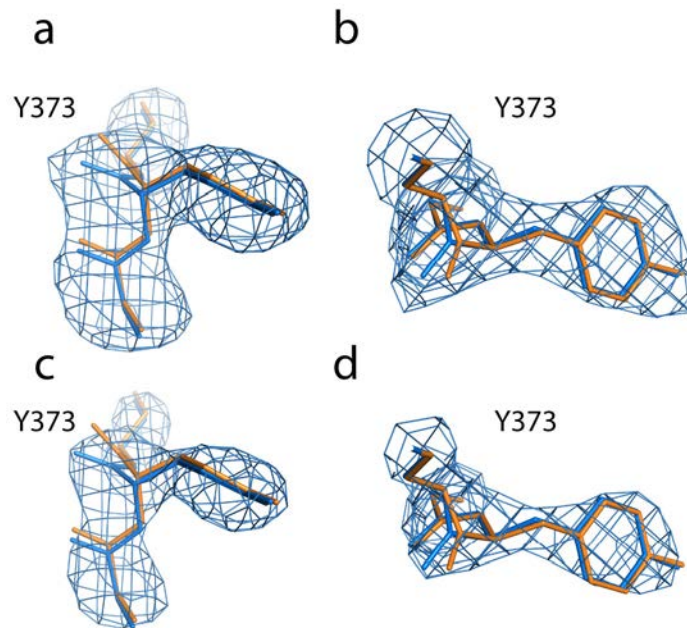
Carbon atoms of wild-type selectivity filter of two contiguous subunits (PDB: 2R9R) are shown as green and yellow sticks, oxygen atoms in red, and nitrogen atoms in blue; K⁺ ions and water molecules are shown as green and magenta spheres, respectively. Hydrogen bonds in the extracellular and intracellular regions are indicated by dashed blue and magenta lines, respectively.



Supplementary Figure 4

Comparison of Val377 positions in wild-type and V406W mutant I structures.

Section of super-positioned wild-type (orange) and mutant (blue) structures around the central axis of the selectivity filter, as viewed from the outside of the cell. The part of electron density ($2Fo-Fc$ composite-omit map contoured at 1.5σ) corresponding to Val 377 is shown.



Supplementary Figure 5

Comparison of Tyr373 in wild-type Kv1.2-2.1 and mutant I structures.

Structures of Gly372-Tyr373-Gly374 in wild-type (orange) and mutant (blue) channels are shown in two views (**a** and **c** versus **b** and **d**). The two structures were aligned according to C_{α} atoms of residues 364-372. The super-positioned *Fo-Fc* omit map of mutant molecule I, contoured at 5σ (**a**, **b**) and 8σ (**c**, **d**), was calculated with a model of the mutant molecule where Gly372-Tyr373-Gly374 were omitted.

Supplemental Table 1. Re-refinement statistics of KcsA

Refinement	9.97 - 3.201 (3.311 - 3.201)
No. of reflections	12169
No. of atoms	2985
R _{work} (%) ^{**}	24.70 (36.78)
R _{free} (%) ^{**}	25.63 (45.91)
Root-mean-square-deviations	
Bond length (Å)	0.011
Angle (°)	1.45
Ramachandran (%)	
Allowed region	100
Disallowed region	0
Rotamer outliers (%)	0

Statistics for structure refinement and Ramachandran analysis are obtained from Phenix.

**R factor = $\sum |F(\text{obs}) - F(\text{calc})| / \sum F(\text{obs})$, where part of data set excluded from refinement was the same as 1BL8 and used to calculate R_{free}.

Parentheses indicate values for outer resolution shell.

```

REMARK      PDB of re-refined KcsA against 3.2 angstrom data from PDB 1B18
REMARK 3 REFINEMENT.
REMARK 3   PROGRAM      : PHENIX (1.10.1_2155: ???)
REMARK 3   AUTHORS      : Adams,Afonine,Bunkoczi,Burnley,Chen,Dar,Davis,
REMARK 3                   : Draizen,Echols,Gildea,Gros,Grosse-Kunstleve,Headd,
REMARK 3                   : Hintze,Hung,Ioerger,McCoy,McKee,Moriarty,Oeffner,
REMARK 3                   : Read,Richardson,Richardson,Sacchettini,Sauter,
REMARK 3                   : Sobolev,Storoni,Terwilliger,Williams,Zwart
REMARK 3
REMARK 3 REFINEMENT TARGET : ML
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 3.201
REMARK 3 RESOLUTION RANGE LOW  (ANGSTROMS) : 9.986
REMARK 3 MIN(FOBS/SIGMA_FOBS)          : 1.37
REMARK 3 COMPLETENESS FOR RANGE          (%) : 93.33
REMARK 3 NUMBER OF REFLECTIONS          : 12170
REMARK 3 NUMBER OF REFLECTIONS (NON-ANOMALOUS) : 12170
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 R VALUE      (WORKING + TEST SET) : 0.2480
REMARK 3 R VALUE      (WORKING SET)       : 0.2469
REMARK 3 FREE R VALUE          : 0.2564
REMARK 3 FREE R VALUE TEST SET SIZE (%)  : 10.39
REMARK 3 FREE R VALUE TEST SET COUNT    : 1264
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT (IN BINS).
REMARK 3 BIN RESOLUTION RANGE COMPL.  NWORK NFREE  RWORK  RFREE  CCWORK
CCFREE
REMARK 3   1 9.9863 - 6.1592      0.99   1321   141  0.2031 0.2030  0.930
0.872
REMARK 3   2 6.1592 - 5.0962      1.00   1303   141  0.2561 0.2405  0.857
0.847
REMARK 3   3 5.0962 - 4.5197      0.99   1305   140  0.2214 0.2329  0.905
0.893
REMARK 3   4 4.5197 - 4.1386      0.97   1282   141  0.2288 0.2580  0.867
0.788
REMARK 3   5 4.1386 - 3.8604      1.00   1260   154  0.2580 0.2437  0.838
0.855
REMARK 3   6 3.8604 - 3.6445      1.00   1262   176  0.2862 0.3067  0.842
0.795
REMARK 3   7 3.6445 - 3.4700      0.99   1250   173  0.3109 0.3892  0.761
0.654
REMARK 3   8 3.4700 - 3.3247      0.80   1063    96  0.3345 0.3983  0.711
0.510
REMARK 3   9 3.3247 - 3.2011      0.67    860   102  0.3577 0.4591  0.667
0.350
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
REMARK 3 ERROR ESTIMATES.
REMARK 3 COORDINATE ERROR (MAXIMUM-LIKELIHOOD BASED) : 0.52
REMARK 3 PHASE ERROR (DEGREES, MAXIMUM-LIKELIHOOD BASED) : 35.07
REMARK 3
REMARK 3 STRUCTURE FACTORS CALCULATION ALGORITHM : FFT
REMARK 3
REMARK 3 RESTRAINTS LIBRARY
REMARK 3 GEOSTD + MON.LIB. + CDL v1.2
REMARK 3

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REMARK 3 DEVIATIONS FROM IDEAL VALUES.
REMARK 3           RMSD      MAX  COUNT
REMARK 3 BOND       :  0.011   0.086  3042
REMARK 3 ANGLE      :  1.448  10.820  4195
REMARK 3 CHIRALITY  :  0.084   0.401   520
REMARK 3 PLANARITY  :  0.008   0.081   502
REMARK 3 DIHEDRAL   : 14.929 157.014  955
REMARK 3 MIN NONBONDED DISTANCE : 1.812
REMARK 3
REMARK 3 MOLPROBITY STATISTICS.
REMARK 3 ALL-ATOM CLASHSCORE : 9.07
REMARK 3 RAMACHANDRAN PLOT:
REMARK 3   OUTLIERS : 0.00 %
REMARK 3   ALLOWED  : 0.25 %
REMARK 3   FAVORED  : 99.75 %
REMARK 3 ROTAMER OUTLIERS : 0.00 %
REMARK 3 CBETA DEVIATIONS : 0
REMARK 3
REMARK 3 ATOMIC DISPLACEMENT PARAMETERS.
REMARK 3 WILSON B : 102.29
REMARK 3 RMS(B_ISO_OR_EQUIVALENT_BONDED) : 5.85
REMARK 3 ATOMS           NUMBER OF ATOMS
REMARK 3                   ISO.  ANISO.
REMARK 3 ALL              : 2985   2967
REMARK 3 ALL (NO H)      : 2985   2967
REMARK 3 SOLVENT         : 12     0
REMARK 3 NON-SOLVENT    : 2973   2967
REMARK 3 HYDROGENS      : 0      0
REMARK 3
REMARK 3 TLS DETAILS.
REMARK 3 NUMBER OF TLS GROUPS: 16
REMARK 3 ORIGIN: CENTER OF MASS
REMARK 3 TLS GROUP : 1
REMARK 3 SELECTION: chain 'C' and (resid 22 through 61 )
REMARK 3 ORIGIN FOR THE GROUP (A): 55.3222 28.4061 25.1709
REMARK 3 T TENSOR
REMARK 3 T11: 0.7251 T22: 1.3799
REMARK 3 T33: 0.8123 T12: 0.1395
REMARK 3 T13: 0.1614 T23: -0.0248
REMARK 3 L TENSOR
REMARK 3 L11: 0.1015 L22: 0.4043
REMARK 3 L33: 0.0824 L12: 0.1233
REMARK 3 L13: -0.1590 L23: 0.1773
REMARK 3 S TENSOR
REMARK 3 S11: -0.0999 S12: -0.4311 S13: -0.4068
REMARK 3 S21: 0.1728 S22: -0.1706 S23: 0.4448
REMARK 3 S31: -0.1471 S32: -0.6221 S33: 0.0000
REMARK 3 TLS GROUP : 2
REMARK 3 SELECTION: chain 'C' and (resid 62 through 73 )
REMARK 3 ORIGIN FOR THE GROUP (A): 55.8507 24.8806 16.7873
REMARK 3 T TENSOR
REMARK 3 T11: 0.7112 T22: 0.9261
REMARK 3 T33: 0.8274 T12: -0.0298
REMARK 3 T13: 0.1187 T23: 0.0241
REMARK 3 L TENSOR
REMARK 3 L11: 0.0076 L22: 0.0112
REMARK 3 L33: 0.0476 L12: 0.0787
REMARK 3 L13: 0.0284 L23: -0.0755
REMARK 3 S TENSOR
REMARK 3 S11: 0.1154 S12: -0.1573 S13: -0.0599
REMARK 3 S21: 0.3203 S22: -0.2524 S23: -0.0383
REMARK 3 S31: -0.2512 S32: -1.0487 S33: -0.0000
REMARK 3 TLS GROUP : 3

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REMARK 3 SELECTION: chain 'C' and (resid 74 through 87 )
REMARK 3 ORIGIN FOR THE GROUP (A): 60.2431 31.1268 13.3600
REMARK 3 T TENSOR
REMARK 3 T11: 0.8798 T22: 0.6250
REMARK 3 T33: 0.9041 T12: 0.0748
REMARK 3 T13: -0.1156 T23: -0.1110
REMARK 3 L TENSOR
REMARK 3 L11: 0.0137 L22: -0.0104
REMARK 3 L33: -0.0610 L12: -0.0177
REMARK 3 L13: 0.0334 L23: -0.0269
REMARK 3 S TENSOR
REMARK 3 S11: 0.0145 S12: -0.0607 S13: -0.0490
REMARK 3 S21: -0.1350 S22: -0.2604 S23: -0.4682
REMARK 3 S31: -0.6131 S32: -0.6743 S33: -0.0000
REMARK 3 TLS GROUP : 4
REMARK 3 SELECTION: chain 'C' and (resid 88 through 122 )
REMARK 3 ORIGIN FOR THE GROUP (A): 70.8589 25.6143 33.7053
REMARK 3 T TENSOR
REMARK 3 T11: 0.8096 T22: 0.8925
REMARK 3 T33: 0.5894 T12: 0.0258
REMARK 3 T13: -0.0031 T23: 0.0137
REMARK 3 L TENSOR
REMARK 3 L11: 0.0989 L22: 0.5790
REMARK 3 L33: 0.3585 L12: 0.3999
REMARK 3 L13: 0.0393 L23: 0.6513
REMARK 3 S TENSOR
REMARK 3 S11: -0.0913 S12: -0.4301 S13: 0.2615
REMARK 3 S21: 0.7286 S22: -0.1817 S23: -0.0016
REMARK 3 S31: -0.5909 S32: -0.1597 S33: 0.0000
REMARK 3 TLS GROUP : 5
REMARK 3 SELECTION: chain 'B' and (resid 22 through 61 )
REMARK 3 ORIGIN FOR THE GROUP (A): 73.5828 44.2112 17.5302
REMARK 3 T TENSOR
REMARK 3 T11: 1.4952 T22: -0.3590
REMARK 3 T33: 0.8742 T12: -0.4244
REMARK 3 T13: -0.4471 T23: -0.4010
REMARK 3 L TENSOR
REMARK 3 L11: -0.0503 L22: -0.0712
REMARK 3 L33: 0.0251 L12: 0.1793
REMARK 3 L13: -0.1086 L23: -0.0713
REMARK 3 S TENSOR
REMARK 3 S11: 0.2635 S12: 1.8073 S13: 2.1370
REMARK 3 S21: -0.0258 S22: -0.5034 S23: -0.6945
REMARK 3 S31: -0.0411 S32: 0.0386 S33: 0.0000
REMARK 3 TLS GROUP : 6
REMARK 3 SELECTION: chain 'B' and (resid 62 through 73 )
REMARK 3 ORIGIN FOR THE GROUP (A): 67.4269 40.4189 12.1617
REMARK 3 T TENSOR
REMARK 3 T11: 1.0671 T22: 0.6264
REMARK 3 T33: 1.0642 T12: 0.0383
REMARK 3 T13: -0.0312 T23: -0.0643
REMARK 3 L TENSOR
REMARK 3 L11: 0.0280 L22: -0.0276
REMARK 3 L33: 0.0277 L12: -0.0782
REMARK 3 L13: 0.0391 L23: 0.0121
REMARK 3 S TENSOR
REMARK 3 S11: -0.4418 S12: -0.2871 S13: 0.6554
REMARK 3 S21: -0.2459 S22: 0.3272 S23: -0.0903
REMARK 3 S31: -0.5435 S32: 0.0946 S33: 0.0000
REMARK 3 TLS GROUP : 7
REMARK 3 SELECTION: chain 'B' and (resid 74 through 87 )
REMARK 3 ORIGIN FOR THE GROUP (A): 72.7960 35.1351 8.4253
REMARK 3 T TENSOR

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REMARK 3      T11:  0.7354 T22:  0.7060
REMARK 3      T33:  0.6916 T12: -0.2553
REMARK 3      T13:  0.0458 T23:  0.1317
REMARK 3      L TENSOR
REMARK 3      L11:  0.0065 L22: -0.0428
REMARK 3      L33:  0.0447 L12:  0.0225
REMARK 3      L13:  0.1039 L23: -0.1272
REMARK 3      S TENSOR
REMARK 3      S11: -0.4429 S12: -0.1789 S13: -0.2110
REMARK 3      S21:  0.0094 S22: -0.0015 S23: -0.1251
REMARK 3      S31: -1.0793 S32:  0.2545 S33: -0.0000
REMARK 3      TLS GROUP : 8
REMARK 3      SELECTION: chain 'D' and (resid  22 through  61 )
REMARK 3      ORIGIN FOR THE GROUP (A):  88.0550  24.6149  12.2850
REMARK 3      T TENSOR
REMARK 3      T11:  0.2461 T22:  1.6998
REMARK 3      T33:  0.8444 T12: -0.1965
REMARK 3      T13:  0.0750 T23:  0.1144
REMARK 3      L TENSOR
REMARK 3      L11:  0.1603 L22:  0.0641
REMARK 3      L33: -0.0636 L12: -0.4313
REMARK 3      L13:  0.1782 L23:  0.1829
REMARK 3      S TENSOR
REMARK 3      S11:  0.6294 S12:  0.1147 S13:  0.3720
REMARK 3      S21: -1.2228 S22: -1.3443 S23: -0.4183
REMARK 3      S31:  0.2671 S32:  0.5484 S33:  0.0000
REMARK 3      TLS GROUP : 9
REMARK 3      SELECTION: chain 'D' and (resid  62 through  73 )
REMARK 3      ORIGIN FOR THE GROUP (A):  82.0363  28.1833  6.5590
REMARK 3      T TENSOR
REMARK 3      T11:  0.6148 T22:  0.8851
REMARK 3      T33:  0.8539 T12: -0.1898
REMARK 3      T13:  0.0610 T23:  0.1133
REMARK 3      L TENSOR
REMARK 3      L11: -0.0099 L22:  0.0733
REMARK 3      L33:  0.0629 L12:  0.0336
REMARK 3      L13:  0.0887 L23: -0.0144
REMARK 3      S TENSOR
REMARK 3      S11:  0.2391 S12:  0.5723 S13: -0.0616
REMARK 3      S21:  0.2196 S22: -0.2567 S23:  0.0478
REMARK 3      S31:  0.3024 S32:  0.9466 S33:  0.0000
REMARK 3      TLS GROUP : 10
REMARK 3      SELECTION: chain 'D' and (resid  74 through  87 )
REMARK 3      ORIGIN FOR THE GROUP (A):  76.5107  21.8383  6.9020
REMARK 3      T TENSOR
REMARK 3      T11:  0.8064 T22:  0.5891
REMARK 3      T33:  0.7861 T12:  0.0055
REMARK 3      T13:  0.0292 T23:  0.0067
REMARK 3      L TENSOR
REMARK 3      L11:  0.0812 L22:  0.0590
REMARK 3      L33:  0.0391 L12:  0.1990
REMARK 3      L13: -0.0918 L23: -0.0687
REMARK 3      S TENSOR
REMARK 3      S11: -0.2009 S12:  0.3335 S13: -0.2406
REMARK 3      S21: -0.0769 S22: -0.1698 S23: -0.4175
REMARK 3      S31: -0.3679 S32:  0.4977 S33: -0.0000
REMARK 3      TLS GROUP : 11
REMARK 3      SELECTION: chain 'D' and (resid  88 through 122 )
REMARK 3      ORIGIN FOR THE GROUP (A):  82.5410  26.7742  28.3371
REMARK 3      T TENSOR
REMARK 3      T11:  0.6234 T22:  0.7898
REMARK 3      T33:  0.5807 T12: -0.0450
REMARK 3      T13: -0.0966 T23:  0.0053

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REMARK 3 L TENSOR
REMARK 3 L11: 0.1300 L22: 0.3380
REMARK 3 L33: 0.1239 L12: -0.1666
REMARK 3 L13: 0.0910 L23: -0.3731
REMARK 3 S TENSOR
REMARK 3 S11: -0.1106 S12: -0.2913 S13: -0.3196
REMARK 3 S21: 0.4349 S22: -0.2349 S23: -0.0563
REMARK 3 S31: 0.3616 S32: 0.7183 S33: -0.0000
REMARK 3 TLS GROUP : 12
REMARK 3 SELECTION: chain 'E' and (resid 22 through 61 )
REMARK 3 ORIGIN FOR THE GROUP (A): 69.7418 8.9431 18.9990
REMARK 3 T TENSOR
REMARK 3 T11: 1.1832 T22: 0.7927
REMARK 3 T33: 0.8028 T12: -0.2319
REMARK 3 T13: -0.1984 T23: 0.2158
REMARK 3 L TENSOR
REMARK 3 L11: 0.1848 L22: 0.1950
REMARK 3 L33: 0.0764 L12: -0.1402
REMARK 3 L13: -0.2311 L23: 0.1243
REMARK 3 S TENSOR
REMARK 3 S11: 0.2992 S12: 0.0172 S13: -0.1520
REMARK 3 S21: -0.1222 S22: -0.2054 S23: 0.0314
REMARK 3 S31: 0.9841 S32: 0.2715 S33: 0.0000
REMARK 3 TLS GROUP : 13
REMARK 3 SELECTION: chain 'E' and (resid 62 through 73 )
REMARK 3 ORIGIN FOR THE GROUP (A): 70.3907 12.5331 11.1227
REMARK 3 T TENSOR
REMARK 3 T11: 1.0361 T22: 0.4538
REMARK 3 T33: 0.9133 T12: 0.0240
REMARK 3 T13: -0.1110 T23: 0.1211
REMARK 3 L TENSOR
REMARK 3 L11: 0.0370 L22: -0.0123
REMARK 3 L33: 0.0863 L12: -0.0593
REMARK 3 L13: -0.0088 L23: 0.0112
REMARK 3 S TENSOR
REMARK 3 S11: 0.3888 S12: 0.3021 S13: -0.0894
REMARK 3 S21: -0.0579 S22: 0.3186 S23: 0.3895
REMARK 3 S31: 1.0528 S32: 0.0516 S33: 0.0000
REMARK 3 TLS GROUP : 14
REMARK 3 SELECTION: chain 'E' and (resid 74 through 85 )
REMARK 3 ORIGIN FOR THE GROUP (A): 66.3791 19.3866 10.7278
REMARK 3 T TENSOR
REMARK 3 T11: 0.5678 T22: 1.1042
REMARK 3 T33: 0.6448 T12: -0.2473
REMARK 3 T13: 0.1249 T23: -0.0149
REMARK 3 L TENSOR
REMARK 3 L11: 0.0046 L22: -0.0008
REMARK 3 L33: -0.0488 L12: -0.0063
REMARK 3 L13: -0.0122 L23: 0.0485
REMARK 3 S TENSOR
REMARK 3 S11: -0.0902 S12: 0.3684 S13: 0.0997
REMARK 3 S21: 0.0349 S22: -0.0892 S23: 0.1046
REMARK 3 S31: 0.0318 S32: -0.0662 S33: 0.0000
REMARK 3 TLS GROUP : 15
REMARK 3 SELECTION: chain 'E' and (resid 86 through 122 )
REMARK 3 ORIGIN FOR THE GROUP (A): 75.7420 19.6197 30.0097
REMARK 3 T TENSOR
REMARK 3 T11: 0.7497 T22: 0.9444
REMARK 3 T33: 0.6931 T12: -0.2296
REMARK 3 T13: -0.1583 T23: 0.1295
REMARK 3 L TENSOR
REMARK 3 L11: 0.0255 L22: 0.4388
REMARK 3 L33: 0.4565 L12: 0.2876

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REMARK 3      L13:  -0.2722 L23:  -0.5836
REMARK 3      S TENSOR
REMARK 3      S11:   0.0484 S12:  -0.7261 S13:  -0.6454
REMARK 3      S21:   0.1256 S22:   0.0976 S23:   0.0240
REMARK 3      S31:   0.1697 S32:  -0.2066 S33:  -0.0000
REMARK 3      TLS GROUP : 16
REMARK 3      SELECTION: chain 'B' and (resid 88 through 122)
REMARK 3      ORIGIN FOR THE GROUP (A):  76.1175  33.1040  30.8525
REMARK 3      T TENSOR
REMARK 3      T11:   0.8594 T22:   0.7645
REMARK 3      T33:   0.5409 T12:  -0.1939
REMARK 3      T13:   0.0048 T23:  -0.0093
REMARK 3      L TENSOR
REMARK 3      L11:   0.2656 L22:   0.1532
REMARK 3      L33:   0.1013 L12:   0.1492
REMARK 3      L13:   0.3415 L23:   0.1532
REMARK 3      S TENSOR
REMARK 3      S11:  -0.1374 S12:  -0.2984 S13:   0.2428
REMARK 3      S21:   0.0243 S22:  -0.0828 S23:  -0.0338
REMARK 3      S31:   0.0257 S32:   0.4600 S33:  -0.0000
REMARK 3
CRYST1 128.780  68.930 112.040  90.00 124.63  90.00 C 1 2 1
SCALE1  0.007765  0.000000  0.005363  0.000000
SCALE2  0.000000  0.014507  0.000000  0.000000
SCALE3  0.000000  0.000000  0.010847  0.000000
ATOM 1 N SER C 22 65.055 19.287 49.655 1.00171.67 N
ANISOU 1 N SER C 22 19941 26491 18796 -114 3426 3076 N
ATOM 2 CA SER C 22 65.410 19.714 48.304 1.00166.69 C
ANISOU 2 CA SER C 22 19338 25749 18248 -49 3294 2963 C
ATOM 3 CB SER C 22 64.216 19.554 47.361 1.00162.13 C
ANISOU 3 CB SER C 22 18599 25196 17805 -32 3319 2809 C
ATOM 4 C SER C 22 65.945 21.148 48.272 1.00159.92 C
ANISOU 4 C SER C 22 18630 24906 17224 81 3175 2877 C
ATOM 5 O SER C 22 65.275 22.084 48.703 1.00156.93 O
ANISOU 5 O SER C 22 18255 24658 16712 169 3191 2776 O
ATOM 6 N ALA C 23 67.160 21.300 47.756 1.00149.72 N
ANISOU 6 N ALA C 23 17463 23479 15945 92 3059 2917 N
ATOM 7 CA ALA C 23 67.815 22.599 47.671 1.00148.11 C
ANISOU 7 CA ALA C 23 17412 23269 15594 209 2941 2845 C
ATOM 8 CB ALA C 23 69.315 22.433 47.522 1.00146.85 C
ANISOU 8 CB ALA C 23 17391 22961 15443 178 2850 2959 C
ATOM 9 C ALA C 23 67.261 23.469 46.562 1.00150.11 C
ANISOU 9 C ALA C 23 17644 23522 15869 320 2860 2642 C
ATOM 10 O ALA C 23 66.699 22.978 45.602 1.00158.21 O
ANISOU 10 O ALA C 23 18558 24502 17054 299 2861 2569 O
ATOM 11 N LEU C 24 67.442 24.772 46.706 1.00146.04 N
ANISOU 11 N LEU C 24 17239 23057 15191 439 2787 2552 N
ATOM 12 CA LEU C 24 66.914 25.769 45.774 1.00144.11 C
ANISOU 12 CA LEU C 24 16991 22828 14937 560 2707 2355 C
ATOM 13 CB LEU C 24 67.580 27.128 46.017 1.00134.78 C
ANISOU 13 CB LEU C 24 15977 21664 13568 675 2613 2303 C
ATOM 14 CG LEU C 24 67.140 28.318 45.152 1.00131.20 C
ANISOU 14 CG LEU C 24 15547 21228 13074 814 2523 2102 C
ATOM 15 CD1 LEU C 24 65.710 28.757 45.437 1.00137.14 C
ANISOU 15 CD1 LEU C 24 16182 22143 13782 871 2597 1981 C
ATOM 16 CD2 LEU C 24 68.108 29.488 45.281 1.00129.54 C
ANISOU 16 CD2 LEU C 24 15523 20992 12703 909 2420 2078 C
ATOM 17 C LEU C 24 67.080 25.387 44.301 1.00145.19 C
ANISOU 17 C LEU C 24 17093 22818 15253 550 2626 2288 C
ATOM 18 O LEU C 24 66.104 25.453 43.543 1.00145.88 O
ANISOU 18 O LEU C 24 17070 22934 15424 585 2629 2153 O
ATOM 19 N HIS C 25 68.255 24.926 43.921 1.00143.15 N
ANISOU 19 N HIS C 25 16920 22408 15062 495 2563 2384 N

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ATOM	20	CA	HIS	C	25	68.447	24.615	42.532	1.00138.62	C		
ANISOU	20	CA	HIS	C	25	16324	21693	14651	486	2486	2318	C
ATOM	21	CB	HIS	C	25	69.890	24.190	42.258	1.00130.73	C		
ANISOU	21	CB	HIS	C	25	15441	20525	13706	427	2416	2435	C
ATOM	22	CG	HIS	C	25	70.464	23.250	43.267	1.00132.93	C		
ANISOU	22	CG	HIS	C	25	15725	20794	13989	312	2494	2636	C
ATOM	23	ND1	HIS	C	25	71.278	23.670	44.290	1.00130.57	N		
ANISOU	23	ND1	HIS	C	25	15554	20523	13534	325	2484	2736	N
ATOM	24	CE1	HIS	C	25	71.654	22.628	45.004	1.00133.92	C		
ANISOU	24	CE1	HIS	C	25	15954	20926	14003	210	2558	2911	C
ATOM	25	NE2	HIS	C	25	71.127	21.546	44.469	1.00128.98	N		
ANISOU	25	NE2	HIS	C	25	15189	20257	13559	122	2618	2928	N
ATOM	26	CD2	HIS	C	25	70.382	21.907	43.378	1.00132.17	C		
ANISOU	26	CD2	HIS	C	25	15526	20657	14037	183	2579	2758	C
ATOM	27	C	HIS	C	25	67.479	23.584	42.016	1.00137.16	C		
ANISOU	27	C	HIS	C	25	15957	21512	14647	409	2564	2298	C
ATOM	28	O	HIS	C	25	66.888	23.791	40.972	1.00140.14	O		
ANISOU	28	O	HIS	C	25	16272	21867	15107	455	2519	2157	O
ATOM	29	N	TRP	C	26	67.265	22.507	42.745	1.00134.05	N		
ANISOU	29	N	TRP	C	26	15474	21150	14310	296	2681	2431	N
ATOM	30	CA	TRP	C	26	66.338	21.499	42.280	1.00137.37	C		
ANISOU	30	CA	TRP	C	26	15718	21574	14903	219	2762	2413	C
ATOM	31	CB	TRP	C	26	66.382	20.264	43.154	1.00141.59	C		
ANISOU	31	CB	TRP	C	26	16184	22120	15493	84	2887	2591	C
ATOM	32	CG	TRP	C	26	67.677	19.532	43.128	1.00138.60	C		
ANISOU	32	CG	TRP	C	26	15889	21592	15180	-4	2855	2749	C
ATOM	33	CD1	TRP	C	26	68.537	19.379	44.156	1.00144.88	C		
ANISOU	33	CD1	TRP	C	26	16782	22384	15882	-46	2875	2907	C
ATOM	34	NE1	TRP	C	26	69.610	18.632	43.770	1.00145.15	N		
ANISOU	34	NE1	TRP	C	26	16865	22259	16026	-126	2834	3021	N
ATOM	35	CE2	TRP	C	26	69.453	18.287	42.460	1.00136.89	C		
ANISOU	35	CE2	TRP	C	26	15755	21110	15148	-140	2790	2936	C
ATOM	36	CD2	TRP	C	26	68.244	18.835	42.027	1.00136.46	C		
ANISOU	36	CD2	TRP	C	26	15608	21155	15086	-64	2800	2765	C
ATOM	37	CE3	TRP	C	26	67.846	18.624	40.717	1.00143.37	C		
ANISOU	37	CE3	TRP	C	26	16405	21954	16115	-62	2759	2651	C
ATOM	38	CZ3	TRP	C	26	68.660	17.890	39.897	1.00147.58	C		
ANISOU	38	CZ3	TRP	C	26	16958	22317	16800	-137	2713	2709	C
ATOM	39	CH2	TRP	C	26	69.859	17.359	40.357	1.00140.60	C		
ANISOU	39	CH2	TRP	C	26	16165	21335	15922	-211	2706	2879	C
ATOM	40	CZ2	TRP	C	26	70.272	17.548	41.634	1.00134.90	C		
ANISOU	40	CZ2	TRP	C	26	15518	20684	15052	-213	2742	2995	C
ATOM	41	C	TRP	C	26	64.928	22.051	42.183	1.00137.56	C		
ANISOU	41	C	TRP	C	26	15629	21738	14900	295	2801	2252	C
ATOM	42	O	TRP	C	26	64.173	21.670	41.308	1.00133.16	O		
ANISOU	42	O	TRP	C	26	14949	21164	14481	284	2809	2160	O
ATOM	43	N	ARG	C	27	64.562	22.930	43.105	1.00140.74	N		
ANISOU	43	N	ARG	C	27	16068	22280	15125	370	2828	2220	N
ATOM	44	CA	ARG	C	27	63.216	23.485	43.110	1.00141.63	C		
ANISOU	44	CA	ARG	C	27	16075	22534	15206	444	2870	2070	C
ATOM	45	CB	ARG	C	27	62.946	24.203	44.429	1.00153.73	C		
ANISOU	45	CB	ARG	C	27	17651	24218	16542	492	2931	2087	C
ATOM	46	CG	ARG	C	27	63.025	23.295	45.637	1.00159.19	C		
ANISOU	46	CG	ARG	C	27	18312	24957	17217	378	3059	2262	C
ATOM	47	CD	ARG	C	27	62.593	24.021	46.893	1.00160.27	C		
ANISOU	47	CD	ARG	C	27	18478	25254	17164	426	3127	2260	C
ATOM	48	NE	ARG	C	27	61.216	24.490	46.793	1.00169.89	N		
ANISOU	48	NE	ARG	C	27	19575	26599	18378	491	3174	2102	N
ATOM	49	CZ	ARG	C	27	60.574	25.119	47.771	1.00171.02	C		
ANISOU	49	CZ	ARG	C	27	19711	26892	18377	537	3245	2070	C
ATOM	50	NH1	ARG	C	27	61.185	25.350	48.925	1.00170.68	N		
ANISOU	50	NH1	ARG	C	27	19777	26893	18179	522	3275	2185	N
ATOM	51	NH2	ARG	C	27	59.319	25.510	47.597	1.00172.80	N		

ANISOU	51	NH2	ARG	C	27	19818	27223	18615	595	3285	1921	N
ATOM	52	C	ARG	C	27	63.056	24.440	41.939	1.00137.60			C
ANISOU	52	C	ARG	C	27	15595	21985	14701	563	2746	1888	C
ATOM	53	O	ARG	C	27	62.048	24.414	41.230	1.00142.41			O
ANISOU	53	O	ARG	C	27	16081	22626	15401	590	2752	1760	O
ATOM	54	N	ALA	C	28	64.076	25.267	41.732	1.00138.06			N
ANISOU	54	N	ALA	C	28	15821	21971	14663	632	2631	1881	N
ATOM	55	CA	ALA	C	28	64.076	26.233	40.640	1.00135.96			C
ANISOU	55	CA	ALA	C	28	15612	21657	14389	747	2504	1717	C
ATOM	56	CB	ALA	C	28	65.297	27.138	40.736	1.00130.21			C
ANISOU	56	CB	ALA	C	28	15085	20865	13526	814	2399	1738	C
ATOM	57	C	ALA	C	28	64.030	25.512	39.286	1.00126.96			C
ANISOU	57	C	ALA	C	28	14401	20388	13452	700	2458	1673	C
ATOM	58	O	ALA	C	28	63.381	25.978	38.343	1.00124.94			O
ANISOU	58	O	ALA	C	28	14098	20132	13240	774	2400	1515	O
ATOM	59	N	ALA	C	29	64.724	24.375	39.209	1.00128.52			N
ANISOU	59	N	ALA	C	29	14590	20472	13769	576	2485	1814	N
ATOM	60	CA	ALA	C	29	64.773	23.559	37.998	1.00119.25			C
ANISOU	60	CA	ALA	C	29	13350	19166	12793	513	2452	1794	C
ATOM	61	CB	ALA	C	29	65.693	22.368	38.192	1.00119.28			C
ANISOU	61	CB	ALA	C	29	13368	19055	12899	375	2491	1977	C
ATOM	62	C	ALA	C	29	63.388	23.091	37.590	1.00121.08			C
ANISOU	62	C	ALA	C	29	13391	19473	13142	496	2521	1699	C
ATOM	63	O	ALA	C	29	62.949	23.344	36.467	1.00128.75			O
ANISOU	63	O	ALA	C	29	14323	20406	14191	546	2452	1560	O
ATOM	64	N	GLY	C	30	62.710	22.403	38.503	1.00121.64			N
ANISOU	64	N	GLY	C	30	13346	19649	13224	425	2657	1773	N
ATOM	65	CA	GLY	C	30	61.365	21.930	38.254	1.00118.56			C
ANISOU	65	CA	GLY	C	30	12768	19342	12938	404	2736	1689	C
ATOM	66	C	GLY	C	30	60.459	23.100	37.922	1.00120.60			C
ANISOU	66	C	GLY	C	30	13006	19701	13118	543	2685	1497	C
ATOM	67	O	GLY	C	30	59.592	22.997	37.050	1.00128.62			O
ANISOU	67	O	GLY	C	30	13906	20722	14242	562	2672	1372	O
ATOM	68	N	ALA	C	31	60.671	24.217	38.615	1.00119.24			N
ANISOU	68	N	ALA	C	31	12945	19604	12755	640	2654	1474	N
ATOM	69	CA	ALA	C	31	59.876	25.418	38.395	1.00122.19			C
ANISOU	69	CA	ALA	C	31	13315	20077	13037	779	2605	1297	C
ATOM	70	CB	ALA	C	31	60.266	26.501	39.380	1.00115.94			C
ANISOU	70	CB	ALA	C	31	12655	19366	12030	863	2591	1311	C
ATOM	71	C	ALA	C	31	60.032	25.922	36.965	1.00129.00			C
ANISOU	71	C	ALA	C	31	14219	20833	13962	853	2466	1163	C
ATOM	72	O	ALA	C	31	59.046	26.263	36.307	1.00132.20			O
ANISOU	72	O	ALA	C	31	14531	21286	14411	918	2443	1010	O
ATOM	73	N	ALA	C	32	61.271	25.958	36.487	1.00124.63			N
ANISOU	73	N	ALA	C	32	13807	20134	13413	842	2373	1220	N
ATOM	74	CA	ALA	C	32	61.547	26.435	35.136	1.00117.46			C
ANISOU	74	CA	ALA	C	32	12959	19111	12558	907	2239	1102	C
ATOM	75	CB	ALA	C	32	63.055	26.442	34.862	1.00106.27			C
ANISOU	75	CB	ALA	C	32	11714	17537	11129	881	2155	1193	C
ATOM	76	C	ALA	C	32	60.827	25.567	34.115	1.00120.64			C
ANISOU	76	C	ALA	C	32	13210	19467	13160	847	2251	1042	C
ATOM	77	O	ALA	C	32	60.137	26.082	33.233	1.00125.22			O
ANISOU	77	O	ALA	C	32	13747	20058	13771	928	2187	884	O
ATOM	78	N	THR	C	33	60.989	24.252	34.251	1.00117.35			N
ANISOU	78	N	THR	C	33	12712	18999	12875	707	2335	1171	N
ATOM	79	CA	THR	C	33	60.341	23.289	33.366	1.00114.22			C
ANISOU	79	CA	THR	C	33	12166	18558	12677	633	2362	1133	C
ATOM	80	CB	THR	C	33	60.603	21.860	33.807	1.00105.23			C
ANISOU	80	CB	THR	C	33	10950	17376	11656	474	2473	1301	C
ATOM	81	OG1	THR	C	33	62.006	21.602	33.706	1.00106.83			O
ANISOU	81	OG1	THR	C	33	11292	17432	11866	422	2421	1422	O
ATOM	82	CG2	THR	C	33	59.846	20.889	32.917	1.00105.73			C
ANISOU	82	CG2	THR	C	33	10848	17404	11920	400	2509	1253	C

ATOM	83	C	THR	C	33	58.841	23.505	33.293	1.00121.75		C	
ANISOU	83	C	THR	C	33	12961	19650	13649	686	2408	993	C
ATOM	84	O	THR	C	33	58.262	23.573	32.205	1.00124.08		O	
ANISOU	84	O	THR	C	33	13190	19916	14040	720	2350	862	O
ATOM	85	N	VAL	C	34	58.211	23.600	34.459	1.00127.20		N	
ANISOU	85	N	VAL	C	34	13590	20490	14250	691	2513	1022	N
ATOM	86	CA	VAL	C	34	56.778	23.816	34.512	1.00132.69		C	
ANISOU	86	CA	VAL	C	34	14133	21324	14957	741	2566	894	C
ATOM	87	CB	VAL	C	34	56.251	23.766	35.954	1.00129.27		C	
ANISOU	87	CB	VAL	C	34	13645	21045	14428	721	2700	960	C
ATOM	88	CG1	VAL	C	34	54.766	24.094	35.982	1.00134.31		C	
ANISOU	88	CG1	VAL	C	34	14130	21826	15075	782	2749	813	C
ATOM	89	CG2	VAL	C	34	56.516	22.402	36.562	1.00125.79		C	
ANISOU	89	CG2	VAL	C	34	13142	20577	14077	565	2822	1134	C
ATOM	90	C	VAL	C	34	56.444	25.158	33.874	1.00133.18		C	
ANISOU	90	C	VAL	C	34	14252	21415	14934	897	2447	715	C
ATOM	91	O	VAL	C	34	55.497	25.269	33.089	1.00136.66		O	
ANISOU	91	O	VAL	C	34	14585	21884	15455	941	2420	573	O
ATOM	92	N	LEU	C	35	57.273	26.156	34.147	1.00133.07		N	
ANISOU	92	N	LEU	C	35	14413	21383	14763	979	2369	722	N
ATOM	93	CA	LEU	C	35	57.038	27.477	33.603	1.00130.91		C	
ANISOU	93	CA	LEU	C	35	14211	21135	14396	1131	2256	560	C
ATOM	94	CB	LEU	C	35	57.972	28.504	34.253	1.00129.83		C	
ANISOU	94	CB	LEU	C	35	14264	21000	14065	1207	2204	599	C
ATOM	95	CG	LEU	C	35	57.775	29.960	33.814	1.00135.35		C	
ANISOU	95	CG	LEU	C	35	15050	21732	14646	1370	2093	437	C
ATOM	96	CD1	LEU	C	35	56.331	30.394	34.047	1.00135.51		C	
ANISOU	96	CD1	LEU	C	35	14930	21911	14647	1441	2143	307	C
ATOM	97	CD2	LEU	C	35	58.756	30.885	34.541	1.00128.65		C	
ANISOU	97	CD2	LEU	C	35	14389	20886	13608	1431	2055	490	C
ATOM	98	C	LEU	C	35	57.214	27.453	32.081	1.00125.66		C	
ANISOU	98	C	LEU	C	35	13563	20335	13848	1150	2136	466	C
ATOM	99	O	LEU	C	35	56.545	28.202	31.366	1.00123.58		O	
ANISOU	99	O	LEU	C	35	13278	20100	13579	1255	2062	304	O
ATOM	100	N	LEU	C	36	58.111	26.600	31.595	1.00124.87		N	
ANISOU	100	N	LEU	C	36	13504	20086	13854	1049	2118	568	N
ATOM	101	CA	LEU	C	36	58.385	26.470	30.158	1.00116.84		C	
ANISOU	101	CA	LEU	C	36	12512	18926	12956	1049	2010	494	C
ATOM	102	CB	LEU	C	36	59.639	25.640	29.924	1.00115.84		C	
ANISOU	102	CB	LEU	C	36	12468	18637	12908	937	1999	638	C
ATOM	103	CG	LEU	C	36	60.047	25.501	28.465	1.00108.20		C	
ANISOU	103	CG	LEU	C	36	11543	17509	12058	930	1889	572	C
ATOM	104	CD1	LEU	C	36	60.177	26.862	27.823	1.00	96.06		C
ANISOU	104	CD1	LEU	C	36	10133	15952	10411	1078	1753	428	C
ATOM	105	CD2	LEU	C	36	61.346	24.728	28.341	1.00106.70		C	
ANISOU	105	CD2	LEU	C	36	11444	17161	11937	819	1883	720	C
ATOM	106	C	LEU	C	36	57.278	25.931	29.268	1.00110.11		C	
ANISOU	106	C	LEU	C	36	11487	18087	12263	1029	2020	387	C
ATOM	107	O	LEU	C	36	57.035	26.474	28.201	1.00107.52		O	
ANISOU	107	O	LEU	C	36	11176	17714	11961	1106	1914	249	O
ATOM	108	N	VAL	C	37	56.602	24.873	29.690	1.00111.01		N	
ANISOU	108	N	VAL	C	37	11436	18262	12483	927	2145	446	N
ATOM	109	CA	VAL	C	37	55.519	24.350	28.868	1.00107.34		C	
ANISOU	109	CA	VAL	C	37	10800	17815	12171	906	2159	341	C
ATOM	110	CB	VAL	C	37	55.015	22.950	29.234	1.00107.08		C	
ANISOU	110	CB	VAL	C	37	10595	17809	12281	763	2300	433	C
ATOM	111	CG1	VAL	C	37	53.814	22.597	28.376	1.00109.89		C	
ANISOU	111	CG1	VAL	C	37	10777	18198	12778	763	2304	300	C
ATOM	112	CG2	VAL	C	37	56.103	21.915	29.073	1.00102.98		C	
ANISOU	112	CG2	VAL	C	37	10127	17142	11858	631	2318	589	C
ATOM	113	C	VAL	C	37	54.448	25.409	28.821	1.00105.76		C	
ANISOU	113	C	VAL	C	37	10551	17743	11889	1044	2123	170	C
ATOM	114	O	VAL	C	37	53.667	25.469	27.902	1.00108.02		O	

ANISOU	114	O	VAL	C	37	10748	18031	12262	1082	2075	37	O
ATOM	115	N	ILE	C	38	54.403	26.239	29.844	1.00115.53			N
ANISOU	115	N	ILE	C	38	11846	19090	12959	1119	2150	177	N
ATOM	116	CA	ILE	C	38	53.468	27.341	29.886	1.00117.78			C
ANISOU	116	CA	ILE	C	38	12102	19498	13152	1257	2116	20	C
ATOM	117	CB	ILE	C	38	53.464	27.987	31.271	1.00122.02			C
ANISOU	117	CB	ILE	C	38	12686	20162	13514	1302	2185	68	C
ATOM	118	CG1	ILE	C	38	52.912	26.980	32.274	1.00119.40			C
ANISOU	118	CG1	ILE	C	38	12211	19922	13235	1190	2351	170	C
ATOM	119	CD1	ILE	C	38	53.090	27.381	33.710	1.00124.99			C
ANISOU	119	CD1	ILE	C	38	12975	20735	13781	1201	2433	256	C
ATOM	120	CG2	ILE	C	38	52.627	29.248	31.268	1.00117.71			C
ANISOU	120	CG2	ILE	C	38	12133	19730	12863	1455	2136	-96	C
ATOM	121	C	ILE	C	38	53.786	28.341	28.772	1.00110.77			C
ANISOU	121	C	ILE	C	38	11334	18527	12226	1375	1951	-109	C
ATOM	122	O	ILE	C	38	52.880	28.849	28.137	1.00105.87			O
ANISOU	122	O	ILE	C	38	10643	17953	11628	1461	1899	-264	O
ATOM	123	N	VAL	C	39	55.072	28.597	28.549	1.00110.56			N
ANISOU	123	N	VAL	C	39	11488	18375	12145	1375	1873	-42	N
ATOM	124	CA	VAL	C	39	55.543	29.489	27.485	1.00106.54			C
ANISOU	124	CA	VAL	C	39	11115	17766	11599	1475	1718	-148	C
ATOM	125	CB	VAL	C	39	57.044	29.755	27.582	1.00	98.60		C
ANISOU	125	CB	VAL	C	39	10314	16638	10510	1465	1661	-47	C
ATOM	126	CG1	VAL	C	39	57.480	30.571	26.398	1.00	98.09		C
ANISOU	126	CG1	VAL	C	39	10380	16463	10427	1557	1507	-162	C
ATOM	127	CG2	VAL	C	39	57.383	30.495	28.856	1.00	98.98		C
ANISOU	127	CG2	VAL	C	39	10453	16781	10372	1517	1701	12	C
ATOM	128	C	VAL	C	39	55.286	28.945	26.087	1.00107.30			C
ANISOU	128	C	VAL	C	39	11147	17758	11864	1442	1652	-226	C
ATOM	129	O	VAL	C	39	54.914	29.670	25.182	1.00100.01			O
ANISOU	129	O	VAL	C	39	10246	16818	10936	1542	1546	-373	O
ATOM	130	N	LEU	C	40	55.517	27.643	25.905	1.00103.43			N
ANISOU	130	N	LEU	C	40	10581	17191	11525	1298	1715	-123	N
ATOM	131	CA	LEU	C	40	55.302	26.989	24.615	1.00	97.48		C
ANISOU	131	CA	LEU	C	40	9761	16336	10943	1248	1665	-182	C
ATOM	132	CB	LEU	C	40	55.799	25.544	24.658	1.00	92.44		C
ANISOU	132	CB	LEU	C	40	9064	15608	10449	1077	1749	-32	C
ATOM	133	CG	LEU	C	40	57.243	25.240	24.985	1.00	85.61		C
ANISOU	133	CG	LEU	C	40	8349	14624	9555	1005	1749	126	C
ATOM	134	CD1	LEU	C	40	57.447	23.752	25.108	1.00	96.74		C
ANISOU	134	CD1	LEU	C	40	9661	15977	11121	838	1852	264	C
ATOM	135	CD2	LEU	C	40	58.102	25.787	23.887	1.00	86.94		C
ANISOU	135	CD2	LEU	C	40	8677	14639	9718	1052	1605	69	C
ATOM	136	C	LEU	C	40	53.845	26.972	24.166	1.00103.23			C
ANISOU	136	C	LEU	C	40	10309	17163	11749	1288	1674	-327	C
ATOM	137	O	LEU	C	40	53.533	27.335	23.041	1.00107.46			O
ANISOU	137	O	LEU	C	40	10848	17650	12332	1349	1570	-458	O
ATOM	138	N	LEU	C	41	52.945	26.576	25.057	1.00105.34			N
ANISOU	138	N	LEU	C	41	10424	17573	12029	1257	1799	-306	N
ATOM	139	CA	LEU	C	41	51.517	26.597	24.738	1.00102.44			C
ANISOU	139	CA	LEU	C	41	9880	17313	11731	1300	1816	-446	C
ATOM	140	CB	LEU	C	41	50.704	25.907	25.840	1.00	99.53		C
ANISOU	140	CB	LEU	C	41	9345	17083	11391	1230	1980	-385	C
ATOM	141	CG	LEU	C	41	51.077	24.452	26.153	1.00	99.96		C
ANISOU	141	CG	LEU	C	41	9328	17081	11569	1057	2095	-225	C
ATOM	142	CD1	LEU	C	41	50.199	23.881	27.249	1.00105.33			C
ANISOU	142	CD1	LEU	C	41	9849	17906	12266	1001	2255	-180	C
ATOM	143	CD2	LEU	C	41	51.010	23.587	24.909	1.00	95.44		C
ANISOU	143	CD2	LEU	C	41	8685	16394	11183	980	2057	-255	C
ATOM	144	C	LEU	C	41	51.036	28.033	24.525	1.00107.44			C
ANISOU	144	C	LEU	C	41	10569	18016	12238	1473	1715	-605	C
ATOM	145	O	LEU	C	41	50.252	28.315	23.617	1.00107.88			O
ANISOU	145	O	LEU	C	41	10555	18081	12354	1537	1643	-752	O

ATOM	146	N	ALA	C	42	51.520	28.934	25.374	1.00107.64	N		
ANISOU	146	N	ALA	C	42	10722	18089	12089	1547	1711	-573	N
ATOM	147	CA	ALA	C	42	51.156	30.344	25.300	1.00108.19	C		
ANISOU	147	CA	ALA	C	42	10859	18227	12023	1712	1623	-711	C
ATOM	148	CB	ALA	C	42	51.764	31.121	26.458	1.00115.72	C		
ANISOU	148	CB	ALA	C	42	11942	19238	12788	1762	1651	-639	C
ATOM	149	C	ALA	C	42	51.609	30.927	23.980	1.00101.16	C		
ANISOU	149	C	ALA	C	42	10088	17207	11140	1784	1462	-808	C
ATOM	150	O	ALA	C	42	50.834	31.586	23.289	1.00103.92	O		
ANISOU	150	O	ALA	C	42	10401	17592	11493	1888	1383	-965	O
ATOM	151	N	GLY	C	43	52.872	30.680	23.640	1.00101.17	N		
ANISOU	151	N	GLY	C	43	10236	17059	11146	1727	1416	-714	N
ATOM	152	CA	GLY	C	43	53.434	31.144	22.385	1.00106.00	C		
ANISOU	152	CA	GLY	C	43	10975	17530	11769	1780	1270	-792	C
ATOM	153	C	GLY	C	43	52.739	30.513	21.192	1.00102.02	C		
ANISOU	153	C	GLY	C	43	10349	16977	11438	1744	1231	-882	C
ATOM	154	O	GLY	C	43	52.431	31.196	20.214	1.00100.57	O		
ANISOU	154	O	GLY	C	43	10199	16761	11250	1840	1113	-1023	O
ATOM	155	N	SER	C	44	52.484	29.209	21.286	1.00	99.06	N	
ANISOU	155	N	SER	C	44	9830	16598	11211	1605	1331	-800	N
ATOM	156	CA	SER	C	44	51.798	28.467	20.234	1.00103.81	C		
ANISOU	156	CA	SER	C	44	10297	17159	11986	1553	1312	-874	C
ATOM	157	CB	SER	C	44	51.552	27.020	20.672	1.00105.27	C		
ANISOU	157	CB	SER	C	44	10322	17362	12314	1394	1454	-759	C
ATOM	158	OG	SER	C	44	52.768	26.316	20.834	1.00101.95	O		
ANISOU	158	OG	SER	C	44	9996	16819	11921	1280	1485	-600	O
ATOM	159	C	SER	C	44	50.469	29.126	19.875	1.00107.73	C		
ANISOU	159	C	SER	C	44	10682	17770	12480	1669	1268	-1051	C
ATOM	160	O	SER	C	44	50.184	29.371	18.702	1.00111.65	O		
ANISOU	160	O	SER	C	44	11182	18206	13033	1718	1159	-1172	O
ATOM	161	N	TYR	C	45	49.652	29.374	20.893	1.00109.05	N		
ANISOU	161	N	TYR	C	45	10747	18101	12587	1708	1357	-1065	N
ATOM	162	CA	TYR	C	45	48.358	30.016	20.719	1.00114.91	C		
ANISOU	162	CA	TYR	C	45	11374	18966	13320	1819	1329	-1228	C
ATOM	163	CB	TYR	C	45	47.541	29.995	22.006	1.00117.02	C		
ANISOU	163	CB	TYR	C	45	11512	19407	13542	1821	1463	-1207	C
ATOM	164	CG	TYR	C	45	46.252	30.777	21.894	1.00126.32	C		
ANISOU	164	CG	TYR	C	45	12584	20714	14699	1946	1432	-1377	C
ATOM	165	CD1	TYR	C	45	46.213	32.132	22.179	1.00123.15	C		
ANISOU	165	CD1	TYR	C	45	12284	20372	14135	2095	1367	-1456	C
ATOM	166	CE1	TYR	C	45	45.045	32.853	22.073	1.00128.17	C		
ANISOU	166	CE1	TYR	C	45	12821	21122	14754	2211	1337	-1612	C
ATOM	167	CZ	TYR	C	45	43.901	32.224	21.659	1.00138.69	C		
ANISOU	167	CZ	TYR	C	45	13952	22510	16235	2180	1369	-1693	C
ATOM	168	OH	TYR	C	45	42.732	32.933	21.541	1.00142.61	O		
ANISOU	168	OH	TYR	C	45	14346	23117	16721	2296	1336	-1851	O
ATOM	169	CE2	TYR	C	45	43.913	30.883	21.367	1.00135.37	C		
ANISOU	169	CE2	TYR	C	45	13428	22033	15975	2033	1434	-1620	C
ATOM	170	CD2	TYR	C	45	45.082	30.167	21.480	1.00127.76	C		
ANISOU	170	CD2	TYR	C	45	12563	20954	15026	1917	1466	-1462	C
ATOM	171	C	TYR	C	45	48.498	31.437	20.259	1.00113.09	C		
ANISOU	171	C	TYR	C	45	11289	18724	12958	1981	1189	-1348	C
ATOM	172	O	TYR	C	45	47.754	31.893	19.426	1.00118.00	O		
ANISOU	172	O	TYR	C	45	11863	19359	13611	2066	1102	-1496	O
ATOM	173	N	LEU	C	46	49.429	32.175	20.829	1.00110.30	N		
ANISOU	173	N	LEU	C	46	11111	18348	12450	2029	1169	-1286	N
ATOM	174	CA	LEU	C	46	49.614	33.540	20.388	1.00109.16	C		
ANISOU	174	CA	LEU	C	46	11114	18187	12177	2183	1038	-1398	C
ATOM	175	CB	LEU	C	46	50.519	34.315	21.314	1.00112.58	C		
ANISOU	175	CB	LEU	C	46	11714	18631	12430	2230	1048	-1320	C
ATOM	176	CG	LEU	C	46	49.904	34.477	22.682	1.00111.53	C		
ANISOU	176	CG	LEU	C	46	11490	18668	12218	2244	1170	-1288	C
ATOM	177	CD1	LEU	C	46	50.941	35.129	23.569	1.00	96.49	C	

ANISOU	177	CD1	LEU	C	46	9762	16757	10144	2272	1181	-1194	C
ATOM	178	CD2	LEU	C	46	48.677	35.350	22.560	1.00121.30			C
ANISOU	178	CD2	LEU	C	46	12639	20028	13421	2378	1134	-1456	C
ATOM	179	C	LEU	C	46	50.140	33.633	18.979	1.00107.36			C
ANISOU	179	C	LEU	C	46	10991	17798	12002	2197	899	-1459	C
ATOM	180	O	LEU	C	46	49.735	34.498	18.227	1.00109.36			O
ANISOU	180	O	LEU	C	46	11281	18049	12222	2317	786	-1602	O
ATOM	181	N	ALA	C	47	51.061	32.751	18.617	1.00106.97			N
ANISOU	181	N	ALA	C	47	10995	17611	12037	2074	907	-1349	N
ATOM	182	CA	ALA	C	47	51.637	32.825	17.285	1.00106.39			C
ANISOU	182	CA	ALA	C	47	11034	17376	12015	2080	779	-1401	C
ATOM	183	CB	ALA	C	47	52.660	31.727	17.130	1.0094.44			C
ANISOU	183	CB	ALA	C	47	9562	15724	10597	1925	820	-1256	C
ATOM	184	C	ALA	C	47	50.616	32.707	16.187	1.00104.44			C
ANISOU	184	C	ALA	C	47	10668	17133	11883	2109	712	-1546	C
ATOM	185	O	ALA	C	47	50.595	33.504	15.265	1.00102.28			O
ANISOU	185	O	ALA	C	47	10484	16803	11573	2211	581	-1665	O
ATOM	186	N	VAL	C	48	49.737	31.733	16.303	1.00106.60			N
ANISOU	186	N	VAL	C	48	10736	17475	12291	2025	803	-1537	N
ATOM	187	CA	VAL	C	48	48.682	31.550	15.315	1.00100.83			C
ANISOU	187	CA	VAL	C	48	9872	16760	11678	2047	748	-1674	C
ATOM	188	CB	VAL	C	48	47.746	30.374	15.668	1.0098.12			C
ANISOU	188	CB	VAL	C	48	9291	16506	11483	1938	876	-1644	C
ATOM	189	CG1	VAL	C	48	46.547	30.363	14.742	1.00101.54			C
ANISOU	189	CG1	VAL	C	48	9583	16980	12019	1984	815	-1803	C
ATOM	190	CG2	VAL	C	48	48.478	29.053	15.576	1.0096.52			C
ANISOU	190	CG2	VAL	C	48	9075	16195	11404	1764	949	-1501	C
ATOM	191	C	VAL	C	48	47.869	32.828	15.204	1.00102.20			C
ANISOU	191	C	VAL	C	48	10050	17032	11749	2221	663	-1834	C
ATOM	192	O	VAL	C	48	47.574	33.286	14.107	1.00107.53			O
ANISOU	192	O	VAL	C	48	10753	17656	12446	2296	539	-1962	O
ATOM	193	N	LEU	C	49	47.533	33.416	16.346	1.00105.37			N
ANISOU	193	N	LEU	C	49	10429	17572	12036	2286	730	-1825	N
ATOM	194	CA	LEU	C	49	46.766	34.654	16.373	1.00110.65			C
ANISOU	194	CA	LEU	C	49	11099	18342	12600	2453	662	-1969	C
ATOM	195	CB	LEU	C	49	46.488	35.089	17.809	1.00113.14			C
ANISOU	195	CB	LEU	C	49	11381	18809	12800	2491	769	-1927	C
ATOM	196	CG	LEU	C	49	45.711	36.402	17.968	1.00117.37			C
ANISOU	196	CG	LEU	C	49	11918	19457	13219	2663	711	-2069	C
ATOM	197	CD1	LEU	C	49	44.199	36.161	18.091	1.00122.30			C
ANISOU	197	CD1	LEU	C	49	12310	20223	13935	2681	764	-2168	C
ATOM	198	CD2	LEU	C	49	46.266	37.271	19.085	1.00118.51			C
ANISOU	198	CD2	LEU	C	49	12187	19660	13180	2727	749	-2012	C
ATOM	199	C	LEU	C	49	47.539	35.758	15.662	1.00104.22			C
ANISOU	199	C	LEU	C	49	10506	17423	11672	2564	514	-2031	C
ATOM	200	O	LEU	C	49	46.976	36.546	14.904	1.00102.54			O
ANISOU	200	O	LEU	C	49	10305	17218	11438	2683	401	-2178	O
ATOM	201	N	ALA	C	50	48.831	35.835	15.952	1.00105.46			N
ANISOU	201	N	ALA	C	50	10837	17484	11749	2527	516	-1916	N
ATOM	202	CA	ALA	C	50	49.670	36.860	15.360	1.00102.99			C
ANISOU	202	CA	ALA	C	50	10745	17066	11322	2625	386	-1963	C
ATOM	203	CB	ALA	C	50	51.013	36.935	16.098	1.00102.62			C
ANISOU	203	CB	ALA	C	50	10864	16956	11172	2580	427	-1819	C
ATOM	204	C	ALA	C	50	49.894	36.614	13.873	1.00104.25			C
ANISOU	204	C	ALA	C	50	10955	17074	11580	2606	269	-2028	C
ATOM	205	O	ALA	C	50	49.967	37.566	13.091	1.00103.13			O
ANISOU	205	O	ALA	C	50	10933	16879	11371	2722	139	-2140	O
ATOM	206	N	GLU	C	51	49.996	35.339	13.487	1.00104.42			N
ANISOU	206	N	GLU	C	51	10889	17026	11761	2459	316	-1958	N
ATOM	207	CA	GLU	C	51	50.277	34.974	12.093	1.00102.02			C
ANISOU	207	CA	GLU	C	51	10632	16568	11562	2420	216	-2005	C
ATOM	208	CB	GLU	C	51	51.246	33.792	12.060	1.0098.16			C
ANISOU	208	CB	GLU	C	51	10168	15956	11173	2250	281	-1854	C

ATOM	209	CG	GLU	C	51	52.554	34.074	12.791	1.00	92.58	C	
ANISOU	209	CG	GLU	C	51	9638	15190	10349	2233	309	-1728	C
ATOM	210	CD	GLU	C	51	53.528	34.860	11.933	1.00	89.03	C	
ANISOU	210	CD	GLU	C	51	9416	14587	9823	2296	176	-1772	C
ATOM	211	OE1	GLU	C	51	54.026	34.307	10.924	1.00	86.85	O	
ANISOU	211	OE1	GLU	C	51	9189	14162	9649	2221	124	-1767	O
ATOM	212	OE2	GLU	C	51	53.800	36.033	12.272	1.00	80.22	O	
ANISOU	212	OE2	GLU	C	51	8432	13501	8547	2419	127	-1812	O
ATOM	213	C	GLU	C	51	49.079	34.657	11.186	1.00	102.45	C	
ANISOU	213	C	GLU	C	51	10525	16657	11745	2432	170	-2134	C
ATOM	214	O	GLU	C	51	49.021	35.172	10.078	1.00	103.92	O	
ANISOU	214	O	GLU	C	51	10788	16766	11933	2503	39	-2247	O
ATOM	215	N	ARG	C	52	48.154	33.802	11.631	1.00	104.56	N	
ANISOU	215	N	ARG	C	52	10574	17032	12121	2360	277	-2117	N
ATOM	216	CA	ARG	C	52	47.010	33.384	10.798	1.00	104.76	C	
ANISOU	216	CA	ARG	C	52	10430	17091	12283	2358	243	-2233	C
ATOM	217	CB	ARG	C	52	45.971	32.614	11.616	1.00	103.30	C	
ANISOU	217	CB	ARG	C	52	10007	17057	12185	2296	382	-2209	C
ATOM	218	CG	ARG	C	52	45.164	31.637	10.800	1.00	104.79	C	
ANISOU	218	CG	ARG	C	52	10020	17236	12559	2215	386	-2263	C
ATOM	219	CD	ARG	C	52	43.945	31.127	11.549	1.00	125.45	C	
ANISOU	219	CD	ARG	C	52	12399	20019	15247	2190	506	-2280	C
ATOM	220	NE	ARG	C	52	43.203	30.177	10.725	1.00	150.31	N	
ANISOU	220	NE	ARG	C	52	15381	23153	18576	2110	509	-2335	N
ATOM	221	CZ	ARG	C	52	42.277	30.517	9.828	1.00	159.22	C	
ANISOU	221	CZ	ARG	C	52	16435	24307	19755	2190	409	-2493	C
ATOM	222	NH1	ARG	C	52	41.960	31.792	9.640	1.00	160.68	N	
ANISOU	222	NH1	ARG	C	52	16695	24534	19824	2355	299	-2614	N
ATOM	223	NH2	ARG	C	52	41.663	29.580	9.115	1.00	155.77	N	
ANISOU	223	NH2	ARG	C	52	15847	23854	19485	2106	419	-2532	N
ATOM	224	C	ARG	C	52	46.328	34.556	10.106	1.00	108.35	C	
ANISOU	224	C	ARG	C	52	10919	17579	12671	2526	105	-2410	C
ATOM	225	O	ARG	C	52	45.984	35.553	10.744	1.00	102.65	O	
ANISOU	225	O	ARG	C	52	10219	16963	11822	2650	98	-2461	O
ATOM	226	N	GLY	C	53	46.121	34.415	8.802	1.00	114.49	N	
ANISOU	226	N	GLY	C	53	11699	18265	13536	2527	-2	-2502	N
ATOM	227	CA	GLY	C	53	45.499	35.462	8.018	1.00	118.98	C	
ANISOU	227	CA	GLY	C	53	12305	18850	14053	2681	-143	-2670	C
ATOM	228	C	GLY	C	53	46.477	36.487	7.469	1.00	118.44	C	
ANISOU	228	C	GLY	C	53	12490	18659	13854	2771	-269	-2698	C
ATOM	229	O	GLY	C	53	46.076	37.439	6.800	1.00	122.44	O	
ANISOU	229	O	GLY	C	53	13055	19165	14301	2906	-394	-2834	O
ATOM	230	N	ALA	C	54	47.762	36.304	7.751	1.00	112.71	N	
ANISOU	230	N	ALA	C	54	11916	17827	13082	2700	-236	-2570	N
ATOM	231	CA	ALA	C	54	48.778	37.210	7.233	1.00	111.41	C	
ANISOU	231	CA	ALA	C	54	11998	17535	12799	2773	-347	-2590	C
ATOM	232	CB	ALA	C	54	49.977	37.272	8.169	1.00	111.66	C	
ANISOU	232	CB	ALA	C	54	12163	17529	12732	2730	-273	-2445	C
ATOM	233	C	ALA	C	54	49.206	36.747	5.855	1.00	113.22	C	
ANISOU	233	C	ALA	C	54	12299	17593	13127	2710	-440	-2619	C
ATOM	234	O	ALA	C	54	48.976	35.598	5.490	1.00	117.71	O	
ANISOU	234	O	ALA	C	54	12742	18132	13852	2583	-393	-2583	O
ATOM	235	N	PRO	C	55	49.856	37.630	5.086	1.00	113.75	N	
ANISOU	235	N	PRO	C	55	12573	17543	13104	2794	-567	-2682	N
ATOM	236	CA	PRO	C	55	50.300	37.222	3.750	1.00	109.80	C	
ANISOU	236	CA	PRO	C	55	12154	16872	12692	2733	-657	-2712	C
ATOM	237	CB	PRO	C	55	50.344	38.535	2.965	1.00	97.40	C	
ANISOU	237	CB	PRO	C	55	10754	15251	11004	2892	-812	-2847	C
ATOM	238	CG	PRO	C	55	50.314	39.618	3.972	1.00	108.20	C	
ANISOU	238	CG	PRO	C	55	12175	16730	12205	3020	-794	-2855	C
ATOM	239	CD	PRO	C	55	50.160	39.045	5.351	1.00	116.78	C	
ANISOU	239	CD	PRO	C	55	13122	17945	13303	2950	-636	-2737	C
ATOM	240	C	PRO	C	55	51.680	36.558	3.828	1.00	108.13	C	

ANISOU	240	C	PRO	C	55	12065	16514	12507	2599	-604	-2566	C
ATOM	241	O	PRO	C	55	52.595	37.104	4.452	1.00102.17			O
ANISOU	241	O	PRO	C	55	11459	15731	11630	2627	-587	-2499	O
ATOM	242	N	GLY	C	56	51.807	35.398	3.210	1.00104.80			N
ANISOU	242	N	GLY	C	56	11575	16002	12242	2456	-579	-2522	N
ATOM	243	CA	GLY	C	56	53.029	34.648	3.248	1.00	96.34		C
ANISOU	243	CA	GLY	C	56	10595	14792	11217	2318	-524	-2385	C
ATOM	244	C	GLY	C	56	53.375	34.217	4.640	1.00	88.07		C
ANISOU	244	C	GLY	C	56	9491	13825	10147	2253	-380	-2237	C
ATOM	245	O	GLY	C	56	54.507	34.237	5.020	1.00	96.41		O
ANISOU	245	O	GLY	C	56	10684	14799	11150	2212	-353	-2135	O
ATOM	246	N	ALA	C	57	52.388	33.817	5.410	1.00	89.53		N
ANISOU	246	N	ALA	C	57	9471	14172	10372	2242	-287	-2226	N
ATOM	247	CA	ALA	C	57	52.624	33.372	6.764	1.00	84.94		C
ANISOU	247	CA	ALA	C	57	8826	13677	9771	2177	-145	-2086	C
ATOM	248	CB	ALA	C	57	51.646	34.038	7.685	1.00	93.43		C
ANISOU	248	CB	ALA	C	57	9797	14947	10756	2289	-108	-2138	C
ATOM	249	C	ALA	C	57	52.391	31.902	6.790	1.00	88.26		C
ANISOU	249	C	ALA	C	57	9075	14093	10368	2012	-40	-2001	C
ATOM	250	O	ALA	C	57	51.532	31.442	6.087	1.00	98.39		O
ANISOU	250	O	ALA	C	57	10226	15393	11766	1990	-62	-2080	O
ATOM	251	N	GLN	C	58	53.160	31.149	7.559	1.00	90.98		N
ANISOU	251	N	GLN	C	58	9422	14408	10738	1894	70	-1841	N
ATOM	252	CA	GLN	C	58	52.946	29.711	7.595	1.00	98.41		C
ANISOU	252	CA	GLN	C	58	10199	15343	11851	1732	176	-1755	C
ATOM	253	CB	GLN	C	58	54.168	28.985	7.060	1.00101.41			C
ANISOU	253	CB	GLN	C	58	10690	15532	12308	1604	176	-1655	C
ATOM	254	CG	GLN	C	58	53.835	27.701	6.324	1.00107.52			C
ANISOU	254	CG	GLN	C	58	11326	16248	13280	1464	213	-1642	C
ATOM	255	CD	GLN	C	58	53.478	27.922	4.873	1.00111.11			C
ANISOU	255	CD	GLN	C	58	11808	16619	13791	1500	84	-1785	C
ATOM	256	OE1	GLN	C	58	54.120	28.699	4.177	1.00115.41			O
ANISOU	256	OE1	GLN	C	58	12539	17052	14259	1567	-32	-1842	O
ATOM	257	NE2	GLN	C	58	52.452	27.226	4.407	1.00122.87			N
ANISOU	257	NE2	GLN	C	58	13112	18160	15414	1454	104	-1845	N
ATOM	258	C	GLN	C	58	52.541	29.169	8.956	1.00	95.54		C
ANISOU	258	C	GLN	C	58	9684	15125	11492	1681	329	-1653	C
ATOM	259	O	GLN	C	58	52.078	28.049	9.079	1.00	95.02		O
ANISOU	259	O	GLN	C	58	9450	15090	11564	1565	425	-1601	O
ATOM	260	N	LEU	C	59	52.719	29.994	9.971	1.00	95.72		N
ANISOU	260	N	LEU	C	59	9773	15235	11360	1769	351	-1626	N
ATOM	261	CA	LEU	C	59	52.412	29.671	11.356	1.00	99.21		C
ANISOU	261	CA	LEU	C	59	10102	15818	11774	1736	491	-1530	C
ATOM	262	CB	LEU	C	59	53.265	30.529	12.302	1.00	89.14		C
ANISOU	262	CB	LEU	C	59	8990	14558	10322	1803	497	-1461	C
ATOM	263	CG	LEU	C	59	54.021	29.905	13.477	1.00	80.10		C
ANISOU	263	CG	LEU	C	59	7853	13422	9159	1701	624	-1280	C
ATOM	264	CD1	LEU	C	59	54.765	28.650	13.058	1.00	76.17		C
ANISOU	264	CD1	LEU	C	59	7350	12783	8809	1535	666	-1165	C
ATOM	265	CD2	LEU	C	59	54.991	30.934	14.036	1.00	76.51		C
ANISOU	265	CD2	LEU	C	59	7601	12944	8525	1784	584	-1243	C
ATOM	266	C	LEU	C	59	50.911	29.930	11.520	1.00	95.47		C
ANISOU	266	C	LEU	C	59	9449	15514	11311	1816	505	-1649	C
ATOM	267	O	LEU	C	59	50.488	30.748	12.332	1.00	98.81		O
ANISOU	267	O	LEU	C	59	9866	16066	11612	1920	521	-1682	O
ATOM	268	N	ILE	C	60	50.111	29.225	10.727	1.00	95.23		N
ANISOU	268	N	ILE	C	60	9271	15480	11431	1765	498	-1716	N
ATOM	269	CA	ILE	C	60	48.680	29.487	10.661	1.00	95.75		C
ANISOU	269	CA	ILE	C	60	9169	15688	11522	1844	491	-1850	C
ATOM	270	CB	ILE	C	60	48.267	29.810	9.196	1.00104.59			C
ANISOU	270	CB	ILE	C	60	10307	16736	12697	1904	345	-2003	C
ATOM	271	CG1	ILE	C	60	48.411	28.590	8.293	1.00	97.46		C
ANISOU	271	CG1	ILE	C	60	9340	15716	11973	1758	355	-1972	C

ATOM	272	CD1	ILE	C	60	48.026	28.857	6.856	1.00	95.46	C	
ANISOU	272	CD1	ILE	C	60	9107	15389	11775	1808	214	-2118	C
ATOM	273	CG2	ILE	C	60	49.099	30.963	8.647	1.00	95.17	C	
ANISOU	273	CG2	ILE	C	60	9351	15439	11369	2013	206	-2054	C
ATOM	274	C	ILE	C	60	47.760	28.388	11.206	1.00	96.95	C	
ANISOU	274	C	ILE	C	60	9082	15951	11804	1743	630	-1811	C
ATOM	275	O	ILE	C	60	46.545	28.472	11.057	1.00	103.14	O	
ANISOU	275	O	ILE	C	60	9711	16843	12633	1794	626	-1925	O
ATOM	276	N	THR	C	61	48.320	27.353	11.820	1.00	98.53	N	
ANISOU	276	N	THR	C	61	9249	16121	12067	1600	752	-1654	N
ATOM	277	CA	THR	C	61	47.487	26.346	12.481	1.00	104.74	C	
ANISOU	277	CA	THR	C	61	9816	17018	12962	1505	897	-1608	C
ATOM	278	CB	THR	C	61	47.252	25.061	11.614	1.00	95.72	C	
ANISOU	278	CB	THR	C	61	8549	15798	12022	1367	924	-1601	C
ATOM	279	OG1	THR	C	61	48.320	24.121	11.788	1.00	99.20	O	
ANISOU	279	OG1	THR	C	61	9047	16124	12522	1222	995	-1438	O
ATOM	280	CG2	THR	C	61	47.130	25.398	10.156	1.00	91.81	C	
ANISOU	280	CG2	THR	C	61	8105	15208	11572	1417	773	-1734	C
ATOM	281	C	THR	C	61	48.167	25.989	13.810	1.00	107.24	C	
ANISOU	281	C	THR	C	61	10163	17365	13219	1434	1027	-1437	C
ATOM	282	O	THR	C	61	49.382	26.119	13.946	1.00	106.83	O	
ANISOU	282	O	THR	C	61	10281	17208	13101	1410	1007	-1338	O
ATOM	283	N	TYR	C	62	47.366	25.550	14.786	1.00	107.65	N	
ANISOU	283	N	TYR	C	62	11460	16778	12665	321	1672	-355	N
ATOM	284	CA	TYR	C	62	47.854	25.214	16.132	1.00	113.56	C	
ANISOU	284	CA	TYR	C	62	12320	17413	13415	154	1637	-303	C
ATOM	285	CB	TYR	C	62	46.687	24.873	17.072	1.00	122.90	C	
ANISOU	285	CB	TYR	C	62	13394	18895	14406	84	1697	-360	C
ATOM	286	CG	TYR	C	62	45.729	25.994	17.397	1.00	130.17	C	
ANISOU	286	CG	TYR	C	62	14292	20029	15138	313	1747	-450	C
ATOM	287	CD1	TYR	C	62	46.063	26.981	18.293	1.00	130.60	C	
ANISOU	287	CD1	TYR	C	62	14501	19977	15146	425	1721	-449	C
ATOM	288	CE1	TYR	C	62	45.182	28.000	18.584	1.00	136.94	C	
ANISOU	288	CE1	TYR	C	62	15281	20975	15776	634	1768	-532	C
ATOM	289	CZ	TYR	C	62	43.949	28.030	17.986	1.00	140.83	C	
ANISOU	289	CZ	TYR	C	62	15594	21775	16141	732	1841	-616	C
ATOM	290	OH	TYR	C	62	43.058	29.034	18.261	1.00	143.49	O	
ANISOU	290	OH	TYR	C	62	15905	22310	16306	940	1889	-699	O
ATOM	291	CE2	TYR	C	62	43.591	27.050	17.104	1.00	143.16	C	
ANISOU	291	CE2	TYR	C	62	15734	22184	16478	621	1868	-617	C
ATOM	292	CD2	TYR	C	62	44.477	26.037	16.822	1.00	143.25	C	
ANISOU	292	CD2	TYR	C	62	15770	21998	16661	412	1821	-535	C
ATOM	293	C	TYR	C	62	48.819	24.063	16.255	1.00	110.24	C	
ANISOU	293	C	TYR	C	62	11947	16778	13162	-107	1585	-207	C
ATOM	294	O	TYR	C	62	49.845	24.180	16.896	1.00	113.62	O	
ANISOU	294	O	TYR	C	62	12539	16947	13684	-171	1523	-138	O
ATOM	295	N	PRO	C	63	48.518	22.949	15.625	1.00	106.50	N	
ANISOU	295	N	PRO	C	63	11332	16405	12729	-260	1608	-201	N
ATOM	296	CA	PRO	C	63	49.432	21.795	15.731	1.00	105.52	C	
ANISOU	296	CA	PRO	C	63	11247	16079	12766	-518	1559	-109	C
ATOM	297	CB	PRO	C	63	48.686	20.702	14.948	1.00	105.59	C	
ANISOU	297	CB	PRO	C	63	11057	16299	12764	-638	1608	-133	C
ATOM	298	CG	PRO	C	63	47.914	21.447	13.924	1.00	116.22	C	
ANISOU	298	CG	PRO	C	63	12303	17820	14034	-405	1657	-212	C
ATOM	299	CD	PRO	C	63	47.466	22.682	14.624	1.00	111.17	C	
ANISOU	299	CD	PRO	C	63	11727	17265	13248	-202	1674	-269	C
ATOM	300	C	PRO	C	63	50.844	21.986	15.162	1.00	98.69	C	
ANISOU	300	C	PRO	C	63	10530	14857	12112	-508	1485	-28	C
ATOM	301	O	PRO	C	63	51.745	21.223	15.491	1.00	88.16	O	
ANISOU	301	O	PRO	C	63	9272	13316	10911	-708	1435	55	O
ATOM	302	N	ARG	C	64	51.016	22.953	14.276	1.00	106.21	N	
ANISOU	302	N	ARG	C	64	11514	15744	13095	-283	1479	-52	N
ATOM	303	CA	ARG	C	64	52.326	23.241	13.710	1.00	102.31	C	

ANISOU	303	CA	ARG	C	64	11162	14918	12794	-251	1410	20	C
ATOM	304	CB	ARG	C	64	52.244	23.643	12.227	1.00108.52			C
ANISOU	304	CB	ARG	C	64	11882	15715	13635	-83	1423	-11	C
ATOM	305	CG	ARG	C	64	51.331	24.806	11.919	1.00104.42			C
ANISOU	305	CG	ARG	C	64	11311	15397	12965	188	1471	-105	C
ATOM	306	CD	ARG	C	64	51.477	25.250	10.484	1.00103.68			C
ANISOU	306	CD	ARG	C	64	11183	15258	12952	350	1471	-121	C
ATOM	307	NE	ARG	C	64	51.136	24.195	9.537	1.00109.66			N
ANISOU	307	NE	ARG	C	64	11781	16123	13760	228	1500	-123	N
ATOM	308	CZ	ARG	C	64	51.142	24.351	8.216	1.00111.73			C
ANISOU	308	CZ	ARG	C	64	11981	16381	14090	335	1508	-139	C
ATOM	309	NH1	ARG	C	64	51.473	25.523	7.688	1.00104.94			N
ANISOU	309	NH1	ARG	C	64	11203	15414	13256	566	1488	-155	N
ATOM	310	NH2	ARG	C	64	50.818	23.336	7.427	1.00104.53			N
ANISOU	310	NH2	ARG	C	64	10925	15572	13221	209	1536	-139	N
ATOM	311	C	ARG	C	64	53.001	24.319	14.527	1.00	89.54		C
ANISOU	311	C	ARG	C	64	9739	13108	11175	-134	1363	43	C
ATOM	312	O	ARG	C	64	54.203	24.254	14.763	1.00	91.38		O
ANISOU	312	O	ARG	C	64	10122	13043	11555	-213	1294	127	O
ATOM	313	N	ALA	C	65	52.225	25.327	14.923	1.00	89.47		N
ANISOU	313	N	ALA	C	65	9725	13269	11000	60	1400	-33	N
ATOM	314	CA	ALA	C	65	52.737	26.448	15.708	1.00	92.14		C
ANISOU	314	CA	ALA	C	65	10240	13454	11314	194	1362	-22	C
ATOM	315	CB	ALA	C	65	51.661	27.470	15.928	1.00	93.38		C
ANISOU	315	CB	ALA	C	65	10349	13856	11276	415	1418	-120	C
ATOM	316	C	ALA	C	65	53.289	25.977	17.045	1.00	93.94		C
ANISOU	316	C	ALA	C	65	10578	13555	11559	-1	1325	41	C
ATOM	317	O	ALA	C	65	54.080	26.670	17.679	1.00	93.81		O
ANISOU	317	O	ALA	C	65	10737	13326	11582	50	1274	81	O
ATOM	318	N	LEU	C	66	52.847	24.793	17.460	1.00	97.97		N
ANISOU	318	N	LEU	C	66	10983	14202	12039	-226	1350	48	N
ATOM	319	CA	LEU	C	66	53.309	24.133	18.680	1.00	91.55		C
ANISOU	319	CA	LEU	C	66	10249	13288	11246	-445	1318	109	C
ATOM	320	CB	LEU	C	66	52.318	23.059	19.108	1.00	94.91		C
ANISOU	320	CB	LEU	C	66	10512	13987	11564	-626	1373	77	C
ATOM	321	CG	LEU	C	66	52.643	22.150	20.288	1.00101.14			C
ANISOU	321	CG	LEU	C	66	11345	14715	12369	-885	1348	135	C
ATOM	322	CD1	LEU	C	66	51.466	22.027	21.231	1.00104.26			C
ANISOU	322	CD1	LEU	C	66	11645	15407	12561	-917	1407	69	C
ATOM	323	CD2	LEU	C	66	53.086	20.777	19.781	1.00	93.79		C
ANISOU	323	CD2	LEU	C	66	10349	13705	11583	-1123	1330	198	C
ATOM	324	C	LEU	C	66	54.693	23.522	18.430	1.00	85.90		C
ANISOU	324	C	LEU	C	66	9643	12242	10753	-602	1244	217	C
ATOM	325	O	LEU	C	66	55.582	23.576	19.285	1.00	86.15		O
ANISOU	325	O	LEU	C	66	9830	12051	10852	-687	1189	285	O
ATOM	326	N	TRP	C	67	54.862	22.975	17.228	1.00	85.72		N
ANISOU	326	N	TRP	C	67	9537	12190	10843	-632	1245	231	N
ATOM	327	CA	TRP	C	67	56.099	22.362	16.760	1.00	82.81		C
ANISOU	327	CA	TRP	C	67	9248	11528	10690	-768	1182	327	C
ATOM	328	CB	TRP	C	67	55.860	21.681	15.411	1.00	89.74		C
ANISOU	328	CB	TRP	C	67	9979	12480	11639	-796	1207	315	C
ATOM	329	CG	TRP	C	67	57.091	21.320	14.595	1.00	86.50		C
ANISOU	329	CG	TRP	C	67	9644	11771	11451	-863	1147	399	C
ATOM	330	CD1	TRP	C	67	57.316	21.658	13.289	1.00	84.86		C
ANISOU	330	CD1	TRP	C	67	9412	11501	11331	-728	1143	391	C
ATOM	331	NE1	TRP	C	67	58.507	21.134	12.856	1.00	87.24		N
ANISOU	331	NE1	TRP	C	67	9795	11518	11835	-847	1083	481	N
ATOM	332	CE2	TRP	C	67	59.071	20.408	13.873	1.00	88.36		C
ANISOU	332	CE2	TRP	C	67	10011	11534	12026	-1068	1048	551	C
ATOM	333	CD2	TRP	C	67	58.199	20.489	14.985	1.00	86.95		C
ANISOU	333	CD2	TRP	C	67	9798	11570	11669	-1087	1087	502	C
ATOM	334	CE3	TRP	C	67	58.553	19.823	16.165	1.00	83.18		C
ANISOU	334	CE3	TRP	C	67	9384	11019	11203	-1300	1060	557	C

ATOM	335	CZ3	TRP	C	67	59.750	19.111	16.199	1.00	83.50	C	
ANISOU	335	CZ3	TRP	C	67	9519	10776	11431	-1484	997	659	C
ATOM	336	CH2	TRP	C	67	60.594	19.053	15.077	1.00	88.11	C	
ANISOU	336	CH2	TRP	C	67	10135	11151	12190	-1457	961	706	C
ATOM	337	CZ2	TRP	C	67	60.271	19.690	13.907	1.00	84.73	C	
ANISOU	337	CZ2	TRP	C	67	9647	10792	11756	-1252	985	653	C
ATOM	338	C	TRP	C	67	57.155	23.433	16.640	1.00	80.74	C	
ANISOU	338	C	TRP	C	67	9172	10979	10526	-611	1120	368	C
ATOM	339	O	TRP	C	67	58.317	23.209	16.982	1.00	81.42	O	
ANISOU	339	O	TRP	C	67	9399	10781	10755	-724	1054	458	O
ATOM	340	N	TRP	C	68	56.750	24.575	16.088	1.00	81.56	N	
ANISOU	340	N	TRP	C	68	9273	11159	10558	-349	1142	303	N
ATOM	341	CA	TRP	C	68	57.636	25.717	15.915	1.00	74.49	C	
ANISOU	341	CA	TRP	C	68	8546	10019	9739	-168	1089	331	C
ATOM	342	CB	TRP	C	68	56.890	26.909	15.326	1.00	78.66	C	
ANISOU	342	CB	TRP	C	68	9032	10707	10150	120	1129	241	C
ATOM	343	CG	TRP	C	68	57.688	28.170	15.381	1.00	78.34	C	
ANISOU	343	CG	TRP	C	68	9170	10440	10155	312	1077	262	C
ATOM	344	CD1	TRP	C	68	58.773	28.494	14.612	1.00	76.20	C	
ANISOU	344	CD1	TRP	C	68	9005	9895	10054	373	1019	319	C
ATOM	345	NE1	TRP	C	68	59.246	29.739	14.960	1.00	72.78	N	
ANISOU	345	NE1	TRP	C	68	8730	9317	9607	557	983	322	N
ATOM	346	CE2	TRP	C	68	58.469	30.241	15.974	1.00	82.76	C	
ANISOU	346	CE2	TRP	C	68	9994	10760	10692	618	1019	266	C
ATOM	347	CD2	TRP	C	68	57.478	29.278	16.267	1.00	83.50	C	
ANISOU	347	CD2	TRP	C	68	9923	11119	10683	467	1079	227	C
ATOM	348	CE3	TRP	C	68	56.546	29.551	17.277	1.00	78.04	C	
ANISOU	348	CE3	TRP	C	68	9199	10652	9803	494	1125	166	C
ATOM	349	CZ3	TRP	C	68	56.630	30.755	17.947	1.00	78.56	C	
ANISOU	349	CZ3	TRP	C	68	9393	10668	9789	668	1111	146	C
ATOM	350	CH2	TRP	C	68	57.628	31.693	17.633	1.00	84.39	C	
ANISOU	350	CH2	TRP	C	68	10294	11138	10631	815	1050	186	C
ATOM	351	CZ2	TRP	C	68	58.557	31.453	16.654	1.00	82.93	C	
ANISOU	351	CZ2	TRP	C	68	10146	10731	10632	792	1003	246	C
ATOM	352	C	TRP	C	68	58.269	26.124	17.219	1.00	74.35	C	
ANISOU	352	C	TRP	C	68	8703	9834	9713	-205	1043	378	C
ATOM	353	O	TRP	C	68	59.450	26.426	17.252	1.00	80.11	O	
ANISOU	353	O	TRP	C	68	9594	10264	10581	-204	975	452	O
ATOM	354	N	SER	C	69	57.469	26.146	18.283	1.00	81.58	N	
ANISOU	354	N	SER	C	69	9587	10947	10464	-235	1081	333	N
ATOM	355	CA	SER	C	69	57.935	26.566	19.610	1.00	85.76	C	
ANISOU	355	CA	SER	C	69	10274	11349	10961	-266	1045	369	C
ATOM	356	CB	SER	C	69	56.769	26.585	20.611	1.00	80.37	C	
ANISOU	356	CB	SER	C	69	9513	10954	10070	-276	1104	298	C
ATOM	357	OG	SER	C	69	55.648	27.287	20.093	1.00	85.13	O	
ANISOU	357	OG	SER	C	69	10001	11821	10525	-63	1168	196	O
ATOM	358	C	SER	C	69	59.044	25.651	20.140	1.00	75.22	C	
ANISOU	358	C	SER	C	69	9039	9759	9783	-518	982	477	C
ATOM	359	O	SER	C	69	60.069	26.126	20.636	1.00	67.86	O	
ANISOU	359	O	SER	C	69	8287	8561	8935	-510	920	542	O
ATOM	360	N	VAL	C	70	58.833	24.342	20.018	1.00	74.35	N	
ANISOU	360	N	VAL	C	70	8810	9731	9710	-740	1000	497	N
ATOM	361	CA	VAL	C	70	59.876	23.439	20.488	1.00	75.21	C	
ANISOU	361	CA	VAL	C	70	9007	9600	9971	-983	942	600	C
ATOM	362	CB	VAL	C	70	59.426	21.975	20.390	1.00	74.81	C	
ANISOU	362	CB	VAL	C	70	8800	9694	9932	-1224	972	607	C
ATOM	363	CG1	VAL	C	70	60.566	21.046	20.775	1.00	72.49	C	
ANISOU	363	CG1	VAL	C	70	8599	9136	9809	-1470	909	717	C
ATOM	364	CG2	VAL	C	70	58.221	21.743	21.278	1.00	89.91	C	
ANISOU	364	CG2	VAL	C	70	10606	11911	11646	-1272	1033	539	C
ATOM	365	C	VAL	C	70	61.175	23.593	19.713	1.00	76.05	C	
ANISOU	365	C	VAL	C	70	9232	9381	10284	-960	874	679	C
ATOM	366	O	VAL	C	70	62.253	23.679	20.301	1.00	78.77	O	

ANISOU	366	O	VAL	C	70	9741	9455	10733	-1032	810	760	O
ATOM	367	N	GLU	C	71	61.063	23.626	18.400	1.00	82.03		N
ANISOU	367	N	GLU	C	71	9904	10167	11097	-862	890	655	N
ATOM	368	CA	GLU	C	71	62.277	23.730	17.602	1.00	80.21		C
ANISOU	368	CA	GLU	C	71	9778	9634	11065	-843	827	728	C
ATOM	369	CB	GLU	C	71	62.026	23.358	16.138	1.00	76.09		C
ANISOU	369	CB	GLU	C	71	9119	9183	10607	-804	854	703	C
ATOM	370	CG	GLU	C	71	61.369	24.436	15.314	1.00	75.82		C
ANISOU	370	CG	GLU	C	71	9034	9291	10484	-525	891	618	C
ATOM	371	CD	GLU	C	71	61.392	24.104	13.828	1.00	89.77		C
ANISOU	371	CD	GLU	C	71	10697	11061	12350	-491	902	611	C
ATOM	372	OE1	GLU	C	71	61.708	24.987	12.991	1.00	108.62		O
ANISOU	372	OE1	GLU	C	71	13132	13353	14786	-290	885	599	O
ATOM	373	OE2	GLU	C	71	61.103	22.939	13.495	1.00	89.67		O
ANISOU	373	OE2	GLU	C	71	10557	11144	12370	-669	926	618	O
ATOM	374	C	GLU	C	71	62.812	25.149	17.707	1.00	77.66		C
ANISOU	374	C	GLU	C	71	9618	9149	10742	-615	790	729	C
ATOM	375	O	GLU	C	71	63.913	25.440	17.248	1.00	86.42		O
ANISOU	375	O	GLU	C	71	10849	9980	12006	-581	729	795	O
ATOM	376	N	THR	C	72	62.030	26.038	18.309	1.00	72.68		N
ANISOU	376	N	THR	C	72	8989	8691	9935	-459	825	657	N
ATOM	377	CA	THR	C	72	62.501	27.394	18.517	1.00	71.94		C
ANISOU	377	CA	THR	C	72	9053	8451	9829	-246	790	657	C
ATOM	378	CB	THR	C	72	61.415	28.440	18.260	1.00	73.24		C
ANISOU	378	CB	THR	C	72	9147	8862	9820	10	847	548	C
ATOM	379	OG1	THR	C	72	61.050	28.411	16.876	1.00	74.60		O
ANISOU	379	OG1	THR	C	72	9195	9128	10024	111	877	506	O
ATOM	380	CG2	THR	C	72	61.913	29.826	18.615	1.00	79.66		C
ANISOU	380	CG2	THR	C	72	10132	9520	10614	217	809	550	C
ATOM	381	C	THR	C	72	63.036	27.522	19.941	1.00	78.90		C
ANISOU	381	C	THR	C	72	10089	9195	10695	-342	750	709	C
ATOM	382	O	THR	C	72	64.065	28.161	20.158	1.00	78.21		O
ANISOU	382	O	THR	C	72	10178	8839	10700	-287	687	769	O
ATOM	383	N	ALA	C	73	62.388	26.866	20.881	1.00	79.94		N
ANISOU	383	N	ALA	C	73	10154	9500	10720	-496	784	691	N
ATOM	384	CA	ALA	C	73	62.801	26.899	22.265	1.00	83.01		C
ANISOU	384	CA	ALA	C	73	10673	9783	11084	-602	751	737	C
ATOM	385	CB	ALA	C	73	61.807	26.146	23.108	1.00	76.33		C
ANISOU	385	CB	ALA	C	73	9707	9199	10096	-752	805	695	C
ATOM	386	C	ALA	C	73	64.165	26.320	22.488	1.00	77.62		C
ANISOU	386	C	ALA	C	73	10123	8776	10595	-785	676	855	C
ATOM	387	O	ALA	C	73	64.904	26.791	23.305	1.00	76.66		O
ANISOU	387	O	ALA	C	73	10167	8459	10501	-789	626	906	O
ATOM	388	N	THR	C	74	64.486	25.264	21.784	1.00	74.58		N
ANISOU	388	N	THR	C	74	9113	7406	11817	-809	-1505	-602	N
ATOM	389	CA	THR	C	74	65.752	24.610	21.956	1.00	76.14		C
ANISOU	389	CA	THR	C	74	9238	7383	12309	-1033	-1462	-483	C
ATOM	390	CB	THR	C	74	65.589	23.217	21.463	1.00	80.78		C
ANISOU	390	CB	THR	C	74	9630	8083	12978	-1158	-1371	-487	C
ATOM	391	OG1	THR	C	74	65.154	23.298	20.117	1.00	83.39		O
ANISOU	391	OG1	THR	C	74	10015	8461	13208	-1036	-1276	-537	O
ATOM	392	CG2	THR	C	74	64.504	22.574	22.237	1.00	77.13		C
ANISOU	392	CG2	THR	C	74	9012	7919	12374	-1154	-1435	-569	C
ATOM	393	C	THR	C	74	66.831	25.245	21.124	1.00	80.56		C
ANISOU	393	C	THR	C	74	9954	7645	13011	-1035	-1394	-401	C
ATOM	394	O	THR	C	74	67.975	24.858	21.186	1.00	69.96		O
ANISOU	394	O	THR	C	74	8580	6085	11916	-1209	-1356	-295	O
ATOM	395	N	THR	C	75	66.439	26.228	20.336	1.00	80.55		N
ANISOU	395	N	THR	C	75	10121	7638	12846	-837	-1379	-452	N
ATOM	396	CA	THR	C	75	67.316	26.975	19.422	1.00	77.43		C
ANISOU	396	CA	THR	C	75	9896	6979	12545	-798	-1314	-390	C
ATOM	397	CB	THR	C	75	68.579	27.596	20.125	1.00	81.70		C
ANISOU	397	CB	THR	C	75	10535	7229	13278	-894	-1366	-278	C

ATOM	398	OG1	THR	C	75	69.508	26.572	20.515	1.00	82.14	O	
ANISOU	398	OG1	THR	C	75	10446	7165	13598	-1137	-1333	-182	O
ATOM	399	CG2	THR	C	75	68.158	28.392	21.368	1.00	82.29	C	
ANISOU	399	CG2	THR	C	75	10670	7377	13220	-813	-1509	-313	C
ATOM	400	C	THR	C	75	67.765	26.161	18.198	1.00	79.15	C	
ANISOU	400	C	THR	C	75	10051	7119	12904	-885	-1171	-352	C
ATOM	401	O	THR	C	75	68.759	26.494	17.556	1.00	88.13	O	
ANISOU	401	O	THR	C	75	11289	8003	14195	-921	-1108	-272	O
ATOM	402	N	VAL	C	76	67.016	25.114	17.852	1.00	78.48	N	
ANISOU	402	N	VAL	C	76	9803	7253	12762	-912	-1119	-411	N
ATOM	403	CA	VAL	C	76	67.372	24.300	16.682	1.00	84.21	C	
ANISOU	403	CA	VAL	C	76	10462	7923	13612	-991	-983	-381	C
ATOM	404	CB	VAL	C	76	66.588	22.966	16.665	1.00	79.79	C	
ANISOU	404	CB	VAL	C	76	9681	7619	13016	-1064	-948	-437	C
ATOM	405	CG1	VAL	C	76	66.860	22.196	15.357	1.00	71.62	C	
ANISOU	405	CG1	VAL	C	76	8588	6538	12085	-1121	-805	-417	C
ATOM	406	CG2	VAL	C	76	67.025	22.112	17.850	1.00	84.57	C	
ANISOU	406	CG2	VAL	C	76	10123	8223	13787	-1271	-999	-380	C
ATOM	407	C	VAL	C	76	67.099	25.095	15.399	1.00	88.58	C	
ANISOU	407	C	VAL	C	76	11178	8444	14036	-804	-917	-424	C
ATOM	408	O	VAL	C	76	67.982	25.240	14.550	1.00	95.14	O	
ANISOU	408	O	VAL	C	76	12085	9051	15011	-840	-832	-354	O
ATOM	409	N	GLY	C	77	65.879	25.621	15.271	1.00	89.22	N	
ANISOU	409	N	GLY	C	77	11312	8746	13843	-603	-957	-539	N
ATOM	410	CA	GLY	C	77	65.519	26.437	14.118	1.00	87.13	C	
ANISOU	410	CA	GLY	C	77	11204	8469	13431	-410	-904	-588	C
ATOM	411	C	GLY	C	77	65.755	25.897	12.714	1.00	90.17	C	
ANISOU	411	C	GLY	C	77	11569	8799	13893	-431	-763	-574	C
ATOM	412	O	GLY	C	77	66.492	26.502	11.919	1.00	97.68	O	
ANISOU	412	O	GLY	C	77	12659	9530	14924	-400	-705	-521	O
ATOM	413	N	TYR	C	78	65.099	24.782	12.391	1.00	90.92	N	
ANISOU	413	N	TYR	C	78	11493	9097	13955	-477	-708	-624	N
ATOM	414	CA	TYR	C	78	65.233	24.162	11.077	1.00	76.34	C	
ANISOU	414	CA	TYR	C	78	9608	7225	12173	-500	-574	-617	C
ATOM	415	CB	TYR	C	78	64.284	22.965	10.946	1.00	68.92	C	
ANISOU	415	CB	TYR	C	78	8470	6562	11155	-533	-540	-690	C
ATOM	416	CG	TYR	C	78	64.613	21.800	11.850	1.00	70.78	C	
ANISOU	416	CG	TYR	C	78	8503	6832	11557	-751	-560	-641	C
ATOM	417	CD1	TYR	C	78	65.845	21.152	11.766	1.00	71.02	C	
ANISOU	417	CD1	TYR	C	78	8470	6642	11872	-957	-498	-527	C
ATOM	418	CE1	TYR	C	78	66.125	20.026	12.555	1.00	74.78	C	
ANISOU	418	CE1	TYR	C	78	8753	7157	12503	-1160	-511	-484	C
ATOM	419	CZ	TYR	C	78	65.157	19.556	13.433	1.00	67.92	C	
ANISOU	419	CZ	TYR	C	78	7754	6551	11501	-1154	-588	-557	C
ATOM	420	OH	TYR	C	78	65.383	18.435	14.190	1.00	66.96	O	
ANISOU	420	OH	TYR	C	78	7438	6480	11524	-1349	-601	-519	O
ATOM	421	CE2	TYR	C	78	63.929	20.193	13.537	1.00	69.34	C	
ANISOU	421	CE2	TYR	C	78	7995	6952	11399	-950	-651	-670	C
ATOM	422	CD2	TYR	C	78	63.663	21.307	12.749	1.00	76.76	C	
ANISOU	422	CD2	TYR	C	78	9127	7850	12187	-750	-637	-712	C
ATOM	423	C	TYR	C	78	64.947	25.114	9.924	1.00	71.10	C	
ANISOU	423	C	TYR	C	78	9125	6525	11366	-300	-525	-662	C
ATOM	424	O	TYR	C	78	65.625	25.079	8.912	1.00	69.48	O	
ANISOU	424	O	TYR	C	78	8969	6149	11280	-327	-425	-610	O
ATOM	425	N	GLY	C	79	63.958	25.957	10.125	1.00	73.53	N	
ANISOU	425	N	GLY	C	79	9526	6992	11420	-103	-598	-756	N
ATOM	426	CA	GLY	C	79	63.538	26.889	9.112	1.00	76.93	C	
ANISOU	426	CA	GLY	C	79	10124	7420	11685	101	-562	-811	C
ATOM	427	C	GLY	C	79	62.309	26.488	8.340	1.00	78.40	C	
ANISOU	427	C	GLY	C	79	10251	7870	11668	224	-513	-923	C
ATOM	428	O	GLY	C	79	61.964	27.133	7.382	1.00	73.19	O	
ANISOU	428	O	GLY	C	79	9716	7212	10881	384	-468	-968	O
ATOM	429	N	ASP	C	80	61.657	25.411	8.736	1.00	83.41	N	

ANISOU	429	N	ASP	C	80	10693	8724	12273	148	-518	-966	N
ATOM	430	CA	ASP	C	80	60.435	24.991	8.082	1.00	75.35		C
ANISOU	430	CA	ASP	C	80	9606	7969	11053	263	-478	-1075	C
ATOM	431	CB	ASP	C	80	60.054	23.585	8.472	1.00	71.89		C
ANISOU	431	CB	ASP	C	80	8933	7716	10665	120	-464	-1090	C
ATOM	432	CG	ASP	C	80	59.897	23.419	9.924	1.00	77.95		C
ANISOU	432	CG	ASP	C	80	9615	8571	11431	46	-580	-1090	C
ATOM	433	OD1	ASP	C	80	60.513	24.159	10.677	1.00	81.64		O
ANISOU	433	OD1	ASP	C	80	10179	8882	11959	29	-655	-1037	O
ATOM	434	OD2	ASP	C	80	59.164	22.526	10.331	1.00	77.39		O
ANISOU	434	OD2	ASP	C	80	9376	8726	11302	1	-596	-1141	O
ATOM	435	C	ASP	C	80	59.292	25.926	8.385	1.00	72.69		C
ANISOU	435	C	ASP	C	80	9369	7820	10428	480	-566	-1183	C
ATOM	436	O	ASP	C	80	58.351	26.029	7.624	1.00	70.37		O
ANISOU	436	O	ASP	C	80	9098	7695	9943	631	-531	-1273	O
ATOM	437	N	LEU	C	81	59.381	26.586	9.529	1.00	78.42		N
ANISOU	437	N	LEU	C	81	10152	8519	11126	492	-683	-1172	N
ATOM	438	CA	LEU	C	81	58.340	27.482	10.031	1.00	74.15		C
ANISOU	438	CA	LEU	C	81	9700	8152	10320	685	-784	-1268	C
ATOM	439	CB	LEU	C	81	57.359	26.733	10.941	1.00	73.35		C
ANISOU	439	CB	LEU	C	81	9429	8334	10106	658	-852	-1338	C
ATOM	440	CG	LEU	C	81	56.516	25.598	10.347	1.00	74.47		C
ANISOU	440	CG	LEU	C	81	9405	8711	10181	645	-780	-1405	C
ATOM	441	CD1	LEU	C	81	56.110	24.620	11.436	1.00	74.19		C
ANISOU	441	CD1	LEU	C	81	9170	8857	10161	522	-840	-1420	C
ATOM	442	CD2	LEU	C	81	55.307	26.119	9.580	1.00	89.89		C
ANISOU	442	CD2	LEU	C	81	11437	10859	11858	873	-766	-1523	C
ATOM	443	C	LEU	C	81	58.986	28.646	10.784	1.00	68.79		C
ANISOU	443	C	LEU	C	81	9181	7284	9672	715	-876	-1217	C
ATOM	444	O	LEU	C	81	60.023	28.455	11.417	1.00	75.87		O
ANISOU	444	O	LEU	C	81	10050	7994	10784	551	-896	-1118	O
ATOM	445	N	TYR	C	82	58.404	29.842	10.675	1.00	68.26		N
ANISOU	445	N	TYR	C	82	9283	7258	9396	923	-929	-1282	N
ATOM	446	CA	TYR	C	82	58.891	31.037	11.373	1.00	73.52		C
ANISOU	446	CA	TYR	C	82	10111	7764	10061	977	-1022	-1246	C
ATOM	447	CB	TYR	C	82	60.326	31.369	10.932	1.00	72.27		C
ANISOU	447	CB	TYR	C	82	10052	7268	10139	884	-966	-1126	C
ATOM	448	CG	TYR	C	82	60.522	31.458	9.439	1.00	79.15		C
ANISOU	448	CG	TYR	C	82	10998	8048	11027	946	-842	-1123	C
ATOM	449	CD1	TYR	C	82	60.256	32.633	8.746	1.00	78.93		C
ANISOU	449	CD1	TYR	C	82	11164	7979	10847	1145	-839	-1164	C
ATOM	450	CE1	TYR	C	82	60.444	32.707	7.367	1.00	87.85		C
ANISOU	450	CE1	TYR	C	82	12361	9024	11993	1201	-725	-1160	C
ATOM	451	CZ	TYR	C	82	60.889	31.595	6.673	1.00	86.48		C
ANISOU	451	CZ	TYR	C	82	12061	8809	11989	1057	-613	-1115	C
ATOM	452	OH	TYR	C	82	61.070	31.652	5.312	1.00	89.36		O
ANISOU	452	OH	TYR	C	82	12490	9092	12371	1111	-500	-1111	O
ATOM	453	CE2	TYR	C	82	61.148	30.418	7.339	1.00	80.17		C
ANISOU	453	CE2	TYR	C	82	11069	8051	11340	859	-615	-1074	C
ATOM	454	CD2	TYR	C	82	60.966	30.354	8.714	1.00	84.56		C
ANISOU	454	CD2	TYR	C	82	11559	8691	11880	804	-729	-1078	C
ATOM	455	C	TYR	C	82	57.963	32.243	11.164	1.00	77.68		C
ANISOU	455	C	TYR	C	82	10802	8402	10312	1227	-1075	-1343	C
ATOM	456	O	TYR	C	82	57.231	32.301	10.186	1.00	79.58		O
ANISOU	456	O	TYR	C	82	11072	8763	10403	1359	-1014	-1416	O
ATOM	457	N	PRO	C	83	58.009	33.227	12.077	1.00	84.32		N
ANISOU	457	N	PRO	C	83	11755	9196	11088	1294	-1189	-1341	N
ATOM	458	CA	PRO	C	83	57.167	34.423	11.981	1.00	87.16		C
ANISOU	458	CA	PRO	C	83	12275	9652	11190	1528	-1249	-1429	C
ATOM	459	CB	PRO	C	83	57.342	35.048	13.365	1.00	88.39		C
ANISOU	459	CB	PRO	C	83	12473	9771	11339	1517	-1384	-1409	C
ATOM	460	CG	PRO	C	83	58.764	34.745	13.663	1.00	85.64		C
ANISOU	460	CG	PRO	C	83	12103	9151	11285	1316	-1363	-1277	C

ATOM	461	CD	PRO	C	83	58.806	33.273	13.316	1.00	85.48	C	
ANISOU	461	CD	PRO	C	83	11880	9209	11391	1155	-1273	-1261	C
ATOM	462	C	PRO	C	83	57.577	35.414	10.889	1.00	87.13	C	
ANISOU	462	C	PRO	C	83	12468	9465	11174	1652	-1190	-1413	C
ATOM	463	O	PRO	C	83	58.759	35.597	10.594	1.00	84.01	O	
ANISOU	463	O	PRO	C	83	12138	8799	10982	1563	-1146	-1313	O
ATOM	464	N	VAL	C	84	56.574	36.045	10.287	1.00	94.43	N	
ANISOU	464	N	VAL	C	84	13485	10541	11853	1861	-1190	-1514	N
ATOM	465	CA	VAL	C	84	56.788	37.070	9.267	1.00	102.52	C	
ANISOU	465	CA	VAL	C	84	14703	11424	12826	2006	-1143	-1515	C
ATOM	466	CB	VAL	C	84	56.097	36.706	7.931	1.00	85.98	C	
ANISOU	466	CB	VAL	C	84	12589	9458	10620	2101	-1034	-1583	C
ATOM	467	CG1	VAL	C	84	56.732	35.469	7.329	1.00	76.86	C	
ANISOU	467	CG1	VAL	C	84	11291	8232	9680	1918	-920	-1519	C
ATOM	468	CG2	VAL	C	84	54.622	36.494	8.145	1.00	89.97	C	
ANISOU	468	CG2	VAL	C	84	13022	10293	10869	2221	-1077	-1709	C
ATOM	469	C	VAL	C	84	56.278	38.429	9.764	1.00	102.60	C	
ANISOU	469	C	VAL	C	84	14881	11468	12633	2195	-1252	-1570	C
ATOM	470	O	VAL	C	84	56.558	39.470	9.166	1.00	99.45	O	
ANISOU	470	O	VAL	C	84	14664	10926	12198	2315	-1239	-1562	O
ATOM	471	N	THR	C	85	55.510	38.407	10.851	1.00	99.81	N	
ANISOU	471	N	THR	C	85	14467	11311	12147	2222	-1358	-1629	N
ATOM	472	CA	THR	C	85	54.959	39.629	11.438	1.00	103.21	C	
ANISOU	472	CA	THR	C	85	15041	11795	12379	2395	-1469	-1686	C
ATOM	473	CB	THR	C	85	53.509	39.406	11.886	1.00	104.66	C	
ANISOU	473	CB	THR	C	85	15142	12311	12312	2501	-1530	-1808	C
ATOM	474	OG1	THR	C	85	53.459	38.345	12.848	1.00	109.61	O	
ANISOU	474	OG1	THR	C	85	15576	13046	13024	2338	-1567	-1792	O
ATOM	475	CG2	THR	C	85	52.649	39.036	10.696	1.00	105.40	C	
ANISOU	475	CG2	THR	C	85	15207	12573	12266	2604	-1436	-1890	C
ATOM	476	C	THR	C	85	55.761	40.171	12.630	1.00	110.53	C	
ANISOU	476	C	THR	C	85	16020	12554	13421	2318	-1572	-1611	C
ATOM	477	O	THR	C	85	56.439	39.415	13.333	1.00	112.21	O	
ANISOU	477	O	THR	C	85	16112	12695	13829	2125	-1583	-1537	O
ATOM	478	N	LEU	C	86	55.651	41.483	12.858	1.00	113.86	N	
ANISOU	478	N	LEU	C	86	16623	12922	13718	2472	-1648	-1633	N
ATOM	479	CA	LEU	C	86	56.382	42.176	13.930	1.00	114.33	C	
ANISOU	479	CA	LEU	C	86	16759	12814	13866	2427	-1749	-1567	C
ATOM	480	CB	LEU	C	86	56.188	43.695	13.814	1.00	115.39	C	
ANISOU	480	CB	LEU	C	86	17114	12888	13841	2630	-1808	-1602	C
ATOM	481	CG	LEU	C	86	57.338	44.573	14.313	1.00	116.80	C	
ANISOU	481	CG	LEU	C	86	17427	12782	14168	2589	-1861	-1505	C
ATOM	482	CD1	LEU	C	86	58.634	44.121	13.669	1.00	121.08	C	
ANISOU	482	CD1	LEU	C	86	17958	13060	14986	2431	-1760	-1390	C
ATOM	483	CD2	LEU	C	86	57.088	46.047	14.012	1.00	120.90	C	
ANISOU	483	CD2	LEU	C	86	18165	13250	14520	2802	-1906	-1546	C
ATOM	484	C	LEU	C	86	55.966	41.707	15.321	1.00	104.07	C	
ANISOU	484	C	LEU	C	86	15329	11674	12538	2351	-1853	-1587	C
ATOM	485	O	LEU	C	86	56.695	41.888	16.287	1.00	103.86	O	
ANISOU	485	O	LEU	C	86	15309	11511	12641	2251	-1924	-1517	O
ATOM	486	N	TRP	C	87	54.785	41.114	15.404	1.00	102.10	N	
ANISOU	486	N	TRP	C	87	14962	11714	12115	2402	-1862	-1684	N
ATOM	487	CA	TRP	C	87	54.271	40.541	16.637	1.00	99.48	C	
ANISOU	487	CA	TRP	C	87	14489	11566	11744	2332	-1951	-1713	C
ATOM	488	CB	TRP	C	87	52.758	40.688	16.720	1.00	107.82	C	
ANISOU	488	CB	TRP	C	87	15529	12934	12505	2505	-1999	-1847	C
ATOM	489	CG	TRP	C	87	52.382	42.007	17.302	1.00	126.23	C	
ANISOU	489	CG	TRP	C	87	18023	15277	14662	2672	-2111	-1890	C
ATOM	490	CD1	TRP	C	87	52.089	43.160	16.633	1.00	131.80	C	
ANISOU	490	CD1	TRP	C	87	18915	15949	15213	2868	-2111	-1935	C
ATOM	491	NE1	TRP	C	87	51.800	44.163	17.535	1.00	129.10	N	
ANISOU	491	NE1	TRP	C	87	18678	15631	14742	2974	-2235	-1965	N
ATOM	492	CE2	TRP	C	87	51.889	43.665	18.795	1.00	131.74	C	

ANISOU	492	CE2	TRP	C	87	18895	16018	15144	2849	-2316	-1940	C
ATOM	493	CD2	TRP	C	87	52.250	42.304	18.702	1.00128.92			C
ANISOU	493	CD2	TRP	C	87	18351	15670	14964	2656	-2242	-1894	C
ATOM	494	CE3	TRP	C	87	52.408	41.552	19.864	1.00128.24			C
ANISOU	494	CE3	TRP	C	87	18113	15634	14978	2499	-2303	-1861	C
ATOM	495	CZ3	TRP	C	87	52.205	42.169	21.084	1.00139.09			C
ANISOU	495	CZ3	TRP	C	87	19527	17049	16273	2537	-2434	-1876	C
ATOM	496	CH2	TRP	C	87	51.845	43.521	21.161	1.00144.98			C
ANISOU	496	CH2	TRP	C	87	20459	17786	16841	2730	-2506	-1922	C
ATOM	497	CZ2	TRP	C	87	51.684	44.281	20.035	1.00139.06			C
ANISOU	497	CZ2	TRP	C	87	19860	16987	15991	2886	-2449	-1955	C
ATOM	498	C	TRP	C	87	54.698	39.097	16.729	1.00100.18			C
ANISOU	498	C	TRP	C	87	14372	11660	12031	2114	-1889	-1658	C
ATOM	499	O	TRP	C	87	55.123	38.633	17.787	1.00104.80			O
ANISOU	499	O	TRP	C	87	14858	12218	12742	1966	-1947	-1606	O
ATOM	500	N	GLY	C	88	54.576	38.378	15.620	1.00	96.49		N
ANISOU	500	N	GLY	C	88	12251	11887	12524	2964	1	-1411	N
ATOM	501	CA	GLY	C	88	54.981	36.985	15.582	1.00	92.60		C
ANISOU	501	CA	GLY	C	88	11561	11585	12037	2842	138	-1259	C
ATOM	502	C	GLY	C	88	56.426	36.862	16.000	1.00	90.04		C
ANISOU	502	C	GLY	C	88	11317	11256	11637	2618	64	-1106	C
ATOM	503	O	GLY	C	88	56.828	35.905	16.673	1.00	88.40		O
ANISOU	503	O	GLY	C	88	11019	11205	11366	2518	170	-1035	O
ATOM	504	N	ARG	C	89	57.198	37.855	15.585	1.00	88.05		N
ANISOU	504	N	ARG	C	89	11243	10818	11393	2541	-123	-1061	N
ATOM	505	CA	ARG	C	89	58.604	37.918	15.888	1.00	95.06		C
ANISOU	505	CA	ARG	C	89	12228	11672	12219	2331	-219	-930	C
ATOM	506	CB	ARG	C	89	59.232	38.940	14.969	1.00	90.47		C
ANISOU	506	CB	ARG	C	89	11801	10880	11692	2268	-411	-877	C
ATOM	507	CG	ARG	C	89	59.378	38.306	13.628	1.00	88.16		C
ANISOU	507	CG	ARG	C	89	11355	10611	11532	2207	-397	-732	C
ATOM	508	CD	ARG	C	89	59.792	39.199	12.524	1.00	91.13		C
ANISOU	508	CD	ARG	C	89	11859	10788	11979	2160	-565	-683	C
ATOM	509	NE	ARG	C	89	59.816	38.357	11.343	1.00	86.73		N
ANISOU	509	NE	ARG	C	89	11113	10295	11544	2105	-512	-547	N
ATOM	510	CZ	ARG	C	89	60.323	38.702	10.179	1.00	74.34		C
ANISOU	510	CZ	ARG	C	89	9588	8600	10057	2012	-623	-450	C
ATOM	511	NH1	ARG	C	89	60.863	39.898	10.011	1.00	83.03		N
ANISOU	511	NH1	ARG	C	89	10923	9497	11129	1962	-799	-472	N
ATOM	512	NH2	ARG	C	89	60.282	37.836	9.186	1.00	66.37		N
ANISOU	512	NH2	ARG	C	89	8390	7671	9158	1964	-553	-332	N
ATOM	513	C	ARG	C	89	58.878	38.211	17.375	1.00	94.10		C
ANISOU	513	C	ARG	C	89	12239	11570	11944	2306	-218	-1017	C
ATOM	514	O	ARG	C	89	59.873	37.747	17.950	1.00	86.45		O
ANISOU	514	O	ARG	C	89	11276	10665	10905	2141	-221	-913	O
ATOM	515	N	CYS	C	90	57.970	38.959	17.999	1.00	98.76		N
ANISOU	515	N	CYS	C	90	12930	12108	12485	2471	-211	-1211	N
ATOM	516	CA	CYS	C	90	58.061	39.247	19.426	1.00	91.78		C
ANISOU	516	CA	CYS	C	90	12167	11247	11457	2465	-194	-1315	C
ATOM	517	CB	CYS	C	90	57.055	40.315	19.850	1.00	93.14		C
ANISOU	517	CB	CYS	C	90	12468	11316	11605	2653	-220	-1538	C
ATOM	518	SG	CYS	C	90	57.522	42.005	19.403	1.00	95.71		S
ANISOU	518	SG	CYS	C	90	13057	11365	11943	2656	-461	-1575	S
ATOM	519	C	CYS	C	90	57.832	37.986	20.229	1.00	88.04		C
ANISOU	519	C	CYS	C	90	11537	10993	10921	2442	-8	-1302	C
ATOM	520	O	CYS	C	90	58.650	37.653	21.085	1.00	92.39		O
ANISOU	520	O	CYS	C	90	12131	11604	11370	2306	-6	-1239	O
ATOM	521	N	VAL	C	91	56.717	37.302	19.966	1.00	79.71		N
ANISOU	521	N	VAL	C	91	10307	10055	9925	2576	146	-1367	N
ATOM	522	CA	VAL	C	91	56.404	36.037	20.634	1.00	84.08		C
ANISOU	522	CA	VAL	C	91	10701	10822	10425	2560	337	-1357	C
ATOM	523	CB	VAL	C	91	55.208	35.324	19.986	1.00	85.37		C
ANISOU	523	CB	VAL	C	91	10657	11094	10686	2706	492	-1410	C

ATOM	524	CG1	VAL	C	91	54.831	34.082	20.809	1.00	76.85	C	
ANISOU	524	CG1	VAL	C	91	9435	10232	9531	2693	697	-1423	C
ATOM	525	CG2	VAL	C	91	54.029	36.254	19.882	1.00	90.99	C	
ANISOU	525	CG2	VAL	C	91	11428	11708	11435	2915	479	-1622	C
ATOM	526	C	VAL	C	91	57.613	35.111	20.549	1.00	86.38	C	
ANISOU	526	C	VAL	C	91	10917	11199	10706	2354	334	-1140	C
ATOM	527	O	VAL	C	91	57.955	34.405	21.499	1.00	80.54	O	
ANISOU	527	O	VAL	C	91	10157	10581	9862	2268	412	-1109	O
ATOM	528	N	ALA	C	92	58.248	35.139	19.378	1.00	88.71	N	
ANISOU	528	N	ALA	C	92	11173	11423	11110	2273	237	-993	N
ATOM	529	CA	ALA	C	92	59.422	34.333	19.092	1.00	82.93	C	
ANISOU	529	CA	ALA	C	92	10359	10753	10397	2076	217	-788	C
ATOM	530	CB	ALA	C	92	59.883	34.577	17.658	1.00	79.54	C	
ANISOU	530	CB	ALA	C	92	9899	10218	10105	2019	109	-667	C
ATOM	531	C	ALA	C	92	60.556	34.625	20.060	1.00	84.08	C	
ANISOU	531	C	ALA	C	92	10663	10863	10422	1926	119	-748	C
ATOM	532	O	ALA	C	92	61.085	33.712	20.700	1.00	82.80	O	
ANISOU	532	O	ALA	C	92	10434	10830	10196	1817	184	-665	O
ATOM	533	N	VAL	C	93	60.893	35.903	20.196	1.00	83.39	N	
ANISOU	533	N	VAL	C	93	10786	10599	10300	1926	-37	-813	N
ATOM	534	CA	VAL	C	93	61.979	36.314	21.073	1.00	83.61	C	
ANISOU	534	CA	VAL	C	93	10977	10575	10215	1787	-143	-785	C
ATOM	535	CB	VAL	C	93	62.145	37.841	21.083	1.00	81.56	C	
ANISOU	535	CB	VAL	C	93	10951	10108	9931	1819	-308	-879	C
ATOM	536	CG1	VAL	C	93	63.331	38.234	21.936	1.00	74.45	C	
ANISOU	536	CG1	VAL	C	93	10211	9158	8919	1665	-417	-842	C
ATOM	537	CG2	VAL	C	93	62.330	38.360	19.680	1.00	88.00	C	
ANISOU	537	CG2	VAL	C	93	11773	10786	10876	1809	-416	-814	C
ATOM	538	C	VAL	C	93	61.731	35.823	22.494	1.00	84.43	C	
ANISOU	538	C	VAL	C	93	11093	10808	10179	1799	-33	-859	C
ATOM	539	O	VAL	C	93	62.646	35.340	23.164	1.00	84.11	O	
ANISOU	539	O	VAL	C	93	11069	10829	10061	1654	-49	-771	O
ATOM	540	N	VAL	C	94	60.481	35.916	22.936	1.00	79.94	N	
ANISOU	540	N	VAL	C	94	10512	10282	9580	1969	80	-1025	N
ATOM	541	CA	VAL	C	94	60.117	35.445	24.261	1.00	79.01	C	
ANISOU	541	CA	VAL	C	94	10406	10287	9328	1986	200	-1112	C
ATOM	542	CB	VAL	C	94	58.696	35.898	24.664	1.00	76.69	C	
ANISOU	542	CB	VAL	C	94	10134	9994	9011	2186	297	-1334	C
ATOM	543	CG1	VAL	C	94	58.216	35.134	25.893	1.00	69.63	C	
ANISOU	543	CG1	VAL	C	94	9207	9259	7991	2195	460	-1413	C
ATOM	544	CG2	VAL	C	94	58.672	37.402	24.914	1.00	73.79	C	
ANISOU	544	CG2	VAL	C	94	9986	9440	8612	2245	155	-1464	C
ATOM	545	C	VAL	C	94	60.235	33.921	24.304	1.00	83.39	C	
ANISOU	545	C	VAL	C	94	10763	11036	9885	1911	340	-990	C
ATOM	546	O	VAL	C	94	60.724	33.373	25.290	1.00	87.24	O	
ANISOU	546	O	VAL	C	94	11277	11611	10258	1813	374	-955	O
ATOM	547	N	VAL	C	95	59.796	33.239	23.243	1.00	77.67	N	
ANISOU	547	N	VAL	C	95	9846	10376	9288	1955	419	-924	N
ATOM	548	CA	VAL	C	95	59.925	31.775	23.171	1.00	82.71	C	
ANISOU	548	CA	VAL	C	95	10289	11196	9943	1883	551	-798	C
ATOM	549	CB	VAL	C	95	59.243	31.169	21.913	1.00	81.50	C	
ANISOU	549	CB	VAL	C	95	9923	11101	9941	1962	644	-752	C
ATOM	550	CG1	VAL	C	95	59.563	29.677	21.782	1.00	73.80	C	
ANISOU	550	CG1	VAL	C	95	8751	10303	8989	1863	761	-600	C
ATOM	551	CG2	VAL	C	95	57.739	31.387	21.953	1.00	78.79	C	
ANISOU	551	CG2	VAL	C	95	9544	10782	9609	2170	765	-943	C
ATOM	552	C	VAL	C	95	61.401	31.355	23.202	1.00	86.36	C	
ANISOU	552	C	VAL	C	95	10759	11663	10393	1674	450	-610	C
ATOM	553	O	VAL	C	95	61.781	30.426	23.920	1.00	84.37	O	
ANISOU	553	O	VAL	C	95	10457	11536	10063	1584	517	-544	O
ATOM	554	N	MET	C	96	62.223	32.033	22.406	1.00	84.57	N	
ANISOU	554	N	MET	C	96	10593	11296	10243	1596	287	-528	N
ATOM	555	CA	MET	C	96	63.656	31.757	22.351	1.00	88.31	C	

ANISOU	555	CA	MET	C	96	11078	11756	10719	1396	176	-365	C
ATOM	556	CB	MET	C	96	64.322	32.701	21.352	1.00	88.95		C
ANISOU	556	CB	MET	C	96	11241	11662	10894	1339	7	-315	C
ATOM	557	CG	MET	C	96	63.847	32.602	19.918	1.00	92.10		C
ANISOU	557	CG	MET	C	96	11505	12037	11452	1396	30	-271	C
ATOM	558	SD	MET	C	96	64.529	34.034	19.068	1.00	97.19		S
ANISOU	558	SD	MET	C	96	12330	12443	12157	1343	-185	-265	S
ATOM	559	CE	MET	C	96	64.911	33.402	17.463	1.00	85.47		C
ANISOU	559	CE	MET	C	96	10658	10967	10849	1251	-188	-98	C
ATOM	560	C	MET	C	96	64.358	31.909	23.711	1.00	83.01		C
ANISOU	560	C	MET	C	96	10561	11087	9891	1306	122	-386	C
ATOM	561	O	MET	C	96	65.026	30.991	24.187	1.00	78.75		O
ANISOU	561	O	MET	C	96	9960	10653	9308	1188	146	-283	O
ATOM	562	N	VAL	C	97	64.203	33.084	24.316	1.00	82.77		N
ANISOU	562	N	VAL	C	97	10733	10936	9778	1363	43	-520	N
ATOM	563	CA	VAL	C	97	64.803	33.405	25.616	1.00	90.04		C
ANISOU	563	CA	VAL	C	97	11823	11842	10546	1289	-18	-559	C
ATOM	564	CB	VAL	C	97	64.550	34.908	25.990	1.00	86.10		C
ANISOU	564	CB	VAL	C	97	11546	11180	9989	1369	-117	-714	C
ATOM	565	CG1	VAL	C	97	64.583	35.138	27.484	1.00	80.63		C
ANISOU	565	CG1	VAL	C	97	11003	10509	9125	1357	-107	-812	C
ATOM	566	CG2	VAL	C	97	65.525	35.833	25.253	1.00	81.70		C
ANISOU	566	CG2	VAL	C	97	11093	10452	9495	1278	-305	-649	C
ATOM	567	C	VAL	C	97	64.287	32.486	26.730	1.00	84.12		C
ANISOU	567	C	VAL	C	97	11028	11256	9679	1313	136	-603	C
ATOM	568	O	VAL	C	97	65.051	32.080	27.616	1.00	77.12		O
ANISOU	568	O	VAL	C	97	10193	10419	8690	1195	109	-548	O
ATOM	569	N	ALA	C	98	63.009	32.121	26.644	1.00	77.90		N
ANISOU	569	N	ALA	C	98	10138	10551	8909	1460	296	-699	N
ATOM	570	CA	ALA	C	98	62.390	31.254	27.635	1.00	78.09		C
ANISOU	570	CA	ALA	C	98	10118	10730	8823	1490	459	-756	C
ATOM	571	CB	ALA	C	98	60.926	31.050	27.320	1.00	76.65		C
ANISOU	571	CB	ALA	C	98	9823	10613	8687	1666	624	-882	C
ATOM	572	C	ALA	C	98	63.113	29.922	27.673	1.00	83.62		C
ANISOU	572	C	ALA	C	98	10685	11564	9522	1354	500	-584	C
ATOM	573	O	ALA	C	98	63.388	29.385	28.743	1.00	87.00		O
ANISOU	573	O	ALA	C	98	11162	12073	9822	1284	535	-576	O
ATOM	574	N	GLY	C	99	63.447	29.409	26.494	1.00	88.13		N
ANISOU	574	N	GLY	C	99	11094	12152	10239	1312	488	-446	N
ATOM	575	CA	GLY	C	99	64.142	28.141	26.376	1.00	81.83		C
ANISOU	575	CA	GLY	C	99	10150	11475	9465	1185	521	-277	C
ATOM	576	C	GLY	C	99	65.593	28.200	26.813	1.00	79.56		C
ANISOU	576	C	GLY	C	99	9958	11140	9131	1009	363	-167	C
ATOM	577	O	GLY	C	99	66.050	27.315	27.534	1.00	81.80		O
ANISOU	577	O	GLY	C	99	10219	11526	9337	919	393	-98	O
ATOM	578	N	ILE	C	100	66.319	29.224	26.359	1.00	78.56		N
ANISOU	578	N	ILE	C	100	9939	10858	9053	958	194	-153	N
ATOM	579	CA	ILE	C	100	67.729	29.400	26.710	1.00	78.42		C
ANISOU	579	CA	ILE	C	100	10016	10781	9000	790	33	-62	C
ATOM	580	CB	ILE	C	100	68.358	30.628	26.012	1.00	79.47		C
ANISOU	580	CB	ILE	C	100	10261	10732	9202	752	-138	-65	C
ATOM	581	CG1	ILE	C	100	68.132	30.571	24.504	1.00	81.10		C
ANISOU	581	CG1	ILE	C	100	10322	10910	9585	779	-126	-3	C
ATOM	582	CD1	ILE	C	100	68.616	31.811	23.785	1.00	86.02		C
ANISOU	582	CD1	ILE	C	100	11067	11347	10269	751	-283	-19	C
ATOM	583	CG2	ILE	C	100	69.841	30.728	26.340	1.00	78.15		C
ANISOU	583	CG2	ILE	C	100	10174	10514	9005	572	-297	27	C
ATOM	584	C	ILE	C	100	67.899	29.553	28.221	1.00	87.38		C
ANISOU	584	C	ILE	C	100	11319	11931	9950	765	17	-136	C
ATOM	585	O	ILE	C	100	68.807	28.967	28.815	1.00	85.99		O
ANISOU	585	O	ILE	C	100	11152	11804	9715	637	-34	-46	O
ATOM	586	N	THR	C	101	67.027	30.343	28.841	1.00	89.32		N
ANISOU	586	N	THR	C	101	11698	12134	10107	887	58	-302	N

ATOM	587	CA	THR	C	101	67.090	30.533	30.287	1.00	87.15		C
ANISOU	587	CA	THR	C	101	11589	11872	9653	867	54	-385	C
ATOM	588	CB	THR	C	101	66.135	31.658	30.761	1.00	86.43		C
ANISOU	588	CB	THR	C	101	11649	11699	9492	1006	79	-582	C
ATOM	589	OG1	THR	C	101	66.669	32.932	30.367	1.00	77.47		O
ANISOU	589	OG1	THR	C	101	10646	10391	8396	992	-84	-606	O
ATOM	590	CG2	THR	C	101	66.028	31.660	32.279	1.00	104.31		C
ANISOU	590	CG2	THR	C	101	14059	14006	11568	989	115	-674	C
ATOM	591	C	THR	C	101	66.774	29.238	31.031	1.00	85.63		C
ANISOU	591	C	THR	C	101	11311	11852	9374	851	197	-356	C
ATOM	592	O	THR	C	101	67.523	28.833	31.921	1.00	94.39		O
ANISOU	592	O	THR	C	101	12488	12997	10377	739	149	-302	O
ATOM	593	N	SER	C	102	65.679	28.590	30.655	1.00	82.57		N
ANISOU	593	N	SER	C	102	10777	11565	9031	959	369	-391	N
ATOM	594	CA	SER	C	102	65.262	27.349	31.299	1.00	90.16		C
ANISOU	594	CA	SER	C	102	11655	12691	9912	951	523	-373	C
ATOM	595	CB	SER	C	102	64.009	26.792	30.614	1.00	91.33		C
ANISOU	595	CB	SER	C	102	11627	12933	10142	1085	709	-421	C
ATOM	596	OG	SER	C	102	62.925	27.697	30.702	1.00	95.19		O
ANISOU	596	OG	SER	C	102	12189	13364	10614	1235	764	-608	O
ATOM	597	C	SER	C	102	66.361	26.284	31.290	1.00	91.74		C
ANISOU	597	C	SER	C	102	11767	12964	10126	796	472	-187	C
ATOM	598	O	SER	C	102	66.728	25.755	32.346	1.00	93.27		O
ANISOU	598	O	SER	C	102	12033	13219	10186	719	475	-166	O
ATOM	599	N	PHE	C	103	66.884	25.973	30.105	1.00	88.82		N
ANISOU	599	N	PHE	C	103	11244	12585	9917	749	424	-55	N
ATOM	600	CA	PHE	C	103	67.952	24.984	29.984	1.00	88.03		C
ANISOU	600	CA	PHE	C	103	11045	12549	9855	602	368	120	C
ATOM	601	CB	PHE	C	103	68.206	24.626	28.522	1.00	91.51		C
ANISOU	601	CB	PHE	C	103	11285	12991	10492	578	358	239	C
ATOM	602	CG	PHE	C	103	67.164	23.717	27.922	1.00	84.23		C
ANISOU	602	CG	PHE	C	103	10166	12196	9640	673	551	247	C
ATOM	603	CD1	PHE	C	103	67.156	22.356	28.207	1.00	84.02		C
ANISOU	603	CD1	PHE	C	103	10015	12321	9588	628	658	333	C
ATOM	604	CE1	PHE	C	103	66.215	21.514	27.637	1.00	78.25		C
ANISOU	604	CE1	PHE	C	103	9099	11709	8922	712	839	340	C
ATOM	605	CZ	PHE	C	103	65.293	22.022	26.748	1.00	86.63		C
ANISOU	605	CZ	PHE	C	103	10094	12739	10081	841	908	263	C
ATOM	606	CE2	PHE	C	103	65.307	23.371	26.433	1.00	85.55		C
ANISOU	606	CE2	PHE	C	103	10082	12447	9976	887	793	182	C
ATOM	607	CD2	PHE	C	103	66.243	24.207	27.011	1.00	81.64		C
ANISOU	607	CD2	PHE	C	103	9774	11834	9412	801	618	175	C
ATOM	608	C	PHE	C	103	69.250	25.471	30.628	1.00	87.62		C
ANISOU	608	C	PHE	C	103	11149	12407	9734	467	176	162	C
ATOM	609	O	PHE	C	103	70.075	24.670	31.081	1.00	86.11		O
ANISOU	609	O	PHE	C	103	10936	12276	9506	349	131	266	O
ATOM	610	N	GLY	C	104	69.431	26.789	30.651	1.00	89.08		N
ANISOU	610	N	GLY	C	104	11492	12448	9907	485	62	77	N
ATOM	611	CA	GLY	C	104	70.611	27.393	31.246	1.00	92.41		C
ANISOU	611	CA	GLY	C	104	12073	12776	10263	366	-119	98	C
ATOM	612	C	GLY	C	104	70.627	27.148	32.736	1.00	99.12		C
ANISOU	612	C	GLY	C	104	13062	13679	10921	340	-101	49	C
ATOM	613	O	GLY	C	104	71.679	26.931	33.347	1.00	96.70		O
ANISOU	613	O	GLY	C	104	12821	13367	10554	214	-217	118	O
ATOM	614	N	LEU	C	105	69.442	27.198	33.328	1.00	102.46		N
ANISOU	614	N	LEU	C	105	13532	14150	11248	458	43	-80	N
ATOM	615	CA	LEU	C	105	69.300	26.959	34.750	1.00	101.57		C
ANISOU	615	CA	LEU	C	105	13556	14091	10945	438	82	-143	C
ATOM	616	CB	LEU	C	105	67.937	27.474	35.227	1.00	106.30		C
ANISOU	616	CB	LEU	C	105	14232	14696	11460	582	222	-328	C
ATOM	617	CG	LEU	C	105	67.594	27.516	36.715	1.00	120.35		C
ANISOU	617	CG	LEU	C	105	16185	16510	13035	577	274	-438	C
ATOM	618	CD1	LEU	C	105	66.684	28.694	37.040	1.00	122.03		C

ANISOU	618	CD1	LEU	C	105	16527	16642	13196	696	314	-634	C
ATOM	619	CD2	LEU	C	105	66.897	26.222	37.056	1.00113.25			C
ANISOU	619	CD2	LEU	C	105	15182	15770	12078	594	455	-424	C
ATOM	620	C	LEU	C	105	69.500	25.473	35.074	1.00	97.85		C
ANISOU	620	C	LEU	C	105	12974	13765	10438	367	154	-28	C
ATOM	621	O	LEU	C	105	70.132	25.145	36.074	1.00107.91			O
ANISOU	621	O	LEU	C	105	14353	15061	11588	272	93	4	O
ATOM	622	N	VAL	C	106	68.993	24.582	34.222	1.00	91.70		N
ANISOU	622	N	VAL	C	106	11988	13081	9771	409	277	35	N
ATOM	623	CA	VAL	C	106	69.168	23.139	34.424	1.00	90.38		C
ANISOU	623	CA	VAL	C	106	11704	13052	9585	344	349	150	C
ATOM	624	CB	VAL	C	106	68.437	22.315	33.358	1.00	83.32		C
ANISOU	624	CB	VAL	C	106	10575	12255	8826	414	502	199	C
ATOM	625	CG1	VAL	C	106	68.775	20.834	33.499	1.00	65.71		C
ANISOU	625	CG1	VAL	C	106	8221	10157	6589	333	556	333	C
ATOM	626	CG2	VAL	C	106	66.938	22.516	33.496	1.00	88.14		C
ANISOU	626	CG2	VAL	C	106	11192	12909	9390	568	688	40	C
ATOM	627	C	VAL	C	106	70.666	22.808	34.426	1.00	93.71		C
ANISOU	627	C	VAL	C	106	12119	13445	10040	187	170	300	C
ATOM	628	O	VAL	C	106	71.127	21.902	35.131	1.00	93.28		O
ANISOU	628	O	VAL	C	106	12074	13466	9903	103	160	374	O
ATOM	629	N	THR	C	107	71.426	23.556	33.631	1.00	92.87		N
ANISOU	629	N	THR	C	107	12002	13228	10056	145	26	339	N
ATOM	630	CA	THR	C	107	72.880	23.407	33.602	1.00	92.59		C
ANISOU	630	CA	THR	C	107	11968	13150	10062	-6	-156	459	C
ATOM	631	CB	THR	C	107	73.512	24.249	32.474	1.00	93.90		C
ANISOU	631	CB	THR	C	107	12094	13196	10387	-38	-280	488	C
ATOM	632	OG1	THR	C	107	73.362	23.549	31.231	1.00	93.13		O
ANISOU	632	OG1	THR	C	107	11767	13156	10463	-32	-210	582	O
ATOM	633	CG2	THR	C	107	74.997	24.461	32.725	1.00	80.45		C
ANISOU	633	CG2	THR	C	107	10461	11420	8686	-189	-484	557	C
ATOM	634	C	THR	C	107	73.487	23.803	34.944	1.00	97.17		C
ANISOU	634	C	THR	C	107	12766	13686	10469	-73	-268	416	C
ATOM	635	O	THR	C	107	74.406	23.138	35.438	1.00	96.63		O
ANISOU	635	O	THR	C	107	12703	13649	10363	-186	-359	508	O
ATOM	636	N	ALA	C	108	72.964	24.879	35.532	1.00101.29			N
ANISOU	636	N	ALA	C	108	13466	14133	10885	-3	-264	272	N
ATOM	637	CA	ALA	C	108	73.442	25.371	36.824	1.00102.05			C
ANISOU	637	CA	ALA	C	108	13783	14182	10810	-60	-361	215	C
ATOM	638	CB	ALA	C	108	72.768	26.681	37.176	1.00109.35			C
ANISOU	638	CB	ALA	C	108	14874	15013	11662	33	-345	50	C
ATOM	639	C	ALA	C	108	73.204	24.345	37.923	1.00104.51			C
ANISOU	639	C	ALA	C	108	14132	14608	10968	-85	-279	229	C
ATOM	640	O	ALA	C	108	74.106	24.044	38.709	1.00109.35			O
ANISOU	640	O	ALA	C	108	14833	15221	11495	-193	-394	285	O
ATOM	641	N	ALA	C	109	71.981	23.820	37.967	1.00100.21			N
ANISOU	641	N	ALA	C	109	13526	14159	10389	14	-82	172	N
ATOM	642	CA	ALA	C	109	71.603	22.821	38.954	1.00109.24			C
ANISOU	642	CA	ALA	C	109	14706	15416	11384	-5	21	174	C
ATOM	643	CB	ALA	C	109	70.187	22.329	38.701	1.00111.05			C
ANISOU	643	CB	ALA	C	109	14833	15745	11616	116	251	103	C
ATOM	644	C	ALA	C	109	72.587	21.663	38.911	1.00110.77			C
ANISOU	644	C	ALA	C	109	14804	15672	11613	-123	-57	344	C
ATOM	645	O	ALA	C	109	72.978	21.133	39.952	1.00118.92			O
ANISOU	645	O	ALA	C	109	15942	16738	12503	-198	-95	371	O
ATOM	646	N	LEU	C	110	72.995	21.283	37.704	1.00105.34			N
ANISOU	646	N	LEU	C	110	13916	14993	11115	-141	-85	455	N
ATOM	647	CA	LEU	C	110	73.982	20.223	37.552	1.00107.19			C
ANISOU	647	CA	LEU	C	110	14041	15279	11409	-253	-169	614	C
ATOM	648	CB	LEU	C	110	74.129	19.818	36.087	1.00103.71			C
ANISOU	648	CB	LEU	C	110	13356	14860	11190	-251	-151	713	C
ATOM	649	CG	LEU	C	110	72.998	19.011	35.465	1.00	96.04		C
ANISOU	649	CG	LEU	C	110	12210	14004	10277	-157	63	720	C

ATOM	650	CD1	LEU	C	110	73.306	18.755	33.995	1.00	91.77		C
ANISOU	650	CD1	LEU	C	110	11441	13465	9961	-171	52	821	C
ATOM	651	CD2	LEU	C	110	72.829	17.697	36.216	1.00	83.20		C
ANISOU	651	CD2	LEU	C	110	10567	12504	8543	-189	150	776	C
ATOM	652	C	LEU	C	110	75.342	20.636	38.117	1.00	107.86		C
ANISOU	652	C	LEU	C	110	14254	15275	11454	-375	-394	654	C
ATOM	653	O	LEU	C	110	76.039	19.823	38.721	1.00	110.38		O
ANISOU	653	O	LEU	C	110	14589	15636	11715	-466	-467	738	O
ATOM	654	N	ALA	C	111	75.720	21.897	37.922	1.00	105.69		N
ANISOU	654	N	ALA	C	111	14073	14876	11209	-376	-506	590	N
ATOM	655	CA	ALA	C	111	76.997	22.383	38.430	1.00	105.34		C
ANISOU	655	CA	ALA	C	111	14152	14742	11129	-489	-717	614	C
ATOM	656	CB	ALA	C	111	77.311	23.758	37.854	1.00	101.29		C
ANISOU	656	CB	ALA	C	111	13696	14096	10695	-480	-815	550	C
ATOM	657	C	ALA	C	111	76.988	22.426	39.961	1.00	121.39		C
ANISOU	657	C	ALA	C	111	16404	16782	12938	-514	-741	553	C
ATOM	658	O	ALA	C	111	77.961	22.031	40.614	1.00	125.66		O
ANISOU	658	O	ALA	C	111	17006	17319	13421	-619	-876	619	O
ATOM	659	N	THR	C	112	75.880	22.896	40.526	1.00	119.12		N
ANISOU	659	N	THR	C	112	16232	16501	12527	-419	-609	424	N
ATOM	660	CA	THR	C	112	75.734	22.985	41.975	1.00	116.33		C
ANISOU	660	CA	THR	C	112	16094	16154	11954	-440	-609	351	C
ATOM	661	CB	THR	C	112	74.389	23.628	42.363	1.00	124.01		C
ANISOU	661	CB	THR	C	112	17164	17128	12826	-323	-445	188	C
ATOM	662	OG1	THR	C	112	74.244	24.887	41.688	1.00	126.44		O
ANISOU	662	OG1	THR	C	112	17483	17331	13227	-259	-477	108	O
ATOM	663	CG2	THR	C	112	74.301	23.839	43.874	1.00	125.25		C
ANISOU	663	CG2	THR	C	112	17557	17279	12754	-359	-454	104	C
ATOM	664	C	THR	C	112	75.853	21.594	42.598	1.00	118.99		C
ANISOU	664	C	THR	C	112	16406	16600	12206	-500	-576	443	C
ATOM	665	O	THR	C	112	76.604	21.397	43.548	1.00	132.71		O
ANISOU	665	O	THR	C	112	18275	18325	13825	-592	-696	474	O
ATOM	666	N	TRP	C	113	75.132	20.632	42.026	1.00	116.76		N
ANISOU	666	N	TRP	C	113	15952	16423	11987	-448	-418	488	N
ATOM	667	CA	TRP	C	113	75.165	19.236	42.469	1.00	125.43		C
ANISOU	667	CA	TRP	C	113	17006	17630	13021	-497	-369	581	C
ATOM	668	CB	TRP	C	113	74.273	18.354	41.555	1.00	127.39		C
ANISOU	668	CB	TRP	C	113	17036	17987	13378	-422	-177	619	C
ATOM	669	CG	TRP	C	113	74.209	16.867	41.939	1.00	132.73		C
ANISOU	669	CG	TRP	C	113	17657	18783	13993	-466	-106	714	C
ATOM	670	CD1	TRP	C	113	74.178	16.344	43.201	1.00	135.21		C
ANISOU	670	CD1	TRP	C	113	18136	19133	14105	-517	-100	703	C
ATOM	671	NE1	TRP	C	113	74.105	14.973	43.145	1.00	139.67		N
ANISOU	671	NE1	TRP	C	113	18593	19804	14673	-544	-28	806	N
ATOM	672	CE2	TRP	C	113	74.031	14.581	41.839	1.00	132.75		C
ANISOU	672	CE2	TRP	C	113	17469	18969	14003	-507	27	880	C
ATOM	673	CD2	TRP	C	113	74.081	15.742	41.041	1.00	129.36		C
ANISOU	673	CD2	TRP	C	113	16997	18452	13703	-458	-19	826	C
ATOM	674	CE3	TRP	C	113	73.999	15.612	39.652	1.00	122.73		C
ANISOU	674	CE3	TRP	C	113	15924	17631	13078	-417	25	883	C
ATOM	675	CZ3	TRP	C	113	73.915	14.335	39.106	1.00	124.87		C
ANISOU	675	CZ3	TRP	C	113	16004	18009	13433	-429	110	996	C
ATOM	676	CH2	TRP	C	113	73.870	13.201	39.925	1.00	128.91		C
ANISOU	676	CH2	TRP	C	113	16559	18607	13814	-475	155	1048	C
ATOM	677	CZ2	TRP	C	113	73.925	13.302	41.288	1.00	128.55		C
ANISOU	677	CZ2	TRP	C	113	16750	18542	13553	-515	113	992	C
ATOM	678	C	TRP	C	113	76.591	18.708	42.504	1.00	120.56		C
ANISOU	678	C	TRP	C	113	16359	16994	12456	-623	-570	719	C
ATOM	679	O	TRP	C	113	77.034	18.123	43.495	1.00	128.17		O
ANISOU	679	O	TRP	C	113	17436	17981	13284	-697	-637	758	O
ATOM	680	N	PHE	C	114	77.285	18.899	41.394	1.00	117.99		N
ANISOU	680	N	PHE	C	114	15878	16625	12329	-646	-664	789	N
ATOM	681	CA	PHE	C	114	78.653	18.442	41.242	1.00	120.42		C

ANISOU	681	CA	PHE	C	114	16123	16911	12721	-763	-854	911	C
ATOM	682	CB	PHE	C	114	79.100	18.624	39.786	1.00119.48			C
ANISOU	682	CB	PHE	C	114	15795	16760	12843	-770	-896	971	C
ATOM	683	CG	PHE	C	114	78.472	17.646	38.835	1.00112.44			C
ANISOU	683	CG	PHE	C	114	14673	15970	12078	-723	-740	1043	C
ATOM	684	CD1	PHE	C	114	77.859	16.503	39.308	1.00120.97			C
ANISOU	684	CD1	PHE	C	114	15727	17167	13070	-703	-611	1080	C
ATOM	685	CE1	PHE	C	114	77.275	15.604	38.438	1.00122.25			C
ANISOU	685	CE1	PHE	C	114	15676	17427	13347	-660	-462	1144	C
ATOM	686	CZ	PHE	C	114	77.299	15.819	37.100	1.00106.54			C
ANISOU	686	CZ	PHE	C	114	13498	15421	11561	-638	-443	1176	C
ATOM	687	CE2	PHE	C	114	77.912	16.958	36.593	1.00110.60			C
ANISOU	687	CE2	PHE	C	114	14040	15817	12166	-662	-574	1142	C
ATOM	688	CD2	PHE	C	114	78.488	17.868	37.470	1.00113.35			C
ANISOU	688	CD2	PHE	C	114	14603	16068	12397	-703	-720	1074	C
ATOM	689	C	PHE	C	114	79.597	19.177	42.194	1.00117.67			C
ANISOU	689	C	PHE	C	114	15982	16465	12261	-842	-1049	875	C
ATOM	690	O	PHE	C	114	80.564	18.599	42.693	1.00114.52			O
ANISOU	690	O	PHE	C	114	15610	16068	11834	-939	-1193	954	O
ATOM	691	N	VAL	C	115	79.306	20.448	42.450	1.00120.81			N
ANISOU	691	N	VAL	C	115	16527	16779	12596	-799	-1054	753	N
ATOM	692	CA	VAL	C	115	80.116	21.262	43.351	1.00130.73			C
ANISOU	692	CA	VAL	C	115	17988	17943	13742	-867	-1224	705	C
ATOM	693	CB	VAL	C	115	79.929	22.777	43.059	1.00125.78			C
ANISOU	693	CB	VAL	C	115	17445	17207	13138	-817	-1240	588	C
ATOM	694	CG1	VAL	C	115	80.297	23.619	44.278	1.00130.94			C
ANISOU	694	CG1	VAL	C	115	18351	17786	13614	-858	-1346	503	C
ATOM	695	CG2	VAL	C	115	80.758	23.188	41.855	1.00111.17			C
ANISOU	695	CG2	VAL	C	115	15455	15290	11496	-856	-1352	640	C
ATOM	696	C	VAL	C	115	79.755	20.920	44.801	1.00136.82			C
ANISOU	696	C	VAL	C	115	18955	18753	14276	-880	-1189	663	C
ATOM	697	O	VAL	C	115	80.632	20.790	45.657	1.00141.78			O
ANISOU	697	O	VAL	C	115	19707	19355	14810	-970	-1342	694	O
ATOM	698	N	GLY	C	116	78.468	20.772	45.069	1.00136.93			N
ANISOU	698	N	GLY	C	116	19000	18830	14196	-793	-989	589	N
ATOM	699	CA	GLY	C	116	78.027	20.428	46.404	1.00136.95			C
ANISOU	699	CA	GLY	C	116	19190	18874	13973	-809	-934	540	C
ATOM	700	C	GLY	C	116	78.711	19.152	46.830	1.00141.50			C
ANISOU	700	C	GLY	C	116	19744	19509	14510	-899	-1012	669	C
ATOM	701	O	GLY	C	116	79.289	19.075	47.903	1.00152.96			O
ANISOU	701	O	GLY	C	116	21368	20936	15814	-977	-1129	676	O
ATOM	702	N	ARG	C	117	78.658	18.151	45.963	1.00135.61			N
ANISOU	702	N	ARG	C	117	18783	18839	13902	-888	-953	774	N
ATOM	703	CA	ARG	C	117	79.257	16.858	46.229	1.00130.43			C
ANISOU	703	CA	ARG	C	117	18078	18244	13234	-965	-1019	902	C
ATOM	704	CB	ARG	C	117	78.882	15.852	45.147	1.00117.67			C
ANISOU	704	CB	ARG	C	117	16209	16722	11779	-927	-898	993	C
ATOM	705	C	ARG	C	117	80.757	16.919	46.385	1.00134.39			C
ANISOU	705	C	ARG	C	117	18604	18675	13784	-1071	-1275	978	C
ATOM	706	O	ARG	C	117	81.308	16.211	47.198	1.00146.29			O
ANISOU	706	O	ARG	C	117	20198	20198	15189	-1144	-1374	1038	O
ATOM	707	N	GLU	C	118	81.431	17.727	45.589	1.00131.91			N
ANISOU	707	N	GLU	C	118	18209	18283	13627	-1082	-1385	976	N
ATOM	708	CA	GLU	C	118	82.880	17.793	45.700	1.00137.84			C
ANISOU	708	CA	GLU	C	118	18971	18968	14434	-1187	-1628	1037	C
ATOM	709	CB	GLU	C	118	83.552	18.478	44.528	1.00136.94			C
ANISOU	709	CB	GLU	C	118	18711	18786	14535	-1201	-1716	1047	C
ATOM	710	CG	GLU	C	118	84.986	18.010	44.342	1.00139.54			C
ANISOU	710	CG	GLU	C	118	18954	19088	14977	-1311	-1930	1143	C
ATOM	711	CD	GLU	C	118	85.125	16.498	44.282	1.00147.89			C
ANISOU	711	CD	GLU	C	118	19879	20241	16073	-1341	-1919	1265	C
ATOM	712	OE1	GLU	C	118	84.117	15.781	44.400	1.00144.41			O
ANISOU	712	OE1	GLU	C	118	19416	19888	15564	-1280	-1743	1280	O

ATOM	713	OE2	GLU	C	118	86.258	16.020	44.112	1.00160.78	O
ANISOU	713	OE2	GLU	C	118	21426	21857	17807	-1426 -2090 1342	O
ATOM	714	C	GLU	C	118	83.386	18.327	47.008	1.00152.34	C
ANISOU	714	C	GLU	C	118	21062	20740	16082	-1244 -1763 982	C
ATOM	715	O	GLU	C	118	84.410	17.888	47.484	1.00161.19	O
ANISOU	715	O	GLU	C	118	22220	21842	17184	-1331 -1940 1047	O
ATOM	716	N	GLN	C	119	82.697	19.296	47.585	1.00155.36	N
ANISOU	716	N	GLN	C	119	21617	21084	16328	-1195 -1688 857	N
ATOM	717	CA	GLN	C	119	83.161	19.853	48.841	1.00161.45	C
ANISOU	717	CA	GLN	C	119	22635	21794	16916	-1253 -1812 800	C
ATOM	718	CB	GLN	C	119	82.230	20.964	49.301	1.00168.98	C
ANISOU	718	CB	GLN	C	119	23749	22710	17744	-1186 -1694 652	C
ATOM	719	CG	GLN	C	119	82.230	22.175	48.402	1.00171.90	C
ANISOU	719	CG	GLN	C	119	24058	23004	18253	-1137 -1697 585	C
ATOM	720	CD	GLN	C	119	83.596	22.791	48.309	1.00176.78	C
ANISOU	720	CD	GLN	C	119	24698	23527	18941	-1221 -1925 607	C
ATOM	721	OE1	GLN	C	119	84.308	22.873	49.302	1.00174.66	O
ANISOU	721	OE1	GLN	C	119	24591	23224	18549	-1296 -2067 604	O
ATOM	722	NE2	GLN	C	119	83.973	23.231	47.119	1.00174.55	N
ANISOU	722	NE2	GLN	C	119	24260	23202	18859	-1212 -1962 624	N
ATOM	723	C	GLN	C	119	83.198	18.777	49.906	1.00161.64	C
ANISOU	723	C	GLN	C	119	22768	21876	16773	-1305 -1830 855	C
ATOM	724	O	GLN	C	119	84.154	18.679	50.648	1.00164.86	O
ANISOU	724	O	GLN	C	119	23289	22243	17109	-1390 -2014 888	O
ATOM	725	N	GLU	C	120	82.172	17.961	49.993	1.00158.36	N
ANISOU	725	N	GLU	C	120	22324	21553	16293	-1257 -1643 864	N
ATOM	726	CA	GLU	C	120	82.160	16.905	50.983	1.00160.07	C
ANISOU	726	CA	GLU	C	120	22652	21823	16344	-1309 -1651 918	C
ATOM	727	CB	GLU	C	120	80.754	16.340	51.198	1.00159.66	C
ANISOU	727	CB	GLU	C	120	22616	21865	16182	-1245 -1399 875	C
ATOM	728	CG	GLU	C	120	80.412	15.103	50.401	1.00155.94	C
ANISOU	728	CG	GLU	C	120	21930	21492	15826	-1218 -1289 977	C
ATOM	729	CD	GLU	C	120	78.922	14.917	50.246	1.00154.15	C
ANISOU	729	CD	GLU	C	120	21673	21348	15549	-1128 -1016 902	C
ATOM	730	OE1	GLU	C	120	78.159	15.738	50.780	1.00162.35	O
ANISOU	730	OE1	GLU	C	120	22858	22365	16462	-1089 -915 767	O
ATOM	731	OE2	GLU	C	120	78.507	13.946	49.593	1.00151.24	O
ANISOU	731	OE2	GLU	C	120	21131	21066	15266	-1098 -899 972	O
ATOM	732	C	GLU	C	120	83.209	15.813	50.774	1.00164.48	C
ANISOU	732	C	GLU	C	120	23096	22402	16997	-1383 -1810 1064	C
ATOM	733	O	GLU	C	120	83.824	15.381	51.726	1.00175.35	O
ANISOU	733	O	GLU	C	120	24616	23762	18247	-1458 -1946 1103	O
ATOM	734	N	ARG	C	121	83.445	15.390	49.538	1.00161.39	N
ANISOU	734	N	ARG	C	121	22451	22040	16831	-1364 -1802 1143	N
ATOM	735	CA	ARG	C	121	84.422	14.319	49.320	1.00163.38	C
ANISOU	735	CA	ARG	C	121	22582	22313	17182	-1432 -1949 1277	C
ATOM	736	CB	ARG	C	121	84.453	13.846	47.867	1.00163.41	C
ANISOU	736	CB	ARG	C	121	22289	22362	17437	-1403 -1891 1352	C
ATOM	737	CG	ARG	C	121	85.618	12.922	47.544	1.00162.85	C
ANISOU	737	CG	ARG	C	121	22078	22297	17502	-1481 -2069 1477	C
ATOM	738	CD	ARG	C	121	85.387	12.202	46.228	1.00161.90	C
ANISOU	738	CD	ARG	C	121	21672	22247	17597	-1449 -1962 1556	C
ATOM	739	NE	ARG	C	121	86.629	11.859	45.549	1.00158.45	N
ANISOU	739	NE	ARG	C	121	21061	21783	17361	-1521 -2145 1638	N
ATOM	740	CZ	ARG	C	121	87.517	12.757	45.142	1.00157.57	C
ANISOU	740	CZ	ARG	C	121	20921	21584	17364	-1564 -2294 1603	C
ATOM	741	NH1	ARG	C	121	87.308	14.042	45.367	1.00162.20	N
ANISOU	741	NH1	ARG	C	121	21649	22102	17880	-1538 -2286 1494	N
ATOM	742	NH2	ARG	C	121	88.620	12.375	44.521	1.00150.19	N
ANISOU	742	NH2	ARG	C	121	19819	20630	16615	-1635 -2451 1671	N
ATOM	743	C	ARG	C	121	85.817	14.698	49.779	1.00165.48	C
ANISOU	743	C	ARG	C	121	22933	22488	17453	-1523 -2219 1293	C
ATOM	744	O	ARG	C	121	86.546	13.867	50.301	1.00170.47	O

ANISOU	744	O	ARG	C	121	23598	23126	18049	-1590	-2362	1373	O
ATOM	745	N	ARG	C	122	86.206	15.943	49.559	1.00165.80			N
ANISOU	745	N	ARG	C	122	23007	22445	17545	-1524	-2293	1215	N
ATOM	746	CA	ARG	C	122	87.519	16.381	49.974	1.00170.42			C
ANISOU	746	CA	ARG	C	122	23671	22943	18137	-1609	-2543	1217	C
ATOM	747	CB	ARG	C	122	88.525	16.155	48.852	1.00172.05			C
ANISOU	747	CB	ARG	C	122	23641	23133	18597	-1650	-2668	1288	C
ATOM	748	C	ARG	C	122	87.499	17.842	50.382	1.00171.62			C
ANISOU	748	C	ARG	C	122	23994	23010	18204	-1600	-2568	1093	C
ATOM	749	O	ARG	C	122	87.259	18.162	51.541	1.00174.67			O
ANISOU	749	O	ARG	C	122	24612	23376	18379	-1612	-2574	1033	O
TER												
HETATM	750	O	HOH	C1001		61.972	26.532	12.038	1.00	81.83		O
HETATM	751	O	HOH	C1002		72.669	27.558	27.599	1.00	67.04		O
HETATM	752	O	HOH	C1003		71.205	25.955	24.088	1.00	54.08		O
TER												
ATOM	753	N	SER	B	22	74.727	44.282	45.952	1.00199.18			N
ANISOU	753	N	SER	B	22	28571	20170	26940	-1437	-2866	-2758	N
ATOM	754	CA	SER	B	22	74.682	43.215	44.961	1.00188.58			C
ANISOU	754	CA	SER	B	22	27314	18983	25353	-1407	-2817	-2710	C
ATOM	755	CB	SER	B	22	74.016	43.703	43.676	1.00182.08			C
ANISOU	755	CB	SER	B	22	26498	18157	24528	-1418	-2802	-2667	C
ATOM	756	C	SER	B	22	76.082	42.707	44.666	1.00188.05			C
ANISOU	756	C	SER	B	22	27259	18934	25258	-1412	-2811	-2684	C
ATOM	757	O	SER	B	22	77.018	43.482	44.543	1.00193.90			O
ANISOU	757	O	SER	B	22	27933	19548	26193	-1449	-2840	-2679	O
ATOM	758	N	ALA	B	23	76.215	41.398	44.527	1.00181.11			N
ANISOU	758	N	ALA	B	23	26464	18210	24140	-1373	-2773	-2661	N
ATOM	759	CA	ALA	B	23	77.501	40.790	44.259	1.00176.60			C
ANISOU	759	CA	ALA	B	23	25912	17671	23516	-1373	-2763	-2634	C
ATOM	760	CB	ALA	B	23	77.406	39.285	44.335	1.00166.83			C
ANISOU	760	CB	ALA	B	23	24771	16608	22008	-1325	-2721	-2608	C
ATOM	761	C	ALA	B	23	77.862	41.235	42.872	1.00177.97			C
ANISOU	761	C	ALA	B	23	26078	17815	23727	-1396	-2757	-2583	C
ATOM	762	O	ALA	B	23	77.026	41.771	42.179	1.00182.64			O
ANISOU	762	O	ALA	B	23	26665	18390	24340	-1403	-2753	-2566	O
ATOM	763	N	LEU	B	24	79.114	41.058	42.482	1.00179.16			N
ANISOU	763	N	LEU	B	24	26223	17950	23898	-1409	-2758	-2557	N
ATOM	764	CA	LEU	B	24	79.595	41.501	41.175	1.00177.34			C
ANISOU	764	CA	LEU	B	24	25979	17681	23721	-1435	-2753	-2505	C
ATOM	765	CB	LEU	B	24	81.102	41.237	41.054	1.00180.11			C
ANISOU	765	CB	LEU	B	24	26319	18010	24105	-1449	-2758	-2486	C
ATOM	766	CG	LEU	B	24	81.818	41.558	39.738	1.00175.91			C
ANISOU	766	CG	LEU	B	24	25774	17441	23621	-1476	-2752	-2427	C
ATOM	767	CD1	LEU	B	24	81.749	43.040	39.443	1.00183.16			C
ANISOU	767	CD1	LEU	B	24	26594	18176	24823	-1527	-2785	-2417	C
ATOM	768	CD2	LEU	B	24	83.255	41.076	39.724	1.00176.73			C
ANISOU	768	CD2	LEU	B	24	25882	17551	23716	-1482	-2753	-2410	C
ATOM	769	C	LEU	B	24	78.895	40.887	39.979	1.00169.27			C
ANISOU	769	C	LEU	B	24	25039	16791	22484	-1409	-2712	-2451	C
ATOM	770	O	LEU	B	24	78.681	41.563	38.980	1.00165.28			O
ANISOU	770	O	LEU	B	24	24512	16236	22052	-1433	-2712	-2418	O
ATOM	771	N	HIS	B	25	78.556	39.612	40.059	1.00167.37			N
ANISOU	771	N	HIS	B	25	24893	16714	21984	-1362	-2676	-2433	N
ATOM	772	CA	HIS	B	25	77.955	38.962	38.911	1.00158.07			C
ANISOU	772	CA	HIS	B	25	23803	15665	20591	-1335	-2635	-2369	C
ATOM	773	CB	HIS	B	25	77.766	37.469	39.166	1.00146.42			C
ANISOU	773	CB	HIS	B	25	22432	14356	18845	-1285	-2593	-2337	C
ATOM	774	C	HIS	B	25	76.654	39.579	38.453	1.00154.39			C
ANISOU	774	C	HIS	B	25	23333	15187	20143	-1338	-2633	-2367	C
ATOM	775	O	HIS	B	25	76.460	39.774	37.260	1.00154.52			O
ANISOU	775	O	HIS	B	25	23369	15221	20121	-1346	-2619	-2319	O
ATOM	776	N	TRP	B	26	75.779	39.921	39.378	1.00151.74			N

ANISOU	776	N	TRP	B	26	22968	14817	19870	-1333	-2649	-2417	N
ATOM	777	CA	TRP	B	26	74.512	40.488	38.978	1.00149.92			C
ANISOU	777	CA	TRP	B	26	22733	14576	19652	-1335	-2647	-2415	C
ATOM	778	CB	TRP	B	26	73.507	40.527	40.113	1.00157.00			C
ANISOU	778	CB	TRP	B	26	23622	15473	20559	-1318	-2656	-2467	C
ATOM	779	CG	TRP	B	26	72.865	39.198	40.222	1.00157.13			C
ANISOU	779	CG	TRP	B	26	23740	15657	20304	-1267	-2615	-2434	C
ATOM	780	CD1	TRP	B	26	73.502	38.008	40.302	1.00156.82			C
ANISOU	780	CD1	TRP	B	26	23768	15722	20094	-1239	-2587	-2399	C
ATOM	781	NE1	TRP	B	26	72.596	36.986	40.367	1.00155.10			N
ANISOU	781	NE1	TRP	B	26	23636	15635	19660	-1198	-2546	-2361	N
ATOM	782	CE2	TRP	B	26	71.333	37.508	40.315	1.00162.72			C
ANISOU	782	CE2	TRP	B	26	24593	16588	20645	-1196	-2550	-2374	C
ATOM	783	CD2	TRP	B	26	71.464	38.907	40.217	1.00164.54			C
ANISOU	783	CD2	TRP	B	26	24729	16674	21117	-1238	-2594	-2421	C
ATOM	784	CE3	TRP	B	26	70.309	39.690	40.151	1.00166.77			C
ANISOU	784	CE3	TRP	B	26	24983	16912	21471	-1246	-2605	-2442	C
ATOM	785	CZ3	TRP	B	26	69.079	39.058	40.184	1.00162.15			C
ANISOU	785	CZ3	TRP	B	26	24465	16433	20713	-1210	-2576	-2418	C
ATOM	786	CH2	TRP	B	26	68.982	37.659	40.280	1.00161.35			C
ANISOU	786	CH2	TRP	B	26	24458	16472	20377	-1169	-2532	-2368	C
ATOM	787	CZ2	TRP	B	26	70.094	36.870	40.347	1.00159.39			C
ANISOU	787	CZ2	TRP	B	26	24238	16264	20059	-1162	-2518	-2344	C
ATOM	788	C	TRP	B	26	74.714	41.783	38.236	1.00149.13			C
ANISOU	788	C	TRP	B	26	22553	14334	19775	-1384	-2671	-2409	C
ATOM	789	O	TRP	B	26	73.979	42.078	37.312	1.00140.50			O
ANISOU	789	O	TRP	B	26	21476	13257	18651	-1387	-2658	-2377	O
ATOM	790	N	ARG	B	27	75.706	42.560	38.640	1.00158.44			N
ANISOU	790	N	ARG	B	27	23646	15368	21187	-1424	-2705	-2433	N
ATOM	791	CA	ARG	B	27	75.999	43.799	37.941	1.00162.93			C
ANISOU	791	CA	ARG	B	27	24132	15782	21993	-1475	-2725	-2410	C
ATOM	792	CB	ARG	B	27	77.170	44.547	38.583	1.00179.13			C
ANISOU	792	CB	ARG	B	27	26092	17671	24300	-1515	-2765	-2428	C
ATOM	793	CG	ARG	B	27	76.840	45.428	39.778	1.00186.84			C
ANISOU	793	CG	ARG	B	27	26991	18516	25482	-1533	-2805	-2480	C
ATOM	794	CD	ARG	B	27	78.059	46.228	40.231	1.00198.21			C
ANISOU	794	CD	ARG	B	27	28340	19788	27182	-1574	-2848	-2476	C
ATOM	795	NE	ARG	B	27	78.185	47.498	39.518	1.00213.25			N
ANISOU	795	NE	ARG	B	27	30159	21525	29340	-1621	-2870	-2421	N
ATOM	796	CZ	ARG	B	27	78.812	48.571	39.991	1.00220.83			C
ANISOU	796	CZ	ARG	B	27	31017	22300	30589	-1658	-2920	-2406	C
ATOM	797	NH1	ARG	B	27	79.381	48.541	41.188	1.00220.99			N
ANISOU	797	NH1	ARG	B	27	31009	22281	30675	-1654	-2954	-2453	N
ATOM	798	NH2	ARG	B	27	78.863	49.679	39.264	1.00225.53			N
ANISOU	798	NH2	ARG	B	27	31533	22746	31412	-1697	-2938	-2336	N
ATOM	799	C	ARG	B	27	76.422	43.416	36.545	1.00151.78			C
ANISOU	799	C	ARG	B	27	22765	14437	20469	-1476	-2697	-2342	C
ATOM	800	O	ARG	B	27	76.030	44.042	35.571	1.00152.15			O
ANISOU	800	O	ARG	B	27	22792	14438	20580	-1499	-2692	-2303	O
ATOM	801	N	ALA	B	28	77.235	42.372	36.455	1.00148.83			N
ANISOU	801	N	ALA	B	28	22454	14170	19927	-1452	-2679	-2325	N
ATOM	802	CA	ALA	B	28	77.717	41.920	35.163	1.00149.78			C
ANISOU	802	CA	ALA	B	28	22625	14362	19924	-1450	-2652	-2258	C
ATOM	803	CB	ALA	B	28	78.825	40.900	35.326	1.00144.76			C
ANISOU	803	CB	ALA	B	28	22039	13809	19154	-1430	-2640	-2246	C
ATOM	804	C	ALA	B	28	76.579	41.332	34.375	1.00144.61			C
ANISOU	804	C	ALA	B	28	22062	13850	19035	-1416	-2617	-2220	C
ATOM	805	O	ALA	B	28	76.313	41.739	33.253	1.00144.99			O
ANISOU	805	O	ALA	B	28	22109	13885	19094	-1433	-2607	-2175	O
ATOM	806	N	ALA	B	29	75.888	40.374	34.966	1.00144.69			N
ANISOU	806	N	ALA	B	29	22149	13989	18836	-1368	-2596	-2231	N
ATOM	807	CA	ALA	B	29	74.783	39.763	34.241	1.00130.97			C
ANISOU	807	CA	ALA	B	29	20505	12387	16870	-1334	-2557	-2183	C

ATOM	808	CB	ALA	B	29	73.948	38.893	35.157	1.00129.94	C
ANISOU	808	CB	ALA	B	29	20437	12359	16576	-1289 -2537 -2199	C
ATOM	809	C	ALA	B	29	73.925	40.840	33.595	1.00129.10	C
ANISOU	809	C	ALA	B	29	20221	12072	16760	-1361 -2569 -2182	C
ATOM	810	O	ALA	B	29	73.731	40.845	32.374	1.00135.29	O
ANISOU	810	O	ALA	B	29	21041	12897	17465	-1366 -2549 -2125	O
ATOM	811	N	GLY	B	30	73.414	41.755	34.413	1.00133.50	N
ANISOU	811	N	GLY	B	30	20696	12511	17516	-1381 -2601 -2241	N
ATOM	812	CA	GLY	B	30	72.609	42.847	33.903	1.00124.42	C
ANISOU	812	CA	GLY	B	30	19491	11268	16515	-1411 -2612 -2240	C
ATOM	813	C	GLY	B	30	73.409	43.660	32.904	1.00123.02	C
ANISOU	813	C	GLY	B	30	19251	10976	16516	-1461 -2620 -2199	C
ATOM	814	O	GLY	B	30	72.870	44.139	31.914	1.00126.22	O
ANISOU	814	O	GLY	B	30	19651	11363	16944	-1478 -2610 -2158	O
ATOM	815	N	ALA	B	31	74.705	43.801	33.175	1.00128.61	N
ANISOU	815	N	ALA	B	31	19909	11603	17355	-1486 -2637 -2202	N
ATOM	816	CA	ALA	B	31	75.611	44.579	32.335	1.00130.18	C
ANISOU	816	CA	ALA	B	31	20037	11672	17752	-1537 -2645 -2153	C
ATOM	817	CB	ALA	B	31	76.985	44.649	32.970	1.00138.86	C
ANISOU	817	CB	ALA	B	31	21084	12687	18988	-1557 -2667 -2168	C
ATOM	818	C	ALA	B	31	75.726	44.032	30.912	1.00134.23	C
ANISOU	818	C	ALA	B	31	20620	12291	18089	-1530 -2613 -2083	C
ATOM	819	O	ALA	B	31	75.697	44.805	29.948	1.00133.87	O
ANISOU	819	O	ALA	B	31	20527	12156	18182	-1570 -2609 -2031	O
ATOM	820	N	ALA	B	32	75.876	42.712	30.782	1.00132.93	N
ANISOU	820	N	ALA	B	32	20568	12310	17629	-1481 -2587 -2070	N
ATOM	821	CA	ALA	B	32	76.012	42.075	29.468	1.00121.87	C
ANISOU	821	CA	ALA	B	32	19251	11026	16029	-1470 -2555 -1998	C
ATOM	822	CB	ALA	B	32	76.234	40.583	29.610	1.00118.18	C
ANISOU	822	CB	ALA	B	32	18908	10746	15251	-1416 -2523 -1980	C
ATOM	823	C	ALA	B	32	74.786	42.343	28.603	1.00121.64	C
ANISOU	823	C	ALA	B	32	19252	11036	15929	-1468 -2538 -1965	C
ATOM	824	O	ALA	B	32	74.917	42.688	27.424	1.00133.77	O
ANISOU	824	O	ALA	B	32	20782	12550	17495	-1496 -2528 -1908	O
ATOM	825	N	THR	B	33	73.605	42.182	29.200	1.00114.95	N
ANISOU	825	N	THR	B	33	18438	10245	14994	-1437 -2533 -1999	N
ATOM	826	CA	THR	B	33	72.338	42.424	28.520	1.00111.90	C
ANISOU	826	CA	THR	B	33	18082	9898	14536	-1431 -2518 -1975	C
ATOM	827	CB	THR	B	33	71.167	42.414	29.501	1.00110.32	C
ANISOU	827	CB	THR	B	33	17889	9720	14308	-1403 -2523 -2027	C
ATOM	828	OG1	THR	B	33	71.081	41.128	30.125	1.00111.98	O
ANISOU	828	OG1	THR	B	33	18196	10078	14272	-1350 -2497 -2027	O
ATOM	829	CG2	THR	B	33	69.863	42.740	28.779	1.00111.89	C
ANISOU	829	CG2	THR	B	33	18113	9950	14449	-1401 -2508 -2001	C
ATOM	830	C	THR	B	33	72.357	43.762	27.803	1.00116.91	C
ANISOU	830	C	THR	B	33	18611	10365	15446	-1492 -2535 -1954	C
ATOM	831	O	THR	B	33	71.977	43.854	26.637	1.00120.97	O
ANISOU	831	O	THR	B	33	19155	10914	15896	-1502 -2516 -1896	O
ATOM	832	N	VAL	B	34	72.836	44.766	28.511	1.00123.77	N
ANISOU	832	N	VAL	B	34	19358	11048	16622	-1534 -2566 -1989	N
ATOM	833	CA	VAL	B	34	72.944	46.109	27.993	1.00129.28	C
ANISOU	833	CA	VAL	B	34	19940	11547	17632	-1598 -2575 -1950	C
ATOM	834	CB	VAL	B	34	73.453	47.058	29.069	1.00134.06	C
ANISOU	834	CB	VAL	B	34	20429	11960	18547	-1634 -2608 -1984	C
ATOM	835	CG1	VAL	B	34	73.127	48.483	28.683	1.00136.80	C
ANISOU	835	CG1	VAL	B	34	20667	12104	19208	-1691 -2612 -1929	C
ATOM	836	CG2	VAL	B	34	72.823	46.720	30.407	1.00135.57	C
ANISOU	836	CG2	VAL	B	34	20647	12208	18657	-1594 -2625 -2072	C
ATOM	837	C	VAL	B	34	73.906	46.146	26.823	1.00130.33	C
ANISOU	837	C	VAL	B	34	20061	11651	17807	-1631 -2560 -1868	C
ATOM	838	O	VAL	B	34	73.679	46.838	25.843	1.00139.18	O
ANISOU	838	O	VAL	B	34	21138	12688	19053	-1670 -2545 -1798	O
ATOM	839	N	LEU	B	35	74.993	45.405	26.935	1.00127.15	N

ANISOU	839	N	LEU	B	35	19694	11309	17306	-1617	-2560	-1870	N
ATOM	840	CA	LEU	B	35	75.980	45.328	25.863	1.00125.00			C
ANISOU	840	CA	LEU	B	35	19419	11022	17055	-1645	-2545	-1794	C
ATOM	841	CB	LEU	B	35	77.293	44.713	26.365	1.00121.42			C
ANISOU	841	CB	LEU	B	35	18976	10592	16567	-1635	-2555	-1813	C
ATOM	842	CG	LEU	B	35	78.454	44.623	25.357	1.00119.03			C
ANISOU	842	CG	LEU	B	35	18664	10265	16299	-1666	-2542	-1735	C
ATOM	843	CD1	LEU	B	35	78.852	45.983	24.783	1.00118.89			C
ANISOU	843	CD1	LEU	B	35	18509	10010	16655	-1741	-2538	-1647	C
ATOM	844	CD2	LEU	B	35	79.668	43.924	25.957	1.00121.22			C
ANISOU	844	CD2	LEU	B	35	18962	10581	16514	-1650	-2552	-1763	C
ATOM	845	C	LEU	B	35	75.427	44.519	24.684	1.00124.13			C
ANISOU	845	C	LEU	B	35	19426	11092	16644	-1616	-2515	-1747	C
ATOM	846	O	LEU	B	35	75.728	44.816	23.524	1.00119.08			O
ANISOU	846	O	LEU	B	35	18768	10413	16064	-1652	-2499	-1668	O
ATOM	847	N	LEU	B	36	74.574	43.539	24.979	1.00119.80			N
ANISOU	847	N	LEU	B	36	18998	10733	15789	-1555	-2502	-1782	N
ATOM	848	CA	LEU	B	36	73.978	42.705	23.936	1.00114.33			C
ANISOU	848	CA	LEU	B	36	18433	10222	14785	-1523	-2467	-1728	C
ATOM	849	CB	LEU	B	36	73.221	41.521	24.541	1.00108.14			C
ANISOU	849	CB	LEU	B	36	17776	9625	13687	-1454	-2440	-1751	C
ATOM	850	CG	LEU	B	36	72.710	40.523	23.498	1.00 93.90			C
ANISOU	850	CG	LEU	B	36	16118	8011	11549	-1420	-2386	-1676	C
ATOM	851	CD1	LEU	B	36	73.883	39.974	22.701	1.00 86.32			C
ANISOU	851	CD1	LEU	B	36	15203	7102	10495	-1430	-2366	-1619	C
ATOM	852	CD2	LEU	B	36	71.922	39.393	24.141	1.00 82.38			C
ANISOU	852	CD2	LEU	B	36	14769	6703	9830	-1360	-2344	-1676	C
ATOM	853	C	LEU	B	36	73.036	43.509	23.065	1.00106.21			C
ANISOU	853	C	LEU	B	36	17373	9140	13842	-1552	-2461	-1690	C
ATOM	854	O	LEU	B	36	73.206	43.570	21.847	1.00106.75			O
ANISOU	854	O	LEU	B	36	17459	9222	13880	-1577	-2444	-1618	O
ATOM	855	N	VAL	B	37	72.041	44.112	23.710	1.00107.06			N
ANISOU	855	N	VAL	B	37	17435	9185	14058	-1551	-2475	-1737	N
ATOM	856	CA	VAL	B	37	71.044	44.940	23.045	1.00106.59			C
ANISOU	856	CA	VAL	B	37	17336	9061	14102	-1579	-2470	-1706	C
ATOM	857	CB	VAL	B	37	70.042	45.508	24.066	1.00103.16			C
ANISOU	857	CB	VAL	B	37	16853	8562	13782	-1571	-2488	-1773	C
ATOM	858	CG1	VAL	B	37	69.048	46.439	23.398	1.00105.29			C
ANISOU	858	CG1	VAL	B	37	17073	8747	14187	-1604	-2481	-1737	C
ATOM	859	CG2	VAL	B	37	69.298	44.364	24.746	1.00 99.59			C
ANISOU	859	CG2	VAL	B	37	16524	8304	13011	-1499	-2477	-1818	C
ATOM	860	C	VAL	B	37	71.726	46.059	22.247	1.00114.28			C
ANISOU	860	C	VAL	B	37	18185	9832	15405	-1655	-2468	-1630	C
ATOM	861	O	VAL	B	37	71.199	46.518	21.234	1.00122.62			O
ANISOU	861	O	VAL	B	37	19226	10856	16507	-1684	-2449	-1562	O
ATOM	862	N	ILE	B	38	72.919	46.465	22.677	1.00117.40			N
ANISOU	862	N	ILE	B	38	18489	10085	16030	-1688	-2481	-1625	N
ATOM	863	CA	ILE	B	38	73.675	47.472	21.931	1.00121.41			C
ANISOU	863	CA	ILE	B	38	18878	10387	16867	-1760	-2464	-1516	C
ATOM	864	CB	ILE	B	38	74.840	48.072	22.760	1.00124.73			C
ANISOU	864	CB	ILE	B	38	19190	10628	17574	-1793	-2482	-1514	C
ATOM	865	CG1	ILE	B	38	74.314	48.923	23.915	1.00129.08			C
ANISOU	865	CG1	ILE	B	38	19664	11048	18333	-1800	-2507	-1567	C
ATOM	866	CD1	ILE	B	38	75.391	49.310	24.924	1.00133.61			C
ANISOU	866	CD1	ILE	B	38	20161	11490	19116	-1817	-2536	-1586	C
ATOM	867	CG2	ILE	B	38	75.718	48.953	21.884	1.00118.21			C
ANISOU	867	CG2	ILE	B	38	18255	9603	17057	-1861	-2452	-1360	C
ATOM	868	C	ILE	B	38	74.254	46.857	20.651	1.00117.24			C
ANISOU	868	C	ILE	B	38	18411	9952	16184	-1767	-2439	-1435	C
ATOM	869	O	ILE	B	38	74.086	47.417	19.562	1.00114.35			O
ANISOU	869	O	ILE	B	38	18001	9504	15945	-1811	-2408	-1323	O
ATOM	870	N	VAL	B	39	74.898	45.696	20.791	1.00113.72			N
ANISOU	870	N	VAL	B	39	18068	9676	15463	-1724	-2448	-1480	N

ATOM	871	CA	VAL	B	39	75.501	44.972	19.666	1.00112.77	C
ANISOU	871	CA	VAL	B	39	18027	9670	15152	-1725 -2427 -1413	C
ATOM	872	CB	VAL	B	39	76.213	43.680	20.142	1.00107.02	C
ANISOU	872	CB	VAL	B	39	17414	9121	14130	-1669 -2432 -1468	C
ATOM	873	CG1	VAL	B	39	76.714	42.850	18.955	1.00 94.87	C
ANISOU	873	CG1	VAL	B	39	15979	7724	12345	-1665 -2405 -1398	C
ATOM	874	CG2	VAL	B	39	77.368	44.026	21.063	1.00110.81	C
ANISOU	874	CG2	VAL	B	39	17795	9459	14848	-1690 -2455 -1499	C
ATOM	875	C	VAL	B	39	74.473	44.615	18.589	1.00110.71	C
ANISOU	875	C	VAL	B	39	17865	9551	14650	-1711 -2403 -1371	C
ATOM	876	O	VAL	B	39	74.780	44.640	17.390	1.00107.89	O
ANISOU	876	O	VAL	B	39	17514	9191	14287	-1746 -2380 -1275	O
ATOM	877	N	LEU	B	40	73.258	44.273	19.008	1.00104.81	N
ANISOU	877	N	LEU	B	40	17196	8924	13703	-1663 -2405 -1432	N
ATOM	878	CA	LEU	B	40	72.212	43.962	18.047	1.00 95.27	C
ANISOU	878	CA	LEU	B	40	16085	7850	12262	-1649 -2380 -1392	C
ATOM	879	CB	LEU	B	40	70.924	43.514	18.734	1.00 84.30	C
ANISOU	879	CB	LEU	B	40	14780	6589	10662	-1589 -2376 -1457	C
ATOM	880	CG	LEU	B	40	70.958	42.262	19.608	1.00 80.28	C
ANISOU	880	CG	LEU	B	40	14387	6248	9868	-1519 -2358 -1503	C
ATOM	881	CD1	LEU	B	40	69.562	41.984	20.142	1.00 80.68	C
ANISOU	881	CD1	LEU	B	40	14499	6387	9771	-1473 -2342 -1535	C
ATOM	882	CD2	LEU	B	40	71.496	41.077	18.840	1.00 71.80	C
ANISOU	882	CD2	LEU	B	40	13448	5350	8485	-1494 -2310 -1441	C
ATOM	883	C	LEU	B	40	71.947	45.183	17.182	1.00104.68	C
ANISOU	883	C	LEU	B	40	17156	8856	13763	-1721 -2372 -1304	C
ATOM	884	O	LEU	B	40	71.942	45.091	15.958	1.00114.64	O
ANISOU	884	O	LEU	B	40	18452	10157	14950	-1747 -2347 -1215	O
ATOM	885	N	LEU	B	41	71.742	46.326	17.821	1.00109.36	N
ANISOU	885	N	LEU	B	41	17605	9235	14713	-1755 -2382 -1309	N
ATOM	886	CA	LEU	B	41	71.473	47.558	17.088	1.00113.88	C
ANISOU	886	CA	LEU	B	41	18046	9593	15629	-1824 -2350 -1184	C
ATOM	887	CB	LEU	B	41	71.206	48.709	18.063	1.00118.45	C
ANISOU	887	CB	LEU	B	41	18491	9957	16557	-1848 -2355 -1199	C
ATOM	888	CG	LEU	B	41	70.078	48.530	19.079	1.00111.89	C
ANISOU	888	CG	LEU	B	41	17712	9222	15579	-1798 -2389 -1338	C
ATOM	889	CD1	LEU	B	41	69.958	49.775	19.931	1.00113.22	C
ANISOU	889	CD1	LEU	B	41	17742	9157	16120	-1833 -2393 -1331	C
ATOM	890	CD2	LEU	B	41	68.753	48.215	18.405	1.00101.91	C
ANISOU	890	CD2	LEU	B	41	16541	8104	14077	-1773 -2380 -1339	C
ATOM	891	C	LEU	B	41	72.636	47.920	16.158	1.00115.70	C
ANISOU	891	C	LEU	B	41	18195	9683	16083	-1884 -2309 -1023	C
ATOM	892	O	LEU	B	41	72.423	48.275	14.995	1.00116.31	O
ANISOU	892	O	LEU	B	41	18243	9701	16247	-1924 -2260 -871	O
ATOM	893	N	ALA	B	42	73.859	47.804	16.672	1.00118.26	N
ANISOU	893	N	ALA	B	42	18483	9953	16499	-1888 -2320 -1038	N
ATOM	894	CA	ALA	B	42	75.064	48.098	15.901	1.00114.03	C
ANISOU	894	CA	ALA	B	42	17869	9282	16175	-1939 -2276 -874	C
ATOM	895	CB	ALA	B	42	76.292	48.022	16.782	1.00117.36	C
ANISOU	895	CB	ALA	B	42	18251	9645	16697	-1937 -2302 -925	C
ATOM	896	C	ALA	B	42	75.196	47.139	14.730	1.00117.33	C
ANISOU	896	C	ALA	B	42	18404	9885	16291	-1932 -2263 -831	C
ATOM	897	O	ALA	B	42	75.440	47.553	13.593	1.00117.45	O
ANISOU	897	O	ALA	B	42	18358	9793	16473	-1980 -2199 -626	O
ATOM	898	N	GLY	B	43	75.040	45.854	15.029	1.00117.20	N
ANISOU	898	N	GLY	B	43	18558	10142	15829	-1867 -2309 -989	N
ATOM	899	CA	GLY	B	43	75.122	44.809	14.025	1.00112.25	C
ANISOU	899	CA	GLY	B	43	18081	9733	14837	-1850 -2300 -968	C
ATOM	900	C	GLY	B	43	74.035	44.941	12.977	1.00108.40	C
ANISOU	900	C	GLY	B	43	17636	9299	14251	-1867 -2274 -893	C
ATOM	901	O	GLY	B	43	74.306	44.786	11.786	1.00111.05	O
ANISOU	901	O	GLY	B	43	17994	9656	14542	-1905 -2239 -767	O
ATOM	902	N	SER	B	44	72.809	45.224	13.422	1.00103.75	N

ANISOU	902	N	SER	B	44	17058	8731	13634	-1843	-2287	-961	N
ATOM	903	CA	SER	B	44	71.679	45.434	12.518	1.00106.34			C
ANISOU	903	CA	SER	B	44	17419	9099	13887	-1860	-2263	-896	C
ATOM	904	CB	SER	B	44	70.418	45.834	13.291	1.00106.69			C
ANISOU	904	CB	SER	B	44	17453	9136	13947	-1829	-2283	-987	C
ATOM	905	OG	SER	B	44	69.653	44.700	13.656	1.00	94.06		O
ANISOU	905	OG	SER	B	44	16038	7815	11885	-1748	-2295	-1106	O
ATOM	906	C	SER	B	44	71.981	46.491	11.467	1.00115.69			C
ANISOU	906	C	SER	B	44	18444	10028	15485	-1944	-2196	-650	C
ATOM	907	O	SER	B	44	71.754	46.271	10.274	1.00114.23			O
ANISOU	907	O	SER	B	44	18309	9903	15188	-1970	-2157	-522	O
ATOM	908	N	TYR	B	45	72.462	47.647	11.921	1.00118.77			N
ANISOU	908	N	TYR	B	45	18644	10129	16353	-1980	-2158	-539	N
ATOM	909	CA	TYR	B	45	72.818	48.743	11.027	1.00124.85			C
ANISOU	909	CA	TYR	B	45	19249	10629	17561	-2035	-2042	-199	C
ATOM	910	CB	TYR	B	45	73.201	49.998	11.819	1.00135.37			C
ANISOU	910	CB	TYR	B	45	20412	11686	19336	-2055	-2009	-113	C
ATOM	911	CG	TYR	B	45	73.623	51.175	10.952	1.00153.08			C
ANISOU	911	CG	TYR	B	45	22501	13669	21991	-2083	-1871	306	C
ATOM	912	CD1	TYR	B	45	74.922	51.270	10.447	1.00158.39			C
ANISOU	912	CD1	TYR	B	45	23131	14239	22810	-2098	-1851	551	C
ATOM	913	CE1	TYR	B	45	75.310	52.339	9.649	1.00167.87			C
ANISOU	913	CE1	TYR	B	45	24237	15196	24349	-2125	-1907	1038	C
ATOM	914	CZ	TYR	B	45	74.401	53.338	9.351	1.00175.10			C
ANISOU	914	CZ	TYR	B	45	25072	15990	25467	-2125	-1909	1261	C
ATOM	915	OH	TYR	B	45	74.800	54.400	8.562	1.00179.56			O
ANISOU	915	OH	TYR	B	45	25471	16381	26374	-2125	-1953	1774	O
ATOM	916	CE2	TYR	B	45	73.107	53.273	9.842	1.00169.63			C
ANISOU	916	CE2	TYR	B	45	24429	15383	24638	-2112	-1861	986	C
ATOM	917	CD2	TYR	B	45	72.724	52.193	10.638	1.00162.57			C
ANISOU	917	CD2	TYR	B	45	23627	14737	23407	-2086	-1804	503	C
ATOM	918	C	TYR	B	45	73.961	48.336	10.103	1.00121.24			C
ANISOU	918	C	TYR	B	45	18867	10133	17064	-2074	-2088	20	C
ATOM	919	O	TYR	B	45	73.921	48.611	8.904	1.00135.09			O
ANISOU	919	O	TYR	B	45	20769	11729	18831	-2155	-2260	412	O
ATOM	920	N	LEU	B	46	74.995	47.724	10.670	1.00113.95			N
ANISOU	920	N	LEU	B	46	17908	9316	16073	-2042	-2041	-153	N
ATOM	921	CA	LEU	B	46	76.144	47.314	9.875	1.00117.73			C
ANISOU	921	CA	LEU	B	46	18508	9739	16486	-2092	-2148	58	C
ATOM	922	CB	LEU	B	46	77.295	46.866	10.779	1.00122.37			C
ANISOU	922	CB	LEU	B	46	18988	10412	17095	-2046	-2055	-158	C
ATOM	923	CG	LEU	B	46	78.016	47.978	11.543	1.00131.24			C
ANISOU	923	CG	LEU	B	46	19939	11266	18659	-2065	-2024	-68	C
ATOM	924	CD1	LEU	B	46	79.040	47.402	12.501	1.00121.39			C
ANISOU	924	CD1	LEU	B	46	18727	10081	17317	-2048	-2098	-265	C
ATOM	925	CD2	LEU	B	46	78.691	48.928	10.562	1.00139.32			C
ANISOU	925	CD2	LEU	B	46	20830	12047	20056	-2097	-1910	366	C
ATOM	926	C	LEU	B	46	75.807	46.211	8.878	1.00116.87			C
ANISOU	926	C	LEU	B	46	18772	9805	15829	-2142	-2350	92	C
ATOM	927	O	LEU	B	46	76.458	46.092	7.842	1.00121.74			O
ANISOU	927	O	LEU	B	46	19565	10315	16374	-2232	-2488	423	O
ATOM	928	N	ALA	B	47	74.784	45.419	9.180	1.00114.90			N
ANISOU	928	N	ALA	B	47	18634	9848	15175	-2081	-2329	-211	N
ATOM	929	CA	ALA	B	47	74.386	44.337	8.286	1.00112.64			C
ANISOU	929	CA	ALA	B	47	18752	9774	14274	-2123	-2465	-216	C
ATOM	930	CB	ALA	B	47	73.435	43.387	8.992	1.00	99.09		C
ANISOU	930	CB	ALA	B	47	16985	8463	12201	-1978	-2323	-575	C
ATOM	931	C	ALA	B	47	73.743	44.894	7.015	1.00113.37			C
ANISOU	931	C	ALA	B	47	19097	9658	14323	-2267	-2631	170	C
ATOM	932	O	ALA	B	47	74.108	44.500	5.907	1.00112.91			O
ANISOU	932	O	ALA	B	47	19346	9573	13982	-2385	-2746	450	O
ATOM	933	N	VAL	B	48	72.795	45.816	7.179	1.00115.54			N
ANISOU	933	N	VAL	B	48	19209	9798	14892	-2257	-2604	241	N

ATOM	934	CA	VAL	B	48	72.131	46.435	6.036	1.00114.76	C
ANISOU	934	CA	VAL	B	48	19243	9526	14835	-2365 -2711 696	C
ATOM	935	CB	VAL	B	48	71.049	47.440	6.469	1.00118.53	C
ANISOU	935	CB	VAL	B	48	19488	9888	15660	-2320 -2650 688	C
ATOM	936	CG1	VAL	B	48	70.565	48.243	5.277	1.00130.37	C
ANISOU	936	CG1	VAL	B	48	20986	11226	17324	-2393 -2713 1301	C
ATOM	937	CG2	VAL	B	48	69.886	46.730	7.132	1.00121.18	C
ANISOU	937	CG2	VAL	B	48	19937	10512	15593	-2246 -2607 203	C
ATOM	938	C	VAL	B	48	73.145	47.160	5.170	1.00120.74	C
ANISOU	938	C	VAL	B	48	19839	10065	15974	-2414 -2728 1325	C
ATOM	939	O	VAL	B	48	73.147	47.024	3.951	1.00128.66	O
ANISOU	939	O	VAL	B	48	20990	11139	16757	-2469 -2775 1834	O
ATOM	940	N	LEU	B	49	74.015	47.922	5.819	1.00124.28	N
ANISOU	940	N	LEU	B	49	19929	10339	16953	-2353 -2633 1341	N
ATOM	941	CA	LEU	B	49	75.048	48.682	5.130	1.00131.87	C
ANISOU	941	CA	LEU	B	49	20638	11150	18316	-2350 -2604 1920	C
ATOM	942	CB	LEU	B	49	75.778	49.585	6.121	1.00143.60	C
ANISOU	942	CB	LEU	B	49	21783	12443	20334	-2282 -2463 1784	C
ATOM	943	CG	LEU	B	49	76.974	50.354	5.566	1.00160.28	C
ANISOU	943	CG	LEU	B	49	23627	14429	22844	-2258 -2414 2296	C
ATOM	944	CD1	LEU	B	49	76.538	51.559	4.724	1.00166.96	C
ANISOU	944	CD1	LEU	B	49	24200	15209	24029	-2219 -2377 2882	C
ATOM	945	CD2	LEU	B	49	77.864	50.783	6.731	1.00166.23	C
ANISOU	945	CD2	LEU	B	49	24214	15055	23891	-2217 -2281 1986	C
ATOM	946	C	LEU	B	49	76.036	47.787	4.381	1.00127.93	C
ANISOU	946	C	LEU	B	49	20331	10789	17489	-2393 -2668 2129	C
ATOM	947	O	LEU	B	49	76.412	48.086	3.244	1.00132.64	O
ANISOU	947	O	LEU	B	49	20801	11469	18127	-2380 -2657 2777	O
ATOM	948	N	ALA	B	50	76.468	46.704	5.015	1.00124.02	N
ANISOU	948	N	ALA	B	50	20076	10402	16645	-2411 -2697 1614	N
ATOM	949	CA	ALA	B	50	77.423	45.801	4.386	1.00123.62	C
ANISOU	949	CA	ALA	B	50	20246	10480	16245	-2459 -2745 1756	C
ATOM	950	CB	ALA	B	50	77.993	44.819	5.427	1.00119.45	C
ANISOU	950	CB	ALA	B	50	19842	10065	15479	-2432 -2736 1110	C
ATOM	951	C	ALA	B	50	76.813	45.035	3.208	1.00120.58	C
ANISOU	951	C	ALA	B	50	20113	10498	15204	-2454 -2734 1985	C
ATOM	952	O	ALA	B	50	77.510	44.696	2.255	1.00121.98	O
ANISOU	952	O	ALA	B	50	20119	11102	15126	-2343 -2617 2319	O
ATOM	953	N	GLU	B	51	75.517	44.744	3.292	1.00120.84	N
ANISOU	953	N	GLU	B	51	20340	10669	14905	-2458 -2744 1704	N
ATOM	954	CA	GLU	B	51	74.838	43.945	2.269	1.00114.90	C
ANISOU	954	CA	GLU	B	51	19625	10595	13436	-2332 -2618 1752	C
ATOM	955	CB	GLU	B	51	73.792	43.032	2.922	1.00110.92	C
ANISOU	955	CB	GLU	B	51	19565	10131	12450	-2403 -2695 1095	C
ATOM	956	CG	GLU	B	51	74.336	42.091	4.007	1.00100.67	C
ANISOU	956	CG	GLU	B	51	18674	8575	11001	-2532 -2822 463	C
ATOM	957	CD	GLU	B	51	74.968	40.824	3.459	1.00 91.81	C
ANISOU	957	CD	GLU	B	51	17695	7949	9240	-2467 -2746 348	C
ATOM	958	OE1	GLU	B	51	74.234	39.989	2.884	1.00 88.35	O
ANISOU	958	OE1	GLU	B	51	17403	8017	8148	-2395 -2672 211	O
ATOM	959	OE2	GLU	B	51	76.194	40.648	3.636	1.00 87.34	O
ANISOU	959	OE2	GLU	B	51	17105	7256	8822	-2492 -2764 380	O
ATOM	960	C	GLU	B	51	74.164	44.737	1.142	1.00125.89	C
ANISOU	960	C	GLU	B	51	20647	12311	14876	-2200 -2486 2337	C
ATOM	961	O	GLU	B	51	74.294	44.367	-0.014	1.00129.97	O
ANISOU	961	O	GLU	B	51	21003	13391	14989	-2066 -2345 2668	O
ATOM	962	N	ARG	B	52	73.412	45.786	1.475	1.00131.69	N
ANISOU	962	N	ARG	B	52	21256	12702	16078	-2237 -2532 2451	N
ATOM	963	CA	ARG	B	52	72.656	46.555	0.468	1.00137.87	C
ANISOU	963	CA	ARG	B	52	21703	13772	16911	-2118 -2413 2977	C
ATOM	964	CB	ARG	B	52	72.128	47.870	1.059	1.00141.01	C
ANISOU	964	CB	ARG	B	52	21946	13633	17999	-2186 -2488 3105	C
ATOM	965	CG	ARG	B	52	70.621	47.895	1.186	1.00142.72	C

ANISOU	965	CG	ARG	B	52	22305	13909	18015	-2195	-2504	2887	C
ATOM	966	CD	ARG	B	52	70.060	49.302	1.301	1.00155.13			C
ANISOU	966	CD	ARG	B	52	23601	15121	20219	-2208	-2519	3219	C
ATOM	967	NE	ARG	B	52	68.600	49.275	1.186	1.00165.17			N
ANISOU	967	NE	ARG	B	52	24973	16562	21222	-2189	-2505	3083	N
ATOM	968	CZ	ARG	B	52	67.926	49.502	0.056	1.00175.63			C
ANISOU	968	CZ	ARG	B	52	26059	18357	22317	-2055	-2370	3499	C
ATOM	969	NH1	ARG	B	52	68.576	49.787	-1.067	1.00180.32			N
ANISOU	969	NH1	ARG	B	52	26294	19298	22920	-1929	-2237	4085	N
ATOM	970	NH2	ARG	B	52	66.598	49.441	0.046	1.00171.73			N
ANISOU	970	NH2	ARG	B	52	25684	17987	21578	-2049	-2368	3330	N
ATOM	971	C	ARG	B	52	73.410	46.891	-0.816	1.00143.34			C
ANISOU	971	C	ARG	B	52	21985	14855	17621	-1973	-2261	3650	C
ATOM	972	O	ARG	B	52	74.548	47.363	-0.788	1.00149.45			O
ANISOU	972	O	ARG	B	52	22559	15410	18816	-1980	-2266	3923	O
ATOM	973	N	GLY	B	53	72.755	46.618	-1.940	1.00145.93			N
ANISOU	973	N	GLY	B	53	22198	15773	17476	-1843	-2125	3906	N
ATOM	974	CA	GLY	B	53	73.314	46.886	-3.248	1.00153.03			C
ANISOU	974	CA	GLY	B	53	22714	17106	18325	-1697	-1969	4544	C
ATOM	975	C	GLY	B	53	74.199	45.758	-3.723	1.00154.70			C
ANISOU	975	C	GLY	B	53	23031	17726	18021	-1647	-1906	4473	C
ATOM	976	O	GLY	B	53	74.727	45.800	-4.837	1.00159.53			O
ANISOU	976	O	GLY	B	53	23358	18749	18507	-1525	-1773	4963	O
ATOM	977	N	ALA	B	54	74.360	44.737	-2.888	1.00142.03			N
ANISOU	977	N	ALA	B	54	21837	16016	16110	-1740	-2000	3862	N
ATOM	978	CA	ALA	B	54	75.159	43.597	-3.294	1.00135.30			C
ANISOU	978	CA	ALA	B	54	21115	15554	14739	-1697	-1942	3753	C
ATOM	979	CB	ALA	B	54	75.772	42.893	-2.107	1.00130.73			C
ANISOU	979	CB	ALA	B	54	20905	14609	14159	-1832	-2080	3165	C
ATOM	980	C	ALA	B	54	74.248	42.668	-4.056	1.00133.63			C
ANISOU	980	C	ALA	B	54	21046	15965	13761	-1611	-1842	3639	C
ATOM	981	O	ALA	B	54	73.028	42.801	-3.982	1.00137.87			O
ANISOU	981	O	ALA	B	54	21665	16537	14181	-1616	-1852	3508	O
ATOM	982	N	PRO	B	55	74.841	41.732	-4.804	1.00132.66			N
ANISOU	982	N	PRO	B	55	20950	16338	13115	-1531	-1741	3696	N
ATOM	983	CA	PRO	B	55	74.095	40.733	-5.573	1.00128.27			C
ANISOU	983	CA	PRO	B	55	20541	16413	11782	-1447	-1637	3583	C
ATOM	984	CB	PRO	B	55	75.104	40.298	-6.653	1.00123.04			C
ANISOU	984	CB	PRO	B	55	19652	16223	10874	-1318	-1486	3947	C
ATOM	985	CG	PRO	B	55	76.032	41.432	-6.781	1.00129.49			C
ANISOU	985	CG	PRO	B	55	20115	16733	12350	-1320	-1496	4480	C
ATOM	986	CD	PRO	B	55	76.172	41.968	-5.393	1.00133.22			C
ANISOU	986	CD	PRO	B	55	20733	16485	13398	-1469	-1672	4147	C
ATOM	987	C	PRO	B	55	73.663	39.535	-4.742	1.00119.73			C
ANISOU	987	C	PRO	B	55	19891	15323	10277	-1511	-1700	2809	C
ATOM	988	O	PRO	B	55	74.479	39.004	-3.997	1.00114.62			O
ANISOU	988	O	PRO	B	55	19465	14432	9653	-1597	-1787	2468	O
ATOM	989	N	GLY	B	56	72.406	39.152	-4.882	1.00117.16			N
ANISOU	989	N	GLY	B	56	19512	15252	9752	-1415	-1602	2491	N
ATOM	990	CA	GLY	B	56	71.845	38.041	-4.162	1.00114.30			C
ANISOU	990	CA	GLY	B	56	19248	14889	9291	-1390	-1565	1720	C
ATOM	991	C	GLY	B	56	71.843	38.144	-2.664	1.00101.24			C
ANISOU	991	C	GLY	B	56	18016	12593	7860	-1614	-1786	1271	C
ATOM	992	O	GLY	B	56	72.077	37.169	-1.991	1.00 99.06			O
ANISOU	992	O	GLY	B	56	17736	12227	7674	-1596	-1733	743	O
ATOM	993	N	ALA	B	57	71.562	39.316	-2.135	1.00100.02			N
ANISOU	993	N	ALA	B	57	18151	11970	7883	-1795	-2019	1524	N
ATOM	994	CA	ALA	B	57	71.528	39.486	-0.709	1.00 89.39			C
ANISOU	994	CA	ALA	B	57	17143	9991	6832	-1975	-2228	1067	C
ATOM	995	CB	ALA	B	57	72.477	40.567	-0.303	1.00100.50			C
ANISOU	995	CB	ALA	B	57	18289	10879	9017	-2024	-2286	1368	C
ATOM	996	C	ALA	B	57	70.151	39.890	-0.332	1.00 99.68			C
ANISOU	996	C	ALA	B	57	18539	11147	8187	-2013	-2281	887	C

ATOM	997	O	ALA	B	57	69.475	40.509	-1.115	1.00108.26	O		
ANISOU	997	O	ALA	B	57	19367	12460	9306	-1924	-2189	1295	O
ATOM	998	N	GLN	B	58	69.752	39.538	0.882	1.00106.79	N		
ANISOU	998	N	GLN	B	58	19640	11653	9281	-2102	-2348	277	N
ATOM	999	CA	GLN	B	58	68.433	39.868	1.387	1.00107.94	C		
ANISOU	999	CA	GLN	B	58	19804	11615	9593	-2117	-2355	68	C
ATOM	1000	CB	GLN	B	58	67.672	38.595	1.694	1.00104.31	C		
ANISOU	1000	CB	GLN	B	58	18884	11450	9298	-1871	-1997	-297	C
ATOM	1001	CG	GLN	B	58	68.438	37.631	2.568	1.00	98.24	C	
ANISOU	1001	CG	GLN	B	58	17854	10643	8829	-1757	-1847	-528	C
ATOM	1002	CD	GLN	B	58	69.223	36.628	1.765	1.00	95.50	C	
ANISOU	1002	CD	GLN	B	58	17286	10723	8277	-1642	-1702	-514	C
ATOM	1003	OE1	GLN	B	58	68.827	36.242	0.677	1.00114.21	O		
ANISOU	1003	OE1	GLN	B	58	19450	13575	10370	-1524	-1588	-425	O
ATOM	1004	NE2	GLN	B	58	70.337	36.196	2.304	1.00	93.70	N	
ANISOU	1004	NE2	GLN	B	58	17030	10365	8206	-1641	-1692	-583	N
ATOM	1005	C	GLN	B	58	68.383	40.769	2.611	1.00101.61	C		
ANISOU	1005	C	GLN	B	58	19225	10102	9281	-2303	-2599	-116	C
ATOM	1006	O	GLN	B	58	67.310	41.193	3.009	1.00104.16	O		
ANISOU	1006	O	GLN	B	58	19498	10284	9797	-2290	-2588	-201	O
ATOM	1007	N	LEU	B	59	69.523	41.061	3.216	1.00	97.15	N	
ANISOU	1007	N	LEU	B	59	18700	9108	9104	-2409	-2720	-145	N
ATOM	1008	CA	LEU	B	59	69.523	41.915	4.384	1.00	98.32	C	
ANISOU	1008	CA	LEU	B	59	18559	8821	9976	-2370	-2716	-183	C
ATOM	1009	CB	LEU	B	59	70.769	41.654	5.221	1.00	95.76	C	
ANISOU	1009	CB	LEU	B	59	17964	8479	9943	-2260	-2632	-279	C
ATOM	1010	CG	LEU	B	59	70.874	40.354	5.993	1.00	75.38	C	
ANISOU	1010	CG	LEU	B	59	15072	6332	7237	-2006	-2347	-541	C
ATOM	1011	CD1	LEU	B	59	72.198	40.294	6.702	1.00	73.72	C	
ANISOU	1011	CD1	LEU	B	59	14657	6039	7313	-1966	-2325	-593	C
ATOM	1012	CD2	LEU	B	59	69.779	40.321	7.015	1.00	65.23	C	
ANISOU	1012	CD2	LEU	B	59	13385	5210	6190	-1829	-2165	-733	C
ATOM	1013	C	LEU	B	59	69.535	43.312	3.843	1.00	97.08	C	
ANISOU	1013	C	LEU	B	59	18286	8258	10341	-2495	-2816	321	C
ATOM	1014	O	LEU	B	59	70.448	44.066	4.067	1.00103.10	O		
ANISOU	1014	O	LEU	B	59	18835	8664	11673	-2527	-2844	585	O
ATOM	1015	N	ILE	B	60	68.499	43.656	3.108	1.00107.34	N		
ANISOU	1015	N	ILE	B	60	19435	9861	11489	-2405	-2728	581	N
ATOM	1016	CA	ILE	B	60	68.422	44.965	2.496	1.00115.40	C		
ANISOU	1016	CA	ILE	B	60	20013	10812	13020	-2336	-2657	1214	C
ATOM	1017	CB	ILE	B	60	67.992	44.851	1.039	1.00120.91	C		
ANISOU	1017	CB	ILE	B	60	20471	12185	13285	-2165	-2479	1674	C
ATOM	1018	CG1	ILE	B	60	66.614	44.241	0.952	1.00102.32	C		
ANISOU	1018	CG1	ILE	B	60	18361	10132	10384	-2150	-2468	1352	C
ATOM	1019	CD1	ILE	B	60	66.181	44.020	-0.468	1.00103.52	C		
ANISOU	1019	CD1	ILE	B	60	18306	10971	10055	-1987	-2293	1767	C
ATOM	1020	CG2	ILE	B	60	68.959	43.974	0.276	1.00106.92	C		
ANISOU	1020	CG2	ILE	B	60	18676	10877	11073	-2081	-2382	1799	C
ATOM	1021	C	ILE	B	60	67.548	45.983	3.197	1.00114.10	C		
ANISOU	1021	C	ILE	B	60	19817	10166	13370	-2416	-2745	1167	C
ATOM	1022	O	ILE	B	60	67.378	47.087	2.722	1.00117.84	O		
ANISOU	1022	O	ILE	B	60	19935	10572	14266	-2361	-2689	1673	O
ATOM	1023	N	THR	B	61	66.989	45.617	4.326	1.00106.11	N		
ANISOU	1023	N	THR	B	61	19130	8870	12317	-2521	-2865	558	N
ATOM	1024	CA	THR	B	61	66.162	46.572	5.074	1.00113.18	C		
ANISOU	1024	CA	THR	B	61	19688	9652	13663	-2434	-2817	468	C
ATOM	1025	CB	THR	B	61	64.630	46.487	4.762	1.00	99.95	C	
ANISOU	1025	CB	THR	B	61	18225	8095	11658	-2458	-2839	392	C
ATOM	1026	OG1	THR	B	61	64.014	45.497	5.584	1.00	97.81	O	
ANISOU	1026	OG1	THR	B	61	17941	8249	10974	-2293	-2723	-144	O
ATOM	1027	CG2	THR	B	61	64.375	46.166	3.325	1.00104.68	C		
ANISOU	1027	CG2	THR	B	61	18867	9125	11783	-2417	-2764	802	C
ATOM	1028	C	THR	B	61	66.363	46.364	6.569	1.00116.73	C		

ANISOU	1028	C	THR	B	61	19799	10275	14280	-2251	-2669	-17	C
ATOM	1029	O	THR	B	61	66.785	45.295	7.011	1.00110.46			O
ANISOU	1029	O	THR	B	61	19024	9784	13163	-2154	-2583	-297	O
ATOM	1030	N	TYR	B	62	66.112	47.445	7.294	1.00136.90			N
ANISOU	1030	N	TYR	B	62	19644	12950	19424	-259	-971	-390	N
ATOM	1031	CA	TYR	B	62	66.287	47.542	8.732	1.00140.30			C
ANISOU	1031	CA	TYR	B	62	19944	13504	19858	-86	-998	-566	C
ATOM	1032	CB	TYR	B	62	66.182	49.025	9.107	1.00156.27			C
ANISOU	1032	CB	TYR	B	62	22012	15355	22011	-51	-1155	-679	C
ATOM	1033	CG	TYR	B	62	67.300	49.903	8.534	1.00175.70			C
ANISOU	1033	CG	TYR	B	62	24543	17649	24567	-249	-1183	-696	C
ATOM	1034	CD1	TYR	B	62	68.505	50.066	9.211	1.00183.57			C
ANISOU	1034	CD1	TYR	B	62	25458	18699	25590	-277	-1160	-825	C
ATOM	1035	CE1	TYR	B	62	69.512	50.860	8.698	1.00191.54			C
ANISOU	1035	CE1	TYR	B	62	26531	19559	26686	-456	-1186	-841	C
ATOM	1036	CZ	TYR	B	62	69.337	51.497	7.483	1.00196.61			C
ANISOU	1036	CZ	TYR	B	62	27319	19994	27388	-612	-1234	-725	C
ATOM	1037	OH	TYR	B	62	70.346	52.287	6.966	1.00202.71			O
ANISOU	1037	OH	TYR	B	62	28155	20617	28248	-792	-1259	-739	O
ATOM	1038	CE2	TYR	B	62	68.156	51.345	6.789	1.00191.96			C
ANISOU	1038	CE2	TYR	B	62	26814	19349	26774	-589	-1257	-596	C
ATOM	1039	CD2	TYR	B	62	67.148	50.552	7.314	1.00184.73			C
ANISOU	1039	CD2	TYR	B	62	25834	18584	25772	-409	-1232	-583	C
ATOM	1040	C	TYR	B	62	65.383	46.704	9.630	1.00126.56			C
ANISOU	1040	C	TYR	B	62	18101	11958	18028	134	-971	-594	C
ATOM	1041	O	TYR	B	62	65.875	45.976	10.466	1.00126.82			O
ANISOU	1041	O	TYR	B	62	18009	12177	17998	211	-893	-671	O
ATOM	1042	N	PRO	B	63	64.077	46.736	9.439	1.00116.43			N
ANISOU	1042	N	PRO	B	63	16867	10639	16733	233	-1027	-528	N
ATOM	1043	CA	PRO	B	63	63.220	45.874	10.268	1.00112.89			C
ANISOU	1043	CA	PRO	B	63	16319	10382	16194	440	-993	-548	C
ATOM	1044	CB	PRO	B	63	61.813	46.203	9.778	1.00116.31			C
ANISOU	1044	CB	PRO	B	63	16844	10707	16640	503	-1077	-459	C
ATOM	1045	CG	PRO	B	63	61.996	46.570	8.365	1.00131.18			C
ANISOU	1045	CG	PRO	B	63	18870	12405	18565	291	-1081	-324	C
ATOM	1046	CD	PRO	B	63	63.304	47.330	8.353	1.00126.20			C
ANISOU	1046	CD	PRO	B	63	18250	11681	18018	152	-1099	-407	C
ATOM	1047	C	PRO	B	63	63.540	44.386	10.098	1.00108.85			C
ANISOU	1047	C	PRO	B	63	15738	10063	15555	411	-831	-465	C
ATOM	1048	O	PRO	B	63	63.151	43.544	10.916	1.00 95.76			O
ANISOU	1048	O	PRO	B	63	13972	8598	13815	571	-779	-502	O
ATOM	1049	N	ARG	B	64	64.249	44.087	9.014	1.00112.11			N
ANISOU	1049	N	ARG	B	64	16218	10422	15955	204	-753	-352	N
ATOM	1050	CA	ARG	B	64	64.668	42.737	8.684	1.00102.56			C
ANISOU	1050	CA	ARG	B	64	14961	9375	14633	142	-598	-262	C
ATOM	1051	CB	ARG	B	64	64.871	42.574	7.181	1.00101.64			C
ANISOU	1051	CB	ARG	B	64	14967	9140	14512	-73	-549	-90	C
ATOM	1052	CG	ARG	B	64	63.661	42.462	6.285	1.00 94.98			C
ANISOU	1052	CG	ARG	B	64	14225	8213	13650	-74	-575	61	C
ATOM	1053	CD	ARG	B	64	64.212	42.271	4.885	1.00102.56			C
ANISOU	1053	CD	ARG	B	64	15289	9073	14606	-307	-510	210	C
ATOM	1054	NE	ARG	B	64	63.254	41.764	3.913	1.00106.90			N
ANISOU	1054	NE	ARG	B	64	15921	9589	15105	-334	-486	379	N
ATOM	1055	CZ	ARG	B	64	63.600	41.313	2.712	1.00103.16			C
ANISOU	1055	CZ	ARG	B	64	15525	9070	14602	-515	-409	526	C
ATOM	1056	NH1	ARG	B	64	64.858	41.402	2.306	1.00 96.56			N
ANISOU	1056	NH1	ARG	B	64	14701	8198	13788	-689	-358	524	N
ATOM	1057	NH2	ARG	B	64	62.693	40.751	1.927	1.00107.40			N
ANISOU	1057	NH2	ARG	B	64	16123	9600	15085	-521	-381	674	N
ATOM	1058	C	ARG	B	64	65.973	42.390	9.360	1.00 96.57			C
ANISOU	1058	C	ARG	B	64	14095	8744	13855	114	-520	-369	C
ATOM	1059	O	ARG	B	64	66.127	41.309	9.912	1.00 93.49			O
ANISOU	1059	O	ARG	B	64	13597	8559	13367	191	-418	-383	O

ATOM	1060	N	ALA	B	65	66.929	43.306	9.285	1.00102.89	N
ANISOU	1060	N	ALA	B	65	14927	9419	14747	-3 -567 -440	N
ATOM	1061	CA	ALA	B	65	68.231	43.082	9.894	1.00103.22	C
ANISOU	1061	CA	ALA	B	65	14874	9566	14780	-42 -499 -546	C
ATOM	1062	CB	ALA	B	65	69.195	44.185	9.515	1.00107.10	C
ANISOU	1062	CB	ALA	B	65	15433	9877	15382	-203 -559 -592	C
ATOM	1063	C	ALA	B	65	68.114	42.974	11.411	1.00108.64	C
ANISOU	1063	C	ALA	B	65	15420	10410	15448	174 -519 -711	C
ATOM	1064	O	ALA	B	65	68.981	42.396	12.071	1.00115.57	O
ANISOU	1064	O	ALA	B	65	16190	11442	16280	190 -436 -789	O
ATOM	1065	N	LEU	B	66	67.031	43.520	11.959	1.00104.81	N
ANISOU	1065	N	LEU	B	66	14937	9889	14998	342 -628 -761	N
ATOM	1066	CA	LEU	B	66	66.794	43.490	13.396	1.00 99.94	C
ANISOU	1066	CA	LEU	B	66	14193	9412	14369	559 -659 -915	C
ATOM	1067	CB	LEU	B	66	65.770	44.559	13.789	1.00 97.91	C
ANISOU	1067	CB	LEU	B	66	13976	9032	14193	692 -815 -976	C
ATOM	1068	CG	LEU	B	66	65.321	44.651	15.244	1.00 96.93	C
ANISOU	1068	CG	LEU	B	66	13734	9030	14065	931 -868 -1131	C
ATOM	1069	CD1	LEU	B	66	65.310	46.108	15.669	1.00 98.16	C
ANISOU	1069	CD1	LEU	B	66	13925	9023	14348	967 -1020 -1253	C
ATOM	1070	CD2	LEU	B	66	63.952	44.009	15.454	1.00 90.79	C
ANISOU	1070	CD2	LEU	B	66	12935	8349	13213	1100 -867 -1071	C
ATOM	1071	C	LEU	B	66	66.326	42.095	13.792	1.00 97.60	C
ANISOU	1071	C	LEU	B	66	13800	9342	13941	679 -549 -873	C
ATOM	1072	O	LEU	B	66	66.684	41.578	14.858	1.00100.20	O
ANISOU	1072	O	LEU	B	66	13999	9850	14223	798 -500 -982	O
ATOM	1073	N	TRP	B	67	65.508	41.501	12.931	1.00 92.48	N
ANISOU	1073	N	TRP	B	67	13218	8686	13235	651 -512 -714	N
ATOM	1074	CA	TRP	B	67	65.011	40.153	13.150	1.00 91.95	C
ANISOU	1074	CA	TRP	B	67	13073	8821	13042	749 -405 -653	C
ATOM	1075	CB	TRP	B	67	63.889	39.832	12.161	1.00 92.30	C
ANISOU	1075	CB	TRP	B	67	13215	8802	13051	728 -406 -483	C
ATOM	1076	CG	TRP	B	67	63.465	38.397	12.119	1.00 85.21	C
ANISOU	1076	CG	TRP	B	67	12257	8096	12023	786 -285 -390	C
ATOM	1077	CD1	TRP	B	67	63.331	37.615	11.009	1.00 85.74	C
ANISOU	1077	CD1	TRP	B	67	12388	8163	12025	663 -198 -220	C
ATOM	1078	NE1	TRP	B	67	62.905	36.358	11.364	1.00 91.24	N
ANISOU	1078	NE1	TRP	B	67	12998	9062	12606	771 -101 -181	N
ATOM	1079	CE2	TRP	B	67	62.751	36.309	12.726	1.00 88.32	C
ANISOU	1079	CE2	TRP	B	67	12506	8829	12224	968 -123 -326	C
ATOM	1080	CD2	TRP	B	67	63.093	37.579	13.234	1.00 86.57	C
ANISOU	1080	CD2	TRP	B	67	12295	8484	12114	983 -239 -461	C
ATOM	1081	CE3	TRP	B	67	63.019	37.795	14.614	1.00 92.47	C
ANISOU	1081	CE3	TRP	B	67	12929	9334	12872	1173 -284 -625	C
ATOM	1082	CZ3	TRP	B	67	62.618	36.751	15.432	1.00 96.20	C
ANISOU	1082	CZ3	TRP	B	67	13281	10025	13244	1338 -213 -649	C
ATOM	1083	CH2	TRP	B	67	62.286	35.496	14.899	1.00 93.89	C
ANISOU	1083	CH2	TRP	B	67	12981	9851	12842	1317 -97 -512	C
ATOM	1084	CZ2	TRP	B	67	62.346	35.254	13.553	1.00 88.50	C
ANISOU	1084	CZ2	TRP	B	67	12408	9073	12146	1134 -51 -351	C
ATOM	1085	C	TRP	B	67	66.170	39.174	13.006	1.00 86.63	C
ANISOU	1085	C	TRP	B	67	12339	8283	12294	636 -258 -630	C
ATOM	1086	O	TRP	B	67	66.302	38.212	13.765	1.00 83.35	O
ANISOU	1086	O	TRP	B	67	11803	8075	11790	741 -171 -673	O
ATOM	1087	N	TRP	B	68	66.989	39.422	11.989	1.00 91.57	N
ANISOU	1087	N	TRP	B	68	13052	8786	12955	418 -231 -557	N
ATOM	1088	CA	TRP	B	68	68.136	38.572	11.679	1.00 88.70	C
ANISOU	1088	CA	TRP	B	68	12649	8525	12527	282 -95 -522	C
ATOM	1089	CB	TRP	B	68	68.907	39.129	10.474	1.00 89.69	C
ANISOU	1089	CB	TRP	B	68	12894	8467	12715	38 -97 -441	C
ATOM	1090	CG	TRP	B	68	70.206	38.415	10.218	1.00 87.83	C
ANISOU	1090	CG	TRP	B	68	12619	8324	12429	-107 31 -424	C
ATOM	1091	CD1	TRP	B	68	70.362	37.167	9.689	1.00 82.98	C

ANISOU	1091	CD1	TRP	B	68	11986	7836	11706	-171	165	-307	C
ATOM	1092	NE1	TRP	B	68	71.699	36.845	9.620	1.00	80.76		N
ANISOU	1092	NE1	TRP	B	68	11668	7611	11408	-301	254	-333	N
ATOM	1093	CE2	TRP	B	68	72.432	37.887	10.109	1.00	85.22		C
ANISOU	1093	CE2	TRP	B	68	12224	8085	12070	-323	178	-468	C
ATOM	1094	CD2	TRP	B	68	71.530	38.898	10.505	1.00	89.43		C
ANISOU	1094	CD2	TRP	B	68	12791	8502	12685	-202	37	-530	C
ATOM	1095	CE3	TRP	B	68	72.031	40.083	11.046	1.00	84.72		C
ANISOU	1095	CE3	TRP	B	68	12194	7798	12198	-198	-64	-670	C
ATOM	1096	CZ3	TRP	B	68	73.394	40.229	11.170	1.00	92.13		C
ANISOU	1096	CZ3	TRP	B	68	13099	8744	13162	-313	-22	-742	C
ATOM	1097	CH2	TRP	B	68	74.275	39.210	10.772	1.00	91.45		C
ANISOU	1097	CH2	TRP	B	68	12979	8775	12991	-432	120	-679	C
ATOM	1098	CZ2	TRP	B	68	73.816	38.036	10.245	1.00	88.08		C
ANISOU	1098	CZ2	TRP	B	68	12552	8458	12456	-439	221	-543	C
ATOM	1099	C	TRP	B	68	69.073	38.416	12.871	1.00	80.53		C
ANISOU	1099	C	TRP	B	68	11478	7637	11482	355	-58	-686	C
ATOM	1100	O	TRP	B	68	69.516	37.314	13.179	1.00	79.15		O
ANISOU	1100	O	TRP	B	68	11212	7650	11211	373	63	-683	O
ATOM	1101	N	SER	B	69	69.356	39.530	13.537	1.00	83.94		N
ANISOU	1101	N	SER	B	69	11899	7980	12013	400	-164	-829	N
ATOM	1102	CA	SER	B	69	70.277	39.547	14.675	1.00	93.56		C
ANISOU	1102	CA	SER	B	69	12997	9316	13237	466	-143	-995	C
ATOM	1103	CB	SER	B	69	70.553	40.990	15.101	1.00	91.27		C
ANISOU	1103	CB	SER	B	69	12733	8867	13077	474	-279	-1127	C
ATOM	1104	OG	SER	B	69	69.393	41.795	14.957	1.00	95.56		O
ANISOU	1104	OG	SER	B	69	13354	9271	13682	551	-406	-1106	O
ATOM	1105	C	SER	B	69	69.786	38.729	15.877	1.00	85.82		C
ANISOU	1105	C	SER	B	69	11877	8559	12173	689	-103	-1073	C
ATOM	1106	O	SER	B	69	70.564	37.994	16.499	1.00	76.54		O
ANISOU	1106	O	SER	B	69	10592	7555	10936	712	-7	-1138	O
ATOM	1107	N	VAL	B	70	68.500	38.862	16.187	1.00	76.20		N
ANISOU	1107	N	VAL	B	70	10663	7336	10952	850	-176	-1066	N
ATOM	1108	CA	VAL	B	70	68.000	38.114	17.334	1.00	76.15		C
ANISOU	1108	CA	VAL	B	70	10525	7538	10868	1066	-142	-1141	C
ATOM	1109	CB	VAL	B	70	66.554	38.515	17.681	1.00	75.87		C
ANISOU	1109	CB	VAL	B	70	10509	7466	10854	1244	-249	-1145	C
ATOM	1110	CG1	VAL	B	70	66.014	37.637	18.799	1.00	79.54		C
ANISOU	1110	CG1	VAL	B	70	10839	8155	11230	1461	-204	-1207	C
ATOM	1111	CG2	VAL	B	70	66.490	39.984	18.069	1.00	85.08		C
ANISOU	1111	CG2	VAL	B	70	11714	8464	12148	1280	-403	-1261	C
ATOM	1112	C	VAL	B	70	68.056	36.605	17.103	1.00	79.04		C
ANISOU	1112	C	VAL	B	70	10836	8093	11101	1053	11	-1040	C
ATOM	1113	O	VAL	B	70	68.412	35.847	18.005	1.00	83.56		O
ANISOU	1113	O	VAL	B	70	11282	8862	11605	1155	87	-1119	O
ATOM	1114	N	GLU	B	71	67.650	36.195	15.854	1.00	83.00		N
ANISOU	1114	N	GLU	B	71	11440	8528	11570	929	52	-861	N
ATOM	1115	CA	GLU	B	71	67.649	34.774	15.539	1.00	80.58		C
ANISOU	1115	CA	GLU	B	71	11092	8388	11138	909	194	-754	C
ATOM	1116	CB	GLU	B	71	66.727	34.477	14.349	1.00	81.23		C
ANISOU	1116	CB	GLU	B	71	11286	8387	11192	840	200	-568	C
ATOM	1117	CG	GLU	B	71	67.257	34.858	12.985	1.00	79.25		C
ANISOU	1117	CG	GLU	B	71	11167	7959	10986	601	206	-452	C
ATOM	1118	CD	GLU	B	71	66.383	34.309	11.860	1.00	79.47		C
ANISOU	1118	CD	GLU	B	71	11286	7944	10963	542	237	-264	C
ATOM	1119	OE1	GLU	B	71	66.548	33.131	11.466	1.00	73.72		O
ANISOU	1119	OE1	GLU	B	71	10532	7344	10134	493	362	-166	O
ATOM	1120	OE2	GLU	B	71	65.531	35.072	11.360	1.00	82.34		O
ANISOU	1120	OE2	GLU	B	71	11752	8145	11390	543	135	-213	O
ATOM	1121	C	GLU	B	71	69.059	34.287	15.273	1.00	79.72		C
ANISOU	1121	C	GLU	B	71	10953	8338	10997	748	305	-753	C
ATOM	1122	O	GLU	B	71	69.288	33.089	15.112	1.00	83.27		O
ANISOU	1122	O	GLU	B	71	11354	8942	11343	724	432	-684	O

ATOM	1123	N	THR	B	72	70.003	35.221	15.215	1.00	80.46	N	
ANISOU	1123	N	THR	B	72	11080	8308	11183	636	256	-830	N
ATOM	1124	CA	THR	B	72	71.405	34.866	15.036	1.00	84.55	C	
ANISOU	1124	CA	THR	B	72	11568	8876	11681	485	353	-846	C
ATOM	1125	CB	THR	B	72	72.125	35.840	14.068	1.00	82.74	C	
ANISOU	1125	CB	THR	B	72	11459	8427	11550	271	304	-811	C
ATOM	1126	OG1	THR	B	72	71.547	35.739	12.758	1.00	89.98	O	
ANISOU	1126	OG1	THR	B	72	12502	9228	12460	151	308	-633	O
ATOM	1127	CG2	THR	B	72	73.621	35.533	14.001	1.00	81.89	C	
ANISOU	1127	CG2	THR	B	72	11311	8376	11426	126	399	-846	C
ATOM	1128	C	THR	B	72	72.124	34.842	16.392	1.00	81.30	C	
ANISOU	1128	C	THR	B	72	11017	8606	11267	602	368	-1029	C
ATOM	1129	O	THR	B	72	72.932	33.946	16.662	1.00	75.10	O	
ANISOU	1129	O	THR	B	72	10148	7981	10405	577	485	-1047	O
ATOM	1130	N	ALA	B	73	71.842	35.841	17.228	1.00	78.80	N	
ANISOU	1130	N	ALA	B	73	10680	8227	11035	726	247	-1164	N
ATOM	1131	CA	ALA	B	73	72.442	35.942	18.565	1.00	84.14	C	
ANISOU	1131	CA	ALA	B	73	11227	9023	11719	850	244	-1346	C
ATOM	1132	CB	ALA	B	73	72.111	37.294	19.193	1.00	81.22	C	
ANISOU	1132	CB	ALA	B	73	10873	8521	11466	946	88	-1473	C
ATOM	1133	C	ALA	B	73	71.996	34.821	19.495	1.00	83.34	C	
ANISOU	1133	C	ALA	B	73	10995	9162	11508	1038	320	-1380	C
ATOM	1134	O	ALA	B	73	72.746	34.381	20.367	1.00	86.54	O	
ANISOU	1134	O	ALA	B	73	11285	9721	11876	1094	384	-1488	O
ATOM	1135	N	THR	B	74	70.769	34.389	19.360	1.00	74.34	N	
ANISOU	1135	N	THR	B	74	9320	9813	9115	-1298	334	1586	N
ATOM	1136	CA	THR	B	74	70.229	33.293	20.163	1.00	77.22	C	
ANISOU	1136	CA	THR	B	74	9381	10305	9655	-1088	483	1610	C
ATOM	1137	CB	THR	B	74	68.683	33.300	20.166	1.00	81.45	C	
ANISOU	1137	CB	THR	B	74	9982	10780	10184	-790	481	1493	C
ATOM	1138	OG1	THR	B	74	68.208	33.286	18.810	1.00	78.40	O	
ANISOU	1138	OG1	THR	B	74	9643	10317	9828	-802	514	1408	O
ATOM	1139	CG2	THR	B	74	68.146	34.535	20.891	1.00	86.85	C	
ANISOU	1139	CG2	THR	B	74	11021	11347	10632	-681	278	1439	C
ATOM	1140	C	THR	B	74	70.691	31.944	19.592	1.00	76.60	C	
ANISOU	1140	C	THR	B	74	8917	10360	9829	-1166	701	1667	C
ATOM	1141	O	THR	B	74	70.459	30.901	20.192	1.00	74.45	O	
ANISOU	1141	O	THR	B	74	8347	10212	9728	-1034	844	1705	O
ATOM	1142	N	THR	B	75	71.343	32.008	18.432	1.00	76.14	N	
ANISOU	1142	N	THR	B	75	8875	10270	9785	-1381	718	1672	N
ATOM	1143	CA	THR	B	75	71.844	30.853	17.671	1.00	72.16	C	
ANISOU	1143	CA	THR	B	75	8043	9872	9501	-1486	910	1719	C
ATOM	1144	CB	THR	B	75	72.828	29.936	18.488	1.00	76.69	C	
ANISOU	1144	CB	THR	B	75	8300	10615	10223	-1576	1032	1854	C
ATOM	1145	OG1	THR	B	75	72.131	29.220	19.519	1.00	87.47	O	
ANISOU	1145	OG1	THR	B	75	9470	12072	11694	-1337	1115	1861	O
ATOM	1146	CG2	THR	B	75	73.937	30.784	19.126	1.00	85.55	C	
ANISOU	1146	CG2	THR	B	75	9598	11722	11185	-1777	891	1937	C
ATOM	1147	C	THR	B	75	70.727	29.986	17.066	1.00	75.94	C	
ANISOU	1147	C	THR	B	75	8341	10369	10143	-1282	1053	1640	C
ATOM	1148	O	THR	B	75	70.951	28.824	16.732	1.00	80.40	O	
ANISOU	1148	O	THR	B	75	8580	11048	10920	-1302	1235	1682	O
ATOM	1149	N	VAL	B	76	69.535	30.556	16.890	1.00	77.92	N	
ANISOU	1149	N	VAL	B	76	8806	10506	10295	-1091	969	1526	N
ATOM	1150	CA	VAL	B	76	68.427	29.796	16.299	1.00	76.35	C	
ANISOU	1150	CA	VAL	B	76	8456	10314	10238	-893	1095	1447	C
ATOM	1151	CB	VAL	B	76	67.076	30.522	16.502	1.00	68.93	C	
ANISOU	1151	CB	VAL	B	76	7772	9256	9163	-650	980	1332	C
ATOM	1152	CG1	VAL	B	76	65.950	29.789	15.747	1.00	64.43	C	
ANISOU	1152	CG1	VAL	B	76	7064	8683	8734	-463	1105	1248	C
ATOM	1153	CG2	VAL	B	76	66.743	30.557	17.990	1.00	81.17	C	
ANISOU	1153	CG2	VAL	B	76	9311	10857	10674	-474	940	1361	C
ATOM	1154	C	VAL	B	76	68.693	29.574	14.805	1.00	77.54	C	

ANISOU	1154	C	VAL	B	76	8569	10432	10460	-1048	1163	1419	C
ATOM	1155	O	VAL	B	76	68.657	28.439	14.324	1.00	82.20		O
ANISOU	1155	O	VAL	B	76	8858	11116	11260	-1030	1342	1436	O
ATOM	1156	N	GLY	B	77	68.977	30.659	14.081	1.00	84.83		N
ANISOU	1156	N	GLY	B	77	9799	11224	11209	-1203	1017	1378	N
ATOM	1157	CA	GLY	B	77	69.297	30.565	12.663	1.00	78.17		C
ANISOU	1157	CA	GLY	B	77	8947	10341	10412	-1368	1063	1353	C
ATOM	1158	C	GLY	B	77	68.347	29.829	11.728	1.00	66.66		C
ANISOU	1158	C	GLY	B	77	7348	8877	9101	-1228	1194	1273	C
ATOM	1159	O	GLY	B	77	68.737	28.848	11.073	1.00	66.63		O
ANISOU	1159	O	GLY	B	77	7072	8960	9283	-1310	1356	1309	O
ATOM	1160	N	TYR	B	78	67.112	30.322	11.630	1.00	71.05		N
ANISOU	1160	N	TYR	B	78	8097	9328	9571	-1023	1122	1163	N
ATOM	1161	CA	TYR	B	78	66.104	29.714	10.767	1.00	69.86		C
ANISOU	1161	CA	TYR	B	78	7843	9159	9544	-874	1231	1080	C
ATOM	1162	CB	TYR	B	78	64.822	30.551	10.763	1.00	60.25		C
ANISOU	1162	CB	TYR	B	78	6913	7803	8177	-668	1106	961	C
ATOM	1163	CG	TYR	B	78	64.088	30.584	12.084	1.00	65.87		C
ANISOU	1163	CG	TYR	B	78	7634	8541	8851	-428	1070	957	C
ATOM	1164	CD1	TYR	B	78	63.620	29.408	12.674	1.00	63.78		C
ANISOU	1164	CD1	TYR	B	78	7051	8405	8778	-243	1230	986	C
ATOM	1165	CE1	TYR	B	78	62.877	29.443	13.864	1.00	59.09		C
ANISOU	1165	CE1	TYR	B	78	6470	7834	8149	-11	1196	976	C
ATOM	1166	CZ	TYR	B	78	62.611	30.669	14.461	1.00	65.56		C
ANISOU	1166	CZ	TYR	B	78	7626	8544	8739	36	1001	937	C
ATOM	1167	OH	TYR	B	78	61.856	30.742	15.602	1.00	69.38		O
ANISOU	1167	OH	TYR	B	78	8134	9044	9181	267	963	924	O
ATOM	1168	CE2	TYR	B	78	63.077	31.846	13.894	1.00	68.01		C
ANISOU	1168	CE2	TYR	B	78	8257	8726	8858	-146	840	908	C
ATOM	1169	CD2	TYR	B	78	63.810	31.798	12.713	1.00	71.37		C
ANISOU	1169	CD2	TYR	B	78	8665	9132	9321	-376	875	918	C
ATOM	1170	C	TYR	B	78	66.560	29.550	9.324	1.00	66.20		C
ANISOU	1170	C	TYR	B	78	7348	8666	9141	-1065	1289	1065	C
ATOM	1171	O	TYR	B	78	66.273	28.547	8.695	1.00	60.69		O
ANISOU	1171	O	TYR	B	78	6401	8028	8630	-1016	1453	1055	O
ATOM	1172	N	GLY	B	79	67.236	30.552	8.799	1.00	67.92		N
ANISOU	1172	N	GLY	B	79	7822	8788	9196	-1276	1152	1061	N
ATOM	1173	CA	GLY	B	79	67.648	30.540	7.415	1.00	61.31		C
ANISOU	1173	CA	GLY	B	79	6994	7908	8391	-1460	1186	1041	C
ATOM	1174	C	GLY	B	79	66.851	31.416	6.471	1.00	61.07		C
ANISOU	1174	C	GLY	B	79	7260	7715	8230	-1424	1076	920	C
ATOM	1175	O	GLY	B	79	67.058	31.370	5.279	1.00	55.58		O
ANISOU	1175	O	GLY	B	79	6568	6981	7569	-1554	1110	893	O
ATOM	1176	N	ASP	B	80	65.932	32.211	6.986	1.00	67.32		N
ANISOU	1176	N	ASP	B	80	8300	8409	8871	-1246	945	847	N
ATOM	1177	CA	ASP	B	80	65.165	33.094	6.136	1.00	59.61		C
ANISOU	1177	CA	ASP	B	80	7617	7272	7760	-1209	832	731	C
ATOM	1178	CB	ASP	B	80	63.874	33.532	6.809	1.00	64.25		C
ANISOU	1178	CB	ASP	B	80	8368	7790	8254	-932	752	650	C
ATOM	1179	CG	ASP	B	80	64.096	34.201	8.129	1.00	73.01		C
ANISOU	1179	CG	ASP	B	80	9624	8901	9217	-897	621	691	C
ATOM	1180	OD1	ASP	B	80	65.112	33.955	8.770	1.00	71.77		O
ANISOU	1180	OD1	ASP	B	80	9341	8839	9089	-1027	642	794	O
ATOM	1181	OD2	ASP	B	80	63.236	34.969	8.551	1.00	68.10		O
ANISOU	1181	OD2	ASP	B	80	9242	8183	8449	-734	496	619	O
ATOM	1182	C	ASP	B	80	65.974	34.298	5.781	1.00	60.01		C
ANISOU	1182	C	ASP	B	80	7968	7221	7610	-1442	657	736	C
ATOM	1183	O	ASP	B	80	65.613	35.029	4.894	1.00	60.24		O
ANISOU	1183	O	ASP	B	80	8232	7124	7534	-1477	567	653	O
ATOM	1184	N	LEU	B	81	67.072	34.497	6.499	1.00	73.01		N
ANISOU	1184	N	LEU	B	81	9607	8928	9207	-1599	609	835	N
ATOM	1185	CA	LEU	B	81	67.963	35.647	6.363	1.00	70.89		C
ANISOU	1185	CA	LEU	B	81	9616	8576	8742	-1828	434	858	C

ATOM	1186	CB	LEU	B	81	67.461	36.774	7.264	1.00	66.09	C	
ANISOU	1186	CB	LEU	B	81	9323	7870	7917	-1712	242	817	C
ATOM	1187	CG	LEU	B	81	66.107	37.415	7.007	1.00	65.02	C	
ANISOU	1187	CG	LEU	B	81	9428	7600	7675	-1506	153	686	C
ATOM	1188	CD1	LEU	B	81	65.543	37.892	8.326	1.00	74.63	C	
ANISOU	1188	CD1	LEU	B	81	10778	8801	8777	-1314	51	677	C
ATOM	1189	CD2	LEU	B	81	66.283	38.584	6.068	1.00	74.67	C	
ANISOU	1189	CD2	LEU	B	81	10982	8672	8717	-1666	-7	626	C
ATOM	1190	C	LEU	B	81	69.402	35.281	6.751	1.00	67.85	C	
ANISOU	1190	C	LEU	B	81	9059	8309	8413	-2051	479	992	C
ATOM	1191	O	LEU	B	81	69.606	34.541	7.718	1.00	66.22	O	
ANISOU	1191	O	LEU	B	81	8621	8226	8312	-1981	571	1066	O
ATOM	1192	N	TYR	B	82	70.386	35.813	6.022	1.00	67.35	N	
ANISOU	1192	N	TYR	B	82	9112	8206	8273	-2317	411	1022	N
ATOM	1193	CA	TYR	B	82	71.803	35.589	6.328	1.00	70.96	C	
ANISOU	1193	CA	TYR	B	82	9438	8761	8761	-2549	436	1149	C
ATOM	1194	CB	TYR	B	82	72.155	34.099	6.201	1.00	70.52	C	
ANISOU	1194	CB	TYR	B	82	8960	8866	8967	-2557	668	1218	C
ATOM	1195	CG	TYR	B	82	71.828	33.480	4.852	1.00	76.27	C	
ANISOU	1195	CG	TYR	B	82	9559	9586	9833	-2573	794	1163	C
ATOM	1196	CD1	TYR	B	82	72.719	33.576	3.783	1.00	71.23	C	
ANISOU	1196	CD1	TYR	B	82	8928	8937	9201	-2826	801	1189	C
ATOM	1197	CE1	TYR	B	82	72.427	33.010	2.564	1.00	78.64	C	
ANISOU	1197	CE1	TYR	B	82	9747	9868	10263	-2840	916	1139	C
ATOM	1198	CZ	TYR	B	82	71.224	32.343	2.385	1.00	81.08	C	
ANISOU	1198	CZ	TYR	B	82	9933	10180	10694	-2599	1023	1062	C
ATOM	1199	OH	TYR	B	82	70.915	31.777	1.163	1.00	83.70	O	
ANISOU	1199	OH	TYR	B	82	10149	10503	11151	-2611	1138	1012	O
ATOM	1200	CE2	TYR	B	82	70.325	32.242	3.424	1.00	74.98	C	
ANISOU	1200	CE2	TYR	B	82	9153	9418	9916	-2347	1017	1036	C
ATOM	1201	CD2	TYR	B	82	70.628	32.808	4.645	1.00	76.32	C	
ANISOU	1201	CD2	TYR	B	82	9441	9597	9962	-2334	903	1086	C
ATOM	1202	C	TYR	B	82	72.728	36.418	5.421	1.00	73.51	C	
ANISOU	1202	C	TYR	B	82	9964	9007	8959	-2830	325	1161	C
ATOM	1203	O	TYR	B	82	72.348	36.787	4.317	1.00	76.07	O	
ANISOU	1203	O	TYR	B	82	10425	9233	9245	-2862	292	1080	O
ATOM	1204	N	PRO	B	83	73.959	36.700	5.880	1.00	77.41	N	
ANISOU	1204	N	PRO	B	83	10472	9547	9392	-3038	268	1266	N
ATOM	1205	CA	PRO	B	83	74.929	37.446	5.075	1.00	81.85	C	
ANISOU	1205	CA	PRO	B	83	11210	10049	9841	-3316	165	1291	C
ATOM	1206	CB	PRO	B	83	75.980	37.824	6.119	1.00	78.92	C	
ANISOU	1206	CB	PRO	B	83	10879	9729	9379	-3450	80	1402	C
ATOM	1207	CG	PRO	B	83	75.996	36.643	6.990	1.00	75.55	C	
ANISOU	1207	CG	PRO	B	83	10112	9455	9139	-3333	248	1472	C
ATOM	1208	CD	PRO	B	83	74.511	36.446	7.221	1.00	81.39	C	
ANISOU	1208	CD	PRO	B	83	10860	10156	9911	-3027	277	1367	C
ATOM	1209	C	PRO	B	83	75.564	36.645	3.926	1.00	84.99	C	
ANISOU	1209	C	PRO	B	83	11378	10512	10402	-3487	314	1323	C
ATOM	1210	O	PRO	B	83	75.829	35.447	4.048	1.00	85.41	O	
ANISOU	1210	O	PRO	B	83	11090	10702	10661	-3472	499	1385	O
ATOM	1211	N	VAL	B	84	75.752	37.326	2.803	1.00	91.32	N	
ANISOU	1211	N	VAL	B	84	12376	11212	11110	-3640	230	1276	N
ATOM	1212	CA	VAL	B	84	76.476	36.805	1.645	1.00	92.73	C	
ANISOU	1212	CA	VAL	B	84	12397	11433	11402	-3840	335	1307	C
ATOM	1213	CB	VAL	B	84	75.710	37.018	0.353	1.00	87.14	C	
ANISOU	1213	CB	VAL	B	84	11803	10618	10689	-3808	331	1192	C
ATOM	1214	CG1	VAL	B	84	76.289	36.138	-0.729	1.00	94.29	C	
ANISOU	1214	CG1	VAL	B	84	12460	11598	11769	-3957	491	1224	C
ATOM	1215	CG2	VAL	B	84	74.254	36.689	0.537	1.00	74.06	C	
ANISOU	1215	CG2	VAL	B	84	10120	8930	9089	-3508	384	1093	C
ATOM	1216	C	VAL	B	84	77.787	37.573	1.447	1.00	90.80	C	
ANISOU	1216	C	VAL	B	84	12305	11168	11024	-4135	213	1384	C
ATOM	1217	O	VAL	B	84	78.704	37.099	0.806	1.00	92.22	O	

ANISOU	1217	O	VAL	B	84	12307	11427	11307	-4203	288	1406	O
ATOM	1218	N	THR	B	85	77.842	38.781	1.995	1.00	99.35		N
ANISOU	1218	N	THR	B	85	13708	12155	11886	-4161	9	1373	N
ATOM	1219	CA	THR	B	85	78.963	39.686	1.928	1.00	104.51		C
ANISOU	1219	CA	THR	B	85	14559	12771	12379	-4417	-139	1437	C
ATOM	1220	CB	THR	B	85	78.545	41.080	2.408	1.00	107.81		C
ANISOU	1220	CB	THR	B	85	15371	13047	12546	-4368	-372	1379	C
ATOM	1221	OG1	THR	B	85	77.510	41.600	1.575	1.00	109.84		O
ANISOU	1221	OG1	THR	B	85	15828	13171	12735	-4264	-433	1247	O
ATOM	1222	CG2	THR	B	85	79.726	42.029	2.390	1.00	103.19		C
ANISOU	1222	CG2	THR	B	85	14992	12424	11791	-4635	-531	1451	C
ATOM	1223	C	THR	B	85	80.057	39.316	2.873	1.00	104.99		C
ANISOU	1223	C	THR	B	85	14450	12962	12482	-4499	-105	1563	C
ATOM	1224	O	THR	B	85	79.805	39.093	4.029	1.00	101.00		O
ANISOU	1224	O	THR	B	85	13884	12502	11988	-4386	-91	1603	O
ATOM	1225	N	LEU	B	86	81.292	39.318	2.405	1.00	114.54		N
ANISOU	1225	N	LEU	B	86	15568	14243	13708	-4542	-111	1568	N
ATOM	1226	CA	LEU	B	86	82.410	38.988	3.258	1.00	115.91		C
ANISOU	1226	CA	LEU	B	86	15577	14540	13924	-4539	-86	1650	C
ATOM	1227	CB	LEU	B	86	83.687	39.085	2.470	1.00	120.82		C
ANISOU	1227	CB	LEU	B	86	16149	15207	14551	-4589	-101	1637	C
ATOM	1228	CG	LEU	B	86	84.889	38.501	3.171	1.00	112.96		C
ANISOU	1228	CG	LEU	B	86	14934	14338	13646	-4552	-37	1705	C
ATOM	1229	CD1	LEU	B	86	84.571	37.061	3.501	1.00	111.99		C
ANISOU	1229	CD1	LEU	B	86	14467	14307	13776	-4357	176	1706	C
ATOM	1230	CD2	LEU	B	86	86.054	38.571	2.205	1.00	122.45		C
ANISOU	1230	CD2	LEU	B	86	16101	15566	14859	-4591	-44	1681	C
ATOM	1231	C	LEU	B	86	82.561	39.750	4.537	1.00	108.36		C
ANISOU	1231	C	LEU	B	86	14817	13554	12800	-4628	-228	1731	C
ATOM	1232	O	LEU	B	86	82.858	39.193	5.560	1.00	104.09		O
ANISOU	1232	O	LEU	B	86	14101	13112	12335	-4571	-162	1802	O
ATOM	1233	N	TRP	B	87	82.369	41.053	4.418	1.00	111.19		N
ANISOU	1233	N	TRP	B	87	15553	13767	12928	-4761	-430	1714	N
ATOM	1234	CA	TRP	B	87	82.300	41.983	5.532	1.00	109.00		C
ANISOU	1234	CA	TRP	B	87	15552	13407	12455	-4844	-600	1778	C
ATOM	1235	C	TRP	B	87	80.995	41.830	6.289	1.00	98.87		C
ANISOU	1235	C	TRP	B	87	14284	12096	11186	-4564	-584	1710	C
ATOM	1236	O	TRP	B	87	80.916	41.990	7.479	1.00	106.76		O
ANISOU	1236	O	TRP	B	87	15315	13116	12131	-4466	-634	1743	O
ATOM	1237	CB	TRP	B	87	82.527	43.426	5.064	1.00	120.81		C
ANISOU	1237	CB	TRP	B	87	17439	14756	13708	-4986	-827	1738	C
ATOM	1238	CG	TRP	B	87	83.971	43.687	4.949	1.00	128.47		C
ANISOU	1238	CG	TRP	B	87	18357	15820	14638	-5076	-875	1771	C
ATOM	1239	CD1	TRP	B	87	84.718	43.650	3.826	1.00	129.55		C
ANISOU	1239	CD1	TRP	B	87	18413	16005	14807	-5108	-850	1727	C
ATOM	1240	CD2	TRP	B	87	84.870	43.919	6.024	1.00	140.46		C
ANISOU	1240	CD2	TRP	B	87	19874	17404	16091	-5132	-940	1862	C
ATOM	1241	NE1	TRP	B	87	86.027	43.872	4.125	1.00	132.06		N
ANISOU	1241	NE1	TRP	B	87	18692	16408	15078	-5182	-899	1784	N
ATOM	1242	CE2	TRP	B	87	86.146	44.042	5.476	1.00	144.93		C
ANISOU	1242	CE2	TRP	B	87	20368	18051	16648	-5200	-956	1865	C
ATOM	1243	CE3	TRP	B	87	84.716	44.045	7.401	1.00	139.77		C
ANISOU	1243	CE3	TRP	B	87	19848	17312	15948	-5126	-987	1944	C
ATOM	1244	CZ2	TRP	B	87	87.264	44.292	6.253	1.00	150.43		C
ANISOU	1244	CZ2	TRP	B	87	21052	18821	17284	-5267	-1019	1941	C
ATOM	1245	CZ3	TRP	B	87	85.822	44.294	8.168	1.00	142.63		C
ANISOU	1245	CZ3	TRP	B	87	20192	17750	16251	-5193	-1050	2019	C
ATOM	1246	CH2	TRP	B	87	87.079	44.417	7.598	1.00	144.35		C
ANISOU	1246	CH2	TRP	B	87	20337	18045	16463	-5264	-1066	2015	C
ATOM	1247	N	GLY	B	88	79.962	41.555	5.528	1.00	100.23		N
ANISOU	1247	N	GLY	B	88	14393	11918	11774	-3411	-457	899	N
ATOM	1248	CA	GLY	B	88	78.586	41.393	5.942	1.00	101.38		C
ANISOU	1248	CA	GLY	B	88	14628	11894	11997	-3362	-460	819	C

ATOM	1249	C	GLY	B	88	78.694	40.251	6.920	1.00	89.26	C	
ANISOU	1249	C	GLY	B	88	13074	10463	10377	-3201	-361	812	C
ATOM	1250	O	GLY	B	88	78.069	40.256	7.956	1.00	78.77	O	
ANISOU	1250	O	GLY	B	88	11756	9099	9076	-3156	-372	733	O
ATOM	1251	N	ARG	B	89	79.401	39.238	6.566	1.00	87.86	N	
ANISOU	1251	N	ARG	B	89	12876	10405	10101	-3114	-266	891	N
ATOM	1252	CA	ARG	B	89	79.586	38.074	7.397	1.00	84.31	C	
ANISOU	1252	CA	ARG	B	89	12408	10061	9566	-2960	-171	895	C
ATOM	1253	CB	ARG	B	89	80.248	36.933	6.600	1.00	85.76	C	
ANISOU	1253	CB	ARG	B	89	12588	10340	9656	-2874	-69	992	C
ATOM	1254	CG	ARG	B	89	79.328	36.329	5.547	1.00	87.92	C	
ANISOU	1254	CG	ARG	B	89	12974	10460	9970	-2841	-23	1016	C
ATOM	1255	CD	ARG	B	89	79.840	35.155	4.710	1.00	88.18	C	
ANISOU	1255	CD	ARG	B	89	13014	10569	9920	-2750	79	1105	C
ATOM	1256	NE	ARG	B	89	78.738	34.604	3.900	1.00	89.48	N	
ANISOU	1256	NE	ARG	B	89	13298	10564	10137	-2710	116	1111	N
ATOM	1257	CZ	ARG	B	89	78.861	33.772	2.871	1.00	87.10	C	
ANISOU	1257	CZ	ARG	B	89	13031	10264	9798	-2658	187	1182	C
ATOM	1258	NH1	ARG	B	89	80.039	33.361	2.475	1.00	92.10	N	
ANISOU	1258	NH1	ARG	B	89	13591	11064	10341	-2638	232	1253	N
ATOM	1259	NH2	ARG	B	89	77.792	33.358	2.229	1.00	81.51	N	
ANISOU	1259	NH2	ARG	B	89	12433	9390	9146	-2627	213	1178	N
ATOM	1260	C	ARG	B	89	80.322	38.372	8.702	1.00	94.33	C	
ANISOU	1260	C	ARG	B	89	13576	11479	10786	-2948	-196	860	C
ATOM	1261	O	ARG	B	89	79.949	37.873	9.736	1.00	90.32	O	
ANISOU	1261	O	ARG	B	89	13073	10985	10258	-2856	-165	813	O
ATOM	1262	N	CYS	B	90	81.343	39.211	8.684	1.00	95.67	N	
ANISOU	1262	N	CYS	B	90	13654	11758	10938	-3045	-256	882	N
ATOM	1263	CA	CYS	B	90	82.077	39.465	9.922	1.00	91.66	C	
ANISOU	1263	CA	CYS	B	90	13049	11395	10381	-3029	-278	852	C
ATOM	1264	CB	CYS	B	90	83.193	40.474	9.702	1.00	101.86	C	
ANISOU	1264	CB	CYS	B	90	14246	12793	11663	-3151	-350	883	C
ATOM	1265	SG	CYS	B	90	84.580	39.873	8.726	1.00	115.71	S	
ANISOU	1265	SG	CYS	B	90	15938	14716	13310	-3138	-282	1002	S
ATOM	1266	C	CYS	B	90	81.157	39.992	10.985	1.00	86.30	C	
ANISOU	1266	C	CYS	B	90	12393	10622	9773	-3037	-335	746	C
ATOM	1267	O	CYS	B	90	81.190	39.562	12.106	1.00	97.46	O	
ANISOU	1267	O	CYS	B	90	13779	12109	11144	-2953	-305	710	O
ATOM	1268	N	VAL	B	91	80.306	40.917	10.622	1.00	80.26	N	
ANISOU	1268	N	VAL	B	91	11681	9694	9120	-3140	-419	694	N
ATOM	1269	CA	VAL	B	91	79.320	41.445	11.572	1.00	76.24	C	
ANISOU	1269	CA	VAL	B	91	11199	9081	8688	-3151	-477	584	C
ATOM	1270	CB	VAL	B	91	78.307	42.392	10.895	1.00	81.62	C	
ANISOU	1270	CB	VAL	B	91	11953	9558	9502	-3265	-567	534	C
ATOM	1271	CG1	VAL	B	91	77.300	42.914	11.914	1.00	83.26	C	
ANISOU	1271	CG1	VAL	B	91	12182	9665	9788	-3272	-626	413	C
ATOM	1272	CG2	VAL	B	91	79.025	43.546	10.219	1.00	88.13	C	
ANISOU	1272	CG2	VAL	B	91	12726	10401	10360	-3415	-664	566	C
ATOM	1273	C	VAL	B	91	78.562	40.296	12.237	1.00	79.36	C	
ANISOU	1273	C	VAL	B	91	11650	9451	9051	-3006	-387	554	C
ATOM	1274	O	VAL	B	91	78.276	40.338	13.436	1.00	81.31	O	
ANISOU	1274	O	VAL	B	91	11875	9721	9296	-2967	-397	481	O
ATOM	1275	N	ALA	B	92	78.252	39.271	11.442	1.00	83.16	N	
ANISOU	1275	N	ALA	B	92	12202	9887	9507	-2928	-300	611	N
ATOM	1276	CA	ALA	B	92	77.529	38.095	11.913	1.00	79.29	C	
ANISOU	1276	CA	ALA	B	92	11774	9367	8986	-2789	-211	595	C
ATOM	1277	CB	ALA	B	92	77.313	37.122	10.783	1.00	81.29	C	
ANISOU	1277	CB	ALA	B	92	12101	9568	9218	-2727	-130	670	C
ATOM	1278	C	ALA	B	92	78.271	37.414	13.054	1.00	80.80	C	
ANISOU	1278	C	ALA	B	92	11893	9737	9071	-2689	-157	603	C
ATOM	1279	O	ALA	B	92	77.678	37.122	14.094	1.00	83.15	O	
ANISOU	1279	O	ALA	B	92	12204	10022	9366	-2626	-143	538	O
ATOM	1280	N	VAL	B	93	79.567	37.219	12.902	1.00	82.17	N	

ANISOU	1280	N	VAL	B	93	11985	10077	9160	-2681	-133	677	N
ATOM	1281	CA	VAL	B	93	80.337	36.543	13.934	1.00	85.88		C
ANISOU	1281	CA	VAL	B	93	12385	10719	9528	-2585	-83	689	C
ATOM	1282	CB	VAL	B	93	81.820	36.411	13.502	1.00	72.86		C
ANISOU	1282	CB	VAL	B	93	10645	9243	7794	-2592	-63	777	C
ATOM	1283	CG1	VAL	B	93	82.768	36.198	14.664	1.00	66.53		C
ANISOU	1283	CG1	VAL	B	93	9749	8624	6907	-2539	-51	776	C
ATOM	1284	CG2	VAL	B	93	81.989	35.264	12.534	1.00	73.42		C
ANISOU	1284	CG2	VAL	B	93	10756	9327	7812	-2508	30	861	C
ATOM	1285	C	VAL	B	93	80.227	37.309	15.226	1.00	76.41		C
ANISOU	1285	C	VAL	B	93	11135	9544	8351	-2621	-150	602	C
ATOM	1286	O	VAL	B	93	80.073	36.752	16.282	1.00	76.38		O
ANISOU	1286	O	VAL	B	93	11124	9592	8303	-2536	-115	568	O
ATOM	1287	N	VAL	B	94	80.312	38.602	15.135	1.00	77.05		N
ANISOU	1287	N	VAL	B	94	11183	9590	8502	-2751	-250	564	N
ATOM	1288	CA	VAL	B	94	80.252	39.424	16.326	1.00	77.22		C
ANISOU	1288	CA	VAL	B	94	11152	9637	8551	-2793	-321	478	C
ATOM	1289	CB	VAL	B	94	80.489	40.911	15.990	1.00	75.38		C
ANISOU	1289	CB	VAL	B	94	10877	9367	8398	-2949	-440	452	C
ATOM	1290	CG1	VAL	B	94	80.060	41.806	17.148	1.00	62.83		C
ANISOU	1290	CG1	VAL	B	94	9256	7753	6864	-2995	-523	343	C
ATOM	1291	CG2	VAL	B	94	81.947	41.142	15.617	1.00	76.17		C
ANISOU	1291	CG2	VAL	B	94	10884	9625	8433	-2992	-448	534	C
ATOM	1292	C	VAL	B	94	78.907	39.240	17.009	1.00	74.65		C
ANISOU	1292	C	VAL	B	94	10900	9186	8278	-2749	-317	387	C
ATOM	1293	O	VAL	B	94	78.846	39.084	18.221	1.00	81.65		O
ANISOU	1293	O	VAL	B	94	11756	10137	9132	-2699	-310	334	O
ATOM	1294	N	VAL	B	95	77.841	39.204	16.218	1.00	75.62		N
ANISOU	1294	N	VAL	B	95	11121	9134	8479	-2765	-316	371	N
ATOM	1295	CA	VAL	B	95	76.488	39.026	16.735	1.00	79.37		C
ANISOU	1295	CA	VAL	B	95	11672	9475	9011	-2728	-311	284	C
ATOM	1296	CB	VAL	B	95	75.434	39.090	15.584	1.00	84.27		C
ANISOU	1296	CB	VAL	B	95	12399	9895	9725	-2763	-318	280	C
ATOM	1297	CG1	VAL	B	95	74.026	38.790	16.108	1.00	74.63		C
ANISOU	1297	CG1	VAL	B	95	11260	8539	8558	-2713	-303	192	C
ATOM	1298	CG2	VAL	B	95	75.465	40.442	14.899	1.00	81.90		C
ANISOU	1298	CG2	VAL	B	95	12087	9512	9520	-2914	-430	261	C
ATOM	1299	C	VAL	B	95	76.367	37.690	17.481	1.00	80.91		C
ANISOU	1299	C	VAL	B	95	11885	9742	9115	-2580	-208	297	C
ATOM	1300	O	VAL	B	95	75.814	37.622	18.586	1.00	78.18		O
ANISOU	1300	O	VAL	B	95	11540	9395	8769	-2543	-209	220	O
ATOM	1301	N	MET	B	96	76.878	36.631	16.858	1.00	80.22		N
ANISOU	1301	N	MET	B	96	11811	9716	8951	-2498	-122	394	N
ATOM	1302	CA	MET	B	96	76.836	35.290	17.435	1.00	81.30		C
ANISOU	1302	CA	MET	B	96	11968	9923	9000	-2356	-26	420	C
ATOM	1303	CB	MET	B	96	77.474	34.295	16.456	1.00	83.15		C
ANISOU	1303	CB	MET	B	96	12215	10212	9167	-2287	53	533	C
ATOM	1304	CG	MET	B	96	76.820	34.207	15.066	1.00	82.11		C
ANISOU	1304	CG	MET	B	96	12172	9926	9100	-2311	66	565	C
ATOM	1305	SD	MET	B	96	77.827	33.232	13.909	1.00	92.23		S
ANISOU	1305	SD	MET	B	96	13441	11304	10297	-2249	145	696	S
ATOM	1306	CE	MET	B	96	76.887	33.355	12.388	1.00	91.20		C
ANISOU	1306	CE	MET	B	96	13419	10971	10260	-2298	142	714	C
ATOM	1307	C	MET	B	96	77.557	35.186	18.787	1.00	83.71		C
ANISOU	1307	C	MET	B	96	12187	10395	9225	-2316	-23	400	C
ATOM	1308	O	MET	B	96	76.963	34.827	19.813	1.00	86.95		O
ANISOU	1308	O	MET	B	96	12614	10802	9620	-2258	-5	342	O
ATOM	1309	N	VAL	B	97	78.837	35.546	18.774	1.00	85.53		N
ANISOU	1309	N	VAL	B	97	12323	10768	9406	-2352	-46	448	N
ATOM	1310	CA	VAL	B	97	79.693	35.482	19.956	1.00	84.26		C
ANISOU	1310	CA	VAL	B	97	12073	10776	9167	-2319	-47	440	C
ATOM	1311	CB	VAL	B	97	81.168	35.781	19.572	1.00	76.96		C
ANISOU	1311	CB	VAL	B	97	11053	9999	8190	-2358	-62	513	C

ATOM	1312	CG1	VAL	B	97	81.982	36.185	20.772	1.00	88.41		C
ANISOU	1312	CG1	VAL	B	97	12404	11596	9591	-2367	-98	485	C
ATOM	1313	CG2	VAL	B	97	81.787	34.565	18.878	1.00	74.25		C
ANISOU	1313	CG2	VAL	B	97	10718	9730	7764	-2262	29	615	C
ATOM	1314	C	VAL	B	97	79.192	36.424	21.057	1.00	82.86		C
ANISOU	1314	C	VAL	B	97	11871	10572	9042	-2379	-122	331	C
ATOM	1315	O	VAL	B	97	79.248	36.091	22.243	1.00	82.62		O
ANISOU	1315	O	VAL	B	97	11811	10625	8958	-2322	-105	295	O
ATOM	1316	N	ALA	B	98	78.679	37.585	20.657	1.00	80.68		N
ANISOU	1316	N	ALA	B	98	11607	10177	8870	-2495	-207	275	N
ATOM	1317	CA	ALA	B	98	78.100	38.533	21.601	1.00	77.35		C
ANISOU	1317	CA	ALA	B	98	11166	9711	8511	-2557	-285	163	C
ATOM	1318	CB	ALA	B	98	77.693	39.808	20.912	1.00	81.30		C
ANISOU	1318	CB	ALA	B	98	11678	10082	9129	-2689	-383	119	C
ATOM	1319	C	ALA	B	98	76.900	37.896	22.270	1.00	80.33		C
ANISOU	1319	C	ALA	B	98	11616	10008	8897	-2482	-242	96	C
ATOM	1320	O	ALA	B	98	76.686	38.050	23.468	1.00	88.93		O
ANISOU	1320	O	ALA	B	98	12676	11141	9974	-2469	-258	23	O
ATOM	1321	N	GLY	B	99	76.110	37.188	21.475	1.00	85.47		N
ANISOU	1321	N	GLY	B	99	12362	10540	9571	-2436	-186	122	N
ATOM	1322	CA	GLY	B	99	74.932	36.519	21.985	1.00	88.76		C
ANISOU	1322	CA	GLY	B	99	12856	10872	9997	-2364	-141	67	C
ATOM	1323	C	GLY	B	99	75.268	35.304	22.835	1.00	89.39		C
ANISOU	1323	C	GLY	B	99	12923	11080	9960	-2239	-56	102	C
ATOM	1324	O	GLY	B	99	74.697	35.129	23.914	1.00	89.36		O
ANISOU	1324	O	GLY	B	99	12926	11085	9943	-2205	-48	32	O
ATOM	1325	N	ILE	B	100	76.172	34.451	22.341	1.00	85.36		N
ANISOU	1325	N	ILE	B	100	12396	10668	9367	-2173	7	209	N
ATOM	1326	CA	ILE	B	100	76.578	33.250	23.074	1.00	88.75		C
ANISOU	1326	CA	ILE	B	100	12814	11223	9685	-2053	84	253	C
ATOM	1327	CB	ILE	B	100	77.582	32.378	22.286	1.00	88.51		C
ANISOU	1327	CB	ILE	B	100	12767	11284	9577	-1988	145	372	C
ATOM	1328	CG1	ILE	B	100	76.994	31.948	20.947	1.00	84.89		C
ANISOU	1328	CG1	ILE	B	100	12397	10693	9165	-1973	182	419	C
ATOM	1329	CD1	ILE	B	100	77.972	31.182	20.094	1.00	89.28		C
ANISOU	1329	CD1	ILE	B	100	12933	11336	9653	-1918	237	530	C
ATOM	1330	CG2	ILE	B	100	77.954	31.137	23.098	1.00	82.93		C
ANISOU	1330	CG2	ILE	B	100	12049	10700	8760	-1863	216	411	C
ATOM	1331	C	ILE	B	100	77.207	33.578	24.423	1.00	88.70		C
ANISOU	1331	C	ILE	B	100	12718	11359	9623	-2059	53	212	C
ATOM	1332	O	ILE	B	100	76.912	32.924	25.431	1.00	89.87		O
ANISOU	1332	O	ILE	B	100	12875	11553	9716	-1987	90	185	O
ATOM	1333	N	THR	B	101	78.080	34.580	24.440	1.00	93.09		N
ANISOU	1333	N	THR	B	101	13190	11987	10193	-2145	-14	209	N
ATOM	1334	CA	THR	B	101	78.739	34.983	25.673	1.00	90.77		C
ANISOU	1334	CA	THR	B	101	12807	11829	9851	-2157	-49	171	C
ATOM	1335	CB	THR	B	101	79.838	36.028	25.403	1.00	88.76		C
ANISOU	1335	CB	THR	B	101	12460	11653	9612	-2252	-120	191	C
ATOM	1336	OG1	THR	B	101	80.901	35.422	24.651	1.00	84.98		O
ANISOU	1336	OG1	THR	B	101	11955	11268	9068	-2212	-74	301	O
ATOM	1337	CG2	THR	B	101	80.391	36.565	26.723	1.00	99.36		C
ANISOU	1337	CG2	THR	B	101	13714	13118	10919	-2272	-166	138	C
ATOM	1338	C	THR	B	101	77.729	35.541	26.670	1.00	87.58		C
ANISOU	1338	C	THR	B	101	12418	11359	9499	-2190	-92	51	C
ATOM	1339	O	THR	B	101	77.698	35.128	27.825	1.00	92.54		O
ANISOU	1339	O	THR	B	101	13027	12067	10067	-2137	-71	18	O
ATOM	1340	N	SER	B	102	76.886	36.452	26.197	1.00	86.12		N
ANISOU	1340	N	SER	B	102	12270	11026	9426	-2277	-153	-16	N
ATOM	1341	CA	SER	B	102	75.885	37.100	27.041	1.00	95.26		C
ANISOU	1341	CA	SER	B	102	13440	12108	10646	-2319	-202	-140	C
ATOM	1342	CB	SER	B	102	74.980	38.003	26.194	1.00	107.53		C
ANISOU	1342	CB	SER	B	102	15046	13480	12332	-2411	-266	-197	C
ATOM	1343	OG	SER	B	102	73.965	38.616	26.971	1.00	118.24		O

ANISOU	1343	OG	SER	B	102	16415	14758	13755	-2449	-315	-323	O
ATOM	1344	C	SER	B	102	75.021	36.101	27.803	1.00	93.55		C
ANISOU	1344	C	SER	B	102	13281	11877	10385	-2225	-133	-173	C
ATOM	1345	O	SER	B	102	74.900	36.188	29.022	1.00	96.78		O
ANISOU	1345	O	SER	B	102	13656	12353	10763	-2214	-144	-240	O
ATOM	1346	N	PHE	B	103	74.420	35.159	27.083	1.00	98.11		N
ANISOU	1346	N	PHE	B	103	13948	12368	10960	-2158	-64	-126	N
ATOM	1347	CA	PHE	B	103	73.603	34.126	27.717	1.00	99.85		C
ANISOU	1347	CA	PHE	B	103	14230	12572	11136	-2065	6	-146	C
ATOM	1348	CB	PHE	B	103	72.842	33.300	26.672	1.00	95.94		C
ANISOU	1348	CB	PHE	B	103	13840	11947	10667	-2011	67	-98	C
ATOM	1349	CG	PHE	B	103	71.601	33.963	26.135	1.00	86.01		C
ANISOU	1349	CG	PHE	B	103	12651	10498	9532	-2076	27	-177	C
ATOM	1350	CD1	PHE	B	103	70.430	33.958	26.874	1.00	82.70		C
ANISOU	1350	CD1	PHE	B	103	12273	10003	9144	-2069	27	-277	C
ATOM	1351	CE1	PHE	B	103	69.272	34.535	26.376	1.00	87.53		C
ANISOU	1351	CE1	PHE	B	103	12949	10437	9872	-2125	-10	-353	C
ATOM	1352	CZ	PHE	B	103	69.272	35.112	25.120	1.00	88.79		C
ANISOU	1352	CZ	PHE	B	103	13133	10487	10115	-2190	-49	-326	C
ATOM	1353	CE2	PHE	B	103	70.426	35.110	24.364	1.00	92.19		C
ANISOU	1353	CE2	PHE	B	103	13524	10993	10511	-2199	-48	-223	C
ATOM	1354	CD2	PHE	B	103	71.584	34.531	24.869	1.00	95.88		C
ANISOU	1354	CD2	PHE	B	103	13925	11642	10863	-2141	-8	-151	C
ATOM	1355	C	PHE	B	103	74.436	33.186	28.591	1.00	91.20		C
ANISOU	1355	C	PHE	B	103	13091	11651	9912	-1975	61	-90	C
ATOM	1356	O	PHE	B	103	73.929	32.616	29.560	1.00	90.08		O
ANISOU	1356	O	PHE	B	103	12968	11536	9723	-1921	94	-129	O
ATOM	1357	N	GLY	B	104	75.708	33.020	28.237	1.00	88.75		N
ANISOU	1357	N	GLY	B	104	12721	11456	9543	-1961	70	1	N
ATOM	1358	CA	GLY	B	104	76.605	32.158	28.989	1.00	96.39		C
ANISOU	1358	CA	GLY	B	104	13643	12590	10392	-1878	116	58	C
ATOM	1359	C	GLY	B	104	76.882	32.712	30.372	1.00	100.45		C
ANISOU	1359	C	GLY	B	104	14083	13208	10875	-1909	72	-13	C
ATOM	1360	O	GLY	B	104	76.936	31.980	31.362	1.00	96.91		O
ANISOU	1360	O	GLY	B	104	13629	12848	10345	-1840	109	-13	O
ATOM	1361	N	LEU	B	105	77.044	34.028	30.422	1.00	102.53		N
ANISOU	1361	N	LEU	B	105	14291	13459	11207	-2014	-12	-73	N
ATOM	1362	CA	LEU	B	105	77.282	34.748	31.657	1.00	94.41		C
ANISOU	1362	CA	LEU	B	105	13189	12518	10166	-2057	-66	-151	C
ATOM	1363	CB	LEU	B	105	77.845	36.145	31.343	1.00	97.84		C
ANISOU	1363	CB	LEU	B	105	13551	12952	10670	-2170	-159	-178	C
ATOM	1364	CG	LEU	B	105	78.368	37.084	32.429	1.00	115.26		C
ANISOU	1364	CG	LEU	B	105	15663	15258	12871	-2229	-231	-245	C
ATOM	1365	CD1	LEU	B	105	79.514	37.931	31.916	1.00	115.10		C
ANISOU	1365	CD1	LEU	B	105	15564	15300	12869	-2300	-290	-201	C
ATOM	1366	CD2	LEU	B	105	77.218	37.983	32.736	1.00	114.22		C
ANISOU	1366	CD2	LEU	B	105	15554	15004	12838	-2300	-291	-370	C
ATOM	1367	C	LEU	B	105	76.005	34.792	32.500	1.00	97.53		C
ANISOU	1367	C	LEU	B	105	13630	12838	10590	-2058	-68	-259	C
ATOM	1368	O	LEU	B	105	76.075	34.682	33.718	1.00	109.59		O
ANISOU	1368	O	LEU	B	105	15120	14459	12060	-2037	-68	-303	O
ATOM	1369	N	VAL	B	106	74.845	34.938	31.863	1.00	99.71		N
ANISOU	1369	N	VAL	B	106	13984	12948	10953	-2081	-70	-304	N
ATOM	1370	CA	VAL	B	106	73.563	34.903	32.580	1.00	97.55		C
ANISOU	1370	CA	VAL	B	106	13760	12596	10709	-2077	-66	-407	C
ATOM	1371	CB	VAL	B	106	72.353	35.152	31.658	1.00	93.55		C
ANISOU	1371	CB	VAL	B	106	13340	11893	10312	-2110	-75	-450	C
ATOM	1372	CG1	VAL	B	106	71.054	34.917	32.425	1.00	88.46		C
ANISOU	1372	CG1	VAL	B	106	12748	11179	9683	-2091	-56	-549	C
ATOM	1373	CG2	VAL	B	106	72.384	36.568	31.093	1.00	98.36		C
ANISOU	1373	CG2	VAL	B	106	13915	12424	11034	-2227	-172	-502	C
ATOM	1374	C	VAL	B	106	73.419	33.532	33.239	1.00	100.22		C
ANISOU	1374	C	VAL	B	106	14134	13003	10940	-1967	21	-368	C

ATOM	1375	O	VAL	B	106	72.867	33.394	34.328	1.00103.06	O		
ANISOU	1375	O	VAL	B	106	14496	13392	11272	-1953	28	-439	O
ATOM	1376	N	THR	B	107	73.912	32.510	32.549	1.00100.50	N		
ANISOU	1376	N	THR	B	107	14202	13065	10920	-1889	86	-252	N
ATOM	1377	CA	THR	B	107	73.939	31.155	33.091	1.00100.61	C		
ANISOU	1377	CA	THR	B	107	14246	13152	10828	-1781	164	-198	C
ATOM	1378	CB	THR	B	107	74.355	30.127	32.016	1.00105.05	C		
ANISOU	1378	CB	THR	B	107	14853	13706	11356	-1703	227	-75	C
ATOM	1379	OG1	THR	B	107	73.397	30.159	30.949	1.00108.79	O		
ANISOU	1379	OG1	THR	B	107	15410	14007	11917	-1717	237	-83	O
ATOM	1380	CG2	THR	B	107	74.345	28.714	32.583	1.00100.72	C		
ANISOU	1380	CG2	THR	B	107	14339	13227	10703	-1591	301	-20	C
ATOM	1381	C	THR	B	107	74.879	31.067	34.286	1.00106.62	C		
ANISOU	1381	C	THR	B	107	14924	14092	11493	-1764	156	-192	C
ATOM	1382	O	THR	B	107	74.574	30.409	35.280	1.00110.22	O		
ANISOU	1382	O	THR	B	107	15394	14604	11881	-1713	189	-212	O
ATOM	1383	N	ALA	B	108	76.021	31.742	34.181	1.00109.07	N		
ANISOU	1383	N	ALA	B	108	15151	14492	11800	-1808	110	-165	N
ATOM	1384	CA	ALA	B	108	77.032	31.743	35.235	1.00109.08	C		
ANISOU	1384	CA	ALA	B	108	15066	14663	11715	-1796	96	-155	C
ATOM	1385	CB	ALA	B	108	78.272	32.483	34.771	1.00105.91	C		
ANISOU	1385	CB	ALA	B	108	14581	14334	11324	-1847	48	-111	C
ATOM	1386	C	ALA	B	108	76.505	32.357	36.529	1.00115.49	C		
ANISOU	1386	C	ALA	B	108	15848	15500	12531	-1841	56	-270	C
ATOM	1387	O	ALA	B	108	76.649	31.767	37.605	1.00122.43	O		
ANISOU	1387	O	ALA	B	108	16712	16482	13323	-1793	81	-273	O
ATOM	1388	N	ALA	B	109	75.895	33.536	36.419	1.00112.61	N		
ANISOU	1388	N	ALA	B	109	15475	15042	12269	-1934	-10	-366	N
ATOM	1389	CA	ALA	B	109	75.325	34.230	37.573	1.00122.26	C		
ANISOU	1389	CA	ALA	B	109	16667	16278	13509	-1984	-55	-488	C
ATOM	1390	CB	ALA	B	109	74.611	35.501	37.129	1.00124.86	C		
ANISOU	1390	CB	ALA	B	109	16997	16475	13969	-2084	-129	-585	C
ATOM	1391	C	ALA	B	109	74.367	33.318	38.320	1.00122.38	C		
ANISOU	1391	C	ALA	B	109	16745	16280	13474	-1922	4	-522	C
ATOM	1392	O	ALA	B	109	74.294	33.336	39.547	1.00129.33	O		
ANISOU	1392	O	ALA	B	109	17591	17246	14302	-1922	-2	-581	O
ATOM	1393	N	LEU	B	110	73.628	32.529	37.552	1.00120.24	N		
ANISOU	1393	N	LEU	B	110	16566	15902	13218	-1873	61	-485	N
ATOM	1394	CA	LEU	B	110	72.677	31.573	38.095	1.00124.00	C		
ANISOU	1394	CA	LEU	B	110	17112	16352	13649	-1811	122	-505	C
ATOM	1395	CB	LEU	B	110	71.858	30.951	36.963	1.00118.05	C		
ANISOU	1395	CB	LEU	B	110	16459	15450	12943	-1773	170	-465	C
ATOM	1396	CG	LEU	B	110	70.881	31.890	36.252	1.00109.58	C		
ANISOU	1396	CG	LEU	B	110	15423	14210	12005	-1849	126	-549	C
ATOM	1397	CD1	LEU	B	110	70.153	31.163	35.123	1.00116.04	C		
ANISOU	1397	CD1	LEU	B	110	16342	14888	12860	-1801	179	-498	C
ATOM	1398	CD2	LEU	B	110	69.909	32.520	37.229	1.00107.73	C		
ANISOU	1398	CD2	LEU	B	110	15181	13945	11806	-1901	91	-690	C
ATOM	1399	C	LEU	B	110	73.393	30.481	38.892	1.00119.49	C		
ANISOU	1399	C	LEU	B	110	16524	15932	12944	-1728	172	-430	C
ATOM	1400	O	LEU	B	110	72.883	29.995	39.899	1.00121.91	O		
ANISOU	1400	O	LEU	B	110	16848	16280	13193	-1701	198	-471	O
ATOM	1401	N	ALA	B	111	74.561	30.072	38.406	1.00115.85	N		
ANISOU	1401	N	ALA	B	111	16033	15550	12435	-1687	187	-321	N
ATOM	1402	CA	ALA	B	111	75.354	29.052	39.081	1.00119.94	C		
ANISOU	1402	CA	ALA	B	111	16531	16210	12830	-1608	228	-244	C
ATOM	1403	CB	ALA	B	111	76.474	28.559	38.179	1.00122.69	C		
ANISOU	1403	CB	ALA	B	111	16861	16606	13148	-1560	248	-122	C
ATOM	1404	C	ALA	B	111	75.922	29.586	40.399	1.00130.84	C		
ANISOU	1404	C	ALA	B	111	17826	17728	14160	-1644	185	-298	C
ATOM	1405	O	ALA	B	111	75.920	28.887	41.414	1.00134.43	O		
ANISOU	1405	O	ALA	B	111	18283	18270	14525	-1599	212	-296	O
ATOM	1406	N	THR	B	112	76.413	30.825	40.373	1.00130.30	N		

ANISOU	1406	N	THR	B	112	17683	17676	14148	-1726	116	-344	N
ATOM	1407	CA	THR	B	112	76.977	31.459	41.563	1.00130.32			C
ANISOU	1407	CA	THR	B	112	17599	17802	14113	-1767	68	-399	C
ATOM	1408	CB	THR	B	112	77.526	32.853	41.250	1.00131.12			C
ANISOU	1408	CB	THR	B	112	17626	17900	14294	-1858	-12	-439	C
ATOM	1409	OG1	THR	B	112	78.436	32.765	40.152	1.00135.53			O
ANISOU	1409	OG1	THR	B	112	18170	18464	14862	-1845	-8	-338	O
ATOM	1410	CG2	THR	B	112	78.232	33.442	42.460	1.00129.96			C
ANISOU	1410	CG2	THR	B	112	17386	17891	14102	-1892	-60	-484	C
ATOM	1411	C	THR	B	112	75.911	31.564	42.643	1.00137.87			C
ANISOU	1411	C	THR	B	112	18577	18744	15064	-1787	66	-510	C
ATOM	1412	O	THR	B	112	76.133	31.181	43.786	1.00148.12			O
ANISOU	1412	O	THR	B	112	19849	20155	16274	-1763	76	-520	O
ATOM	1413	N	TRP	B	113	74.742	32.057	42.247	1.00136.84			N
ANISOU	1413	N	TRP	B	113	18494	18471	15026	-1832	53	-591	N
ATOM	1414	CA	TRP	B	113	73.590	32.205	43.131	1.00139.54			C
ANISOU	1414	CA	TRP	B	113	18861	18781	15379	-1856	52	-706	C
ATOM	1415	CB	TRP	B	113	72.403	32.753	42.342	1.00143.21			C
ANISOU	1415	CB	TRP	B	113	19382	19068	15963	-1902	36	-779	C
ATOM	1416	CG	TRP	B	113	71.132	32.791	43.108	1.00143.70			C
ANISOU	1416	CG	TRP	B	113	19479	19082	16039	-1921	44	-894	C
ATOM	1417	CD1	TRP	B	113	70.975	33.108	44.421	1.00144.02			C
ANISOU	1417	CD1	TRP	B	113	19472	19212	16038	-1949	22	-984	C
ATOM	1418	NE1	TRP	B	113	69.652	33.023	44.775	1.00145.52			N
ANISOU	1418	NE1	TRP	B	113	19713	19323	16254	-1960	40	-1080	N
ATOM	1419	CE2	TRP	B	113	68.923	32.643	43.674	1.00140.87			C
ANISOU	1419	CE2	TRP	B	113	19210	18587	15727	-1937	73	-1051	C
ATOM	1420	CD2	TRP	B	113	69.829	32.488	42.609	1.00141.94			C
ANISOU	1420	CD2	TRP	B	113	19345	18712	15872	-1912	76	-934	C
ATOM	1421	CE3	TRP	B	113	69.334	32.102	41.357	1.00136.58			C
ANISOU	1421	CE3	TRP	B	113	18747	17895	15253	-1885	108	-883	C
ATOM	1422	CZ3	TRP	B	113	67.974	31.890	41.218	1.00133.23			C
ANISOU	1422	CZ3	TRP	B	113	18400	17345	14878	-1884	134	-949	C
ATOM	1423	CH2	TRP	B	113	67.101	32.053	42.299	1.00138.50			C
ANISOU	1423	CH2	TRP	B	113	19064	18026	15534	-1909	130	-1066	C
ATOM	1424	CZ2	TRP	B	113	67.555	32.432	43.535	1.00140.71			C
ANISOU	1424	CZ2	TRP	B	113	19265	18444	15755	-1937	100	-1119	C
ATOM	1425	C	TRP	B	113	73.224	30.870	43.788	1.00135.06			C
ANISOU	1425	C	TRP	B	113	18348	18262	14706	-1775	125	-669	C
ATOM	1426	O	TRP	B	113	73.098	30.770	45.011	1.00139.30			O
ANISOU	1426	O	TRP	B	113	18860	18888	15177	-1778	125	-721	O
ATOM	1427	N	PHE	B	114	73.048	29.851	42.953	1.00136.27			N
ANISOU	1427	N	PHE	B	114	18578	18355	14844	-1704	186	-578	N
ATOM	1428	CA	PHE	B	114	72.736	28.491	43.390	1.00136.35			C
ANISOU	1428	CA	PHE	B	114	18648	18400	14759	-1621	255	-525	C
ATOM	1429	CB	PHE	B	114	72.491	27.602	42.170	1.00133.66			C
ANISOU	1429	CB	PHE	B	114	18390	17958	14436	-1554	308	-432	C
ATOM	1430	CG	PHE	B	114	71.107	27.719	41.596	1.00130.62			C
ANISOU	1430	CG	PHE	B	114	18085	17407	14139	-1573	323	-494	C
ATOM	1431	CD1	PHE	B	114	70.195	28.623	42.111	1.00132.40			C
ANISOU	1431	CD1	PHE	B	114	18301	17578	14426	-1648	286	-628	C
ATOM	1432	CE1	PHE	B	114	68.921	28.720	41.580	1.00135.40			C
ANISOU	1432	CE1	PHE	B	114	18754	17803	14889	-1664	298	-688	C
ATOM	1433	CZ	PHE	B	114	68.562	27.949	40.494	1.00133.27			C
ANISOU	1433	CZ	PHE	B	114	18567	17428	14643	-1607	347	-612	C
ATOM	1434	CE2	PHE	B	114	69.468	27.065	39.951	1.00133.20			C
ANISOU	1434	CE2	PHE	B	114	18566	17471	14572	-1533	383	-478	C
ATOM	1435	CD2	PHE	B	114	70.739	26.962	40.495	1.00133.92			C
ANISOU	1435	CD2	PHE	B	114	18583	17720	14581	-1516	370	-421	C
ATOM	1436	C	PHE	B	114	73.835	27.907	44.270	1.00129.19			C
ANISOU	1436	C	PHE	B	114	17689	17664	13732	-1576	263	-459	C
ATOM	1437	O	PHE	B	114	73.571	27.036	45.104	1.00122.81			O
ANISOU	1437	O	PHE	B	114	16910	16916	12837	-1531	300	-449	O

ATOM	1438	N	VAL	B	115	75.067	28.360	44.053	1.00129.83		N	
ANISOU	1438	N	VAL	B	115	17696	17823	13810	-1589	227	-412	N
ATOM	1439	CA	VAL	B	115	76.199	27.917	44.860	1.00136.67		C	
ANISOU	1439	CA	VAL	B	115	18506	18852	14571	-1553	227	-353	C
ATOM	1440	CB	VAL	B	115	77.548	28.154	44.142	1.00131.60		C	
ANISOU	1440	CB	VAL	B	115	17804	18264	13935	-1546	205	-269	C
ATOM	1441	CG1	VAL	B	115	78.692	28.239	45.141	1.00135.95		C	
ANISOU	1441	CG1	VAL	B	115	18270	18981	14404	-1545	177	-252	C
ATOM	1442	CG2	VAL	B	115	77.808	27.049	43.136	1.00121.98		C	
ANISOU	1442	CG2	VAL	B	115	16641	17013	12693	-1461	260	-151	C
ATOM	1443	C	VAL	B	115	76.185	28.629	46.216	1.00140.36		C	
ANISOU	1443	C	VAL	B	115	18909	19409	15011	-1611	183	-452	C
ATOM	1444	O	VAL	B	115	76.383	27.995	47.260	1.00140.55		O	
ANISOU	1444	O	VAL	B	115	18926	19540	14936	-1578	201	-440	O
ATOM	1445	N	GLY	B	116	75.947	29.938	46.199	1.00138.36		N	
ANISOU	1445	N	GLY	B	116	18611	19113	14847	-1698	125	-549	N
ATOM	1446	CA	GLY	B	116	75.881	30.719	47.422	1.00134.85		C	
ANISOU	1446	CA	GLY	B	116	18104	18745	14389	-1759	78	-653	C
ATOM	1447	C	GLY	B	116	74.852	30.171	48.396	1.00141.46		C	
ANISOU	1447	C	GLY	B	116	18987	19588	15173	-1747	112	-716	C
ATOM	1448	O	GLY	B	116	75.174	29.798	49.525	1.00150.90		O	
ANISOU	1448	O	GLY	B	116	20155	20907	16273	-1732	118	-717	O
ATOM	1449	N	ARG	B	117	73.616	30.048	47.956	1.00140.81		N	
ANISOU	1449	N	ARG	B	117	18978	19376	15147	-1752	138	-763	N
ATOM	1450	CA	ARG	B	117	72.592	29.540	48.846	1.00138.31		C	
ANISOU	1450	CA	ARG	B	117	18705	19063	14782	-1745	172	-826	C
ATOM	1451	CB	ARG	B	117	71.222	29.598	48.179	1.00126.82		C	
ANISOU	1451	CB	ARG	B	117	17327	17445	13414	-1759	192	-886	C
ATOM	1452	C	ARG	B	117	72.877	28.129	49.363	1.00143.32		C	
ANISOU	1452	C	ARG	B	117	19379	19788	15289	-1662	231	-731	C
ATOM	1453	O	ARG	B	117	72.612	27.849	50.514	1.00159.32		O	
ANISOU	1453	O	ARG	B	117	21399	21896	17239	-1667	240	-772	O
ATOM	1454	N	GLU	B	118	73.397	27.239	48.534	1.00141.13		N	
ANISOU	1454	N	GLU	B	118	19140	19496	14987	-1589	268	-606	N
ATOM	1455	CA	GLU	B	118	73.660	25.883	48.994	1.00141.95		C	
ANISOU	1455	CA	GLU	B	118	19282	19679	14975	-1510	317	-514	C
ATOM	1456	CB	GLU	B	118	74.048	24.961	47.852	1.00146.19		C	
ANISOU	1456	CB	GLU	B	118	19870	20166	15509	-1430	357	-387	C
ATOM	1457	CG	GLU	B	118	74.368	23.546	48.312	1.00140.90		C	
ANISOU	1457	CG	GLU	B	118	19237	19577	14721	-1345	400	-291	C
ATOM	1458	CD	GLU	B	118	73.164	22.842	48.888	1.00141.98		C	
ANISOU	1458	CD	GLU	B	118	19449	19679	14819	-1331	440	-326	C
ATOM	1459	OE1	GLU	B	118	72.361	23.506	49.561	1.00149.72		O	
ANISOU	1459	OE1	GLU	B	118	20420	20646	15821	-1397	425	-440	O
ATOM	1460	OE2	GLU	B	118	73.026	21.626	48.675	1.00137.18		O	
ANISOU	1460	OE2	GLU	B	118	18907	19059	14157	-1255	484	-241	O
ATOM	1461	C	GLU	B	118	74.686	25.757	50.089	1.00150.86		C	
ANISOU	1461	C	GLU	B	118	20343	20975	16003	-1504	296	-490	C
ATOM	1462	O	GLU	B	118	74.535	24.927	50.958	1.00158.50		O	
ANISOU	1462	O	GLU	B	118	21335	22014	16876	-1472	323	-472	O
ATOM	1463	N	GLN	B	119	75.731	26.563	50.012	1.00155.63		N	
ANISOU	1463	N	GLN	B	119	20864	21638	16630	-1535	248	-484	N
ATOM	1464	CA	GLN	B	119	76.820	26.510	50.974	1.00159.61		C	
ANISOU	1464	CA	GLN	B	119	21299	22301	17047	-1529	223	-456	C
ATOM	1465	CB	GLN	B	119	77.977	27.405	50.530	1.00159.33		C	
ANISOU	1465	CB	GLN	B	119	21179	22303	17057	-1558	173	-437	C
ATOM	1466	CG	GLN	B	119	78.901	26.819	49.479	1.00166.07		C	
ANISOU	1466	CG	GLN	B	119	22038	23154	17907	-1494	192	-311	C
ATOM	1467	CD	GLN	B	119	80.096	26.110	50.069	1.00164.26		C	
ANISOU	1467	CD	GLN	B	119	21770	23068	17573	-1440	193	-226	C
ATOM	1468	OE1	GLN	B	119	81.196	26.651	50.099	1.00163.05		O	
ANISOU	1468	OE1	GLN	B	119	21539	22992	17420	-1457	155	-205	O
ATOM	1469	NE2	GLN	B	119	79.887	24.890	50.532	1.00158.14		N	

ANISOU	1469	NE2	GLN	B	119	21049	22326	16709	-1375	236	-174	N
ATOM	1470	C	GLN	B	119	76.426	26.909	52.373	1.00166.44			C
ANISOU	1470	C	GLN	B	119	22130	23242	17866	-1581	202	-557	C
ATOM	1471	O	GLN	B	119	77.033	26.459	53.333	1.00174.06			O
ANISOU	1471	O	GLN	B	119	23067	24334	18733	-1561	200	-528	O
ATOM	1472	N	GLU	B	120	75.414	27.749	52.503	1.00162.34			N
ANISOU	1472	N	GLU	B	120	21613	22650	17418	-1648	184	-678	N
ATOM	1473	CA	GLU	B	120	75.017	28.186	53.826	1.00158.56			C
ANISOU	1473	CA	GLU	B	120	21098	22247	16900	-1701	162	-784	C
ATOM	1474	CB	GLU	B	120	73.853	29.169	53.751	1.00147.12			C
ANISOU	1474	CB	GLU	B	120	19653	20696	15551	-1774	139	-922	C
ATOM	1475	C	GLU	B	120	74.630	26.957	54.615	1.00164.39			C
ANISOU	1475	C	GLU	B	120	21893	23044	17525	-1654	213	-748	C
ATOM	1476	O	GLU	B	120	74.995	26.820	55.765	1.00170.83			O
ANISOU	1476	O	GLU	B	120	22673	23984	18253	-1662	202	-760	O
ATOM	1477	N	ARG	B	121	73.924	26.038	53.984	1.00163.10			N
ANISOU	1477	N	ARG	B	121	21819	22790	17360	-1603	266	-698	N
ATOM	1478	CA	ARG	B	121	73.523	24.832	54.667	1.00162.70			C
ANISOU	1478	CA	ARG	B	121	21828	22787	17204	-1558	313	-658	C
ATOM	1479	CB	ARG	B	121	72.324	24.206	53.966	1.00160.73			C
ANISOU	1479	CB	ARG	B	121	21677	22404	16991	-1530	364	-655	C
ATOM	1480	C	ARG	B	121	74.699	23.896	54.607	1.00165.94			C
ANISOU	1480	C	ARG	B	121	22235	23282	17532	-1484	323	-521	C
ATOM	1481	O	ARG	B	121	74.709	22.943	53.845	1.00168.71			O
ANISOU	1481	O	ARG	B	121	22647	23580	17873	-1413	360	-424	O
ATOM	1482	N	ARG	B	122	75.701	24.186	55.422	1.00167.21			N
ANISOU	1482	N	ARG	B	122	22321	23575	17637	-1499	285	-515	N
ATOM	1483	CA	ARG	B	122	76.899	23.373	55.475	1.00168.78			C
ANISOU	1483	CA	ARG	B	122	22505	23866	17757	-1433	287	-394	C
ATOM	1484	CB	ARG	B	122	77.529	23.277	54.092	1.00168.77			C
ANISOU	1484	CB	ARG	B	122	22509	23797	17820	-1386	292	-307	C
ATOM	1485	C	ARG	B	122	77.898	23.949	56.467	1.00169.92			C
ANISOU	1485	C	ARG	B	122	22559	24151	17853	-1468	238	-416	C
ATOM	1486	O	ARG	B	122	79.058	24.177	56.133	1.00170.45			O
ANISOU	1486	O	ARG	B	122	22571	24265	17929	-1451	211	-359	O
TER												
HETATM	1487	O	HOH	B1001		68.169	33.052	9.613	1.00	73.06		O
HETATM	1488	O	HOH	B1002		75.913	29.049	26.317	1.00	74.07		O
HETATM	1489	O	HOH	B1003		72.600	28.859	23.633	1.00	71.68		O
TER												
ATOM	1490	N	SER	D	22	98.186	33.584	36.217	1.00162.89			N
ANISOU	1490	N	SER	D	22	15314	25600	20978	-3639	-41	1639	N
ATOM	1491	CA	SER	D	22	97.044	33.204	35.398	1.00150.80			C
ANISOU	1491	CA	SER	D	22	13873	24043	19382	-3614	-60	1479	C
ATOM	1492	CB	SER	D	22	97.451	33.129	33.920	1.00144.50			C
ANISOU	1492	CB	SER	D	22	13029	23243	18630	-3521	10	1612	C
ATOM	1493	C	SER	D	22	96.445	31.873	35.857	1.00146.00			C
ANISOU	1493	C	SER	D	22	13374	23476	18623	-3628	-84	1354	C
ATOM	1494	O	SER	D	22	97.047	30.810	35.677	1.00145.40			O
ANISOU	1494	O	SER	D	22	13299	23457	18491	-3586	-41	1459	O
ATOM	1495	N	ALA	D	23	95.254	31.951	36.450	1.00133.21			N
ANISOU	1495	N	ALA	D	23	11847	21830	16936	-3683	-149	1132	N
ATOM	1496	CA	ALA	D	23	94.525	30.780	36.935	1.00127.52			C
ANISOU	1496	CA	ALA	D	23	11239	21144	16067	-3701	-172	987	C
ATOM	1497	CB	ALA	D	23	93.275	31.202	37.662	1.00125.89			C
ANISOU	1497	CB	ALA	D	23	11118	20903	15810	-3761	-234	758	C
ATOM	1498	C	ALA	D	23	94.183	29.832	35.794	1.00134.96			C
ANISOU	1498	C	ALA	D	23	12233	22097	16946	-3633	-145	966	C
ATOM	1499	O	ALA	D	23	94.089	30.252	34.639	1.00142.30			O
ANISOU	1499	O	ALA	D	23	13135	22992	17940	-3580	-125	995	O
ATOM	1500	N	LEU	D	24	93.972	28.565	36.134	1.00126.65			N
ANISOU	1500	N	LEU	D	24	11257	21094	15769	-3633	-144	910	N
ATOM	1501	CA	LEU	D	24	93.711	27.515	35.158	1.00121.73			C

ANISOU	1501	CA	LEU	D	24	10683	20490	15077	-3567	-117	895	C
ATOM	1502	CB	LEU	D	24	93.417	26.205	35.890	1.00110.34			C
ANISOU	1502	CB	LEU	D	24	9331	19102	13492	-3590	-127	810	C
ATOM	1503	CG	LEU	D	24	93.386	24.951	35.025	1.00107.68			C
ANISOU	1503	CG	LEU	D	24	9034	18799	13081	-3521	-95	827	C
ATOM	1504	CD1	LEU	D	24	94.812	24.677	34.587	1.00112.97			C
ANISOU	1504	CD1	LEU	D	24	9602	19513	13809	-3462	-33	1088	C
ATOM	1505	CD2	LEU	D	24	92.798	23.771	35.756	1.00114.54			C
ANISOU	1505	CD2	LEU	D	24	10009	19709	13805	-3552	-113	691	C
ATOM	1506	C	LEU	D	24	92.547	27.860	34.201	1.00128.08			C
ANISOU	1506	C	LEU	D	24	11546	21236	15883	-3540	-141	733	C
ATOM	1507	O	LEU	D	24	92.692	27.773	32.974	1.00128.67			O
ANISOU	1507	O	LEU	D	24	11592	21301	15997	-3466	-107	801	O
ATOM	1508	N	HIS	D	25	91.400	28.255	34.722	1.00129.31			N
ANISOU	1508	N	HIS	D	25	11782	21354	15997	-3592	-195	522	N
ATOM	1509	CA	HIS	D	25	90.304	28.515	33.815	1.00124.25			C
ANISOU	1509	CA	HIS	D	25	11200	20658	15351	-3561	-218	367	C
ATOM	1510	CB	HIS	D	25	89.036	28.838	34.579	1.00125.88			C
ANISOU	1510	CB	HIS	D	25	11504	20831	15493	-3617	-268	131	C
ATOM	1511	CG	HIS	D	25	89.247	29.772	35.715	1.00133.19			C
ANISOU	1511	CG	HIS	D	25	12391	21749	16466	-3687	-292	144	C
ATOM	1512	ND1	HIS	D	25	90.127	29.508	36.736	1.00131.01			N
ANISOU	1512	ND1	HIS	D	25	12071	21524	16181	-3726	-278	258	N
ATOM	1513	CE1	HIS	D	25	90.101	30.504	37.600	1.00131.05			C
ANISOU	1513	CE1	HIS	D	25	12045	21508	16238	-3780	-306	238	C
ATOM	1514	NE2	HIS	D	25	89.232	31.400	37.178	1.00131.34			N
ANISOU	1514	NE2	HIS	D	25	12106	21482	16315	-3779	-337	116	N
ATOM	1515	CD2	HIS	D	25	88.684	30.964	36.001	1.00136.27			C
ANISOU	1515	CD2	HIS	D	25	12779	22087	16913	-3722	-329	54	C
ATOM	1516	C	HIS	D	25	90.646	29.598	32.818	1.00125.82			C
ANISOU	1516	C	HIS	D	25	11311	20809	15686	-3521	-206	465	C
ATOM	1517	O	HIS	D	25	90.364	29.446	31.641	1.00127.76			O
ANISOU	1517	O	HIS	D	25	11564	21034	15943	-3455	-192	453	O
ATOM	1518	N	TRP	D	26	91.283	30.667	33.258	1.00124.57			N
ANISOU	1518	N	TRP	D	26	11066	20633	15631	-3556	-208	568	N
ATOM	1519	CA	TRP	D	26	91.654	31.709	32.327	1.00123.67			C
ANISOU	1519	CA	TRP	D	26	10863	20475	15649	-3518	-188	669	C
ATOM	1520	CB	TRP	D	26	92.246	32.904	33.040	1.00133.19			C
ANISOU	1520	CB	TRP	D	26	11984	21661	16961	-3570	-199	753	C
ATOM	1521	CG	TRP	D	26	91.276	33.687	33.865	1.00136.78			C
ANISOU	1521	CG	TRP	D	26	12494	22071	17406	-3639	-269	567	C
ATOM	1522	CD1	TRP	D	26	91.442	34.082	35.148	1.00144.46			C
ANISOU	1522	CD1	TRP	D	26	13454	23054	18381	-3708	-294	557	C
ATOM	1523	NE1	TRP	D	26	90.360	34.800	35.572	1.00144.81			N
ANISOU	1523	NE1	TRP	D	26	13557	23050	18413	-3749	-351	371	N
ATOM	1524	CE2	TRP	D	26	89.460	34.873	34.549	1.00139.34			C
ANISOU	1524	CE2	TRP	D	26	12921	22314	17707	-3708	-367	254	C
ATOM	1525	CD2	TRP	D	26	90.008	34.189	33.457	1.00134.19			C
ANISOU	1525	CD2	TRP	D	26	12239	21683	17063	-3639	-318	371	C
ATOM	1526	CE3	TRP	D	26	89.280	34.122	32.280	1.00133.33			C
ANISOU	1526	CE3	TRP	D	26	12175	21538	16947	-3584	-324	283	C
ATOM	1527	CZ3	TRP	D	26	88.053	34.731	32.234	1.00141.92			C
ANISOU	1527	CZ3	TRP	D	26	13336	22569	18016	-3600	-380	82	C
ATOM	1528	CH2	TRP	D	26	87.537	35.406	33.333	1.00136.63			C
ANISOU	1528	CH2	TRP	D	26	12696	21880	17337	-3667	-423	-26	C
ATOM	1529	CZ2	TRP	D	26	88.222	35.486	34.498	1.00137.51			C
ANISOU	1529	CZ2	TRP	D	26	12762	22028	17458	-3721	-417	58	C
ATOM	1530	C	TRP	D	26	92.627	31.116	31.306	1.00128.48			C
ANISOU	1530	C	TRP	D	26	11403	21123	16289	-3432	-110	871	C
ATOM	1531	O	TRP	D	26	92.592	31.465	30.145	1.00130.84			O
ANISOU	1531	O	TRP	D	26	11669	21395	16649	-3368	-82	910	O
ATOM	1532	N	ARG	D	27	93.518	30.238	31.742	1.00130.99			N
ANISOU	1532	N	ARG	D	27	11699	21507	16565	-3424	-69	1006	N

ATOM	1533	CA	ARG	D	27	94.453	29.598	30.821	1.00129.71			C
ANISOU	1533	CA	ARG	D	27	11477	21389	16419	-3333	15	1205	C
ATOM	1534	CB	ARG	D	27	95.498	28.781	31.579	1.00139.73			C
ANISOU	1534	CB	ARG	D	27	12717	22729	17646	-3340	49	1355	C
ATOM	1535	CG	ARG	D	27	96.519	29.597	32.361	1.00147.35			C
ANISOU	1535	CG	ARG	D	27	13587	23699	18699	-3380	61	1505	C
ATOM	1536	CD	ARG	D	27	97.706	28.758	32.825	1.00155.23			C
ANISOU	1536	CD	ARG	D	27	14544	24770	19667	-3360	110	1691	C
ATOM	1537	NE	ARG	D	27	98.611	28.449	31.721	1.00169.25			N
ANISOU	1537	NE	ARG	D	27	16254	26576	21479	-3253	203	1904	N
ATOM	1538	CZ	ARG	D	27	99.834	27.948	31.861	1.00174.08			C
ANISOU	1538	CZ	ARG	D	27	16807	27244	22093	-3210	263	2116	C
ATOM	1539	NH1	ARG	D	27	100.325	27.698	33.069	1.00171.26			N
ANISOU	1539	NH1	ARG	D	27	16444	26920	21709	-3270	235	2140	N
ATOM	1540	NH2	ARG	D	27	100.568	27.709	30.784	1.00177.40			N
ANISOU	1540	NH2	ARG	D	27	17175	27690	22541	-3099	355	2306	N
ATOM	1541	C	ARG	D	27	93.769	28.681	29.820	1.00123.18			C
ANISOU	1541	C	ARG	D	27	10718	20567	15518	-3264	25	1119	C
ATOM	1542	O	ARG	D	27	94.106	28.661	28.656	1.00126.48			O
ANISOU	1542	O	ARG	D	27	11088	20988	15980	-3174	88	1229	O
ATOM	1543	N	ALA	D	28	92.804	27.916	30.294	1.00122.02			N
ANISOU	1543	N	ALA	D	28	10683	20424	15254	-3300	-30	922	N
ATOM	1544	CA	ALA	D	28	92.058	26.951	29.494	1.00120.61			C
ANISOU	1544	CA	ALA	D	28	10582	20252	14991	-3242	-31	812	C
ATOM	1545	CB	ALA	D	28	91.263	26.031	30.395	1.00119.08			C
ANISOU	1545	CB	ALA	D	28	10505	20078	14661	-3298	-80	629	C
ATOM	1546	C	ALA	D	28	91.144	27.666	28.479	1.00107.31			C
ANISOU	1546	C	ALA	D	28	8916	18502	13355	-3206	-56	688	C
ATOM	1547	O	ALA	D	28	90.916	27.161	27.371	1.00100.54			O
ANISOU	1547	O	ALA	D	28	8070	17648	12484	-3120	-28	684	O
ATOM	1548	N	ALA	D	29	90.604	28.820	28.883	1.00106.93			N
ANISOU	1548	N	ALA	D	29	8875	18395	13359	-3268	-109	584	N
ATOM	1549	CA	ALA	D	29	89.758	29.634	28.013	1.00095.62			C
ANISOU	1549	CA	ALA	D	29	7458	16895	11978	-3240	-141	466	C
ATOM	1550	CB	ALA	D	29	89.265	30.871	28.739	1.00090.26			C
ANISOU	1550	CB	ALA	D	29	6788	16161	11348	-3320	-202	363	C
ATOM	1551	C	ALA	D	29	90.522	30.030	26.767	1.00102.00			C
ANISOU	1551	C	ALA	D	29	8161	17703	12893	-3149	-70	652	C
ATOM	1552	O	ALA	D	29	90.090	29.756	25.649	1.00111.84			O
ANISOU	1552	O	ALA	D	29	9423	18939	14134	-3069	-56	611	O
ATOM	1553	N	GLY	D	30	91.663	30.675	26.969	1.00099.09			N
ANISOU	1553	N	GLY	D	30	7683	17349	12618	-3156	-17	859	N
ATOM	1554	CA	GLY	D	30	92.510	31.071	25.869	1.00104.02			C
ANISOU	1554	CA	GLY	D	30	8203	17981	13340	-3065	76	1062	C
ATOM	1555	C	GLY	D	30	92.906	29.861	25.043	1.00106.54			C
ANISOU	1555	C	GLY	D	30	8521	18359	13600	-2958	156	1166	C
ATOM	1556	O	GLY	D	30	92.984	29.934	23.812	1.00106.28			O
ANISOU	1556	O	GLY	D	30	8451	18325	13607	-2854	222	1236	O
ATOM	1557	N	ALA	D	31	93.152	28.745	25.722	1.00107.83			N
ANISOU	1557	N	ALA	D	31	8727	18577	13668	-2978	154	1178	N
ATOM	1558	CA	ALA	D	31	93.531	27.517	25.041	1.00104.00			C
ANISOU	1558	CA	ALA	D	31	8246	18152	13118	-2878	226	1276	C
ATOM	1559	CB	ALA	D	31	93.856	26.432	26.050	1.00103.93			C
ANISOU	1559	CB	ALA	D	31	8279	18199	13011	-2924	210	1287	C
ATOM	1560	C	ALA	D	31	92.430	27.054	24.094	1.00106.07			C
ANISOU	1560	C	ALA	D	31	8578	18393	13332	-2815	201	1104	C
ATOM	1561	O	ALA	D	31	92.705	26.667	22.956	1.00106.01			O
ANISOU	1561	O	ALA	D	31	8536	18411	13331	-2691	286	1208	O
ATOM	1562	N	ALA	D	32	91.188	27.078	24.572	1.00109.32			N
ANISOU	1562	N	ALA	D	32	9090	18760	13687	-2891	91	844	N
ATOM	1563	CA	ALA	D	32	90.059	26.661	23.750	1.00096.43			C
ANISOU	1563	CA	ALA	D	32	7533	17102	12003	-2836	50	657	C
ATOM	1564	CB	ALA	D	32	88.763	26.690	24.546	1.00082.67			C

ANISOU	1564	CB	ALA	D	32	5915	15313	10183	-2932	-64	377	C
ATOM	1565	C	ALA	D	32	89.952	27.556	22.530	1.00101.25			C
ANISOU	1565	C	ALA	D	32	8083	17674	12714	-2754	81	690	C
ATOM	1566	O	ALA	D	32	89.848	27.059	21.405	1.00115.54			O
ANISOU	1566	O	ALA	D	32	9882	19502	14515	-2635	129	712	O
ATOM	1567	N	THR	D	33	90.007	28.870	22.759	1.00	98.10		N
ANISOU	1567	N	THR	D	33	7640	17224	12411	-2811	58	700	N
ATOM	1568	CA	THR	D	33	89.930	29.851	21.676	1.00	96.23		C
ANISOU	1568	CA	THR	D	33	7341	16946	12277	-2742	87	734	C
ATOM	1569	CB	THR	D	33	90.179	31.264	22.191	1.00	93.01		C
ANISOU	1569	CB	THR	D	33	6879	16489	11973	-2823	64	769	C
ATOM	1570	OG1	THR	D	33	89.144	31.614	23.112	1.00	84.65		O
ANISOU	1570	OG1	THR	D	33	5915	15378	10871	-2933	-61	537	O
ATOM	1571	CG2	THR	D	33	90.188	32.254	21.043	1.00	96.36		C
ANISOU	1571	CG2	THR	D	33	7232	16876	12505	-2747	106	822	C
ATOM	1572	C	THR	D	33	90.927	29.555	20.560	1.00	98.85		C
ANISOU	1572	C	THR	D	33	7578	17332	12649	-2598	237	977	C
ATOM	1573	O	THR	D	33	90.569	29.497	19.380	1.00	99.25		O
ANISOU	1573	O	THR	D	33	7619	17379	12711	-2484	274	957	O
ATOM	1574	N	VAL	D	34	92.181	29.355	20.945	1.00103.17			N
ANISOU	1574	N	VAL	D	34	8061	17933	13208	-2593	329	1208	N
ATOM	1575	CA	VAL	D	34	93.215	29.044	19.981	1.00104.91			C
ANISOU	1575	CA	VAL	D	34	8207	18210	13444	-2447	491	1462	C
ATOM	1576	CB	VAL	D	34	94.607	28.984	20.648	1.00	98.00		C
ANISOU	1576	CB	VAL	D	34	7270	17384	12581	-2465	566	1709	C
ATOM	1577	CG1	VAL	D	34	95.675	28.540	19.646	1.00	93.79		C
ANISOU	1577	CG1	VAL	D	34	6685	16915	12036	-2296	743	1982	C
ATOM	1578	CG2	VAL	D	34	94.957	30.330	21.262	1.00	98.01		C
ANISOU	1578	CG2	VAL	D	34	7211	17341	12686	-2561	535	1750	C
ATOM	1579	C	VAL	D	34	92.908	27.713	19.308	1.00105.84			C
ANISOU	1579	C	VAL	D	34	8376	18376	13463	-2336	530	1430	C
ATOM	1580	O	VAL	D	34	92.986	27.594	18.084	1.00113.55			O
ANISOU	1580	O	VAL	D	34	9328	19373	14444	-2182	636	1509	O
ATOM	1581	N	LEU	D	35	92.485	26.733	20.097	1.00106.57			N
ANISOU	1581	N	LEU	D	35	8546	18485	13460	-2405	445	1301	N
ATOM	1582	CA	LEU	D	35	92.200	25.418	19.547	1.00111.21			C
ANISOU	1582	CA	LEU	D	35	9183	19120	13950	-2306	473	1264	C
ATOM	1583	CB	LEU	D	35	92.018	24.388	20.666	1.00118.25			C
ANISOU	1583	CB	LEU	D	35	10152	20039	14740	-2404	391	1168	C
ATOM	1584	CG	LEU	D	35	91.821	22.936	20.215	1.00123.23			C
ANISOU	1584	CG	LEU	D	35	10833	20724	15266	-2309	419	1142	C
ATOM	1585	CD1	LEU	D	35	92.991	22.469	19.349	1.00122.63			C
ANISOU	1585	CD1	LEU	D	35	10689	20716	15190	-2143	595	1426	C
ATOM	1586	CD2	LEU	D	35	91.640	22.011	21.414	1.00124.14			C
ANISOU	1586	CD2	LEU	D	35	11024	20862	15282	-2420	337	1043	C
ATOM	1587	C	LEU	D	35	90.967	25.479	18.643	1.00106.83			C
ANISOU	1587	C	LEU	D	35	8673	18527	13391	-2244	416	1054	C
ATOM	1588	O	LEU	D	35	90.874	24.732	17.667	1.00108.55			O
ANISOU	1588	O	LEU	D	35	8894	18783	13565	-2095	488	1078	O
ATOM	1589	N	LEU	D	36	90.046	26.394	18.943	1.00100.74			N
ANISOU	1589	N	LEU	D	36	7937	17680	12661	-2343	291	855	N
ATOM	1590	CA	LEU	D	36	88.834	26.560	18.134	1.00100.79			C
ANISOU	1590	CA	LEU	D	36	7991	17641	12662	-2290	212	640	C
ATOM	1591	CB	LEU	D	36	87.839	27.504	18.816	1.00	95.70		C
ANISOU	1591	CB	LEU	D	36	7415	16911	12036	-2430	60	412	C
ATOM	1592	CG	LEU	D	36	86.488	27.603	18.097	1.00	85.98		C
ANISOU	1592	CG	LEU	D	36	6262	15628	10777	-2385	-48	160	C
ATOM	1593	CD1	LEU	D	36	85.846	26.226	18.018	1.00	80.72		C
ANISOU	1593	CD1	LEU	D	36	5690	14994	9985	-2342	-92	15	C
ATOM	1594	CD2	LEU	D	36	85.547	28.602	18.773	1.00	77.86		C
ANISOU	1594	CD2	LEU	D	36	5313	14513	9756	-2511	-176	-49	C
ATOM	1595	C	LEU	D	36	89.161	27.082	16.733	1.00101.25			C
ANISOU	1595	C	LEU	D	36	7961	17708	12799	-2124	332	773	C

ATOM	1596	O	LEU	D	36	88.757	26.485	15.733	1.00	97.08	O	
ANISOU	1596	O	LEU	D	36	7434	17247	12206	-1986	362	737	O
ATOM	1597	N	VAL	D	37	89.867	28.213	16.680	1.00	101.31	N	
ANISOU	1597	N	VAL	D	37	7886	17697	12909	-2140	402	930	N
ATOM	1598	CA	VAL	D	37	90.279	28.843	15.425	1.00	98.86	C	
ANISOU	1598	CA	VAL	D	37	7497	17396	12670	-1983	545	1079	C
ATOM	1599	CB	VAL	D	37	91.141	30.090	15.700	1.00	94.39	C	
ANISOU	1599	CB	VAL	D	37	6851	16806	12208	-2044	605	1252	C
ATOM	1600	CG1	VAL	D	37	91.656	30.692	14.406	1.00	94.86	C	
ANISOU	1600	CG1	VAL	D	37	6826	16934	12283	-1881	773	1451	C
ATOM	1601	CG2	VAL	D	37	90.336	31.120	16.468	1.00	94.75	C	
ANISOU	1601	CG2	VAL	D	37	6921	16765	12314	-2212	429	1049	C
ATOM	1602	C	VAL	D	37	91.060	27.859	14.552	1.00	102.38	C	
ANISOU	1602	C	VAL	D	37	7871	18104	12924	-1818	717	1350	C
ATOM	1603	O	VAL	D	37	91.003	27.909	13.325	1.00	103.02	O	
ANISOU	1603	O	VAL	D	37	7855	18457	12832	-1666	803	1501	O
ATOM	1604	N	ILE	D	38	91.740	26.922	15.197	1.00	100.99	N	
ANISOU	1604	N	ILE	D	38	7747	17872	12753	-1825	765	1422	N
ATOM	1605	CA	ILE	D	38	92.489	25.899	14.487	1.00	100.40	C	
ANISOU	1605	CA	ILE	D	38	7624	18040	12482	-1662	917	1693	C
ATOM	1606	CB	ILE	D	38	93.473	25.167	15.435	1.00	103.98	C	
ANISOU	1606	CB	ILE	D	38	8143	18352	13011	-1704	965	1770	C
ATOM	1607	CG1	ILE	D	38	94.560	26.135	15.910	1.00	101.47	C	
ANISOU	1607	CG1	ILE	D	38	7769	17984	12800	-1765	1021	1960	C
ATOM	1608	CD1	ILE	D	38	95.416	25.599	17.027	1.00	114.63	C	
ANISOU	1608	CD1	ILE	D	38	9431	19686	14437	-1860	996	2075	C
ATOM	1609	CG2	ILE	D	38	94.122	23.983	14.736	1.00	96.81	C	
ANISOU	1609	CG2	ILE	D	38	7212	17677	11895	-1526	1100	2027	C
ATOM	1610	C	ILE	D	38	91.521	24.908	13.857	1.00	95.24	C	
ANISOU	1610	C	ILE	D	38	6966	17617	11602	-1579	859	1580	C
ATOM	1611	O	ILE	D	38	91.650	24.570	12.682	1.00	94.66	O	
ANISOU	1611	O	ILE	D	38	6820	17822	11326	-1362	982	1777	O
ATOM	1612	N	VAL	D	39	90.545	24.467	14.647	1.00	96.01	N	
ANISOU	1612	N	VAL	D	39	7161	17585	11735	-1721	679	1261	N
ATOM	1613	CA	VAL	D	39	89.515	23.537	14.186	1.00	96.80	C	
ANISOU	1613	CA	VAL	D	39	7274	17876	11628	-1670	590	1078	C
ATOM	1614	CB	VAL	D	39	88.550	23.166	15.331	1.00	87.04	C	
ANISOU	1614	CB	VAL	D	39	6193	16390	10487	-1846	392	736	C
ATOM	1615	CG1	VAL	D	39	87.398	22.311	14.812	1.00	80.27	C	
ANISOU	1615	CG1	VAL	D	39	5364	15719	9417	-1801	285	498	C
ATOM	1616	CG2	VAL	D	39	89.305	22.442	16.435	1.00	90.84	C	
ANISOU	1616	CG2	VAL	D	39	6752	16688	11073	-1906	427	808	C
ATOM	1617	C	VAL	D	39	88.716	24.105	13.010	1.00	97.77	C	
ANISOU	1617	C	VAL	D	39	7312	18224	11613	-1557	567	1003	C
ATOM	1618	O	VAL	D	39	88.335	23.374	12.085	1.00	90.38	O	
ANISOU	1618	O	VAL	D	39	6321	17578	10441	-1373	601	996	O
ATOM	1619	N	LEU	D	40	88.463	25.410	13.051	1.00	98.72	N	
ANISOU	1619	N	LEU	D	40	7420	18209	11878	-1640	512	932	N
ATOM	1620	CA	LEU	D	40	87.751	26.070	11.967	1.00	94.42	C	
ANISOU	1620	CA	LEU	D	40	6792	17863	11219	-1531	487	853	C
ATOM	1621	CB	LEU	D	40	87.483	27.535	12.316	1.00	90.28	C	
ANISOU	1621	CB	LEU	D	40	6289	17106	10906	-1675	398	749	C
ATOM	1622	CG	LEU	D	40	86.627	27.781	13.555	1.00	82.08	C	
ANISOU	1622	CG	LEU	D	40	5429	15703	10054	-1889	189	424	C
ATOM	1623	CD1	LEU	D	40	86.412	29.274	13.799	1.00	85.50	C	
ANISOU	1623	CD1	LEU	D	40	5882	15913	10692	-1976	124	361	C
ATOM	1624	CD2	LEU	D	40	85.306	27.069	13.380	1.00	81.84	C	
ANISOU	1624	CD2	LEU	D	40	5494	15734	9866	-1888	23	93	C
ATOM	1625	C	LEU	D	40	88.544	25.990	10.663	1.00	97.30	C	
ANISOU	1625	C	LEU	D	40	7021	18541	11406	-1226	728	1219	C
ATOM	1626	O	LEU	D	40	88.059	25.463	9.658	1.00	98.49	O	
ANISOU	1626	O	LEU	D	40	7120	18979	11322	-982	768	1189	O
ATOM	1627	N	LEU	D	41	89.788	26.460	10.705	1.00	99.54	N	

ANISOU	1627	N	LEU	D	41	7278	18744	11799	-1193	901	1562	N
ATOM	1628	CA	LEU	D	41	90.649	26.459	9.527	1.00	91.38		C
ANISOU	1628	CA	LEU	D	41	6182	17919	10620	-868	1160	1963	C
ATOM	1629	CB	LEU	D	41	91.993	27.121	9.827	1.00	88.18		C
ANISOU	1629	CB	LEU	D	41	5779	17337	10387	-906	1295	2272	C
ATOM	1630	CG	LEU	D	41	91.950	28.556	10.348	1.00	93.64		C
ANISOU	1630	CG	LEU	D	41	6446	17816	11316	-1120	1205	2167	C
ATOM	1631	CD1	LEU	D	41	93.355	29.098	10.580	1.00	88.69		C
ANISOU	1631	CD1	LEU	D	41	5822	17049	10829	-1118	1349	2462	C
ATOM	1632	CD2	LEU	D	41	91.172	29.428	9.385	1.00	89.25		C
ANISOU	1632	CD2	LEU	D	41	5813	17407	10690	-1009	1196	2113	C
ATOM	1633	C	LEU	D	41	90.881	25.052	9.027	1.00	100.42		C
ANISOU	1633	C	LEU	D	41	7363	19257	11536	-619	1282	2101	C
ATOM	1634	O	LEU	D	41	90.845	24.799	7.828	1.00	103.24		O
ANISOU	1634	O	LEU	D	41	7720	19835	11670	-253	1446	2263	O
ATOM	1635	N	ALA	D	42	91.111	24.131	9.950	1.00	104.62		N
ANISOU	1635	N	ALA	D	42	7957	19681	12114	-778	1212	2033	N
ATOM	1636	CA	ALA	D	42	91.363	22.747	9.576	1.00	103.44		C
ANISOU	1636	CA	ALA	D	42	7852	19690	11759	-562	1315	2156	C
ATOM	1637	CB	ALA	D	42	91.735	21.923	10.814	1.00	98.56		C
ANISOU	1637	CB	ALA	D	42	7299	18896	11253	-798	1223	2080	C
ATOM	1638	C	ALA	D	42	90.148	22.133	8.883	1.00	104.05		C
ANISOU	1638	C	ALA	D	42	7920	20010	11605	-384	1250	1902	C
ATOM	1639	O	ALA	D	42	90.257	21.613	7.773	1.00	106.43		O
ANISOU	1639	O	ALA	D	42	8261	20515	11665	17	1433	2075	O
ATOM	1640	N	GLY	D	43	88.990	22.242	9.539	1.00	99.07		N
ANISOU	1640	N	GLY	D	43	7281	19318	11045	-650	990	1472	N
ATOM	1641	CA	GLY	D	43	87.731	21.716	9.039	1.00	95.52		C
ANISOU	1641	CA	GLY	D	43	6822	19066	10406	-530	860	1124	C
ATOM	1642	C	GLY	D	43	87.284	22.368	7.753	1.00	97.13		C
ANISOU	1642	C	GLY	D	43	7004	19446	10455	-190	934	1107	C
ATOM	1643	O	GLY	D	43	86.828	21.692	6.833	1.00	100.52		O
ANISOU	1643	O	GLY	D	43	7800	19742	10653	188	905	983	O
ATOM	1644	N	SER	D	44	87.396	23.689	7.701	1.00	95.03		N
ANISOU	1644	N	SER	D	44	6649	19122	10335	-294	941	1174	N
ATOM	1645	CA	SER	D	44	87.047	24.435	6.501	1.00	98.82		C
ANISOU	1645	CA	SER	D	44	7377	19472	10700	45	957	1145	C
ATOM	1646	CB	SER	D	44	87.352	25.923	6.676	1.00	98.69		C
ANISOU	1646	CB	SER	D	44	7128	19480	10891	-152	997	1279	C
ATOM	1647	OG	SER	D	44	86.510	26.469	7.672	1.00	94.12		O
ANISOU	1647	OG	SER	D	44	6436	18819	10506	-587	715	904	O
ATOM	1648	C	SER	D	44	87.809	23.862	5.314	1.00	101.08		C
ANISOU	1648	C	SER	D	44	7954	19696	10756	564	1210	1488	C
ATOM	1649	O	SER	D	44	87.235	23.605	4.261	1.00	107.00		O
ANISOU	1649	O	SER	D	44	9080	20283	11293	950	1164	1338	O
ATOM	1650	N	TYR	D	45	89.112	23.679	5.496	1.00	102.78		N
ANISOU	1650	N	TYR	D	45	7989	20044	11017	572	1477	1951	N
ATOM	1651	CA	TYR	D	45	89.965	23.095	4.472	1.00	110.18		C
ANISOU	1651	CA	TYR	D	45	9164	20950	11748	1038	1735	2318	C
ATOM	1652	CB	TYR	D	45	91.417	23.100	4.948	1.00	113.83		C
ANISOU	1652	CB	TYR	D	45	9351	21567	12333	924	2001	2810	C
ATOM	1653	CG	TYR	D	45	92.366	22.365	4.031	1.00	120.46		C
ANISOU	1653	CG	TYR	D	45	10407	22394	12967	1369	2265	3197	C
ATOM	1654	CD1	TYR	D	45	92.606	21.002	4.207	1.00	121.45		C
ANISOU	1654	CD1	TYR	D	45	10631	22540	12975	1444	2276	3220	C
ATOM	1655	CE1	TYR	D	45	93.466	20.313	3.379	1.00	128.11		C
ANISOU	1655	CE1	TYR	D	45	11696	23339	13642	1841	2481	3551	C
ATOM	1656	CZ	TYR	D	45	94.111	20.984	2.362	1.00	129.02		C
ANISOU	1656	CZ	TYR	D	45	11947	23376	13699	2169	2677	3866	C
ATOM	1657	OH	TYR	D	45	94.974	20.291	1.541	1.00	127.56		O
ANISOU	1657	OH	TYR	D	45	11996	23113	13357	2555	2847	4176	O
ATOM	1658	CE2	TYR	D	45	93.896	22.339	2.167	1.00	125.12		C
ANISOU	1658	CE2	TYR	D	45	11357	22867	13315	2107	2687	3862	C

ATOM	1659	CD2	TYR	D	45	93.027	23.021	3.000	1.00118.31		C	
ANISOU	1659	CD2	TYR	D	45	10262	22063	12627	1709	2484	3530	C
ATOM	1660	C	TYR	D	45	89.544	21.676	4.120	1.00114.15		C	
ANISOU	1660	C	TYR	D	45	9951	21402	12019	1291	1671	2151	C
ATOM	1661	O	TYR	D	45	89.410	21.321	2.942	1.00126.23		O	
ANISOU	1661	O	TYR	D	45	11847	22798	13319	1755	1724	2170	O
ATOM	1662	N	LEU	D	46	89.400	20.858	5.141	1.00103.87		N	
ANISOU	1662	N	LEU	D	46	8473	20212	10782	993	1571	2012	N
ATOM	1663	CA	LEU	D	46	89.067	19.471	4.951	1.00107.72		C	
ANISOU	1663	CA	LEU	D	46	9185	20671	11074	1187	1513	1869	C
ATOM	1664	CB	LEU	D	46	89.100	18.737	6.275	1.00111.40		C	
ANISOU	1664	CB	LEU	D	46	9366	21294	11666	778	1432	1779	C
ATOM	1665	CG	LEU	D	46	90.480	18.388	6.817	1.00104.13		C	
ANISOU	1665	CG	LEU	D	46	8229	20506	10828	672	1664	2222	C
ATOM	1666	CD1	LEU	D	46	90.495	18.436	8.326	1.00	95.09		C
ANISOU	1666	CD1	LEU	D	46	6979	19188	9964	136	1440	2049	C
ATOM	1667	CD2	LEU	D	46	90.876	17.009	6.350	1.00106.14		C	
ANISOU	1667	CD2	LEU	D	46	8658	20819	10851	996	1799	2375	C
ATOM	1668	C	LEU	D	46	87.730	19.333	4.285	1.00109.75		C	
ANISOU	1668	C	LEU	D	46	9780	20737	11181	1390	1273	1418	C
ATOM	1669	O	LEU	D	46	87.501	18.417	3.522	1.00115.76		O	
ANISOU	1669	O	LEU	D	46	10859	21408	11719	1755	1273	1359	O
ATOM	1670	N	ALA	D	47	86.831	20.245	4.585	1.00107.51		N	
ANISOU	1670	N	ALA	D	47	9430	20395	11026	1151	1062	1090	N
ATOM	1671	CA	ALA	D	47	85.502	20.172	4.023	1.00110.52		C	
ANISOU	1671	CA	ALA	D	47	10117	20596	11282	1311	818	631	C
ATOM	1672	CB	ALA	D	47	84.666	21.285	4.593	1.00103.99		C	
ANISOU	1672	CB	ALA	D	47	9124	19745	10643	954	599	312	C
ATOM	1673	C	ALA	D	47	85.461	20.239	2.514	1.00113.26		C	
ANISOU	1673	C	ALA	D	47	10866	20770	11397	1863	910	707	C
ATOM	1674	O	ALA	D	47	84.729	19.505	1.879	1.00111.67		O	
ANISOU	1674	O	ALA	D	47	10985	20440	11003	2147	795	454	O
ATOM	1675	N	VAL	D	48	86.240	21.122	1.930	1.00115.59		N	
ANISOU	1675	N	VAL	D	48	11148	21059	11712	2024	1116	1053	N
ATOM	1676	CA	VAL	D	48	86.245	21.246	0.495	1.00110.15		C	
ANISOU	1676	CA	VAL	D	48	10831	20211	10808	2551	1215	1146	C
ATOM	1677	CB	VAL	D	48	87.192	22.341	0.063	1.00105.62		C	
ANISOU	1677	CB	VAL	D	48	10163	19660	10307	2640	1451	1555	C
ATOM	1678	CG1	VAL	D	48	87.000	22.637	-1.393	1.00113.31		C	
ANISOU	1678	CG1	VAL	D	48	11524	20454	11075	3156	1513	1582	C
ATOM	1679	CG2	VAL	D	48	86.927	23.579	0.868	1.00109.92		C	
ANISOU	1679	CG2	VAL	D	48	10404	20250	11110	2199	1340	1436	C
ATOM	1680	C	VAL	D	48	86.714	19.959	-0.123	1.00117.67		C	
ANISOU	1680	C	VAL	D	48	12017	21159	11535	2936	1351	1327	C
ATOM	1681	O	VAL	D	48	86.183	19.534	-1.123	1.00127.37		O	
ANISOU	1681	O	VAL	D	48	13611	22235	12548	3341	1302	1177	O
ATOM	1682	N	LEU	D	49	87.716	19.336	0.476	1.00116.35		N	
ANISOU	1682	N	LEU	D	49	11634	21158	11416	2812	1522	1648	N
ATOM	1683	CA	LEU	D	49	88.251	18.093	-0.048	1.00124.94		C	
ANISOU	1683	CA	LEU	D	49	12917	22258	12295	3158	1660	1848	C
ATOM	1684	CB	LEU	D	49	89.447	17.624	0.788	1.00131.57		C	
ANISOU	1684	CB	LEU	D	49	13446	23306	13237	2936	1856	2226	C
ATOM	1685	CG	LEU	D	49	90.306	16.428	0.331	1.00140.89		C	
ANISOU	1685	CG	LEU	D	49	14765	24538	14228	3263	2055	2540	C
ATOM	1686	CD1	LEU	D	49	91.774	16.534	0.705	1.00147.46		C	
ANISOU	1686	CD1	LEU	D	49	15329	25545	15156	3168	2343	3058	C
ATOM	1687	CD2	LEU	D	49	89.736	15.108	0.786	1.00136.25		C	
ANISOU	1687	CD2	LEU	D	49	14243	23966	13559	3203	1892	2266	C
ATOM	1688	C	LEU	D	49	87.208	17.018	-0.049	1.00123.18		C	
ANISOU	1688	C	LEU	D	49	12909	21953	11940	3229	1430	1432	C
ATOM	1689	O	LEU	D	49	87.101	16.261	-0.988	1.00130.52		O	
ANISOU	1689	O	LEU	D	49	14167	22784	12640	3662	1458	1429	O
ATOM	1690	N	ALA	D	50	86.436	16.932	1.011	1.00113.22		N	

ANISOU	1690	N	ALA	D	50	11459	20734	10825	2805	1200	1079	N
ATOM	1691	CA	ALA	D	50	85.427	15.888	1.043	1.00118.18			C
ANISOU	1691	CA	ALA	D	50	12284	21283	11336	2860	977	677	C
ATOM	1692	CB	ALA	D	50	84.911	15.696	2.474	1.00118.40			C
ANISOU	1692	CB	ALA	D	50	12005	21420	11560	2318	780	399	C
ATOM	1693	C	ALA	D	50	84.275	16.195	0.082	1.00121.80			C
ANISOU	1693	C	ALA	D	50	13096	21524	11660	3151	795	308	C
ATOM	1694	O	ALA	D	50	83.680	15.284	-0.495	1.00121.97			O
ANISOU	1694	O	ALA	D	50	13415	21435	11494	3445	696	94	O
ATOM	1695	N	GLU	D	51	83.978	17.486	-0.089	1.00123.97			N
ANISOU	1695	N	GLU	D	51	13334	21735	12033	3072	752	237	N
ATOM	1696	CA	GLU	D	51	82.842	17.928	-0.903	1.00116.61			C
ANISOU	1696	CA	GLU	D	51	12707	20600	11000	3296	566	-137	C
ATOM	1697	CB	GLU	D	51	82.221	19.183	-0.285	1.00112.18			C
ANISOU	1697	CB	GLU	D	51	11939	20033	10649	2904	401	-377	C
ATOM	1698	CG	GLU	D	51	81.703	18.962	1.121	1.00103.78			C
ANISOU	1698	CG	GLU	D	51	10576	19080	9775	2370	199	-654	C
ATOM	1699	CD	GLU	D	51	80.317	18.336	1.109	1.00100.23			C
ANISOU	1699	CD	GLU	D	51	10339	18504	9241	2385	-95	-1192	C
ATOM	1700	OE1	GLU	D	51	79.344	19.027	0.697	1.00 92.17			O
ANISOU	1700	OE1	GLU	D	51	9477	17337	8206	2432	-275	-1526	O
ATOM	1701	OE2	GLU	D	51	80.207	17.146	1.496	1.00 99.68			O
ANISOU	1701	OE2	GLU	D	51	10280	18476	9117	2355	-146	-1279	O
ATOM	1702	C	GLU	D	51	83.104	18.196	-2.382	1.00120.27			C
ANISOU	1702	C	GLU	D	51	13513	20923	11261	3851	717	51	C
ATOM	1703	O	GLU	D	51	82.298	17.786	-3.214	1.00126.89			O
ANISOU	1703	O	GLU	D	51	14699	21597	11915	4189	595	-221	O
ATOM	1704	N	ARG	D	52	84.172	18.894	-2.722	1.00123.32			N
ANISOU	1704	N	ARG	D	52	13810	21368	11680	3950	972	494	N
ATOM	1705	CA	ARG	D	52	84.365	19.251	-4.112	1.00126.75			C
ANISOU	1705	CA	ARG	D	52	14563	21666	11932	4463	1107	656	C
ATOM	1706	CB	ARG	D	52	85.663	20.025	-4.283	1.00121.28			C
ANISOU	1706	CB	ARG	D	52	13700	21068	11313	4496	1404	1182	C
ATOM	1707	CG	ARG	D	52	85.731	20.822	-5.562	1.00132.94			C
ANISOU	1707	CG	ARG	D	52	15441	22402	12668	4917	1513	1306	C
ATOM	1708	CD	ARG	D	52	86.803	21.886	-5.502	1.00142.62			C
ANISOU	1708	CD	ARG	D	52	16432	23719	14038	4820	1752	1742	C
ATOM	1709	NE	ARG	D	52	86.318	23.102	-6.128	1.00159.55			N
ANISOU	1709	NE	ARG	D	52	18693	25730	16200	4920	1703	1629	N
ATOM	1710	CZ	ARG	D	52	86.663	23.517	-7.338	1.00174.94			C
ANISOU	1710	CZ	ARG	D	52	20890	27576	18004	5368	1868	1849	C
ATOM	1711	NH1	ARG	D	52	87.533	22.822	-8.059	1.00179.69			N
ANISOU	1711	NH1	ARG	D	52	21644	28196	18432	5760	2099	2210	N
ATOM	1712	NH2	ARG	D	52	86.143	24.640	-7.822	1.00175.26			N
ANISOU	1712	NH2	ARG	D	52	21023	27495	18072	5422	1802	1711	N
ATOM	1713	C	ARG	D	52	84.328	18.060	-5.037	1.00131.23			C
ANISOU	1713	C	ARG	D	52	15483	22146	12231	4952	1145	663	C
ATOM	1714	O	ARG	D	52	84.912	17.026	-4.781	1.00132.50			O
ANISOU	1714	O	ARG	D	52	15599	22407	12337	4981	1240	844	O
ATOM	1715	N	GLY	D	53	83.612	18.227	-6.130	1.00132.49			N
ANISOU	1715	N	GLY	D	53	16002	22116	12223	5343	1064	454	N
ATOM	1716	CA	GLY	D	53	83.474	17.181	-7.111	1.00136.19			C
ANISOU	1716	CA	GLY	D	53	16834	22480	12430	5843	1081	428	C
ATOM	1717	C	GLY	D	53	82.344	16.230	-6.813	1.00135.14			C
ANISOU	1717	C	GLY	D	53	16827	22277	12242	5786	807	-50	C
ATOM	1718	O	GLY	D	53	82.079	15.323	-7.593	1.00139.74			O
ANISOU	1718	O	GLY	D	53	17721	22761	12614	6189	782	-135	O
ATOM	1719	N	ALA	D	54	81.662	16.437	-5.696	1.00127.30			N
ANISOU	1719	N	ALA	D	54	15597	21332	11440	5292	597	-367	N
ATOM	1720	CA	ALA	D	54	80.543	15.563	-5.381	1.00125.68			C
ANISOU	1720	CA	ALA	D	54	15504	21056	11193	5220	329	-837	C
ATOM	1721	CB	ALA	D	54	80.349	15.436	-3.879	1.00119.94			C
ANISOU	1721	CB	ALA	D	54	14408	20474	10688	4629	197	-991	C

ATOM	1722	C	ALA	D	54	79.289	16.120	-6.037	1.00130.58	C		
ANISOU	1722	C	ALA	D	54	16394	21471	11749	5380	110	-1276	C
ATOM	1723	O	ALA	D	54	79.257	17.291	-6.421	1.00139.74	O		
ANISOU	1723	O	ALA	D	54	17567	22574	12953	5407	142	-1241	O
ATOM	1724	N	PRO	D	55	78.308	15.265	-6.207	1.00125.36	N		
ANISOU	1724	N	PRO	D	55	15954	20697	10979	5506	-100	-1670	N
ATOM	1725	CA	PRO	D	55	77.065	15.657	-6.829	1.00119.75	C		
ANISOU	1725	CA	PRO	D	55	15518	19785	10196	5673	-321	-2117	C
ATOM	1726	CB	PRO	D	55	76.354	14.331	-7.043	1.00114.41	C		
ANISOU	1726	CB	PRO	D	55	15076	19015	9382	5873	-480	-2412	C
ATOM	1727	CG	PRO	D	55	77.386	13.289	-6.891	1.00113.56	C		
ANISOU	1727	CG	PRO	D	55	14895	19047	9206	5965	-286	-2045	C
ATOM	1728	CD	PRO	D	55	78.318	13.842	-5.880	1.00124.91	C		
ANISOU	1728	CD	PRO	D	55	15920	20690	10852	5528	-138	-1716	C
ATOM	1729	C	PRO	D	55	76.279	16.481	-5.856	1.00119.64	C		
ANISOU	1729	C	PRO	D	55	15268	19791	10399	5163	-536	-2451	C
ATOM	1730	O	PRO	D	55	76.164	16.108	-4.709	1.00110.09	O		
ANISOU	1730	O	PRO	D	55	13793	18701	9336	4739	-633	-2556	O
ATOM	1731	N	GLY	D	56	75.713	17.578	-6.316	1.00122.70	N		
ANISOU	1731	N	GLY	D	56	15759	20061	10800	5211	-617	-2628	N
ATOM	1732	CA	GLY	D	56	74.922	18.389	-5.435	1.00118.25	C		
ANISOU	1732	CA	GLY	D	56	14985	19510	10435	4740	-832	-2961	C
ATOM	1733	C	GLY	D	56	75.663	18.762	-4.188	1.00111.00	C		
ANISOU	1733	C	GLY	D	56	13617	18807	9752	4228	-750	-2719	C
ATOM	1734	O	GLY	D	56	75.233	18.443	-3.110	1.00108.18	O		
ANISOU	1734	O	GLY	D	56	13042	18532	9531	3819	-911	-2943	O
ATOM	1735	N	ALA	D	57	76.800	19.409	-4.332	1.00117.16	N		
ANISOU	1735	N	ALA	D	57	14254	19679	10580	4258	-494	-2253	N
ATOM	1736	CA	ALA	D	57	77.563	19.808	-3.181	1.00104.35	C		
ANISOU	1736	CA	ALA	D	57	12202	18260	9185	3788	-402	-2002	C
ATOM	1737	CB	ALA	D	57	78.903	19.142	-3.224	1.00104.95	C		
ANISOU	1737	CB	ALA	D	57	12192	18469	9214	3925	-117	-1495	C
ATOM	1738	C	ALA	D	57	77.731	21.286	-3.276	1.00116.26	C		
ANISOU	1738	C	ALA	D	57	13595	19763	10816	3675	-354	-1900	C
ATOM	1739	O	ALA	D	57	77.723	21.815	-4.367	1.00125.31	O		
ANISOU	1739	O	ALA	D	57	14995	20780	11838	4048	-281	-1837	O
ATOM	1740	N	GLN	D	58	77.838	21.966	-2.143	1.00118.21	N		
ANISOU	1740	N	GLN	D	58	13465	20144	11306	3164	-406	-1900	N
ATOM	1741	CA	GLN	D	58	78.029	23.414	-2.145	1.00120.95	C		
ANISOU	1741	CA	GLN	D	58	13667	20496	11790	3019	-364	-1794	C
ATOM	1742	CB	GLN	D	58	76.794	24.123	-1.593	1.00117.19	C		
ANISOU	1742	CB	GLN	D	58	13125	19963	11440	2682	-670	-2288	C
ATOM	1743	CG	GLN	D	58	75.487	23.763	-2.280	1.00126.34	C		
ANISOU	1743	CG	GLN	D	58	14655	20920	12428	2937	-903	-2773	C
ATOM	1744	CD	GLN	D	58	75.213	24.574	-3.528	1.00136.40	C		
ANISOU	1744	CD	GLN	D	58	16237	22017	13572	3329	-876	-2804	C
ATOM	1745	OE1	GLN	D	58	75.690	25.695	-3.677	1.00140.83	O		
ANISOU	1745	OE1	GLN	D	58	16689	22598	14222	3286	-764	-2585	O
ATOM	1746	NE2	GLN	D	58	74.428	24.008	-4.430	1.00134.58	N		
ANISOU	1746	NE2	GLN	D	58	16393	21609	13131	3716	-983	-3083	N
ATOM	1747	C	GLN	D	58	79.277	23.897	-1.399	1.00112.42	C		
ANISOU	1747	C	GLN	D	58	12196	19614	10903	2727	-147	-1339	C
ATOM	1748	O	GLN	D	58	79.745	25.004	-1.609	1.00114.11	O		
ANISOU	1748	O	GLN	D	58	12316	19837	11204	2711	-33	-1122	O
ATOM	1749	N	LEU	D	59	79.800	23.056	-0.526	1.00107.01	N		
ANISOU	1749	N	LEU	D	59	11287	19086	10288	2500	-95	-1202	N
ATOM	1750	CA	LEU	D	59	80.978	23.368	0.280	1.00110.10	C		
ANISOU	1750	CA	LEU	D	59	11294	19674	10864	2206	102	-787	C
ATOM	1751	CB	LEU	D	59	80.936	22.510	1.551	1.00104.85	C		
ANISOU	1751	CB	LEU	D	59	10366	19159	10314	1811	7	-891	C
ATOM	1752	CG	LEU	D	59	81.113	23.130	2.934	1.00	90.74	C	
ANISOU	1752	CG	LEU	D	59	8127	17542	8810	1235	-53	-887	C
ATOM	1753	CD1	LEU	D	59	80.260	24.370	3.020	1.00	85.85	C	

ANISOU	1753	CD1	LEU	D	59	7468	16844	8307	1041	-250	-1190	C
ATOM	1754	CD2	LEU	D	59	80.696	22.127	4.001	1.00	81.86		C
ANISOU	1754	CD2	LEU	D	59	6851	16511	7742	922	-211	-1123	C
ATOM	1755	C	LEU	D	59	82.238	23.092	-0.560	1.00	110.09		C
ANISOU	1755	C	LEU	D	59	11400	19696	10732	2605	432	-265	C
ATOM	1756	O	LEU	D	59	83.124	22.327	-0.165	1.00	109.48		O
ANISOU	1756	O	LEU	D	59	11182	19754	10661	2568	594	32	O
ATOM	1757	N	ILE	D	60	82.315	23.753	-1.714	1.00	117.85		N
ANISOU	1757	N	ILE	D	60	12628	20549	11601	2982	530	-154	N
ATOM	1758	CA	ILE	D	60	83.350	23.480	-2.711	1.00	117.57		C
ANISOU	1758	CA	ILE	D	60	12766	20501	11403	3435	823	294	C
ATOM	1759	CB	ILE	D	60	82.674	23.125	-4.058	1.00	119.87		C
ANISOU	1759	CB	ILE	D	60	13534	20586	11427	3971	771	102	C
ATOM	1760	CG1	ILE	D	60	81.935	24.336	-4.625	1.00	112.61		C
ANISOU	1760	CG1	ILE	D	60	12749	19518	10520	4037	657	-121	C
ATOM	1761	CD1	ILE	D	60	81.218	24.057	-5.922	1.00	113.09		C
ANISOU	1761	CD1	ILE	D	60	13272	19371	10327	4552	592	-335	C
ATOM	1762	CG2	ILE	D	60	81.708	21.955	-3.877	1.00	112.91		C
ANISOU	1762	CG2	ILE	D	60	12817	19647	10436	3988	544	-310	C
ATOM	1763	C	ILE	D	60	84.392	24.576	-2.968	1.00	118.24		C
ANISOU	1763	C	ILE	D	60	12700	20639	11588	3459	1070	736	C
ATOM	1764	O	ILE	D	60	85.213	24.442	-3.873	1.00	127.93		O
ANISOU	1764	O	ILE	D	60	14088	21843	12676	3855	1313	1102	O
ATOM	1765	N	THR	D	61	84.357	25.658	-2.196	1.00	117.46		N
ANISOU	1765	N	THR	D	61	12297	20606	11727	3047	1009	703	N
ATOM	1766	CA	THR	D	61	85.403	26.683	-2.273	1.00	119.57		C
ANISOU	1766	CA	THR	D	61	12364	20942	12123	3011	1242	1135	C
ATOM	1767	CB	THR	D	61	85.026	27.932	-3.125	1.00	112.98		C
ANISOU	1767	CB	THR	D	61	11691	19960	11275	3193	1225	1076	C
ATOM	1768	OG1	THR	D	61	84.318	28.884	-2.320	1.00	108.42		O
ANISOU	1768	OG1	THR	D	61	10891	19396	10909	2757	1007	777	O
ATOM	1769	CG2	THR	D	61	84.196	27.557	-4.327	1.00	121.58		C
ANISOU	1769	CG2	THR	D	61	13245	20848	12102	3665	1136	820	C
ATOM	1770	C	THR	D	61	85.703	27.114	-0.852	1.00	126.60		C
ANISOU	1770	C	THR	D	61	12790	22010	13300	2436	1200	1171	C
ATOM	1771	O	THR	D	61	84.817	27.076	0.006	1.00	125.27		O
ANISOU	1771	O	THR	D	61	12498	21862	13239	2080	943	779	O
ATOM	1772	N	TYR	D	62	86.946	27.548	-0.620	1.00	114.35		N
ANISOU	1772	N	TYR	D	62	11464	17718	14265	-915	345	1224	N
ATOM	1773	CA	TYR	D	62	87.464	27.927	0.706	1.00	116.02		C
ANISOU	1773	CA	TYR	D	62	11751	17853	14479	-1064	350	1302	C
ATOM	1774	CB	TYR	D	62	88.980	28.170	0.634	1.00	122.60		C
ANISOU	1774	CB	TYR	D	62	12397	19055	15130	-1019	303	1398	C
ATOM	1775	CG	TYR	D	62	89.830	26.961	0.286	1.00	124.79		C
ANISOU	1775	CG	TYR	D	62	12619	19531	15265	-740	223	1311	C
ATOM	1776	CD1	TYR	D	62	89.890	25.871	1.121	1.00	121.64		C
ANISOU	1776	CD1	TYR	D	62	12381	18964	14873	-625	184	1213	C
ATOM	1777	CE1	TYR	D	62	90.661	24.774	0.812	1.00	124.41		C
ANISOU	1777	CE1	TYR	D	62	12682	19493	15095	-373	110	1134	C
ATOM	1778	CZ	TYR	D	62	91.389	24.763	-0.336	1.00	129.81		C
ANISOU	1778	CZ	TYR	D	62	13153	20528	15641	-232	76	1154	C
ATOM	1779	OH	TYR	D	62	92.155	23.671	-0.633	1.00	131.84		O
ANISOU	1779	OH	TYR	D	62	13362	20960	15770	19	3	1075	O
ATOM	1780	CE2	TYR	D	62	91.363	25.837	-1.183	1.00	134.28		C
ANISOU	1780	CE2	TYR	D	62	13555	21271	16195	-342	114	1252	C
ATOM	1781	CD2	TYR	D	62	90.587	26.930	-0.869	1.00	133.17		C
ANISOU	1781	CD2	TYR	D	62	13466	20950	16184	-595	187	1331	C
ATOM	1782	C	TYR	D	62	86.807	29.083	1.462	1.00	105.66		C
ANISOU	1782	C	TYR	D	62	10524	16320	13302	-1358	424	1396	C
ATOM	1783	O	TYR	D	62	86.549	28.970	2.642	1.00	108.94		O
ANISOU	1783	O	TYR	D	62	11112	16483	13796	-1453	438	1385	O
ATOM	1784	N	PRO	D	63	86.523	30.185	0.810	1.00	96.07		N
ANISOU	1784	N	PRO	D	63	9195	15191	12116	-1502	470	1486	N

ATOM	1785	CA	PRO	D	63	85.835	31.283	1.503	1.00101.84	C		
ANISOU	1785	CA	PRO	D	63	10011	15701	12982	-1781	541	1571	C
ATOM	1786	CB	PRO	D	63	85.747	32.361	0.422	1.00100.43	C		
ANISOU	1786	CB	PRO	D	63	9648	15720	12790	-1874	575	1663	C
ATOM	1787	CG	PRO	D	63	86.942	32.115	-0.429	1.00	99.15	C	
ANISOU	1787	CG	PRO	D	63	9275	15957	12441	-1699	515	1687	C
ATOM	1788	CD	PRO	D	63	87.039	30.624	-0.501	1.00	98.49	C	
ANISOU	1788	CD	PRO	D	63	9265	15843	12312	-1437	457	1540	C
ATOM	1789	C	PRO	D	63	84.439	30.926	2.033	1.00	95.77	C	
ANISOU	1789	C	PRO	D	63	9475	14515	12399	-1839	585	1473	C
ATOM	1790	O	PRO	D	63	83.887	31.639	2.872	1.00	89.94	O	
ANISOU	1790	O	PRO	D	63	8848	13547	11777	-2058	638	1527	O
ATOM	1791	N	ARG	D	64	83.875	29.854	1.489	1.00	96.33	N	
ANISOU	1791	N	ARG	D	64	9609	14498	12494	-1644	562	1333	N
ATOM	1792	CA	ARG	D	64	82.560	29.355	1.866	1.00	94.89	C	
ANISOU	1792	CA	ARG	D	64	9641	13934	12477	-1662	595	1224	C
ATOM	1793	CB	ARG	D	64	81.971	28.575	0.714	1.00101.10	C		
ANISOU	1793	CB	ARG	D	64	10405	14736	13271	-1465	578	1106	C
ATOM	1794	CG	ARG	D	64	81.461	29.434	-0.419	1.00	86.57	C	
ANISOU	1794	CG	ARG	D	64	8433	12994	11464	-1539	620	1155	C
ATOM	1795	CD	ARG	D	64	80.781	28.566	-1.455	1.00	96.29	C	
ANISOU	1795	CD	ARG	D	64	9672	14196	12718	-1342	603	1025	C
ATOM	1796	NE	ARG	D	64	80.179	29.365	-2.499	1.00110.65	N		
ANISOU	1796	NE	ARG	D	64	11383	16074	14584	-1419	646	1065	N
ATOM	1797	CZ	ARG	D	64	79.397	28.869	-3.435	1.00102.62	C		
ANISOU	1797	CZ	ARG	D	64	10374	15003	13614	-1299	647	970	C
ATOM	1798	NH1	ARG	D	64	79.119	27.581	-3.452	1.00	92.52	N	
ANISOU	1798	NH1	ARG	D	64	9204	13608	12340	-1097	609	829	N
ATOM	1799	NH2	ARG	D	64	78.889	29.671	-4.341	1.00102.83	N		
ANISOU	1799	NH2	ARG	D	64	10300	15088	13682	-1384	687	1016	N
ATOM	1800	C	ARG	D	64	82.595	28.433	3.054	1.00	86.82	C	
ANISOU	1800	C	ARG	D	64	8812	12694	11482	-1608	569	1146	C
ATOM	1801	O	ARG	D	64	81.808	28.544	3.958	1.00	86.71	O	
ANISOU	1801	O	ARG	D	64	8979	12362	11603	-1746	610	1130	O
ATOM	1802	N	ALA	D	65	83.560	27.542	3.024	1.00	88.45	N	
ANISOU	1802	N	ALA	D	65	8969	13086	11550	-1406	498	1103	N
ATOM	1803	CA	ALA	D	65	83.767	26.609	4.086	1.00	93.53	C	
ANISOU	1803	CA	ALA	D	65	9775	13569	12194	-1332	463	1031	C
ATOM	1804	CB	ALA	D	65	84.894	25.671	3.742	1.00	90.23	C	
ANISOU	1804	CB	ALA	D	65	9257	13420	11605	-1086	381	986	C
ATOM	1805	C	ALA	D	65	84.097	27.394	5.327	1.00	94.08	C	
ANISOU	1805	C	ALA	D	65	9905	13548	12291	-1552	490	1139	C
ATOM	1806	O	ALA	D	65	83.705	27.019	6.411	1.00	98.04	O	
ANISOU	1806	O	ALA	D	65	10600	13773	12878	-1605	499	1094	O
ATOM	1807	N	LEU	D	66	84.841	28.478	5.188	1.00	93.64	N	
ANISOU	1807	N	LEU	D	66	9686	13730	12162	-1681	503	1282	N
ATOM	1808	CA	LEU	D	66	85.189	29.271	6.350	1.00	92.98	C	
ANISOU	1808	CA	LEU	D	66	9653	13573	12101	-1894	529	1391	C
ATOM	1809	CB	LEU	D	66	86.105	30.418	5.944	1.00	97.34	C	
ANISOU	1809	CB	LEU	D	66	9989	14447	12549	-2002	534	1547	C
ATOM	1810	CG	LEU	D	66	86.585	31.445	6.964	1.00101.31	C		
ANISOU	1810	CG	LEU	D	66	10499	14938	13057	-2235	561	1686	C
ATOM	1811	CD1	LEU	D	66	88.036	31.764	6.688	1.00100.04	C		
ANISOU	1811	CD1	LEU	D	66	10131	15164	12715	-2188	515	1786	C
ATOM	1812	CD2	LEU	D	66	85.749	32.714	6.952	1.00	89.65	C	
ANISOU	1812	CD2	LEU	D	66	9029	13327	11705	-2488	639	1772	C
ATOM	1813	C	LEU	D	66	83.924	29.806	6.977	1.00	90.56	C	
ANISOU	1813	C	LEU	D	66	9521	12904	11985	-2103	603	1391	C
ATOM	1814	O	LEU	D	66	83.778	29.782	8.175	1.00	93.13	O	
ANISOU	1814	O	LEU	D	66	10005	13004	12377	-2211	617	1394	O
ATOM	1815	N	TRP	D	67	83.003	30.295	6.168	1.00	85.80	N	
ANISOU	1815	N	TRP	D	67	8888	12242	11470	-2163	650	1386	N
ATOM	1816	CA	TRP	D	67	81.757	30.797	6.693	1.00	82.65	C	

ANISOU	1816	CA	TRP	D	67	8649	11498	11254	-2356	721	1381	C
ATOM	1817	CB	TRP	D	67	80.967	31.390	5.554	1.00	86.16		C
ANISOU	1817	CB	TRP	D	67	9005	11970	11760	-2398	763	1390	C
ATOM	1818	CG	TRP	D	67	79.563	31.763	5.828	1.00	82.73		C
ANISOU	1818	CG	TRP	D	67	8726	11191	11517	-2556	833	1362	C
ATOM	1819	CD1	TRP	D	67	78.507	31.497	5.045	1.00	79.97		C
ANISOU	1819	CD1	TRP	D	67	8411	10714	11259	-2501	856	1276	C
ATOM	1820	NE1	TRP	D	67	77.374	32.021	5.584	1.00	81.01		N
ANISOU	1820	NE1	TRP	D	67	8690	10527	11562	-2692	924	1279	N
ATOM	1821	CE2	TRP	D	67	77.693	32.656	6.744	1.00	80.72		C
ANISOU	1821	CE2	TRP	D	67	8717	10406	11546	-2879	946	1369	C
ATOM	1822	CD2	TRP	D	67	79.064	32.526	6.922	1.00	83.94		C
ANISOU	1822	CD2	TRP	D	67	9012	11091	11791	-2801	890	1425	C
ATOM	1823	CE3	TRP	D	67	79.643	33.096	8.042	1.00	86.90		C
ANISOU	1823	CE3	TRP	D	67	9424	11443	12152	-2960	899	1522	C
ATOM	1824	CZ3	TRP	D	67	78.850	33.756	8.916	1.00	90.73		C
ANISOU	1824	CZ3	TRP	D	67	10053	11638	12783	-3184	962	1557	C
ATOM	1825	CH2	TRP	D	67	77.494	33.868	8.711	1.00	85.17		C
ANISOU	1825	CH2	TRP	D	67	9457	10666	12238	-3255	1017	1499	C
ATOM	1826	CZ2	TRP	D	67	76.897	33.325	7.631	1.00	78.18		C
ANISOU	1826	CZ2	TRP	D	67	8540	9794	11372	-3105	1010	1405	C
ATOM	1827	C	TRP	D	67	80.972	29.677	7.283	1.00	81.73		C
ANISOU	1827	C	TRP	D	67	8755	11065	11235	-2263	714	1238	C
ATOM	1828	O	TRP	D	67	80.471	29.779	8.374	1.00	83.13		O
ANISOU	1828	O	TRP	D	67	9106	10960	11519	-2401	747	1236	O
ATOM	1829	N	TRP	D	68	80.900	28.577	6.564	1.00	82.14		N
ANISOU	1829	N	TRP	D	68	8799	11168	11243	-2024	668	1117	N
ATOM	1830	CA	TRP	D	68	80.149	27.402	7.010	1.00	79.41		C
ANISOU	1830	CA	TRP	D	68	8658	10532	10982	-1908	655	969	C
ATOM	1831	CB	TRP	D	68	80.303	26.252	6.010	1.00	80.21		C
ANISOU	1831	CB	TRP	D	68	8700	10778	11000	-1624	596	852	C
ATOM	1832	CG	TRP	D	68	79.803	24.945	6.553	1.00	80.81		C
ANISOU	1832	CG	TRP	D	68	8975	10599	11129	-1482	567	704	C
ATOM	1833	CD1	TRP	D	68	78.498	24.568	6.733	1.00	76.32		C
ANISOU	1833	CD1	TRP	D	68	8588	9693	10719	-1505	603	608	C
ATOM	1834	NE1	TRP	D	68	78.442	23.303	7.277	1.00	76.54		N
ANISOU	1834	NE1	TRP	D	68	8766	9568	10747	-1348	558	486	N
ATOM	1835	CE2	TRP	D	68	79.717	22.848	7.475	1.00	85.19		C
ANISOU	1835	CE2	TRP	D	68	9782	10899	11686	-1222	492	502	C
ATOM	1836	CD2	TRP	D	68	80.608	23.857	7.039	1.00	84.64		C
ANISOU	1836	CD2	TRP	D	68	9503	11143	11513	-1302	496	639	C
ATOM	1837	CE3	TRP	D	68	81.988	23.636	7.136	1.00	76.03		C
ANISOU	1837	CE3	TRP	D	68	8294	10339	10256	-1200	435	682	C
ATOM	1838	CZ3	TRP	D	68	82.435	22.431	7.651	1.00	68.86		C
ANISOU	1838	CZ3	TRP	D	68	7478	9398	9289	-1023	371	588	C
ATOM	1839	CH2	TRP	D	68	81.533	21.446	8.077	1.00	75.14		C
ANISOU	1839	CH2	TRP	D	68	8482	9880	10189	-947	368	452	C
ATOM	1840	CZ2	TRP	D	68	80.175	21.634	8.000	1.00	83.12		C
ANISOU	1840	CZ2	TRP	D	68	9613	10606	11364	-1044	427	408	C
ATOM	1841	C	TRP	D	68	80.572	26.911	8.384	1.00	79.82		C
ANISOU	1841	C	TRP	D	68	8859	10441	11028	-1925	632	955	C
ATOM	1842	O	TRP	D	68	79.731	26.635	9.238	1.00	84.04		O
ANISOU	1842	O	TRP	D	68	9600	10640	11693	-1998	661	897	O
ATOM	1843	N	SER	D	69	81.881	26.820	8.590	1.00	80.55		N
ANISOU	1843	N	SER	D	69	8846	10792	10969	-1858	579	1011	N
ATOM	1844	CA	SER	D	69	82.435	26.310	9.838	1.00	84.87		C
ANISOU	1844	CA	SER	D	69	9515	11242	11489	-1854	547	999	C
ATOM	1845	CB	SER	D	69	83.958	26.219	9.741	1.00	87.48		C
ANISOU	1845	CB	SER	D	69	9680	11927	11630	-1750	484	1062	C
ATOM	1846	OG	SER	D	69	84.537	27.515	9.685	1.00	88.56		O
ANISOU	1846	OG	SER	D	69	9668	12258	11722	-1928	512	1220	O
ATOM	1847	C	SER	D	69	82.026	27.192	11.017	1.00	76.53		C
ANISOU	1847	C	SER	D	69	8585	9944	10548	-2124	608	1081	C

ATOM	1848	O	SER	D	69	81.669	26.692	12.082	1.00	73.22	O	
ANISOU	1848	O	SER	D	69	8362	9254	10205	-2155	611	1025	O
ATOM	1849	N	VAL	D	70	82.106	28.503	10.814	1.00	73.32	N	
ANISOU	1849	N	VAL	D	70	8064	9643	10151	-2317	655	1214	N
ATOM	1850	CA	VAL	D	70	81.702	29.492	11.811	1.00	72.30	C	
ANISOU	1850	CA	VAL	D	70	8034	9306	10132	-2587	717	1304	C
ATOM	1851	CB	VAL	D	70	81.941	30.925	11.304	1.00	74.58	C	
ANISOU	1851	CB	VAL	D	70	8147	9789	10399	-2766	758	1453	C
ATOM	1852	CG1	VAL	D	70	81.316	31.934	12.246	1.00	66.66	C	
ANISOU	1852	CG1	VAL	D	70	7260	8539	9531	-3045	829	1533	C
ATOM	1853	CG2	VAL	D	70	83.424	31.181	11.100	1.00	82.93	C	
ANISOU	1853	CG2	VAL	D	70	9011	11223	11275	-2713	708	1549	C
ATOM	1854	C	VAL	D	70	80.235	29.381	12.207	1.00	72.95	C	
ANISOU	1854	C	VAL	D	70	8321	8992	10404	-2681	775	1225	C
ATOM	1855	O	VAL	D	70	79.881	29.446	13.387	1.00	72.64	O	
ANISOU	1855	O	VAL	D	70	8455	8688	10456	-2813	802	1227	O
ATOM	1856	N	GLU	D	71	79.374	29.208	11.211	1.00	77.35	N	
ANISOU	1856	N	GLU	D	71	8860	9508	11022	-2611	793	1156	N
ATOM	1857	CA	GLU	D	71	77.945	29.135	11.480	1.00	78.16	C	
ANISOU	1857	CA	GLU	D	71	9146	9245	11307	-2697	849	1082	C
ATOM	1858	CB	GLU	D	71	77.128	29.474	10.232	1.00	75.12	C	
ANISOU	1858	CB	GLU	D	71	8675	8888	10979	-2687	883	1064	C
ATOM	1859	CG	GLU	D	71	76.988	28.367	9.204	1.00	79.10	C	
ANISOU	1859	CG	GLU	D	71	9143	9477	11436	-2424	835	937	C
ATOM	1860	CD	GLU	D	71	75.961	28.758	8.154	1.00	82.56	C	
ANISOU	1860	CD	GLU	D	71	9538	9866	11966	-2451	880	916	C
ATOM	1861	OE1	GLU	D	71	75.364	27.887	7.470	1.00	105.25	O	
ANISOU	1861	OE1	GLU	D	71	12448	12676	14866	-2281	863	795	O
ATOM	1862	OE2	GLU	D	71	75.723	29.974	8.053	1.00	74.51	O	
ANISOU	1862	OE2	GLU	D	71	8454	8859	10997	-2654	935	1023	O
ATOM	1863	C	GLU	D	71	77.601	27.741	11.981	1.00	79.05	C	
ANISOU	1863	C	GLU	D	71	9441	9143	11451	-2532	813	933	C
ATOM	1864	O	GLU	D	71	76.494	27.493	12.450	1.00	83.14	O	
ANISOU	1864	O	GLU	D	71	10144	9329	12117	-2591	851	860	O
ATOM	1865	N	THR	D	72	78.571	26.839	11.901	1.00	74.20	N	
ANISOU	1865	N	THR	D	72	8775	8720	10697	-2326	738	889	N
ATOM	1866	CA	THR	D	72	78.379	25.485	12.379	1.00	74.85	C	
ANISOU	1866	CA	THR	D	72	9020	8627	10793	-2158	695	751	C
ATOM	1867	CB	THR	D	72	79.035	24.461	11.428	1.00	75.54	C	
ANISOU	1867	CB	THR	D	72	8992	8968	10741	-1872	618	671	C
ATOM	1868	OG1	THR	D	72	78.342	24.469	10.172	1.00	75.81	O	
ANISOU	1868	OG1	THR	D	72	8949	9046	10808	-1799	635	626	O
ATOM	1869	CG2	THR	D	72	78.974	23.069	12.008	1.00	79.32	C	
ANISOU	1869	CG2	THR	D	72	9636	9282	11220	-1699	568	536	C
ATOM	1870	C	THR	D	72	78.929	25.341	13.800	1.00	74.71	C	
ANISOU	1870	C	THR	D	72	9124	8500	10762	-2231	679	778	C
ATOM	1871	O	THR	D	72	78.295	24.709	14.644	1.00	73.96	O	
ANISOU	1871	O	THR	D	72	9235	8103	10763	-2237	686	693	O
ATOM	1872	N	ALA	D	73	80.073	25.948	14.070	1.00	75.01	N	
ANISOU	1872	N	ALA	D	73	9038	8776	10687	-2293	661	895	N
ATOM	1873	CA	ALA	D	73	80.659	25.892	15.402	1.00	78.01	C	
ANISOU	1873	CA	ALA	D	73	9521	9071	11048	-2371	647	932	C
ATOM	1874	CB	ALA	D	73	82.050	26.507	15.395	1.00	76.89	C	
ANISOU	1874	CB	ALA	D	73	9196	9265	10752	-2397	616	1060	C
ATOM	1875	C	ALA	D	73	79.779	26.571	16.459	1.00	80.40	C	
ANISOU	1875	C	ALA	D	73	9998	9038	11512	-2622	719	968	C
ATOM	1876	O	ALA	D	73	79.683	26.104	17.594	1.00	82.10	O	
ANISOU	1876	O	ALA	D	73	10389	9030	11773	-2652	713	929	O
ATOM	1877	N	THR	D	74	79.154	27.684	16.080	1.00	71.68	N	
ANISOU	1877	N	THR	D	74	10464	7172	9601	-645	-890	1040	N
ATOM	1878	CA	THR	D	74	78.332	28.479	16.990	1.00	72.93	C	
ANISOU	1878	CA	THR	D	74	10823	7194	9691	-669	-1034	1041	C
ATOM	1879	CB	THR	D	74	78.143	29.922	16.469	1.00	77.15	C	

ANISOU	1879	CB	THR	D	74	11535	7726	10054	-781	-1130	1080	C
ATOM	1880	OG1	THR	D	74	77.613	29.878	15.133	1.00	77.84		O
ANISOU	1880	OG1	THR	D	74	11641	7865	10070	-731	-1040	971	O
ATOM	1881	CG2	THR	D	74	79.470	30.682	16.476	1.00	87.47		C
ANISOU	1881	CG2	THR	D	74	12791	9117	11326	-939	-1185	1253	C
ATOM	1882	C	THR	D	74	76.940	27.846	17.132	1.00	73.39		C
ANISOU	1882	C	THR	D	74	10959	7153	9774	-520	-1001	873	C
ATOM	1883	O	THR	D	74	76.138	28.280	17.951	1.00	69.07		O
ANISOU	1883	O	THR	D	74	10566	6483	9194	-513	-1105	851	O
ATOM	1884	N	THR	D	75	76.693	26.819	16.319	1.00	71.37		N
ANISOU	1884	N	THR	D	75	10591	6951	9576	-405	-854	758	N
ATOM	1885	CA	THR	D	75	75.424	26.080	16.240	1.00	76.31		C
ANISOU	1885	CA	THR	D	75	11264	7503	10228	-254	-794	589	C
ATOM	1886	CB	THR	D	75	74.968	25.458	17.610	1.00	75.35		C
ANISOU	1886	CB	THR	D	75	11150	7266	10213	-178	-839	564	C
ATOM	1887	OG1	THR	D	75	74.557	26.481	18.530	1.00	72.24		O
ANISOU	1887	OG1	THR	D	75	10940	6761	9745	-250	-1000	617	O
ATOM	1888	CG2	THR	D	75	76.114	24.652	18.235	1.00	74.82		C
ANISOU	1888	CG2	THR	D	75	10880	7254	10292	-188	-797	659	C
ATOM	1889	C	THR	D	75	74.269	26.907	15.647	1.00	80.42		C
ANISOU	1889	C	THR	D	75	11988	7965	10602	-247	-841	499	C
ATOM	1890	O	THR	D	75	73.101	26.580	15.849	1.00	85.02		O
ANISOU	1890	O	THR	D	75	12661	8455	11187	-141	-838	375	O
ATOM	1891	N	VAL	D	76	74.591	27.953	14.888	1.00	75.38		N
ANISOU	1891	N	VAL	D	76	11418	7383	9839	-357	-880	560	N
ATOM	1892	CA	VAL	D	76	73.542	28.777	14.272	1.00	72.86		C
ANISOU	1892	CA	VAL	D	76	11289	7015	9379	-357	-924	482	C
ATOM	1893	CB	VAL	D	76	74.115	30.109	13.734	1.00	69.42		C
ANISOU	1893	CB	VAL	D	76	10933	6633	8810	-510	-1003	592	C
ATOM	1894	CG1	VAL	D	76	73.036	30.888	12.960	1.00	63.00		C
ANISOU	1894	CG1	VAL	D	76	10302	5781	7855	-504	-1032	505	C
ATOM	1895	CG2	VAL	D	76	74.605	30.955	14.904	1.00	80.20		C
ANISOU	1895	CG2	VAL	D	76	12374	7938	10162	-625	-1152	732	C
ATOM	1896	C	VAL	D	76	72.869	27.990	13.141	1.00	77.34		C
ANISOU	1896	C	VAL	D	76	11810	7626	9948	-238	-782	329	C
ATOM	1897	O	VAL	D	76	71.643	27.853	13.116	1.00	81.09		O
ANISOU	1897	O	VAL	D	76	12397	8019	10396	-145	-782	204	O
ATOM	1898	N	GLY	D	77	73.674	27.462	12.219	1.00	83.74		N
ANISOU	1898	N	GLY	D	77	12454	8569	10793	-242	-661	339	N
ATOM	1899	CA	GLY	D	77	73.151	26.654	11.125	1.00	77.67		C
ANISOU	1899	CA	GLY	D	77	11623	7854	10034	-136	-516	201	C
ATOM	1900	C	GLY	D	77	72.030	27.205	10.255	1.00	72.61		C
ANISOU	1900	C	GLY	D	77	11141	7184	9262	-111	-521	95	C
ATOM	1901	O	GLY	D	77	70.945	26.608	10.168	1.00	77.62		O
ANISOU	1901	O	GLY	D	77	11820	7760	9912	12	-472	-44	O
ATOM	1902	N	TYR	D	78	72.300	28.320	9.577	1.00	79.68		N
ANISOU	1902	N	TYR	D	78	12118	8126	10030	-226	-576	159	N
ATOM	1903	CA	TYR	D	78	71.316	28.951	8.703	1.00	67.17		C
ANISOU	1903	CA	TYR	D	78	10685	6522	8313	-218	-587	74	C
ATOM	1904	CB	TYR	D	78	71.932	30.146	7.968	1.00	59.35		C
ANISOU	1904	CB	TYR	D	78	9748	5605	7196	-364	-642	173	C
ATOM	1905	CG	TYR	D	78	72.312	31.304	8.859	1.00	60.25		C
ANISOU	1905	CG	TYR	D	78	9974	5661	7256	-488	-805	309	C
ATOM	1906	CD1	TYR	D	78	71.352	31.956	9.636	1.00	66.17		C
ANISOU	1906	CD1	TYR	D	78	10915	6274	7952	-480	-927	289	C
ATOM	1907	CE1	TYR	D	78	71.690	33.077	10.409	1.00	77.11		C
ANISOU	1907	CE1	TYR	D	78	12412	7607	9281	-601	-1076	413	C
ATOM	1908	CZ	TYR	D	78	73.000	33.538	10.401	1.00	77.64		C
ANISOU	1908	CZ	TYR	D	78	12397	7761	9342	-728	-1103	560	C
ATOM	1909	OH	TYR	D	78	73.355	34.654	11.113	1.00	81.04		O
ANISOU	1909	OH	TYR	D	78	12936	8145	9710	-850	-1246	684	O
ATOM	1910	CE2	TYR	D	78	73.970	32.897	9.641	1.00	71.23		C
ANISOU	1910	CE2	TYR	D	78	11395	7085	8583	-735	-985	583	C

ATOM	1911	CD2	TYR	D	78	73.622	31.788	8.878	1.00	70.38		C
ANISOU	1911	CD2	TYR	D	78	11179	7028	8535	-616	-837	458	C
ATOM	1912	C	TYR	D	78	70.737	28.007	7.659	1.00	63.88		C
ANISOU	1912	C	TYR	D	78	10198	6157	7915	-102	-434	-74	C
ATOM	1913	O	TYR	D	78	69.552	28.051	7.375	1.00	61.34		O
ANISOU	1913	O	TYR	D	78	9996	5773	7537	-30	-433	-189	O
ATOM	1914	N	GLY	D	79	71.557	27.135	7.123	1.00	63.79		N
ANISOU	1914	N	GLY	D	79	9992	6258	7988	-82	-305	-71	N
ATOM	1915	CA	GLY	D	79	71.089	26.223	6.108	1.00	70.07		C
ANISOU	1915	CA	GLY	D	79	10711	7110	8803	21	-153	-207	C
ATOM	1916	C	GLY	D	79	71.461	26.511	4.674	1.00	70.17		C
ANISOU	1916	C	GLY	D	79	10684	7245	8732	-38	-77	-210	C
ATOM	1917	O	GLY	D	79	71.089	25.781	3.787	1.00	60.71		O
ANISOU	1917	O	GLY	D	79	9424	6099	7546	41	51	-321	O
ATOM	1918	N	ASP	D	80	72.193	27.578	4.434	1.00	74.19		N
ANISOU	1918	N	ASP	D	80	11231	7803	9156	-178	-155	-89	N
ATOM	1919	CA	ASP	D	80	72.646	27.888	3.098	1.00	68.93		C
ANISOU	1919	CA	ASP	D	80	10521	7257	8410	-245	-88	-81	C
ATOM	1920	CB	ASP	D	80	73.252	29.268	3.038	1.00	70.63		C
ANISOU	1920	CB	ASP	D	80	10826	7494	8514	-403	-210	53	C
ATOM	1921	CG	ASP	D	80	74.199	29.526	4.131	1.00	76.45		C
ANISOU	1921	CG	ASP	D	80	11521	8215	9312	-477	-298	195	C
ATOM	1922	OD1	ASP	D	80	74.258	28.758	5.082	1.00	80.36		O
ANISOU	1922	OD1	ASP	D	80	11946	8659	9927	-408	-288	192	O
ATOM	1923	OD2	ASP	D	80	74.895	30.523	4.048	1.00	77.98		O
ANISOU	1923	OD2	ASP	D	80	11754	8446	9430	-608	-380	313	O
ATOM	1924	C	ASP	D	80	73.657	26.891	2.600	1.00	65.07		C
ANISOU	1924	C	ASP	D	80	9807	6891	8028	-230	58	-70	C
ATOM	1925	O	ASP	D	80	73.726	26.608	1.425	1.00	73.22		O
ANISOU	1925	O	ASP	D	80	10774	8015	9031	-222	169	-127	O
ATOM	1926	N	LEU	D	81	74.466	26.399	3.525	1.00	76.10		N
ANISOU	1926	N	LEU	D	81	11085	8283	9544	-231	53	9	N
ATOM	1927	CA	LEU	D	81	75.592	25.504	3.261	1.00	74.90		C
ANISOU	1927	CA	LEU	D	81	10711	8241	9507	-228	175	47	C
ATOM	1928	CB	LEU	D	81	76.920	26.268	3.294	1.00	75.43		C
ANISOU	1928	CB	LEU	D	81	10726	8384	9550	-379	114	214	C
ATOM	1929	CG	LEU	D	81	77.224	27.318	2.234	1.00	69.64		C
ANISOU	1929	CG	LEU	D	81	10056	7729	8674	-498	88	260	C
ATOM	1930	CD1	LEU	D	81	78.158	28.365	2.800	1.00	78.37		C
ANISOU	1930	CD1	LEU	D	81	11196	8843	9738	-642	-43	430	C
ATOM	1931	CD2	LEU	D	81	77.854	26.646	1.031	1.00	80.99		C
ANISOU	1931	CD2	LEU	D	81	11327	9304	10143	-492	248	227	C
ATOM	1932	C	LEU	D	81	75.628	24.360	4.279	1.00	73.03		C
ANISOU	1932	C	LEU	D	81	10364	7953	9431	-124	218	24	C
ATOM	1933	O	LEU	D	81	75.336	24.560	5.466	1.00	72.91		O
ANISOU	1933	O	LEU	D	81	10427	7832	9443	-114	110	57	O
ATOM	1934	N	TYR	D	82	76.001	23.176	3.799	1.00	69.43		N
ANISOU	1934	N	TYR	D	82	9725	7573	9082	-50	376	-32	N
ATOM	1935	CA	TYR	D	82	76.140	21.983	4.624	1.00	67.65		C
ANISOU	1935	CA	TYR	D	82	9368	7318	9018	51	438	-55	C
ATOM	1936	CB	TYR	D	82	74.790	21.596	5.238	1.00	69.23		C
ANISOU	1936	CB	TYR	D	82	9680	7391	9233	175	414	-177	C
ATOM	1937	CG	TYR	D	82	73.638	21.483	4.251	1.00	69.20		C
ANISOU	1937	CG	TYR	D	82	9764	7381	9146	250	481	-330	C
ATOM	1938	CD1	TYR	D	82	73.427	20.328	3.507	1.00	64.66		C
ANISOU	1938	CD1	TYR	D	82	9068	6863	8637	355	650	-449	C
ATOM	1939	CE1	TYR	D	82	72.375	20.235	2.624	1.00	67.33		C
ANISOU	1939	CE1	TYR	D	82	9488	7196	8897	419	709	-586	C
ATOM	1940	CZ	TYR	D	82	71.514	21.306	2.471	1.00	69.19		C
ANISOU	1940	CZ	TYR	D	82	9930	7371	8990	381	598	-604	C
ATOM	1941	OH	TYR	D	82	70.457	21.239	1.591	1.00	78.30		O
ANISOU	1941	OH	TYR	D	82	11168	8519	10063	442	653	-737	O
ATOM	1942	CE2	TYR	D	82	71.702	22.454	3.195	1.00	60.03		C

ANISOU	1942	CE2	TYR	D	82	8893	6152	7765	279	432	-490	C
ATOM	1943	CD2	TYR	D	82	72.754	22.536	4.078	1.00	67.64		C
ANISOU	1943	CD2	TYR	D	82	9774	7121	8805	214	375	-355	C
ATOM	1944	C	TYR	D	82	76.715	20.809	3.830	1.00	74.29		C
ANISOU	1944	C	TYR	D	82	10000	8269	9960	109	624	-104	C
ATOM	1945	O	TYR	D	82	76.559	20.734	2.614	1.00	77.60		O
ANISOU	1945	O	TYR	D	82	10402	8763	10321	112	719	-174	O
ATOM	1946	N	PRO	D	83	77.370	19.867	4.523	1.00	81.24		N
ANISOU	1946	N	PRO	D	83	10716	9156	10993	154	678	-69	N
ATOM	1947	CA	PRO	D	83	77.937	18.697	3.848	1.00	87.87		C
ANISOU	1947	CA	PRO	D	83	11350	10096	11942	213	858	-113	C
ATOM	1948	CB	PRO	D	83	78.853	18.114	4.927	1.00	85.89		C
ANISOU	1948	CB	PRO	D	83	10955	9838	11841	215	850	-13	C
ATOM	1949	CG	PRO	D	83	78.088	18.395	6.174	1.00	80.43		C
ANISOU	1949	CG	PRO	D	83	10402	9009	11149	249	716	-15	C
ATOM	1950	CD	PRO	D	83	77.738	19.857	5.950	1.00	79.69		C
ANISOU	1950	CD	PRO	D	83	10509	8888	10883	143	579	27	C
ATOM	1951	C	PRO	D	83	76.881	17.685	3.406	1.00	84.82		C
ANISOU	1951	C	PRO	D	83	10954	9685	11590	362	980	-291	C
ATOM	1952	O	PRO	D	83	75.843	17.551	4.056	1.00	87.07		O
ANISOU	1952	O	PRO	D	83	11349	9860	11875	446	930	-368	O
ATOM	1953	N	VAL	D	84	77.127	17.036	2.270	1.00	88.15		N
ANISOU	1953	N	VAL	D	84	11254	10208	12030	390	1138	-356	N
ATOM	1954	CA	VAL	D	84	76.247	15.990	1.744	1.00	91.02		C
ANISOU	1954	CA	VAL	D	84	11585	10566	12433	527	1275	-522	C
ATOM	1955	CB	VAL	D	84	75.724	16.337	0.350	1.00	83.52		C
ANISOU	1955	CB	VAL	D	84	10703	9675	11354	510	1336	-610	C
ATOM	1956	CG1	VAL	D	84	74.795	17.539	0.421	1.00	83.40		C
ANISOU	1956	CG1	VAL	D	84	10923	9581	11184	467	1189	-619	C
ATOM	1957	CG2	VAL	D	84	76.877	16.570	-0.595	1.00	88.15		C
ANISOU	1957	CG2	VAL	D	84	11175	10397	11923	404	1402	-531	C
ATOM	1958	C	VAL	D	84	76.936	14.633	1.674	1.00	92.49		C
ANISOU	1958	C	VAL	D	84	11544	10817	12783	599	1436	-542	C
ATOM	1959	O	VAL	D	84	76.293	13.613	1.431	1.00	88.50		O
ANISOU	1959	O	VAL	D	84	10989	10301	12337	723	1554	-673	O
ATOM	1960	N	THR	D	85	78.252	14.642	1.858	1.00	95.23		N
ANISOU	1960	N	THR	D	85	11752	11233	13198	519	1442	-410	N
ATOM	1961	CA	THR	D	85	79.073	13.437	1.783	1.00	101.97		C
ANISOU	1961	CA	THR	D	85	12378	12157	14209	570	1590	-407	C
ATOM	1962	CB	THR	D	85	80.416	13.753	1.090	1.00	99.46		C
ANISOU	1962	CB	THR	D	85	11937	11966	13888	450	1632	-293	C
ATOM	1963	OG1	THR	D	85	81.204	14.609	1.922	1.00	107.22		O
ANISOU	1963	OG1	THR	D	85	12945	12932	14860	339	1487	-130	O
ATOM	1964	CG2	THR	D	85	80.172	14.452	-0.223	1.00	92.07		C
ANISOU	1964	CG2	THR	D	85	11083	11095	12802	386	1655	-336	C
ATOM	1965	C	THR	D	85	79.332	12.810	3.169	1.00	101.21		C
ANISOU	1965	C	THR	D	85	12206	11990	14258	626	1553	-355	C
ATOM	1966	O	THR	D	85	79.255	13.489	4.194	1.00	92.50		O
ANISOU	1966	O	THR	D	85	11207	10806	13132	583	1399	-276	O
ATOM	1967	N	LEU	D	86	79.610	11.507	3.186	1.00	102.24		N
ANISOU	1967	N	LEU	D	86	12159	12151	14538	721	1697	-404	N
ATOM	1968	CA	LEU	D	86	79.822	10.769	4.433	1.00	106.69		C
ANISOU	1968	CA	LEU	D	86	12635	12652	15250	786	1681	-368	C
ATOM	1969	CB	LEU	D	86	79.939	9.272	4.122	1.00	109.22		C
ANISOU	1969	CB	LEU	D	86	12767	13016	15717	904	1871	-458	C
ATOM	1970	CG	LEU	D	86	80.233	8.237	5.217	1.00	106.65		C
ANISOU	1970	CG	LEU	D	86	12308	12647	15569	988	1899	-437	C
ATOM	1971	CD1	LEU	D	86	79.137	8.175	6.262	1.00	98.89		C
ANISOU	1971	CD1	LEU	D	86	11458	11528	14588	1072	1803	-499	C
ATOM	1972	CD2	LEU	D	86	80.477	6.862	4.638	1.00	125.11		C
ANISOU	1972	CD2	LEU	D	86	14452	15051	18036	1086	2102	-520	C
ATOM	1973	C	LEU	D	86	81.053	11.232	5.228	1.00	106.96		C
ANISOU	1973	C	LEU	D	86	12599	12705	15335	677	1587	-184	C

ATOM	1974	O	LEU	D	86	81.098	11.087	6.448	1.00111.47	O
ANISOU	1974	O	LEU	D	86	13169	13201	15983	697 1505 -130	O
ATOM	1975	N	TRP	D	87	82.035	11.791	4.536	1.00107.36	N
ANISOU	1975	N	TRP	D	87	12594	12858	15341	560 1598 -88	N
ATOM	1976	CA	TRP	D	87	83.190	12.324	5.235	1.00113.13	C
ANISOU	1976	CA	TRP	D	87	13269	13610	16105	448 1503 89	C
ATOM	1977	CB	TRP	D	87	84.473	12.217	4.408	1.00125.77	C
ANISOU	1977	CB	TRP	D	87	14700	15346	17739	369 1601 170	C
ATOM	1978	CG	TRP	D	87	84.982	10.805	4.202	1.00139.37	C
ANISOU	1978	CG	TRP	D	87	16199	17126	19629	458 1779 130	C
ATOM	1979	CD1	TRP	D	87	84.738	10.002	3.138	1.00147.90	C
ANISOU	1979	CD1	TRP	D	87	17196	18267	20732	532 1950 7	C
ATOM	1980	NE1	TRP	D	87	85.351	8.796	3.309	1.00145.69	N
ANISOU	1980	NE1	TRP	D	87	16711	18023	20624	601 2080 8	N
ATOM	1981	CE2	TRP	D	87	86.016	8.801	4.502	1.00147.04	C
ANISOU	1981	CE2	TRP	D	87	16825	18158	20886	572 1992 136	C
ATOM	1982	CD2	TRP	D	87	85.806	10.047	5.092	1.00145.13	C
ANISOU	1982	CD2	TRP	D	87	16762	17856	20526	482 1803 214	C
ATOM	1983	CE3	TRP	D	87	86.381	10.305	6.336	1.00152.02	C
ANISOU	1983	CE3	TRP	D	87	17619	18683	21459	433 1682 350	C
ATOM	1984	CZ3	TRP	D	87	87.137	9.331	6.928	1.00158.46	C
ANISOU	1984	CZ3	TRP	D	87	18243	19515	22448	476 1752 403	C
ATOM	1985	CH2	TRP	D	87	87.328	8.104	6.317	1.00162.57	C
ANISOU	1985	CH2	TRP	D	87	18588	20095	23085	567 1940 323	C
ATOM	1986	CZ2	TRP	D	87	86.776	7.818	5.103	1.00155.89	C
ANISOU	1986	CZ2	TRP	D	87	17753	19294	22183	616 2063 188	C
ATOM	1987	C	TRP	D	87	82.925	13.774	5.651	1.00108.42	C
ANISOU	1987	C	TRP	D	87	12877	12955	15363	341 1311 166	C
ATOM	1988	O	TRP	D	87	83.147	14.135	6.794	1.00108.42	O
ANISOU	1988	O	TRP	D	87	12915	12892	15390	304 1186 263	O
ATOM	1989	N	GLY	D	88	82.414	14.592	4.736	1.00 97.55	N
ANISOU	1989	N	GLY	D	88	11700	11912	13451	1940 53 -772	N
ATOM	1990	CA	GLY	D	88	82.102	15.981	5.027	1.00 91.85	C
ANISOU	1990	CA	GLY	D	88	10895	11288	12715	1714 -21 -847	C
ATOM	1991	C	GLY	D	88	81.190	16.120	6.235	1.00 91.11	C
ANISOU	1991	C	GLY	D	88	10903	11087	12628	1554 3 -878	C
ATOM	1992	O	GLY	D	88	81.322	17.063	7.017	1.00 86.90	O
ANISOU	1992	O	GLY	D	88	10302	10694	12021	1408 -63 -857	O
ATOM	1993	N	ARG	D	89	80.246	15.197	6.373	1.00 91.84	N
ANISOU	1993	N	ARG	D	89	11158	10925	12810	1582 97 -929	N
ATOM	1994	CA	ARG	D	89	79.345	15.211	7.521	1.00 92.50	C
ANISOU	1994	CA	ARG	D	89	11349	10890	12907	1447 131 -952	C
ATOM	1995	CB	ARG	D	89	78.153	14.275	7.291	1.00 88.19	C
ANISOU	1995	CB	ARG	D	89	10976	10035	12498	1469 234 -1044	C
ATOM	1996	CG	ARG	D	89	77.071	14.940	6.440	1.00 82.67	C
ANISOU	1996	CG	ARG	D	89	10295	9190	11927	1319 239 -1233	C
ATOM	1997	CD	ARG	D	89	76.022	14.004	5.873	1.00 79.90	C
ANISOU	1997	CD	ARG	D	89	10096	8540	11723	1365 330 -1328	C
ATOM	1998	NE	ARG	D	89	75.083	14.764	5.044	1.00 82.89	N
ANISOU	1998	NE	ARG	D	89	10472	8808	12215	1213 322 -1502	N
ATOM	1999	CZ	ARG	D	89	73.913	14.313	4.606	1.00 80.87	C
ANISOU	1999	CZ	ARG	D	89	10341	8284	12100	1178 388 -1618	C
ATOM	2000	NH1	ARG	D	89	73.518	13.087	4.908	1.00 84.48	N
ANISOU	2000	NH1	ARG	D	89	10939	8552	12609	1286 466 -1580	N
ATOM	2001	NH2	ARG	D	89	73.137	15.098	3.867	1.00 70.19	N
ANISOU	2001	NH2	ARG	D	89	8972	6856	10843	1032 373 -1770	N
ATOM	2002	C	ARG	D	89	80.113	14.862	8.795	1.00 93.07	C
ANISOU	2002	C	ARG	D	89	11416	11098	12849	1508 119 -779	C
ATOM	2003	O	ARG	D	89	79.779	15.337	9.886	1.00 85.25	O
ANISOU	2003	O	ARG	D	89	10449	10131	11813	1372 103 -767	O
ATOM	2004	N	CYS	D	90	81.162	14.058	8.648	1.00 98.09	N
ANISOU	2004	N	CYS	D	90	12020	11829	13422	1714 124 -645	N
ATOM	2005	CA	CYS	D	90	82.014	13.727	9.783	1.00 97.06	C

ANISOU	2005	CA	CYS	D	90	11870	11846	13163	1784	107	-471	C
ATOM	2006	CB	CYS	D	90	82.991	12.600	9.443	1.00109.74			C
ANISOU	2006	CB	CYS	D	90	13468	13496	14731	2034	138	-338	C
ATOM	2007	SG	CYS	D	90	82.262	10.941	9.466	1.00122.36			S
ANISOU	2007	SG	CYS	D	90	15263	14801	16426	2183	269	-343	S
ATOM	2008	C	CYS	D	90	82.772	14.967	10.244	1.00	87.56		C
ANISOU	2008	C	CYS	D	90	10515	10910	11843	1669	-6	-416	C
ATOM	2009	O	CYS	D	90	82.710	15.321	11.423	1.00	88.88		O
ANISOU	2009	O	CYS	D	90	10697	11135	11938	1567	-31	-367	O
ATOM	2010	N	VAL	D	91	83.468	15.626	9.317	1.00	78.25		N
ANISOU	2010	N	VAL	D	91	9195	9889	10648	1686	-75	-425	N
ATOM	2011	CA	VAL	D	91	84.207	16.857	9.622	1.00	84.34		C
ANISOU	2011	CA	VAL	D	91	9811	10916	11318	1576	-190	-377	C
ATOM	2012	CB	VAL	D	91	84.726	17.554	8.345	1.00	77.85		C
ANISOU	2012	CB	VAL	D	91	8845	10217	10516	1589	-251	-423	C
ATOM	2013	CG1	VAL	D	91	85.494	18.827	8.692	1.00	73.82		C
ANISOU	2013	CG1	VAL	D	91	8173	9971	9904	1474	-375	-369	C
ATOM	2014	CG2	VAL	D	91	85.597	16.612	7.545	1.00	79.66		C
ANISOU	2014	CG2	VAL	D	91	9046	10481	10741	1831	-220	-330	C
ATOM	2015	C	VAL	D	91	83.313	17.828	10.395	1.00	85.07		C
ANISOU	2015	C	VAL	D	91	9936	10972	11415	1336	-218	-473	C
ATOM	2016	O	VAL	D	91	83.753	18.500	11.333	1.00	79.67		O
ANISOU	2016	O	VAL	D	91	9193	10452	10625	1246	-290	-399	O
ATOM	2017	N	ALA	D	92	82.048	17.882	9.982	1.00	86.26		N
ANISOU	2017	N	ALA	D	92	10183	10901	11690	1237	-160	-637	N
ATOM	2018	CA	ALA	D	92	81.039	18.733	10.601	1.00	83.63		C
ANISOU	2018	CA	ALA	D	92	9898	10497	11383	1013	-169	-744	C
ATOM	2019	CB	ALA	D	92	79.725	18.601	9.857	1.00	78.39		C
ANISOU	2019	CB	ALA	D	92	9335	9576	10876	946	-95	-919	C
ATOM	2020	C	ALA	D	92	80.846	18.405	12.083	1.00	82.98		C
ANISOU	2020	C	ALA	D	92	9909	10389	11231	981	-145	-661	C
ATOM	2021	O	ALA	D	92	80.848	19.300	12.934	1.00	76.53		O
ANISOU	2021	O	ALA	D	92	9060	9681	10339	833	-207	-650	O
ATOM	2022	N	VAL	D	93	80.673	17.118	12.376	1.00	82.38		N
ANISOU	2022	N	VAL	D	93	9952	10167	11181	1121	-54	-603	N
ATOM	2023	CA	VAL	D	93	80.451	16.661	13.739	1.00	83.17		C
ANISOU	2023	CA	VAL	D	93	10153	10223	11225	1110	-18	-522	C
ATOM	2024	CB	VAL	D	93	80.351	15.135	13.798	1.00	84.51		C
ANISOU	2024	CB	VAL	D	93	10442	10230	11439	1295	84	-459	C
ATOM	2025	CG1	VAL	D	93	80.183	14.667	15.235	1.00	77.15		C
ANISOU	2025	CG1	VAL	D	93	9605	9266	10443	1289	120	-366	C
ATOM	2026	CG2	VAL	D	93	79.182	14.659	12.958	1.00	87.79		C
ANISOU	2026	CG2	VAL	D	93	10965	10375	12018	1289	169	-605	C
ATOM	2027	C	VAL	D	93	81.587	17.135	14.638	1.00	89.09		C
ANISOU	2027	C	VAL	D	93	10803	11236	11813	1110	-109	-373	C
ATOM	2028	O	VAL	D	93	81.355	17.598	15.761	1.00	96.84		O
ANISOU	2028	O	VAL	D	93	11816	12252	12729	990	-132	-351	O
ATOM	2029	N	VAL	D	94	82.813	17.060	14.123	1.00	86.30		N
ANISOU	2029	N	VAL	D	94	10326	11069	11397	1240	-163	-272	N
ATOM	2030	CA	VAL	D	94	83.979	17.512	14.874	1.00	79.96		C
ANISOU	2030	CA	VAL	D	94	9413	10524	10442	1248	-258	-123	C
ATOM	2031	CB	VAL	D	94	85.306	17.126	14.179	1.00	74.52		C
ANISOU	2031	CB	VAL	D	94	8604	10005	9705	1436	-294	1	C
ATOM	2032	CG1	VAL	D	94	86.464	17.937	14.734	1.00	58.34		C
ANISOU	2032	CG1	VAL	D	94	6411	8240	7515	1402	-415	128	C
ATOM	2033	CG2	VAL	D	94	85.562	15.622	14.296	1.00	67.86		C
ANISOU	2033	CG2	VAL	D	94	7850	9066	8869	1648	-202	103	C
ATOM	2034	C	VAL	D	94	83.902	19.027	15.050	1.00	77.82		C
ANISOU	2034	C	VAL	D	94	9051	10386	10130	1039	-361	-189	C
ATOM	2035	O	VAL	D	94	84.143	19.537	16.140	1.00	78.38		O
ANISOU	2035	O	VAL	D	94	9111	10571	10099	950	-418	-123	O
ATOM	2036	N	VAL	D	95	83.523	19.738	13.988	1.00	76.08		N
ANISOU	2036	N	VAL	D	95	8772	10142	9992	957	-382	-324	N

ATOM	2037	CA	VAL	D	95	83.410	21.190	14.058	1.00	77.67	C	
ANISOU	2037	CA	VAL	D	95	8884	10461	10165	757	-478	-398	C
ATOM	2038	CB	VAL	D	95	83.051	21.810	12.689	1.00	71.14	C	
ANISOU	2038	CB	VAL	D	95	7987	9600	9442	700	-491	-543	C
ATOM	2039	CG1	VAL	D	95	82.772	23.304	12.827	1.00	65.67	C	
ANISOU	2039	CG1	VAL	D	95	7219	9003	8729	478	-581	-632	C
ATOM	2040	CG2	VAL	D	95	84.168	21.569	11.691	1.00	62.54	C	
ANISOU	2040	CG2	VAL	D	95	6770	8653	8338	866	-526	-466	C
ATOM	2041	C	VAL	D	95	82.367	21.603	15.102	1.00	81.79	C	
ANISOU	2041	C	VAL	D	95	9519	10871	10687	580	-457	-468	C
ATOM	2042	O	VAL	D	95	82.644	22.463	15.948	1.00	75.83	O	
ANISOU	2042	O	VAL	D	95	8719	10260	9832	461	-540	-429	O
ATOM	2043	N	MET	D	96	81.182	20.987	15.049	1.00	87.65	N	
ANISOU	2043	N	MET	D	96	10407	11357	11539	566	-348	-567	N
ATOM	2044	CA	MET	D	96	80.118	21.305	15.998	1.00	86.32	C	
ANISOU	2044	CA	MET	D	96	10354	11063	11382	408	-314	-635	C
ATOM	2045	CB	MET	D	96	78.842	20.490	15.726	1.00	83.72	C	
ANISOU	2045	CB	MET	D	96	10178	10437	11195	419	-187	-739	C
ATOM	2046	CG	MET	D	96	78.193	20.688	14.373	1.00	74.09	C	
ANISOU	2046	CG	MET	D	96	8945	9092	10115	386	-161	-893	C
ATOM	2047	SD	MET	D	96	76.815	19.532	14.121	1.00	85.51	S	
ANISOU	2047	SD	MET	D	96	10578	10189	11725	429	-13	-986	S
ATOM	2048	CE	MET	D	96	77.440	18.395	12.901	1.00	77.41	C	
ANISOU	2048	CE	MET	D	96	9531	9126	10756	665	25	-949	C
ATOM	2049	C	MET	D	96	80.556	21.063	17.438	1.00	74.10	C	
ANISOU	2049	C	MET	D	96	8848	9600	9705	426	-330	-494	C
ATOM	2050	O	MET	D	96	80.442	21.951	18.274	1.00	73.80	O	
ANISOU	2050	O	MET	D	96	8804	9643	9593	278	-389	-498	O
ATOM	2051	N	VAL	D	97	81.055	19.864	17.718	1.00	74.64	N	
ANISOU	2051	N	VAL	D	97	8963	9650	9748	609	-278	-371	N
ATOM	2052	CA	VAL	D	97	81.451	19.505	19.073	1.00	82.82	C	
ANISOU	2052	CA	VAL	D	97	10048	10753	10668	642	-282	-233	C
ATOM	2053	CB	VAL	D	97	81.906	18.022	19.127	1.00	80.47	C	
ANISOU	2053	CB	VAL	D	97	9806	10398	10373	864	-206	-113	C
ATOM	2054	CG1	VAL	D	97	82.688	17.735	20.405	1.00	77.55	C	
ANISOU	2054	CG1	VAL	D	97	9440	10164	9860	919	-236	56	C
ATOM	2055	CG2	VAL	D	97	80.703	17.098	19.035	1.00	79.37	C	
ANISOU	2055	CG2	VAL	D	97	9825	9970	10361	892	-75	-196	C
ATOM	2056	C	VAL	D	97	82.565	20.433	19.582	1.00	78.54	C	
ANISOU	2056	C	VAL	D	97	9373	10491	9978	592	-416	-133	C
ATOM	2057	O	VAL	D	97	82.548	20.863	20.736	1.00	71.74	O	
ANISOU	2057	O	VAL	D	97	8543	9691	9022	499	-454	-88	O
ATOM	2058	N	ALA	D	98	83.488	20.790	18.693	1.00	77.87	N	
ANISOU	2058	N	ALA	D	98	9140	10571	9877	646	-491	-104	N
ATOM	2059	CA	ALA	D	98	84.588	21.685	19.030	1.00	72.69	C	
ANISOU	2059	CA	ALA	D	98	8343	10183	9091	602	-625	-8	C
ATOM	2060	CB	ALA	D	98	85.552	21.800	17.881	1.00	78.44	C	
ANISOU	2060	CB	ALA	D	98	8918	11057	9828	702	-680	29	C
ATOM	2061	C	ALA	D	98	84.083	23.062	19.433	1.00	73.11	C	
ANISOU	2061	C	ALA	D	98	8378	10284	9118	374	-700	-104	C
ATOM	2062	O	ALA	D	98	84.602	23.678	20.358	1.00	81.14	O	
ANISOU	2062	O	ALA	D	98	9358	11458	10013	302	-789	-25	O
ATOM	2063	N	GLY	D	99	83.075	23.552	18.730	1.00	79.63	N	
ANISOU	2063	N	GLY	D	99	9229	10971	10056	259	-667	-275	N
ATOM	2064	CA	GLY	D	99	82.518	24.849	19.053	1.00	76.62	C	
ANISOU	2064	CA	GLY	D	99	8835	10618	9659	40	-731	-377	C
ATOM	2065	C	GLY	D	99	81.739	24.801	20.353	1.00	72.73	C	
ANISOU	2065	C	GLY	D	99	8487	10020	9128	-51	-687	-382	C
ATOM	2066	O	GLY	D	99	81.885	25.679	21.198	1.00	73.65	O	
ANISOU	2066	O	GLY	D	99	8587	10252	9145	-176	-769	-361	O
ATOM	2067	N	ILE	D	100	80.902	23.776	20.504	1.00	70.44	N	
ANISOU	2067	N	ILE	D	100	8341	9506	8918	14	-560	-409	N
ATOM	2068	CA	ILE	D	100	80.080	23.599	21.704	1.00	71.62	C	

ANISOU	2068	CA	ILE	D	100	8638	9530	9044	-56	-501	-413	C
ATOM	2069	CB	ILE	D	100	79.175	22.353	21.606	1.00	77.04		C
ANISOU	2069	CB	ILE	D	100	9470	9957	9846	38	-354	-445	C
ATOM	2070	CG1	ILE	D	100	78.289	22.403	20.361	1.00	80.44		C
ANISOU	2070	CG1	ILE	D	100	9909	10216	10438	-0	-296	-606	C
ATOM	2071	CD1	ILE	D	100	77.497	21.120	20.152	1.00	79.75		C
ANISOU	2071	CD1	ILE	D	100	9955	9877	10469	108	-160	-630	C
ATOM	2072	CG2	ILE	D	100	78.311	22.230	22.846	1.00	73.67		C
ANISOU	2072	CG2	ILE	D	100	9189	9404	9396	-39	-294	-447	C
ATOM	2073	C	ILE	D	100	80.921	23.466	22.974	1.00	81.43		C
ANISOU	2073	C	ILE	D	100	9885	10927	10130	-13	-554	-249	C
ATOM	2074	O	ILE	D	100	80.606	24.064	24.008	1.00	84.65		O
ANISOU	2074	O	ILE	D	100	10346	11355	10462	-137	-584	-250	O
ATOM	2075	N	THR	D	101	81.994	22.683	22.893	1.00	85.66		N
ANISOU	2075	N	THR	D	101	10364	11569	10614	164	-567	-108	N
ATOM	2076	CA	THR	D	101	82.863	22.475	24.044	1.00	75.39		C
ANISOU	2076	CA	THR	D	101	9061	10417	9166	220	-618	57	C
ATOM	2077	CB	THR	D	101	83.932	21.399	23.753	1.00	73.23		C
ANISOU	2077	CB	THR	D	101	8735	10222	8869	439	-605	205	C
ATOM	2078	OG1	THR	D	101	83.308	20.114	23.634	1.00	71.79		O
ANISOU	2078	OG1	THR	D	101	8673	9824	8779	562	-467	195	O
ATOM	2079	CG2	THR	D	101	84.933	21.340	24.885	1.00	94.38		C
ANISOU	2079	CG2	THR	D	101	11388	13084	11390	483	-676	378	C
ATOM	2080	C	THR	D	101	83.552	23.767	24.453	1.00	73.70		C
ANISOU	2080	C	THR	D	101	8738	10433	8832	92	-767	89	C
ATOM	2081	O	THR	D	101	83.499	24.160	25.614	1.00	85.30		O
ANISOU	2081	O	THR	D	101	10261	11949	10202	7	-804	129	O
ATOM	2082	N	SER	D	102	84.170	24.438	23.492	1.00	69.73		N
ANISOU	2082	N	SER	D	102	8086	10069	8341	77	-851	68	N
ATOM	2083	CA	SER	D	102	84.874	25.686	23.765	1.00	79.09		C
ANISOU	2083	CA	SER	D	102	9153	11477	9420	-42	-1001	98	C
ATOM	2084	CB	SER	D	102	85.443	26.268	22.469	1.00	81.33		C
ANISOU	2084	CB	SER	D	102	9273	11879	9751	-37	-1071	62	C
ATOM	2085	OG	SER	D	102	86.363	25.365	21.881	1.00	87.33		O
ANISOU	2085	OG	SER	D	102	9963	12702	10517	162	-1055	175	O
ATOM	2086	C	SER	D	102	83.996	26.736	24.451	1.00	75.18		C
ANISOU	2086	C	SER	D	102	8725	10937	8902	-254	-1030	-10	C
ATOM	2087	O	SER	D	102	84.368	27.292	25.481	1.00	79.00		O
ANISOU	2087	O	SER	D	102	9212	11544	9261	-328	-1113	59	O
ATOM	2088	N	PHE	D	103	82.835	27.013	23.877	1.00	78.96		N
ANISOU	2088	N	PHE	D	103	9260	11241	9501	-353	-962	-177	N
ATOM	2089	CA	PHE	D	103	81.953	28.005	24.464	1.00	81.81		C
ANISOU	2089	CA	PHE	D	103	9686	11551	9848	-553	-981	-285	C
ATOM	2090	CB	PHE	D	103	80.768	28.297	23.530	1.00	88.28		C
ANISOU	2090	CB	PHE	D	103	10536	12186	10819	-647	-908	-471	C
ATOM	2091	CG	PHE	D	103	81.113	29.189	22.355	1.00	79.61		C
ANISOU	2091	CG	PHE	D	103	9284	11198	9767	-707	-991	-546	C
ATOM	2092	CD1	PHE	D	103	81.223	30.564	22.520	1.00	79.71		C
ANISOU	2092	CD1	PHE	D	103	9222	11345	9720	-877	-1106	-593	C
ATOM	2093	CE1	PHE	D	103	81.529	31.391	21.450	1.00	78.11		C
ANISOU	2093	CE1	PHE	D	103	8874	11242	9560	-934	-1181	-660	C
ATOM	2094	CZ	PHE	D	103	81.713	30.847	20.196	1.00	87.74		C
ANISOU	2094	CZ	PHE	D	103	10026	12427	10883	-818	-1139	-683	C
ATOM	2095	CE2	PHE	D	103	81.595	29.482	20.014	1.00	87.90		C
ANISOU	2095	CE2	PHE	D	103	10126	12312	10961	-647	-1024	-640	C
ATOM	2096	CD2	PHE	D	103	81.292	28.661	21.086	1.00	84.12		C
ANISOU	2096	CD2	PHE	D	103	9788	11732	10441	-594	-951	-572	C
ATOM	2097	C	PHE	D	103	81.459	27.533	25.826	1.00	78.63		C
ANISOU	2097	C	PHE	D	103	9440	11053	9382	-559	-921	-235	C
ATOM	2098	O	PHE	D	103	81.191	28.335	26.718	1.00	76.67		O
ANISOU	2098	O	PHE	D	103	9236	10841	9053	-696	-971	-252	O
ATOM	2099	N	GLY	D	104	81.358	26.223	25.987	1.00	81.07		N
ANISOU	2099	N	GLY	D	104	9835	11243	9727	-404	-814	-170	N

ATOM	2100	CA	GLY	D	104	80.916	25.655	27.244	1.00	79.43		C
ANISOU	2100	CA	GLY	D	104	9774	10940	9465	-390	-748	-114	C
ATOM	2101	C	GLY	D	104	81.936	25.916	28.329	1.00	89.12		C
ANISOU	2101	C	GLY	D	104	10970	12373	10520	-380	-853	35	C
ATOM	2102	O	GLY	D	104	81.615	26.134	29.502	1.00	88.77		O
ANISOU	2102	O	GLY	D	104	11022	12316	10392	-452	-856	58	O
ATOM	2103	N	LEU	D	105	83.197	25.859	27.937	1.00	90.63		N
ANISOU	2103	N	LEU	D	105	11023	12755	10655	-284	-939	144	N
ATOM	2104	CA	LEU	D	105	84.275	26.100	28.874	1.00	80.13		C
ANISOU	2104	CA	LEU	D	105	9647	11634	9164	-268	-1049	295	C
ATOM	2105	CB	LEU	D	105	85.579	25.597	28.258	1.00	75.93		C
ANISOU	2105	CB	LEU	D	105	8978	11262	8611	-107	-1099	425	C
ATOM	2106	CG	LEU	D	105	86.910	25.966	28.921	1.00	88.55		C
ANISOU	2106	CG	LEU	D	105	10479	13113	10054	-87	-1238	588	C
ATOM	2107	CD1	LEU	D	105	88.027	25.000	28.586	1.00	88.31		C
ANISOU	2107	CD1	LEU	D	105	10367	13180	10006	116	-1235	743	C
ATOM	2108	CD2	LEU	D	105	87.378	27.359	28.602	1.00	90.56		C
ANISOU	2108	CD2	LEU	D	105	10600	13544	10263	-226	-1387	554	C
ATOM	2109	C	LEU	D	105	84.378	27.591	29.247	1.00	81.46		C
ANISOU	2109	C	LEU	D	105	9763	11942	9248	-458	-1184	251	C
ATOM	2110	O	LEU	D	105	84.522	27.936	30.411	1.00	100.28		O
ANISOU	2110	O	LEU	D	105	12200	14393	11510	-518	-1238	312	O
ATOM	2111	N	VAL	D	106	84.243	28.467	28.261	1.00	80.72		N
ANISOU	2111	N	VAL	D	106	9571	11879	9220	-554	-1233	139	N
ATOM	2112	CA	VAL	D	106	84.283	29.911	28.482	1.00	86.23		C
ANISOU	2112	CA	VAL	D	106	10213	12698	9852	-738	-1359	82	C
ATOM	2113	CB	VAL	D	106	84.131	30.666	27.158	1.00	86.66		C
ANISOU	2113	CB	VAL	D	106	10151	12769	10009	-812	-1392	-43	C
ATOM	2114	CG1	VAL	D	106	84.005	32.157	27.389	1.00	77.28		C
ANISOU	2114	CG1	VAL	D	106	8920	11679	8765	-1014	-1510	-118	C
ATOM	2115	CG2	VAL	D	106	85.321	30.368	26.274	1.00	84.74		C
ANISOU	2115	CG2	VAL	D	106	9747	12680	9771	-677	-1448	54	C
ATOM	2116	C	VAL	D	106	83.163	30.283	29.466	1.00	90.04		C
ANISOU	2116	C	VAL	D	106	10854	13045	10311	-875	-1313	-1	C
ATOM	2117	O	VAL	D	106	83.269	31.234	30.254	1.00	86.95		O
ANISOU	2117	O	VAL	D	106	10470	12753	9813	-1003	-1410	4	O
ATOM	2118	N	THR	D	107	82.087	29.518	29.406	1.00	88.44		N
ANISOU	2118	N	THR	D	107	10779	12611	10212	-843	-1162	-74	N
ATOM	2119	CA	THR	D	107	80.992	29.695	30.333	1.00	89.75		C
ANISOU	2119	CA	THR	D	107	11103	12631	10366	-948	-1098	-141	C
ATOM	2120	CB	THR	D	107	79.730	28.943	29.863	1.00	94.19		C
ANISOU	2120	CB	THR	D	107	11775	12926	11085	-923	-932	-249	C
ATOM	2121	OG1	THR	D	107	79.326	29.465	28.598	1.00	93.26		O
ANISOU	2121	OG1	THR	D	107	11580	12764	11089	-991	-931	-386	O
ATOM	2122	CG2	THR	D	107	78.561	29.110	30.810	1.00	92.09		C
ANISOU	2122	CG2	THR	D	107	11674	12502	10814	-1028	-858	-313	C
ATOM	2123	C	THR	D	107	81.454	29.238	31.700	1.00	97.14		C
ANISOU	2123	C	THR	D	107	12119	13627	11164	-887	-1112	4	C
ATOM	2124	O	THR	D	107	81.200	29.879	32.697	1.00	103.59		O
ANISOU	2124	O	THR	D	107	13007	14465	11885	-996	-1153	1	O
ATOM	2125	N	ALA	D	108	82.143	28.112	31.729	1.00	100.48		N
ANISOU	2125	N	ALA	D	108	12528	14073	11575	-707	-1077	132	N
ATOM	2126	CA	ALA	D	108	82.630	27.545	32.987	1.00	107.87		C
ANISOU	2126	CA	ALA	D	108	13537	15064	12386	-630	-1083	280	C
ATOM	2127	CB	ALA	D	108	83.318	26.211	32.736	1.00	116.72		C
ANISOU	2127	CB	ALA	D	108	14631	16189	13529	-420	-1026	405	C
ATOM	2128	C	ALA	D	108	83.581	28.507	33.703	1.00	104.36		C
ANISOU	2128	C	ALA	D	108	13022	14853	11778	-707	-1249	364	C
ATOM	2129	O	ALA	D	108	83.423	28.773	34.898	1.00	104.58		O
ANISOU	2129	O	ALA	D	108	13146	14892	11697	-769	-1273	399	O
ATOM	2130	N	ALA	D	109	84.552	29.034	32.956	1.00	97.87		N
ANISOU	2130	N	ALA	D	109	12034	14212	10941	-705	-1366	396	N
ATOM	2131	CA	ALA	D	109	85.522	29.979	33.498	1.00	103.59		C

ANISOU	2131	CA	ALA	D	109	12673	15166	11522	-778	-1536	478	C
ATOM	2132	CB	ALA	D	109	86.444	30.486	32.408	1.00105.89			C
ANISOU	2132	CB	ALA	D	109	12772	15625	11837	-768	-1642	494	C
ATOM	2133	C	ALA	D	109	84.802	31.140	34.171	1.00104.83			C
ANISOU	2133	C	ALA	D	109	12905	15302	11624	-975	-1586	377	C
ATOM	2134	O	ALA	D	109	85.239	31.641	35.204	1.00115.16			O
ANISOU	2134	O	ALA	D	109	14239	16727	12791	-1031	-1684	451	O
ATOM	2135	N	LEU	D	110	83.698	31.565	33.569	1.00102.48			N
ANISOU	2135	N	LEU	D	110	12645	14855	11439	-1079	-1519	208	N
ATOM	2136	CA	LEU	D	110	82.879	32.631	34.126	1.00106.54			C
ANISOU	2136	CA	LEU	D	110	13239	15324	11916	-1265	-1546	98	C
ATOM	2137	CB	LEU	D	110	81.798	33.058	33.135	1.00102.34			C
ANISOU	2137	CB	LEU	D	110	12708	14642	11534	-1363	-1475	-85	C
ATOM	2138	CG	LEU	D	110	82.244	33.864	31.923	1.00	96.14		C
ANISOU	2138	CG	LEU	D	110	11752	13972	10806	-1419	-1567	-148	C
ATOM	2139	CD1	LEU	D	110	81.041	34.145	31.041	1.00103.01			C
ANISOU	2139	CD1	LEU	D	110	12649	14663	11829	-1509	-1474	-330	C
ATOM	2140	CD2	LEU	D	110	82.901	35.166	32.367	1.00	88.84		C
ANISOU	2140	CD2	LEU	D	110	10753	13249	9755	-1552	-1743	-126	C
ATOM	2141	C	LEU	D	110	82.236	32.230	35.450	1.00110.39			C
ANISOU	2141	C	LEU	D	110	13910	15699	12336	-1268	-1471	126	C
ATOM	2142	O	LEU	D	110	82.070	33.067	36.337	1.00114.47			O
ANISOU	2142	O	LEU	D	110	14488	16259	12747	-1390	-1539	113	O
ATOM	2143	N	ALA	D	111	81.844	30.964	35.569	1.00106.88			N
ANISOU	2143	N	ALA	D	111	13554	15104	11952	-1134	-1330	163	N
ATOM	2144	CA	ALA	D	111	81.219	30.480	36.795	1.00111.84			C
ANISOU	2144	CA	ALA	D	111	14355	15616	12524	-1122	-1247	196	C
ATOM	2145	CB	ALA	D	111	80.636	29.096	36.577	1.00105.09			C
ANISOU	2145	CB	ALA	D	111	13579	14567	11784	-980	-1078	204	C
ATOM	2146	C	ALA	D	111	82.230	30.468	37.947	1.00123.69			C
ANISOU	2146	C	ALA	D	111	15861	17288	13846	-1080	-1349	357	C
ATOM	2147	O	ALA	D	111	81.927	30.902	39.060	1.00123.91			O
ANISOU	2147	O	ALA	D	111	15997	17314	13769	-1159	-1371	364	O
ATOM	2148	N	THR	D	112	83.411	29.956	37.683	1.00123.03			N
ANISOU	2148	N	THR	D	112	15666	17349	13729	-954	-1407	486	N
ATOM	2149	CA	THR	D	112	84.387	29.885	38.731	1.00120.26			C
ANISOU	2149	CA	THR	D	112	15316	17159	13217	-909	-1502	644	C
ATOM	2150	CB	THR	D	112	85.682	29.238	38.226	1.00119.10			C
ANISOU	2150	CB	THR	D	112	15029	17162	13060	-757	-1553	785	C
ATOM	2151	OG1	THR	D	112	85.366	28.130	37.391	1.00120.92			O
ANISOU	2151	OG1	THR	D	112	15258	17255	13431	-623	-1415	767	O
ATOM	2152	CG2	THR	D	112	86.499	28.736	39.359	1.00125.88			C
ANISOU	2152	CG2	THR	D	112	15922	18128	13778	-670	-1597	958	C
ATOM	2153	C	THR	D	112	84.664	31.300	39.200	1.00123.55			C
ANISOU	2153	C	THR	D	112	15705	17722	13518	-1075	-1660	620	C
ATOM	2154	O	THR	D	112	84.776	31.557	40.385	1.00137.83			O
ANISOU	2154	O	THR	D	112	17598	19578	15192	-1115	-1711	680	O
ATOM	2155	N	TRP	D	113	84.744	32.235	38.269	1.00124.27			N
ANISOU	2155	N	TRP	D	113	15678	17878	13660	-1175	-1738	528	N
ATOM	2156	CA	TRP	D	113	85.060	33.601	38.627	1.00126.01			C
ANISOU	2156	CA	TRP	D	113	15859	18243	13775	-1333	-1897	506	C
ATOM	2157	CB	TRP	D	113	85.045	34.452	37.360	1.00133.69			C
ANISOU	2157	CB	TRP	D	113	16693	19259	14843	-1422	-1953	393	C
ATOM	2158	CG	TRP	D	113	85.395	35.881	37.548	1.00137.18			C
ANISOU	2158	CG	TRP	D	113	17073	19853	15195	-1584	-2121	362	C
ATOM	2159	CD1	TRP	D	113	86.291	36.390	38.424	1.00139.34			C
ANISOU	2159	CD1	TRP	D	113	17328	20304	15312	-1615	-2270	475	C
ATOM	2160	NE1	TRP	D	113	86.364	37.745	38.290	1.00142.93			N
ANISOU	2160	NE1	TRP	D	113	17722	20858	15729	-1778	-2403	403	N
ATOM	2161	CE2	TRP	D	113	85.510	38.136	37.296	1.00141.04			C
ANISOU	2161	CE2	TRP	D	113	17457	20508	15626	-1855	-2337	241	C
ATOM	2162	CD2	TRP	D	113	84.894	36.986	36.799	1.00133.07			C
ANISOU	2162	CD2	TRP	D	113	16496	19324	14742	-1736	-2162	212	C

ATOM	2163	CE3	TRP	D	113	83.971	37.113	35.767	1.00126.86		C	
ANISOU	2163	CE3	TRP	D	113	15696	18396	14108	-1785	-2067	57	C
ATOM	2164	CZ3	TRP	D	113	83.702	38.365	35.273	1.00128.11		C	
ANISOU	2164	CZ3	TRP	D	113	15792	18594	14290	-1948	-2147	-63	C
ATOM	2165	CH2	TRP	D	113	84.328	39.488	35.784	1.00130.23		C	
ANISOU	2165	CH2	TRP	D	113	16012	19037	14432	-2062	-2320	-32	C
ATOM	2166	CZ2	TRP	D	113	85.237	39.398	36.794	1.00137.38		C	
ANISOU	2166	CZ2	TRP	D	113	16931	20082	15187	-2018	-2419	119	C
ATOM	2167	C	TRP	D	113	84.046	34.161	39.573	1.00123.97		C	
ANISOU	2167	C	TRP	D	113	15763	17875	13464	-1461	-1866	420	C
ATOM	2168	O	TRP	D	113	84.407	34.734	40.586	1.00132.13		O	
ANISOU	2168	O	TRP	D	113	16841	19011	14351	-1524	-1969	478	O
ATOM	2169	N	PHE	D	114	82.777	33.975	39.268	1.00125.88		N	
ANISOU	2169	N	PHE	D	114	16099	17907	13823	-1496	-1724	288	N
ATOM	2170	CA	PHE	D	114	81.767	34.484	40.154	1.00131.38		C	
ANISOU	2170	CA	PHE	D	114	16953	18490	14474	-1613	-1684	209	C
ATOM	2171	CB	PHE	D	114	80.395	34.382	39.505	1.00131.29		C	
ANISOU	2171	CB	PHE	D	114	17008	18255	14622	-1661	-1535	50	C
ATOM	2172	CG	PHE	D	114	80.263	35.228	38.280	1.00122.12		C	
ANISOU	2172	CG	PHE	D	114	15723	17118	13560	-1763	-1581	-75	C
ATOM	2173	CD1	PHE	D	114	81.133	36.268	38.056	1.00128.43		C	
ANISOU	2173	CD1	PHE	D	114	16393	18120	14285	-1845	-1753	-62	C
ATOM	2174	CE1	PHE	D	114	81.008	37.063	36.939	1.00131.62		C	
ANISOU	2174	CE1	PHE	D	114	16681	18548	14779	-1940	-1796	-176	C
ATOM	2175	CZ	PHE	D	114	80.002	36.829	36.040	1.00131.41		C	
ANISOU	2175	CZ	PHE	D	114	16671	18343	14918	-1954	-1668	-307	C
ATOM	2176	CE2	PHE	D	114	79.115	35.799	36.258	1.00131.84		C	
ANISOU	2176	CE2	PHE	D	114	16856	18189	15046	-1875	-1498	-321	C
ATOM	2177	CD2	PHE	D	114	79.248	35.006	37.374	1.00127.40		C	
ANISOU	2177	CD2	PHE	D	114	16407	17605	14395	-1779	-1456	-205	C
ATOM	2178	C	PHE	D	114	81.868	33.751	41.477	1.00131.66		C	
ANISOU	2178	C	PHE	D	114	17120	18506	14398	-1527	-1645	330	C
ATOM	2179	O	PHE	D	114	81.836	34.360	42.530	1.00136.37		O	
ANISOU	2179	O	PHE	D	114	17803	19148	14863	-1608	-1710	349	O
ATOM	2180	N	VAL	D	115	82.010	32.437	41.422	1.00131.06		N	
ANISOU	2180	N	VAL	D	115	17060	18365	14372	-1361	-1541	414	N
ATOM	2181	CA	VAL	D	115	82.126	31.667	42.640	1.00137.50		C	
ANISOU	2181	CA	VAL	D	115	17995	19161	15089	-1269	-1499	534	C
ATOM	2182	CB	VAL	D	115	82.093	30.175	42.346	1.00133.66		C	
ANISOU	2182	CB	VAL	D	115	17521	18566	14697	-1088	-1360	600	C
ATOM	2183	CG1	VAL	D	115	82.277	29.381	43.619	1.00139.31		C	
ANISOU	2183	CG1	VAL	D	115	18352	19273	15306	-990	-1321	732	C
ATOM	2184	CG2	VAL	D	115	80.793	29.812	41.678	1.00125.77		C	
ANISOU	2184	CG2	VAL	D	115	16588	17333	13868	-1100	-1200	463	C
ATOM	2185	C	VAL	D	115	83.413	31.985	43.362	1.00144.81		C	
ANISOU	2185	C	VAL	D	115	18864	20312	15845	-1254	-1661	678	C
ATOM	2186	O	VAL	D	115	83.433	32.140	44.567	1.00152.60		O	
ANISOU	2186	O	VAL	D	115	19957	21324	16699	-1279	-1693	736	O
ATOM	2187	N	GLY	D	116	84.496	32.084	42.610	1.00144.75		N	
ANISOU	2187	N	GLY	D	116	18686	20469	15841	-1213	-1765	740	N
ATOM	2188	CA	GLY	D	116	85.797	32.360	43.180	1.00139.37		C	
ANISOU	2188	CA	GLY	D	116	17932	20010	15011	-1194	-1925	886	C
ATOM	2189	C	GLY	D	116	85.930	33.699	43.856	1.00141.60		C	
ANISOU	2189	C	GLY	D	116	18235	20404	15164	-1357	-2076	860	C
ATOM	2190	O	GLY	D	116	86.558	33.812	44.891	1.00156.97		O	
ANISOU	2190	O	GLY	D	116	20220	22461	16961	-1353	-2168	971	O
ATOM	2191	N	ARG	D	117	85.282	34.702	43.286	1.00137.60		N	
ANISOU	2191	N	ARG	D	117	17710	19858	14715	-1503	-2097	708	N
ATOM	2192	CA	ARG	D	117	85.298	36.031	43.855	1.00134.82		C	
ANISOU	2192	CA	ARG	D	117	17382	19595	14249	-1669	-2235	664	C
ATOM	2193	CB	ARG	D	117	85.282	37.094	42.767	1.00126.17		C	
ANISOU	2193	CB	ARG	D	117	16156	18556	13228	-1792	-2316	548	C
ATOM	2194	C	ARG	D	117	84.086	36.209	44.726	1.00135.88		C	

ANISOU	2194	C	ARG	D	117	17711	19563	14355	-1746	-2142	576	C
ATOM	2195	O	ARG	D	117	83.756	37.319	45.096	1.00133.05			O
ANISOU	2195	O	ARG	D	117	17398	19225	13931	-1895	-2219	499	O
ATOM	2196	N	GLU	D	118	83.398	35.121	45.030	1.00137.90			N
ANISOU	2196	N	GLU	D	118	18082	19650	14665	-1643	-1973	586	N
ATOM	2197	CA	GLU	D	118	82.242	35.227	45.890	1.00140.88			C
ANISOU	2197	CA	GLU	D	118	18646	19865	15016	-1705	-1876	515	C
ATOM	2198	CB	GLU	D	118	81.066	34.416	45.384	1.00146.78			C
ANISOU	2198	CB	GLU	D	118	19463	20380	15928	-1654	-1674	426	C
ATOM	2199	CG	GLU	D	118	79.897	34.400	46.359	1.00146.83			C
ANISOU	2199	CG	GLU	D	118	19667	20216	15905	-1699	-1564	374	C
ATOM	2200	CD	GLU	D	118	79.278	35.767	46.554	1.00145.55			C
ANISOU	2200	CD	GLU	D	118	19556	20047	15699	-1886	-1625	250	C
ATOM	2201	OE1	GLU	D	118	79.586	36.668	45.764	1.00141.34			O
ANISOU	2201	OE1	GLU	D	118	18901	19610	15192	-1983	-1729	182	O
ATOM	2202	OE2	GLU	D	118	78.480	35.944	47.494	1.00161.73			O
ANISOU	2202	OE2	GLU	D	118	21766	21994	17688	-1934	-1566	222	O
ATOM	2203	C	GLU	D	118	82.589	34.762	47.263	1.00154.40			C
ANISOU	2203	C	GLU	D	118	20473	21613	16579	-1636	-1888	647	C
ATOM	2204	O	GLU	D	118	82.227	35.392	48.231	1.00166.72			O
ANISOU	2204	O	GLU	D	118	22154	23164	18028	-1725	-1922	627	O
ATOM	2205	N	GLN	D	119	83.281	33.656	47.361	1.00153.92			N
ANISOU	2205	N	GLN	D	119	20379	21590	16515	-1476	-1857	782	N
ATOM	2206	CA	GLN	D	119	83.633	33.161	48.660	1.00162.92			C
ANISOU	2206	CA	GLN	D	119	21623	22764	17514	-1405	-1865	913	C
ATOM	2207	CB	GLN	D	119	84.366	31.834	48.528	1.00165.99			C
ANISOU	2207	CB	GLN	D	119	21954	23182	17932	-1217	-1814	1054	C
ATOM	2208	CG	GLN	D	119	84.209	30.902	49.710	1.00171.02			C
ANISOU	2208	CG	GLN	D	119	22734	23750	18494	-1113	-1726	1156	C
ATOM	2209	CD	GLN	D	119	84.625	29.486	49.379	1.00172.65			C
ANISOU	2209	CD	GLN	D	119	22892	23930	18776	-926	-1630	1261	C
ATOM	2210	OE1	GLN	D	119	85.253	29.238	48.352	1.00169.26			O
ANISOU	2210	OE1	GLN	D	119	22314	23569	18427	-869	-1655	1282	O
ATOM	2211	NE2	GLN	D	119	84.275	28.547	50.249	1.00173.11			N
ANISOU	2211	NE2	GLN	D	119	23078	23888	18807	-828	-1518	1330	N
ATOM	2212	C	GLN	D	119	84.513	34.191	49.337	1.00169.64			C
ANISOU	2212	C	GLN	D	119	22449	23815	18193	-1496	-2066	972	C
ATOM	2213	O	GLN	D	119	84.441	34.393	50.541	1.00178.79			O
ANISOU	2213	O	GLN	D	119	23735	24983	19213	-1523	-2097	1016	O
ATOM	2214	N	GLU	D	120	85.363	34.842	48.564	1.00163.60			N
ANISOU	2214	N	GLU	D	120	21518	23210	17434	-1543	-2207	978	N
ATOM	2215	CA	GLU	D	120	86.295	35.777	49.151	1.00162.00			C
ANISOU	2215	CA	GLU	D	120	21276	23205	17073	-1623	-2409	1048	C
ATOM	2216	CB	GLU	D	120	87.043	36.554	48.072	1.00152.75			C
ANISOU	2216	CB	GLU	D	120	19909	22184	15946	-1686	-2547	1026	C
ATOM	2217	C	GLU	D	120	85.454	36.715	50.007	1.00171.33			C
ANISOU	2217	C	GLU	D	120	22612	24319	18165	-1767	-2426	951	C
ATOM	2218	O	GLU	D	120	85.839	37.068	51.108	1.00185.53			O
ANISOU	2218	O	GLU	D	120	24490	26200	19803	-1796	-2524	1024	O
ATOM	2219	N	ARG	D	121	84.292	37.107	49.507	1.00166.94			N
ANISOU	2219	N	ARG	D	121	22105	23609	17714	-1855	-2329	788	N
ATOM	2220	CA	ARG	D	121	83.410	37.979	50.264	1.00169.97			C
ANISOU	2220	CA	ARG	D	121	22641	23917	18025	-1989	-2330	690	C
ATOM	2221	CB	ARG	D	121	82.205	38.409	49.434	1.00164.42			C
ANISOU	2221	CB	ARG	D	121	21951	23054	17467	-2084	-2225	509	C
ATOM	2222	C	ARG	D	121	82.958	37.254	51.517	1.00175.82			C
ANISOU	2222	C	ARG	D	121	23566	24556	18683	-1913	-2229	755	C
ATOM	2223	O	ARG	D	121	82.837	37.844	52.584	1.00185.34			O
ANISOU	2223	O	ARG	D	121	24894	25781	19744	-1982	-2290	763	O
ATOM	2224	N	ARG	D	122	82.698	35.963	51.378	1.00174.33			N
ANISOU	2224	N	ARG	D	122	23398	24254	18586	-1768	-2072	801	N
ATOM	2225	CA	ARG	D	122	82.260	35.160	52.509	1.00180.34			C
ANISOU	2225	CA	ARG	D	122	24326	24912	19283	-1682	-1963	869	C

ATOM	2226	CB	ARG	D	122	80.953	34.443	52.181	1.00178.72	C
ANISOU	2226	CB	ARG	D	122	24206	24468	19230	-1642 -1747 778	C
ATOM	2227	C	ARG	D	122	83.324	34.144	52.912	1.00184.21	C
ANISOU	2227	C	ARG	D	122	24773	25506	19712	-1525 -1987 1049	C
ATOM	2228	O	ARG	D	122	84.268	34.464	53.636	1.00185.10	O
ANISOU	2228	O	ARG	D	122	24877	25782	19672	-1530 -2133 1155	O
TER										
HETATM	2229	O	HOH	D1001		74.203	26.458	7.232	1.00 77.55	O
HETATM	2230	O	HOH	D1002		77.192	25.300	25.717	1.00 72.41	O
HETATM	2231	O	HOH	D1003		75.741	27.014	22.400	1.00 72.64	O
TER										
ATOM	2232	N	SER	E	22	88.511	10.203	39.520	1.00171.95	N
ANISOU	2232	N	SER	E	22	22805	22494	20035	-660 -1614 2742	N
ATOM	2233	CA	SER	E	22	87.297	9.401	39.418	1.00172.99	C
ANISOU	2233	CA	SER	E	22	23179	22414	20135	-818 -1680 2762	C
ATOM	2234	CB	SER	E	22	87.621	7.920	39.612	1.00180.59	C
ANISOU	2234	CB	SER	E	22	24457	23214	20945	-674 -1776 2796	C
ATOM	2235	C	SER	E	22	86.182	9.851	40.374	1.00167.83	C
ANISOU	2235	C	SER	E	22	22451	21758	19559	-1109 -1664 2774	C
ATOM	2236	O	SER	E	22	85.571	9.045	41.061	1.00172.33	O
ANISOU	2236	O	SER	E	22	23216	22191	20071	-1209 -1726 2805	O
ATOM	2237	N	ALA	E	23	85.919	11.149	40.392	1.00158.05	N
ANISOU	2237	N	ALA	E	23	20930	20669	18453	-1244 -1579 2748	N
ATOM	2238	CA	ALA	E	23	84.882	11.738	41.223	1.00148.05	C
ANISOU	2238	CA	ALA	E	23	19557	19419	17275	-1523 -1552 2755	C
ATOM	2239	CB	ALA	E	23	85.131	13.219	41.411	1.00138.53	C
ANISOU	2239	CB	ALA	E	23	17999	18436	16201	-1589 -1447 2728	C
ATOM	2240	C	ALA	E	23	83.571	11.517	40.513	1.00142.25	C
ANISOU	2240	C	ALA	E	23	18953	18521	16575	-1697 -1577 2750	C
ATOM	2241	O	ALA	E	23	83.546	10.903	39.467	1.00149.28	O
ANISOU	2241	O	ALA	E	23	20009	19294	17415	-1592 -1615 2741	O
ATOM	2242	N	LEU	E	24	82.478	11.997	41.074	1.00135.44	N
ANISOU	2242	N	LEU	E	24	18018	17645	15797	-1962 -1556 2754	N
ATOM	2243	CA	LEU	E	24	81.199	11.819	40.421	1.00120.11	C
ANISOU	2243	CA	LEU	E	24	16191	15551	13892	-2136 -1578 2745	C
ATOM	2244	CB	LEU	E	24	80.061	12.282	41.329	1.00115.26	C
ANISOU	2244	CB	LEU	E	24	15502	14928	13363	-2431 -1560 2756	C
ATOM	2245	CG	LEU	E	24	78.686	12.383	40.672	1.00101.30	C
ANISOU	2245	CG	LEU	E	24	13788	13037	11664	-2640 -1565 2741	C
ATOM	2246	CD1	LEU	E	24	78.326	11.050	40.066	1.00106.54	C
ANISOU	2246	CD1	LEU	E	24	14781	13476	12224	-2577 -1657 2747	C
ATOM	2247	CD2	LEU	E	24	77.596	12.846	41.615	1.00108.16	C
ANISOU	2247	CD2	LEU	E	24	14579	13900	12617	-2930 -1545 2752	C
ATOM	2248	C	LEU	E	24	81.054	12.537	39.099	1.00121.53	C
ANISOU	2248	C	LEU	E	24	16248	15776	14151	-2118 -1527 2707	C
ATOM	2249	O	LEU	E	24	80.531	11.966	38.153	1.00129.95	O
ANISOU	2249	O	LEU	E	24	17490	16696	15188	-2109 -1570 2697	O
ATOM	2250	N	HIS	E	25	81.492	13.787	39.023	1.00122.17	N
ANISOU	2250	N	HIS	E	25	16031	16056	14332	-2115 -1434 2685	N
ATOM	2251	CA	HIS	E	25	81.279	14.530	37.792	1.00114.93	C
ANISOU	2251	CA	HIS	E	25	14989	15183	13496	-2113 -1379 2650	C
ATOM	2252	CB	HIS	E	25	81.565	16.009	37.967	1.00114.90	C
ANISOU	2252	CB	HIS	E	25	14636	15400	13621	-2168 -1267 2629	C
ATOM	2253	CG	HIS	E	25	82.964	16.310	38.386	1.00122.79	C
ANISOU	2253	CG	HIS	E	25	15491	16566	14598	-1970 -1228 2627	C
ATOM	2254	ND1	HIS	E	25	83.415	16.098	39.670	1.00129.04	N
ANISOU	2254	ND1	HIS	E	25	16273	17408	15348	-1967 -1246 2650	N
ATOM	2255	CE1	HIS	E	25	84.680	16.457	39.753	1.00128.48	C
ANISOU	2255	CE1	HIS	E	25	16059	17491	15267	-1771 -1205 2638	C
ATOM	2256	NE2	HIS	E	25	85.068	16.885	38.568	1.00119.60	N
ANISOU	2256	NE2	HIS	E	25	14853	16414	14176	-1647 -1159 2609	N
ATOM	2257	CD2	HIS	E	25	84.013	16.804	37.696	1.00121.99	C
ANISOU	2257	CD2	HIS	E	25	15249	16591	14509	-1766 -1173 2603	C

ATOM	2258	C	HIS	E	25	81.952	13.997	36.563	1.00115.77	C
ANISOU	2258	C	HIS	E	25	15219	15239	13531	-1872 -1404 2635	C
ATOM	2259	O	HIS	E	25	81.297	13.853	35.553	1.00122.87	O
ANISOU	2259	O	HIS	E	25	16206	16037	14441	-1905 -1420 2619	O
ATOM	2260	N	TRP	E	26	83.225	13.656	36.631	1.00114.60	N
ANISOU	2260	N	TRP	E	26	15087	15150	13304	-1629 -1413 2640	N
ATOM	2261	CA	TRP	E	26	83.876	13.096	35.460	1.00114.20	C
ANISOU	2261	CA	TRP	E	26	15166	15044	13180	-1395 -1440 2627	C
ATOM	2262	CB	TRP	E	26	85.382	12.970	35.612	1.00125.40	C
ANISOU	2262	CB	TRP	E	26	16541	16571	14534	-1132 -1431 2630	C
ATOM	2263	CG	TRP	E	26	86.133	14.175	35.108	1.00127.76	C
ANISOU	2263	CG	TRP	E	26	16550	17069	14923	-1038 -1328 2598	C
ATOM	2264	CD1	TRP	E	26	85.843	15.480	35.345	1.00125.19	C
ANISOU	2264	CD1	TRP	E	26	15938	16897	14733	-1188 -1234 2580	C
ATOM	2265	NE1	TRP	E	26	86.752	16.291	34.730	1.00123.88	N
ANISOU	2265	NE1	TRP	E	26	15566	16885	14617	-1034 -1154 2552	N
ATOM	2266	CE2	TRP	E	26	87.662	15.507	34.080	1.00137.55	C
ANISOU	2266	CE2	TRP	E	26	17452	18566	16246	-778 -1197 2551	C
ATOM	2267	CD2	TRP	E	26	87.302	14.172	34.300	1.00134.32	C
ANISOU	2267	CD2	TRP	E	26	17352	17965	15718	-774 -1306 2580	C
ATOM	2268	CE3	TRP	E	26	88.084	13.165	33.742	1.00141.21	C
ANISOU	2268	CE3	TRP	E	26	18431	18750	16470	-533 -1368 2586	C
ATOM	2269	CZ3	TRP	E	26	89.173	13.518	32.992	1.00144.85	C
ANISOU	2269	CZ3	TRP	E	26	18787	19316	16934	-310 -1319 2563	C
ATOM	2270	CH2	TRP	E	26	89.508	14.856	32.788	1.00147.49	C
ANISOU	2270	CH2	TRP	E	26	18812	19839	17388	-318 -1209 2534	C
ATOM	2271	CZ2	TRP	E	26	88.766	15.863	33.327	1.00146.03	C
ANISOU	2271	CZ2	TRP	E	26	18419	19744	17323	-550 -1146 2527	C
ATOM	2272	C	TRP	E	26	83.179	11.778	35.256	1.00115.44	C
ANISOU	2272	C	TRP	E	26	15655	14968	13240	-1422 -1543 2645	C
ATOM	2273	O	TRP	E	26	83.050	11.295	34.152	1.00115.59	O
ANISOU	2273	O	TRP	E	26	15818	14881	13221	-1337 -1575 2631	O
ATOM	2274	N	ARG	E	27	82.735	11.193	36.357	1.00124.07	N
ANISOU	2274	N	ARG	E	27	16868	15979	14292	-1542 -1593 2675	N
ATOM	2275	CA	ARG	E	27	82.027	9.928	36.312	1.00130.39	C
ANISOU	2275	CA	ARG	E	27	17984	16554	15004	-1586 -1688 2693	C
ATOM	2276	CB	ARG	E	27	81.750	9.411	37.729	1.00132.06	C
ANISOU	2276	CB	ARG	E	27	18288	16714	15176	-1700 -1728 2730	C
ATOM	2277	C	ARG	E	27	80.705	10.059	35.586	1.00125.85	C
ANISOU	2277	C	ARG	E	27	17454	15868	14494	-1779 -1693 2672	C
ATOM	2278	O	ARG	E	27	80.328	9.180	34.839	1.00132.59	O
ANISOU	2278	O	ARG	E	27	18538	16555	15284	-1739 -1755 2667	O
ATOM	2279	N	ALA	E	28	79.987	11.146	35.812	1.00117.55	N
ANISOU	2279	N	ALA	E	28	16186	14910	13569	-1989 -1628 2660	N
ATOM	2280	CA	ALA	E	28	78.697	11.318	35.159	1.00117.82	C
ANISOU	2280	CA	ALA	E	28	16251	14845	13669	-2182 -1632 2639	C
ATOM	2281	CB	ALA	E	28	77.896	12.401	35.854	1.00105.03	C
ANISOU	2281	CB	ALA	E	28	14407	13322	12179	-2440 -1568 2638	C
ATOM	2282	C	ALA	E	28	78.819	11.635	33.686	1.00118.13	C
ANISOU	2282	C	ALA	E	28	16254	14900	13732	-2071 -1607 2605	C
ATOM	2283	O	ALA	E	28	78.061	11.147	32.870	1.00109.36	O
ANISOU	2283	O	ALA	E	28	15302	13646	12606	-2116 -1650 2589	O
ATOM	2284	N	ALA	E	29	79.790	12.464	33.363	1.00114.80	N
ANISOU	2284	N	ALA	E	29	15617	14655	13347	-1926 -1534 2592	N
ATOM	2285	CA	ALA	E	29	80.031	12.938	32.004	1.00101.44	C
ANISOU	2285	CA	ALA	E	29	13847	13009	11687	-1809 -1494 2560	C
ATOM	2286	CB	ALA	E	29	81.296	13.772	31.955	1.00 94.46	C
ANISOU	2286	CB	ALA	E	29	12727	12329	10833	-1633 -1413 2552	C
ATOM	2287	C	ALA	E	29	80.131	11.836	30.979	1.00105.96	C
ANISOU	2287	C	ALA	E	29	14687	13419	12153	-1649 -1570 2552	C
ATOM	2288	O	ALA	E	29	79.226	11.671	30.168	1.00117.21	O
ANISOU	2288	O	ALA	E	29	16206	14734	13593	-1737 -1594 2532	O
ATOM	2289	N	GLY	E	30	81.177	11.027	31.095	1.00107.48	N

ANISOU	2289	N	GLY	E	30	15013	13590	12236	-1427	-1611	2568	N
ATOM	2290	CA	GLY	E	30	81.461	9.957	30.157	1.00113.95			C
ANISOU	2290	CA	GLY	E	30	16083	14266	12947	-1245	-1680	2562	C
ATOM	2291	C	GLY	E	30	80.261	9.055	30.016	1.00120.10			C
ANISOU	2291	C	GLY	E	30	17112	14832	13690	-1393	-1760	2562	C
ATOM	2292	O	GLY	E	30	80.043	8.445	28.968	1.00121.28			O
ANISOU	2292	O	GLY	E	30	17431	14859	13790	-1318	-1804	2544	O
ATOM	2293	N	ALA	E	31	79.539	8.896	31.119	1.00122.23			N
ANISOU	2293	N	ALA	E	31	17415	15051	13975	-1593	-1782	2584	N
ATOM	2294	CA	ALA	E	31	78.327	8.092	31.128	1.00121.70			C
ANISOU	2294	CA	ALA	E	31	17571	14783	13886	-1761	-1852	2583	C
ATOM	2295	CB	ALA	E	31	77.781	7.984	32.534	1.00120.70			C
ANISOU	2295	CB	ALA	E	31	17456	14632	13775	-1954	-1865	2612	C
ATOM	2296	C	ALA	E	31	77.262	8.674	30.188	1.00121.57			C
ANISOU	2296	C	ALA	E	31	17490	14741	13958	-1912	-1830	2546	C
ATOM	2297	O	ALA	E	31	76.646	7.935	29.408	1.00118.63			O
ANISOU	2297	O	ALA	E	31	17323	14208	13544	-1919	-1889	2527	O
ATOM	2298	N	ALA	E	32	77.051	9.992	30.271	1.00119.65			N
ANISOU	2298	N	ALA	E	32	16965	14659	13838	-2030	-1744	2535	N
ATOM	2299	CA	ALA	E	32	76.064	10.691	29.441	1.00107.63			C
ANISOU	2299	CA	ALA	E	32	15348	13137	12411	-2179	-1712	2502	C
ATOM	2300	CB	ALA	E	32	76.011	12.176	29.793	1.00	92.51		C
ANISOU	2300	CB	ALA	E	32	13100	11420	10628	-2300	-1609	2498	C
ATOM	2301	C	ALA	E	32	76.399	10.515	27.974	1.00108.36			C
ANISOU	2301	C	ALA	E	32	15505	13202	12466	-1995	-1721	2473	C
ATOM	2302	O	ALA	E	32	75.529	10.214	27.152	1.00118.09			O
ANISOU	2302	O	ALA	E	32	16855	14313	13699	-2066	-1757	2447	O
ATOM	2303	N	THR	E	33	77.674	10.717	27.665	1.00	99.46		N
ANISOU	2303	N	THR	E	33	14295	12189	11306	-1759	-1685	2476	N
ATOM	2304	CA	THR	E	33	78.186	10.564	26.316	1.00105.16			C
ANISOU	2304	CA	THR	E	33	15070	12900	11988	-1555	-1687	2451	C
ATOM	2305	CB	THR	E	33	79.697	10.649	26.307	1.00	97.11		C
ANISOU	2305	CB	THR	E	33	13975	12000	10921	-1296	-1654	2463	C
ATOM	2306	OG1	THR	E	33	80.079	11.951	26.763	1.00	88.52		O
ANISOU	2306	OG1	THR	E	33	12576	11120	9938	-1337	-1554	2464	O
ATOM	2307	CG2	THR	E	33	80.235	10.402	24.911	1.00	94.71		C
ANISOU	2307	CG2	THR	E	33	13747	11672	10568	-1077	-1661	2439	C
ATOM	2308	C	THR	E	33	77.749	9.238	25.718	1.00114.17			C
ANISOU	2308	C	THR	E	33	16530	13823	13025	-1511	-1788	2443	C
ATOM	2309	O	THR	E	33	77.246	9.182	24.590	1.00119.10			O
ANISOU	2309	O	THR	E	33	17216	14381	13654	-1506	-1801	2412	O
ATOM	2310	N	VAL	E	34	77.935	8.173	26.489	1.00117.22			N
ANISOU	2310	N	VAL	E	34	17120	14098	13319	-1482	-1857	2470	N
ATOM	2311	CA	VAL	E	34	77.535	6.846	26.047	1.00122.52			C
ANISOU	2311	CA	VAL	E	34	18105	14555	13890	-1445	-1952	2464	C
ATOM	2312	CB	VAL	E	34	77.955	5.763	27.053	1.00127.73			C
ANISOU	2312	CB	VAL	E	34	18961	15122	14450	-1390	-2014	2501	C
ATOM	2313	CG1	VAL	E	34	77.458	4.397	26.602	1.00126.11			C
ANISOU	2313	CG1	VAL	E	34	19081	14688	14148	-1368	-2108	2493	C
ATOM	2314	CG2	VAL	E	34	79.469	5.759	27.226	1.00134.85			C
ANISOU	2314	CG2	VAL	E	34	19804	16139	15293	-1137	-1991	2522	C
ATOM	2315	C	VAL	E	34	76.021	6.793	25.845	1.00130.53			C
ANISOU	2315	C	VAL	E	34	19189	15448	14958	-1691	-1981	2440	C
ATOM	2316	O	VAL	E	34	75.543	6.239	24.852	1.00139.90			O
ANISOU	2316	O	VAL	E	34	20537	16508	16110	-1667	-2028	2411	O
ATOM	2317	N	LEU	E	35	75.274	7.415	26.757	1.00125.98			N
ANISOU	2317	N	LEU	E	35	18481	14916	14470	-1927	-1950	2449	N
ATOM	2318	CA	LEU	E	35	73.818	7.428	26.664	1.00121.37			C
ANISOU	2318	CA	LEU	E	35	17945	14224	13945	-2175	-1973	2427	C
ATOM	2319	CB	LEU	E	35	73.200	7.968	27.963	1.00119.29			C
ANISOU	2319	CB	LEU	E	35	17555	14008	13762	-2415	-1943	2450	C
ATOM	2320	CG	LEU	E	35	71.666	7.943	28.044	1.00124.79			C
ANISOU	2320	CG	LEU	E	35	18306	14587	14521	-2689	-1968	2430	C

ATOM	2321	CD1	LEU	E	35	71.115	6.524	27.906	1.00123.47	C
ANISOU	2321	CD1	LEU	E	35	18466	14185	14261	-2698 -2067 2422	C
ATOM	2322	CD2	LEU	E	35	71.144	8.614	29.305	1.00123.71	C
ANISOU	2322	CD2	LEU	E	35	18013	14520	14472	-2916 -1927 2453	C
ATOM	2323	C	LEU	E	35	73.340	8.264	25.466	1.00120.83	C
ANISOU	2323	C	LEU	E	35	17742	14213	13955	-2208 -1931 2387	C
ATOM	2324	O	LEU	E	35	72.313	7.952	24.850	1.00116.02	O
ANISOU	2324	O	LEU	E	35	17248	13478	13355	-2320 -1972 2356	O
ATOM	2325	N	LEU	E	36	74.093	9.307	25.123	1.00116.26	N
ANISOU	2325	N	LEU	E	36	16923	13822	13429	-2104 -1849 2385	N
ATOM	2326	CA	LEU	E	36	73.742	10.156	23.988	1.00111.80	C
ANISOU	2326	CA	LEU	E	36	16216	13325	12937	-2116 -1799 2350	C
ATOM	2327	CB	LEU	E	36	74.584	11.433	23.942	1.00105.31	C
ANISOU	2327	CB	LEU	E	36	15093	12729	12190	-2032 -1693 2356	C
ATOM	2328	CG	LEU	E	36	74.096	12.423	22.873	1.00 93.54	C
ANISOU	2328	CG	LEU	E	36	13435	11315	10789	-2077 -1633 2323	C
ATOM	2329	CD1	LEU	E	36	72.645	12.774	23.156	1.00 87.30	C
ANISOU	2329	CD1	LEU	E	36	12610	10475	10085	-2369 -1636 2311	C
ATOM	2330	CD2	LEU	E	36	74.941	13.685	22.841	1.00 85.62	C
ANISOU	2330	CD2	LEU	E	36	12134	10534	9864	-1993 -1521 2329	C
ATOM	2331	C	LEU	E	36	73.891	9.365	22.695	1.00104.07	C
ANISOU	2331	C	LEU	E	36	15437	12232	11872	-1941 -1855 2323	C
ATOM	2332	O	LEU	E	36	72.983	9.352	21.865	1.00103.12	O
ANISOU	2332	O	LEU	E	36	15370	12034	11775	-2028 -1876 2289	O
ATOM	2333	N	VAL	E	37	75.053	8.739	22.519	1.00102.79	N
ANISOU	2333	N	VAL	E	37	15377	12066	11613	-1694 -1876 2336	N
ATOM	2334	CA	VAL	E	37	75.326	7.913	21.342	1.00103.94	C
ANISOU	2334	CA	VAL	E	37	15722	12102	11666	-1507 -1931 2314	C
ATOM	2335	CB	VAL	E	37	76.711	7.240	21.459	1.00102.37	C
ANISOU	2335	CB	VAL	E	37	15620	11912	11362	-1243 -1949 2339	C
ATOM	2336	CG1	VAL	E	37	76.956	6.256	20.324	1.00 98.01	C
ANISOU	2336	CG1	VAL	E	37	15303	11228	10708	-1058 -2013 2317	C
ATOM	2337	CG2	VAL	E	37	77.800	8.299	21.491	1.00106.95	C
ANISOU	2337	CG2	VAL	E	37	15936	12707	11992	-1111 -1855 2350	C
ATOM	2338	C	VAL	E	37	74.234	6.842	21.152	1.00109.70	C
ANISOU	2338	C	VAL	E	37	16721	12612	12348	-1626 -2025 2293	C
ATOM	2339	O	VAL	E	37	73.909	6.455	20.023	1.00110.33	O
ANISOU	2339	O	VAL	E	37	16923	12602	12395	-1569 -2061 2259	O
ATOM	2340	N	ILE	E	38	73.628	6.412	22.258	1.00113.41	N
ANISOU	2340	N	ILE	E	38	17273	12999	12820	-1801 -2060 2313	N
ATOM	2341	CA	ILE	E	38	72.552	5.424	22.222	1.00114.60	C
ANISOU	2341	CA	ILE	E	38	17668	12941	12934	-1935 -2143 2294	C
ATOM	2342	CB	ILE	E	38	72.302	4.813	23.621	1.00121.74	C
ANISOU	2342	CB	ILE	E	38	18676	13764	13815	-2061 -2178 2328	C
ATOM	2343	CG1	ILE	E	38	73.519	4.015	24.086	1.00124.96	C
ANISOU	2343	CG1	ILE	E	38	19207	14158	14113	-1844 -2204 2365	C
ATOM	2344	CD1	ILE	E	38	73.446	3.602	25.551	1.00121.58	C
ANISOU	2344	CD1	ILE	E	38	18836	13691	13668	-1950 -2222 2406	C
ATOM	2345	CG2	ILE	E	38	71.078	3.913	23.600	1.00117.77	C
ANISOU	2345	CG2	ILE	E	38	18404	13051	13294	-2227 -2254 2305	C
ATOM	2346	C	ILE	E	38	71.243	6.035	21.718	1.00111.22	C
ANISOU	2346	C	ILE	E	38	17160	12496	12601	-2151 -2131 2255	C
ATOM	2347	O	ILE	E	38	70.576	5.471	20.843	1.00108.87	O
ANISOU	2347	O	ILE	E	38	17024	12067	12276	-2166 -2185 2217	O
ATOM	2348	N	VAL	E	39	70.886	7.187	22.280	1.00107.46	N
ANISOU	2348	N	VAL	E	39	16436	12156	12238	-2317 -2060 2264	N
ATOM	2349	CA	VAL	E	39	69.677	7.900	21.891	1.00104.11	C
ANISOU	2349	CA	VAL	E	39	15904	11738	11914	-2529 -2039 2232	C
ATOM	2350	CB	VAL	E	39	69.493	9.177	22.743	1.00 95.77	C
ANISOU	2350	CB	VAL	E	39	14561	10849	10979	-2697 -1952 2253	C
ATOM	2351	CG1	VAL	E	39	68.272	9.961	22.299	1.00 85.50	C
ANISOU	2351	CG1	VAL	E	39	13140	9562	9785	-2909 -1926 2220	C
ATOM	2352	CG2	VAL	E	39	69.341	8.802	24.194	1.00106.24	C

ANISOU	2352	CG2	VAL	E	39	15936	12131	12300	-2827	-1972	2289	C
ATOM	2353	C	VAL	E	39	69.720	8.239	20.397	1.00106.25			C
ANISOU	2353	C	VAL	E	39	16140	12041	12189	-2411	-2024	2193	C
ATOM	2354	O	VAL	E	39	68.692	8.222	19.715	1.00104.47			O
ANISOU	2354	O	VAL	E	39	15963	11736	11993	-2528	-2050	2154	O
ATOM	2355	N	LEU	E	40	70.909	8.551	19.890	1.00101.29			N
ANISOU	2355	N	LEU	E	40	15425	11530	11532	-2177	-1981	2202	N
ATOM	2356	CA	LEU	E	40	71.036	8.870	18.482	1.00	95.55		C
ANISOU	2356	CA	LEU	E	40	14664	10837	10803	-2048	-1964	2169	C
ATOM	2357	CB	LEU	E	40	72.452	9.327	18.147	1.00	88.67		C
ANISOU	2357	CB	LEU	E	40	13665	10115	9911	-1797	-1902	2187	C
ATOM	2358	CG	LEU	E	40	72.983	10.569	18.844	1.00	87.36		C
ANISOU	2358	CG	LEU	E	40	13200	10156	9837	-1827	-1800	2214	C
ATOM	2359	CD1	LEU	E	40	74.383	10.857	18.330	1.00	91.11		C
ANISOU	2359	CD1	LEU	E	40	13586	10753	10279	-1555	-1749	2224	C
ATOM	2360	CD2	LEU	E	40	72.063	11.751	18.631	1.00	75.80		C
ANISOU	2360	CD2	LEU	E	40	11519	8783	8500	-2022	-1735	2196	C
ATOM	2361	C	LEU	E	40	70.658	7.670	17.619	1.00105.52			C
ANISOU	2361	C	LEU	E	40	16214	11907	11971	-1980	-2058	2135	C
ATOM	2362	O	LEU	E	40	69.766	7.772	16.780	1.00111.73			O
ANISOU	2362	O	LEU	E	40	17025	12640	12785	-2063	-2076	2094	O
ATOM	2363	N	LEU	E	41	71.298	6.526	17.854	1.00113.35			N
ANISOU	2363	N	LEU	E	41	17424	12793	12853	-1837	-2120	2151	N
ATOM	2364	CA	LEU	E	41	71.002	5.326	17.074	1.00112.94			C
ANISOU	2364	CA	LEU	E	41	17653	12553	12706	-1765	-2210	2120	C
ATOM	2365	CB	LEU	E	41	71.935	4.175	17.448	1.00106.93			C
ANISOU	2365	CB	LEU	E	41	17100	11704	11826	-1583	-2262	2148	C
ATOM	2366	CG	LEU	E	41	73.436	4.395	17.288	1.00103.52			C
ANISOU	2366	CG	LEU	E	41	16583	11399	11350	-1321	-2218	2176	C
ATOM	2367	CD1	LEU	E	41	74.183	3.133	17.675	1.00102.43			C
ANISOU	2367	CD1	LEU	E	41	16681	11147	11090	-1165	-2281	2201	C
ATOM	2368	CD2	LEU	E	41	73.746	4.795	15.856	1.00101.14			C
ANISOU	2368	CD2	LEU	E	41	16228	11154	11046	-1164	-2192	2143	C
ATOM	2369	C	LEU	E	41	69.554	4.894	17.255	1.00115.36			C
ANISOU	2369	C	LEU	E	41	18084	12708	13041	-2009	-2266	2091	C
ATOM	2370	O	LEU	E	41	68.887	4.531	16.287	1.00116.92			O
ANISOU	2370	O	LEU	E	41	18399	12805	13221	-2023	-2311	2045	O
ATOM	2371	N	ALA	E	42	69.070	4.932	18.491	1.00110.09			N
ANISOU	2371	N	ALA	E	42	17390	12024	12416	-2201	-2265	2116	N
ATOM	2372	CA	ALA	E	42	67.687	4.561	18.758	1.00108.06			C
ANISOU	2372	CA	ALA	E	42	17241	11625	12193	-2445	-2313	2089	C
ATOM	2373	CB	ALA	E	42	67.412	4.539	20.246	1.00112.70			C
ANISOU	2373	CB	ALA	E	42	17805	12200	12814	-2619	-2307	2127	C
ATOM	2374	C	ALA	E	42	66.740	5.527	18.068	1.00108.59			C
ANISOU	2374	C	ALA	E	42	17144	11753	12361	-2594	-2278	2051	C
ATOM	2375	O	ALA	E	42	65.859	5.114	17.309	1.00111.13			O
ANISOU	2375	O	ALA	E	42	17593	11957	12677	-2660	-2329	2003	O
ATOM	2376	N	GLY	E	43	66.974	6.819	18.291	1.00107.38			N
ANISOU	2376	N	GLY	E	43	16709	11791	12300	-2633	-2189	2070	N
ATOM	2377	CA	GLY	E	43	66.142	7.868	17.727	1.00109.30			C
ANISOU	2377	CA	GLY	E	43	16767	12115	12647	-2773	-2142	2040	C
ATOM	2378	C	GLY	E	43	66.158	7.864	16.213	1.00109.06			C
ANISOU	2378	C	GLY	E	43	16775	12076	12586	-2634	-2154	1997	C
ATOM	2379	O	GLY	E	43	65.119	8.048	15.580	1.00106.19			O
ANISOU	2379	O	GLY	E	43	16414	11667	12266	-2761	-2171	1955	O
ATOM	2380	N	SER	E	44	67.345	7.676	15.641	1.00109.57			N
ANISOU	2380	N	SER	E	44	16865	12189	12579	-2370	-2145	2008	N
ATOM	2381	CA	SER	E	44	67.515	7.582	14.199	1.00106.78			C
ANISOU	2381	CA	SER	E	44	16565	11825	12183	-2205	-2158	1971	C
ATOM	2382	CB	SER	E	44	68.979	7.310	13.835	1.00108.29			C
ANISOU	2382	CB	SER	E	44	16786	12069	12289	-1911	-2144	1993	C
ATOM	2383	OG	SER	E	44	69.802	8.412	14.172	1.00	96.83		O
ANISOU	2383	OG	SER	E	44	15075	10818	10899	-1850	-2046	2028	O

ATOM	2384	C	SER	E	44	66.615	6.488	13.633	1.00113.20	C
ANISOU	2384	C	SER	E	44	17641	12433	12936	-2259 -2257 1923	C
ATOM	2385	O	SER	E	44	65.889	6.720	12.667	1.00115.30	O
ANISOU	2385	O	SER	E	44	17900	12681	13227	-2303 -2267 1878	O
ATOM	2386	N	TYR	E	45	66.662	5.304	14.247	1.00114.61	N
ANISOU	2386	N	TYR	E	45	18049	12460	13038	-2256 -2328 1933	N
ATOM	2387	CA	TYR	E	45	65.853	4.165	13.813	1.00118.34	C
ANISOU	2387	CA	TYR	E	45	18787	12727	13452	-2306 -2422 1889	C
ATOM	2388	CB	TYR	E	45	66.161	2.926	14.654	1.00130.06	C
ANISOU	2388	CB	TYR	E	45	20501	14067	14850	-2275 -2483 1913	C
ATOM	2389	CG	TYR	E	45	65.321	1.706	14.303	1.00141.09	C
ANISOU	2389	CG	TYR	E	45	22178	15242	16189	-2336 -2578 1867	C
ATOM	2390	CD1	TYR	E	45	64.052	1.517	14.853	1.00146.23	C
ANISOU	2390	CD1	TYR	E	45	22882	15785	16893	-2594 -2610 1845	C
ATOM	2391	CE1	TYR	E	45	63.287	0.407	14.532	1.00152.01	C
ANISOU	2391	CE1	TYR	E	45	23866	16315	17576	-2650 -2693 1800	C
ATOM	2392	CZ	TYR	E	45	63.790	-0.538	13.662	1.00158.03	C
ANISOU	2392	CZ	TYR	E	45	24832	16980	18233	-2446 -2746 1777	C
ATOM	2393	OH	TYR	E	45	63.030	-1.644	13.347	1.00166.46	O
ANISOU	2393	OH	TYR	E	45	26148	17845	19252	-2503 -2826 1728	O
ATOM	2394	CE2	TYR	E	45	65.047	-0.378	13.108	1.00153.45	C
ANISOU	2394	CE2	TYR	E	45	24206	16502	17595	-2188 -2718 1800	C
ATOM	2395	CD2	TYR	E	45	65.804	0.737	13.429	1.00146.63	C
ANISOU	2395	CD2	TYR	E	45	23090	15841	16783	-2134 -2634 1845	C
ATOM	2396	C	TYR	E	45	64.372	4.487	13.903	1.00113.45	C
ANISOU	2396	C	TYR	E	45	18131	12056	12920	-2581 -2435 1852	C
ATOM	2397	O	TYR	E	45	63.606	4.172	12.997	1.00124.21	O
ANISOU	2397	O	TYR	E	45	19596	13326	14272	-2616 -2482 1798	O
ATOM	2398	N	LEU	E	46	63.969	5.077	15.020	1.00105.20	N
ANISOU	2398	N	LEU	E	46	16945	11067	11958	-2777 -2395 1881	N
ATOM	2399	CA	LEU	E	46	62.573	5.431	15.227	1.00107.31	C
ANISOU	2399	CA	LEU	E	46	17165	11292	12316	-3050 -2402 1851	C
ATOM	2400	CB	LEU	E	46	62.351	5.886	16.674	1.00111.55	C
ANISOU	2400	CB	LEU	E	46	17579	11878	12926	-3240 -2362 1895	C
ATOM	2401	CG	LEU	E	46	62.362	4.816	17.764	1.00110.51	C
ANISOU	2401	CG	LEU	E	46	17646	11604	12739	-3288 -2415 1920	C
ATOM	2402	CD1	LEU	E	46	63.226	5.206	18.940	1.00108.74	C
ANISOU	2402	CD1	LEU	E	46	17296	11495	12526	-3261 -2361 1985	C
ATOM	2403	CD2	LEU	E	46	60.927	4.605	18.214	1.00100.88	C
ANISOU	2403	CD2	LEU	E	46	16492	10259	11579	-3566 -2451 1891	C
ATOM	2404	C	LEU	E	46	62.067	6.512	14.271	1.00112.14	C
ANISOU	2404	C	LEU	E	46	17586	12017	13007	-3094 -2355 1818	C
ATOM	2405	O	LEU	E	46	60.874	6.561	13.970	1.00119.42	O
ANISOU	2405	O	LEU	E	46	18529	12870	13977	-3272 -2383 1774	O
ATOM	2406	N	ALA	E	47	62.968	7.366	13.791	1.00114.23	N
ANISOU	2406	N	ALA	E	47	17666	12452	13283	-2932 -2284 1838	N
ATOM	2407	CA	ALA	E	47	62.586	8.438	12.872	1.00107.91	C
ANISOU	2407	CA	ALA	E	47	16675	11769	12555	-2955 -2230 1812	C
ATOM	2408	CB	ALA	E	47	63.698	9.462	12.754	1.00102.55	C
ANISOU	2408	CB	ALA	E	47	15765	11295	11906	-2797 -2133 1850	C
ATOM	2409	C	ALA	E	47	62.235	7.879	11.503	1.00103.10	C
ANISOU	2409	C	ALA	E	47	16224	11064	11887	-2860 -2291 1754	C
ATOM	2410	O	ALA	E	47	61.211	8.237	10.925	1.00104.18	O
ANISOU	2410	O	ALA	E	47	16321	11185	12075	-2991 -2299 1711	O
ATOM	2411	N	VAL	E	48	63.092	6.999	10.998	1.00105.17	N
ANISOU	2411	N	VAL	E	48	16663	11260	12038	-2631 -2334 1753	N
ATOM	2412	CA	VAL	E	48	62.869	6.344	9.717	1.00106.43	C
ANISOU	2412	CA	VAL	E	48	16994	11319	12127	-2519 -2396 1699	C
ATOM	2413	CB	VAL	E	48	64.039	5.407	9.357	1.00109.03	C
ANISOU	2413	CB	VAL	E	48	17501	11593	12333	-2250 -2432 1711	C
ATOM	2414	CG1	VAL	E	48	63.684	4.532	8.177	1.00118.20	C
ANISOU	2414	CG1	VAL	E	48	18878	12616	13416	-2162 -2510 1652	C
ATOM	2415	CG2	VAL	E	48	65.292	6.211	9.077	1.00105.85	C

ANISOU	2415	CG2	VAL	E	48	16916	11370	11931	-2043	-2348	1749	C
ATOM	2416	C	VAL	E	48	61.555	5.569	9.758	1.00106.17			C
ANISOU	2416	C	VAL	E	48	17142	11104	12094	-2714	-2480	1648	C
ATOM	2417	O	VAL	E	48	60.778	5.602	8.812	1.00114.17			O
ANISOU	2417	O	VAL	E	48	18185	12077	13116	-2755	-2510	1593	O
ATOM	2418	N	LEU	E	49	61.322	4.864	10.859	1.00105.97			N
ANISOU	2418	N	LEU	E	49	17238	10968	12057	-2832	-2518	1667	N
ATOM	2419	CA	LEU	E	49	60.093	4.109	11.053	1.00107.80			C
ANISOU	2419	CA	LEU	E	49	17642	11022	12295	-3029	-2593	1622	C
ATOM	2420	CB	LEU	E	49	60.175	3.286	12.344	1.00121.02			C
ANISOU	2420	CB	LEU	E	49	19454	12586	13942	-3104	-2623	1657	C
ATOM	2421	CG	LEU	E	49	58.968	2.465	12.827	1.00131.63			C
ANISOU	2421	CG	LEU	E	49	20977	13739	15296	-3322	-2692	1621	C
ATOM	2422	CD1	LEU	E	49	59.439	1.159	13.465	1.00138.96			C
ANISOU	2422	CD1	LEU	E	49	22152	14516	16130	-3246	-2747	1642	C
ATOM	2423	CD2	LEU	E	49	58.088	3.240	13.812	1.00126.57			C
ANISOU	2423	CD2	LEU	E	49	20172	13144	14773	-3595	-2652	1635	C
ATOM	2424	C	LEU	E	49	58.874	5.027	11.092	1.00110.37			C
ANISOU	2424	C	LEU	E	49	17800	11396	12738	-3276	-2565	1596	C
ATOM	2425	O	LEU	E	49	57.857	4.754	10.456	1.00118.54			O
ANISOU	2425	O	LEU	E	49	18922	12335	13783	-3376	-2616	1535	O
ATOM	2426	N	ALA	E	50	58.983	6.115	11.847	1.00105.13			N
ANISOU	2426	N	ALA	E	50	16896	10885	12166	-3373	-2484	1640	N
ATOM	2427	CA	ALA	E	50	57.878	7.058	12.016	1.00109.55			C
ANISOU	2427	CA	ALA	E	50	17278	11502	12844	-3614	-2448	1624	C
ATOM	2428	CB	ALA	E	50	58.166	7.987	13.199	1.00104.40			C
ANISOU	2428	CB	ALA	E	50	16403	10989	12274	-3718	-2365	1685	C
ATOM	2429	C	ALA	E	50	57.559	7.891	10.767	1.00113.31			C
ANISOU	2429	C	ALA	E	50	17619	12076	13358	-3579	-2419	1586	C
ATOM	2430	O	ALA	E	50	56.398	8.229	10.523	1.00107.08			O
ANISOU	2430	O	ALA	E	50	16787	11264	12636	-3763	-2430	1545	O
ATOM	2431	N	GLU	E	51	58.588	8.219	9.985	1.00114.63			N
ANISOU	2431	N	GLU	E	51	17720	12352	13481	-3340	-2380	1600	N
ATOM	2432	CA	GLU	E	51	58.432	9.068	8.797	1.00103.11			C
ANISOU	2432	CA	GLU	E	51	16122	11002	12055	-3279	-2341	1571	C
ATOM	2433	CB	GLU	E	51	59.678	9.934	8.583	1.00 99.72			C
ANISOU	2433	CB	GLU	E	51	15500	10760	11630	-3081	-2249	1618	C
ATOM	2434	CG	GLU	E	51	59.994	10.888	9.714	1.00100.81			C
ANISOU	2434	CG	GLU	E	51	15407	11039	11856	-3179	-2160	1676	C
ATOM	2435	CD	GLU	E	51	59.209	12.183	9.590	1.00 95.23			C
ANISOU	2435	CD	GLU	E	51	14455	10456	11270	-3348	-2089	1670	C
ATOM	2436	OE1	GLU	E	51	59.491	12.952	8.640	1.00 89.63			O
ANISOU	2436	OE1	GLU	E	51	13610	9866	10578	-3232	-2034	1662	O
ATOM	2437	OE2	GLU	E	51	58.325	12.435	10.440	1.00 98.82			O
ANISOU	2437	OE2	GLU	E	51	14852	10891	11804	-3593	-2086	1673	O
ATOM	2438	C	GLU	E	51	58.144	8.329	7.503	1.00107.12			C
ANISOU	2438	C	GLU	E	51	16816	11400	12484	-3169	-2416	1508	C
ATOM	2439	O	GLU	E	51	57.286	8.763	6.746	1.00112.24			O
ANISOU	2439	O	GLU	E	51	17410	12062	13175	-3251	-2420	1463	O
ATOM	2440	N	ARG	E	52	58.838	7.238	7.246	1.00107.58			N
ANISOU	2440	N	ARG	E	52	17091	11355	12431	-2987	-2473	1504	N
ATOM	2441	CA	ARG	E	52	58.721	6.553	5.976	1.00112.92			C
ANISOU	2441	CA	ARG	E	52	17940	11939	13027	-2853	-2539	1447	C
ATOM	2442	CB	ARG	E	52	59.466	5.234	6.069	1.00108.36			C
ANISOU	2442	CB	ARG	E	52	17614	11227	12331	-2690	-2604	1453	C
ATOM	2443	CG	ARG	E	52	60.346	4.877	4.890	1.00110.07			C
ANISOU	2443	CG	ARG	E	52	17920	11451	12452	-2411	-2618	1439	C
ATOM	2444	CD	ARG	E	52	60.956	3.508	5.131	1.00121.65			C
ANISOU	2444	CD	ARG	E	52	19646	12767	13807	-2285	-2686	1445	C
ATOM	2445	NE	ARG	E	52	62.230	3.299	4.457	1.00132.15			N
ANISOU	2445	NE	ARG	E	52	21016	14142	15052	-1997	-2672	1465	N
ATOM	2446	CZ	ARG	E	52	63.069	2.316	4.763	1.00141.88			C
ANISOU	2446	CZ	ARG	E	52	22426	15289	16193	-1851	-2708	1489	C

ATOM	2447	NH1	ARG	E	52	62.767	1.466	5.728	1.00142.94	N
ANISOU	2447	NH1	ARG	E	52	22712	15289	16309	-1965 -2756 1497	N
ATOM	2448	NH2	ARG	E	52	64.208	2.180	4.109	1.00148.53	N
ANISOU	2448	NH2	ARG	E	52	23295	16178	16962	-1591 -2693 1505	N
ATOM	2449	C	ARG	E	52	57.281	6.287	5.633	1.00121.24	C
ANISOU	2449	C	ARG	E	52	19077	12879	14112	-3049 -2602 1379	C
ATOM	2450	O	ARG	E	52	56.504	5.877	6.468	1.00129.15	O
ANISOU	2450	O	ARG	E	52	20152	13776	15145	-3250 -2638 1371	O
ATOM	2451	N	GLY	E	53	56.928	6.548	4.383	1.00113.74	N
ANISOU	2451	N	GLY	E	53	18110	11953	13153	-2989 -2612 1330	N
ATOM	2452	CA	GLY	E	53	55.567	6.365	3.926	1.00113.49	C
ANISOU	2452	CA	GLY	E	53	18145	11827	13152	-3162 -2671 1259	C
ATOM	2453	C	GLY	E	53	54.675	7.561	4.203	1.00113.32	C
ANISOU	2453	C	GLY	E	53	17888	11913	13256	-3379 -2613 1260	C
ATOM	2454	O	GLY	E	53	53.490	7.535	3.875	1.00122.13	O
ANISOU	2454	O	GLY	E	53	19031	12964	14408	-3541 -2655 1203	O
ATOM	2455	N	ALA	E	54	55.212	8.611	4.813	1.00104.92	N
ANISOU	2455	N	ALA	E	54	16592	11012	12259	-3390 -2517 1323	N
ATOM	2456	CA	ALA	E	54	54.397	9.795	5.013	1.00103.49	C
ANISOU	2456	CA	ALA	E	54	16180	10942	12199	-3587 -2456 1325	C
ATOM	2457	CB	ALA	E	54	54.861	10.591	6.217	1.00107.38	C
ANISOU	2457	CB	ALA	E	54	16476	11556	12768	-3665 -2370 1398	C
ATOM	2458	C	ALA	E	54	54.523	10.597	3.738	1.00104.63	C
ANISOU	2458	C	ALA	E	54	16195	11211	12347	-3456 -2413 1306	C
ATOM	2459	O	ALA	E	54	55.479	10.407	2.983	1.00106.07	O
ANISOU	2459	O	ALA	E	54	16424	11426	12452	-3210 -2407 1313	O
ATOM	2460	N	PRO	E	55	53.586	11.522	3.504	1.00107.34	N
ANISOU	2460	N	PRO	E	55	16372	11628	12783	-3616 -2379 1286	N
ATOM	2461	CA	PRO	E	55	53.656	12.320	2.281	1.00107.75	C
ANISOU	2461	CA	PRO	E	55	16299	11801	12841	-3496 -2335 1268	C
ATOM	2462	CB	PRO	E	55	52.206	12.756	2.065	1.00 99.15	C
ANISOU	2462	CB	PRO	E	55	15146	10697	11831	-3724 -2353 1219	C
ATOM	2463	CG	PRO	E	55	51.608	12.727	3.397	1.00101.02	C
ANISOU	2463	CG	PRO	E	55	15359	10883	12140	-3970 -2355 1238	C
ATOM	2464	CD	PRO	E	55	52.298	11.683	4.196	1.00108.13	C
ANISOU	2464	CD	PRO	E	55	16439	11675	12972	-3910 -2398 1264	C
ATOM	2465	C	PRO	E	55	54.565	13.526	2.449	1.00107.31	C
ANISOU	2465	C	PRO	E	55	15987	11948	12839	-3404 -2212 1334	C
ATOM	2466	O	PRO	E	55	54.418	14.270	3.416	1.00 98.85	O
ANISOU	2466	O	PRO	E	55	14742	10957	11861	-3559 -2148 1375	O
ATOM	2467	N	GLY	E	56	55.526	13.699	1.548	1.00109.03	N
ANISOU	2467	N	GLY	E	56	16184	12245	12999	-3151 -2178 1344	N
ATOM	2468	CA	GLY	E	56	56.410	14.847	1.632	1.00107.34	C
ANISOU	2468	CA	GLY	E	56	15726	12221	12835	-3052 -2057 1402	C
ATOM	2469	C	GLY	E	56	57.220	14.763	2.903	1.00 99.38	C
ANISOU	2469	C	GLY	E	56	14684	11235	11839	-3058 -2023 1463	C
ATOM	2470	O	GLY	E	56	57.322	15.718	3.662	1.00 97.08	O
ANISOU	2470	O	GLY	E	56	14177	11068	11640	-3157 -1936 1507	O
ATOM	2471	N	ALA	E	57	57.787	13.591	3.131	1.00 99.16	N
ANISOU	2471	N	ALA	E	57	14876	11085	11716	-2951 -2094 1463	N
ATOM	2472	CA	ALA	E	57	58.618	13.350	4.289	1.00 84.62	C
ANISOU	2472	CA	ALA	E	57	13035	9249	9866	-2931 -2074 1518	C
ATOM	2473	CB	ALA	E	57	58.127	12.175	5.087	1.00 86.84	C
ANISOU	2473	CB	ALA	E	57	13537	9348	10108	-3057 -2170 1504	C
ATOM	2474	C	ALA	E	57	59.988	13.100	3.713	1.00 96.02	C
ANISOU	2474	C	ALA	E	57	14525	10735	11224	-2634 -2055 1539	C
ATOM	2475	O	ALA	E	57	60.097	12.608	2.592	1.00 96.15	O
ANISOU	2475	O	ALA	E	57	14672	10698	11162	-2479 -2100 1501	O
ATOM	2476	N	GLN	E	58	61.037	13.403	4.464	1.00104.69	N
ANISOU	2476	N	GLN	E	58	15520	11925	12331	-2552 -1991 1597	N
ATOM	2477	CA	GLN	E	58	62.368	13.278	3.895	1.00103.70	C
ANISOU	2477	CA	GLN	E	58	15414	11854	12132	-2267 -1964 1618	C
ATOM	2478	CB	GLN	E	58	62.958	14.664	3.690	1.00 95.05	C

ANISOU	2478	CB	GLN	E	58	14035	10966	11113	-2197	-1836	1651	C
ATOM	2479	CG	GLN	E	58	62.254	15.471	2.620	1.00110.46			C
ANISOU	2479	CG	GLN	E	58	15872	12985	13112	-2224	-1801	1618	C
ATOM	2480	CD	GLN	E	58	62.677	15.045	1.239	1.00109.15			C
ANISOU	2480	CD	GLN	E	58	15830	12788	12854	-1989	-1832	1586	C
ATOM	2481	OE1	GLN	E	58	63.758	14.493	1.075	1.00113.16			O
ANISOU	2481	OE1	GLN	E	58	16435	13279	13280	-1776	-1841	1602	O
ATOM	2482	NE2	GLN	E	58	61.842	15.311	0.236	1.00105.80			N
ANISOU	2482	NE2	GLN	E	58	15401	12359	12440	-2023	-1846	1541	N
ATOM	2483	C	GLN	E	58	63.291	12.449	4.762	1.00	97.47		C
ANISOU	2483	C	GLN	E	58	14750	11008	11279	-2177	-1992	1654	C
ATOM	2484	O	GLN	E	58	64.377	12.044	4.331	1.00105.33			O
ANISOU	2484	O	GLN	E	58	15820	12008	12193	-1938	-1993	1666	O
ATOM	2485	N	LEU	E	59	62.820	12.162	5.968	1.00	93.00		N
ANISOU	2485	N	LEU	E	59	14213	10379	10745	-2371	-2019	1669	N
ATOM	2486	CA	LEU	E	59	63.557	11.364	6.923	1.00	94.74		C
ANISOU	2486	CA	LEU	E	59	14552	10536	10907	-2318	-2049	1705	C
ATOM	2487	CB	LEU	E	59	63.174	11.801	8.330	1.00	91.54		C
ANISOU	2487	CB	LEU	E	59	14025	10168	10589	-2542	-2016	1739	C
ATOM	2488	CG	LEU	E	59	64.310	12.044	9.312	1.00	78.44		C
ANISOU	2488	CG	LEU	E	59	12264	8607	8934	-2460	-1958	1799	C
ATOM	2489	CD1	LEU	E	59	65.419	12.837	8.633	1.00	77.64		C
ANISOU	2489	CD1	LEU	E	59	11996	8669	8835	-2238	-1871	1818	C
ATOM	2490	CD2	LEU	E	59	63.736	12.827	10.483	1.00	75.19		C
ANISOU	2490	CD2	LEU	E	59	11668	8266	8633	-2705	-1907	1826	C
ATOM	2491	C	LEU	E	59	63.230	9.900	6.654	1.00	93.24		C
ANISOU	2491	C	LEU	E	59	14675	10138	10614	-2290	-2169	1667	C
ATOM	2492	O	LEU	E	59	62.642	9.216	7.484	1.00	96.77		O
ANISOU	2492	O	LEU	E	59	15249	10463	11058	-2447	-2228	1664	O
ATOM	2493	N	ILE	E	60	63.565	9.450	5.449	1.00	93.51		N
ANISOU	2493	N	ILE	E	60	14830	10133	10569	-2095	-2203	1635	N
ATOM	2494	CA	ILE	E	60	63.197	8.113	4.988	1.00	98.45		C
ANISOU	2494	CA	ILE	E	60	15746	10563	11097	-2061	-2314	1590	C
ATOM	2495	CB	ILE	E	60	62.379	8.210	3.684	1.00105.88			C
ANISOU	2495	CB	ILE	E	60	16719	11476	12036	-2066	-2344	1527	C
ATOM	2496	CG1	ILE	E	60	63.207	8.858	2.574	1.00100.79			C
ANISOU	2496	CG1	ILE	E	60	15963	10961	11372	-1836	-2283	1531	C
ATOM	2497	CD1	ILE	E	60	62.459	9.015	1.265	1.00	96.60		C
ANISOU	2497	CD1	ILE	E	60	15453	10416	10836	-1827	-2308	1471	C
ATOM	2498	CG2	ILE	E	60	61.139	9.057	3.898	1.00	97.75		C
ANISOU	2498	CG2	ILE	E	60	15532	10489	11118	-2324	-2319	1508	C
ATOM	2499	C	ILE	E	60	64.325	7.095	4.758	1.00	98.26		C
ANISOU	2499	C	ILE	E	60	15915	10468	10953	-1813	-2355	1603	C
ATOM	2500	O	ILE	E	60	64.069	6.002	4.264	1.00103.63			O
ANISOU	2500	O	ILE	E	60	16834	10990	11549	-1766	-2443	1563	O
ATOM	2501	N	THR	E	61	65.565	7.428	5.095	1.00	95.04		N
ANISOU	2501	N	THR	E	61	15407	10171	10533	-1652	-2293	1655	N
ATOM	2502	CA	THR	E	61	66.630	6.422	5.043	1.00103.57			C
ANISOU	2502	CA	THR	E	61	16673	11178	11501	-1432	-2333	1672	C
ATOM	2503	CB	THR	E	61	67.503	6.486	3.764	1.00	97.40		C
ANISOU	2503	CB	THR	E	61	15900	10449	10657	-1161	-2314	1661	C
ATOM	2504	OG1	THR	E	61	68.560	7.434	3.936	1.00101.93			O
ANISOU	2504	OG1	THR	E	61	16255	11203	11269	-1037	-2213	1708	O
ATOM	2505	CG2	THR	E	61	66.696	6.848	2.549	1.00100.79			C
ANISOU	2505	CG2	THR	E	61	16308	10881	11105	-1185	-2322	1607	C
ATOM	2506	C	THR	E	61	67.508	6.616	6.269	1.00114.34			C
ANISOU	2506	C	THR	E	61	17944	12619	12881	-1413	-2285	1735	C
ATOM	2507	O	THR	E	61	67.605	7.723	6.805	1.00115.44			O
ANISOU	2507	O	THR	E	61	17840	12910	13113	-1492	-2200	1766	O
ATOM	2508	N	TYR	E	62	68.110	5.528	6.734	1.00119.44			N
ANISOU	2508	N	TYR	E	62	18939	10868	15577	-63	-2775	1176	N
ATOM	2509	CA	TYR	E	62	68.885	5.568	7.966	1.00122.76			C
ANISOU	2509	CA	TYR	E	62	19408	11258	15976	64	-2675	1061	C

ATOM	2510	CB	TYR	E	62	69.237	4.144	8.399	1.00134.96	C
ANISOU	2510	CB	TYR	E	62	21314	12604	17361	135 -2914 930	C
ATOM	2511	CG	TYR	E	62	68.022	3.314	8.789	1.00150.40	C
ANISOU	2511	CG	TYR	E	62	23425	14351	19367	-89 -3057 1109	C
ATOM	2512	CD1	TYR	E	62	67.342	3.563	9.975	1.00155.13	C
ANISOU	2512	CD1	TYR	E	62	23964	14869	20108	-232 -2934 1264	C
ATOM	2513	CE1	TYR	E	62	66.212	2.817	10.336	1.00161.49	C
ANISOU	2513	CE1	TYR	E	62	24908	15487	20965	-441 -3062 1432	C
ATOM	2514	CZ	TYR	E	62	65.753	1.823	9.491	1.00163.90	C
ANISOU	2514	CZ	TYR	E	62	25410	15684	21179	-508 -3315 1446	C
ATOM	2515	OH	TYR	E	62	64.641	1.086	9.838	1.00163.46	O
ANISOU	2515	OH	TYR	E	62	25479	15459	21170	-713 -3435 1606	O
ATOM	2516	CE2	TYR	E	62	66.411	1.567	8.299	1.00164.40	C
ANISOU	2516	CE2	TYR	E	62	25535	15828	21103	-368 -3441 1294	C
ATOM	2517	CD2	TYR	E	62	67.532	2.313	7.952	1.00159.25	C
ANISOU	2517	CD2	TYR	E	62	24744	15363	20401	-161 -3312 1128	C
ATOM	2518	C	TYR	E	62	70.133	6.459	7.909	1.00113.53	C
ANISOU	2518	C	TYR	E	62	18078	10285	14774	288 -2496 885	C
ATOM	2519	O	TYR	E	62	70.320	7.272	8.818	1.00122.11	O
ANISOU	2519	O	TYR	E	62	19000	11433	15963	303 -2276 909	O
ATOM	2520	N	PRO	E	63	70.952	6.365	6.845	1.00100.73	N
ANISOU	2520	N	PRO	E	63	16488	8768	13018	455 -2580 716	N
ATOM	2521	CA	PRO	E	63	72.104	7.275	6.827	1.00102.75	C
ANISOU	2521	CA	PRO	E	63	16575	9214	13253	660 -2395 559	C
ATOM	2522	CB	PRO	E	63	72.780	6.949	5.501	1.00 87.44	C
ANISOU	2522	CB	PRO	E	63	14709	7355	11158	806 -2543 400	C
ATOM	2523	CG	PRO	E	63	72.449	5.524	5.269	1.00 96.37	C
ANISOU	2523	CG	PRO	E	63	16158	8291	12166	762 -2836 380	C
ATOM	2524	CD	PRO	E	63	71.023	5.385	5.742	1.00 97.67	C
ANISOU	2524	CD	PRO	E	63	16309	8323	12477	492 -2843 634	C
ATOM	2525	C	PRO	E	63	71.723	8.759	6.910	1.00 98.28	C
ANISOU	2525	C	PRO	E	63	15645	8818	12879	575 -2108 707	C
ATOM	2526	O	PRO	E	63	72.555	9.586	7.260	1.00 93.61	O
ANISOU	2526	O	PRO	E	63	14899	8363	12305	716 -1917 608	O
ATOM	2527	N	ARG	E	64	70.465	9.073	6.615	1.00 98.94	N
ANISOU	2527	N	ARG	E	64	15598	8890	13105	344 -2081 944	N
ATOM	2528	CA	ARG	E	64	69.966	10.442	6.665	1.00 93.62	C
ANISOU	2528	CA	ARG	E	64	14583	8367	12620	239 -1819 1106	C
ATOM	2529	CB	ARG	E	64	68.800	10.643	5.702	1.00 95.69	C
ANISOU	2529	CB	ARG	E	64	14731	8652	12976	36 -1858 1309	C
ATOM	2530	CG	ARG	E	64	69.132	10.592	4.232	1.00 90.80	C
ANISOU	2530	CG	ARG	E	64	14103	8140	12257	119 -1965 1224	C
ATOM	2531	CD	ARG	E	64	67.836	10.713	3.447	1.00100.55	C
ANISOU	2531	CD	ARG	E	64	15240	9369	13596	-109 -2008 1448	C
ATOM	2532	NE	ARG	E	64	67.989	11.293	2.115	1.00113.63	N
ANISOU	2532	NE	ARG	E	64	16736	11198	15240	-65 -1985 1430	N
ATOM	2533	CZ	ARG	E	64	66.994	11.817	1.404	1.00104.80	C
ANISOU	2533	CZ	ARG	E	64	15439	10140	14240	-241 -1942 1623	C
ATOM	2534	NH1	ARG	E	64	65.768	11.869	1.901	1.00 94.55	N
ANISOU	2534	NH1	ARG	E	64	14091	8748	13085	-474 -1910 1851	N
ATOM	2535	NH2	ARG	E	64	67.238	12.307	0.200	1.00107.56	N
ANISOU	2535	NH2	ARG	E	64	15656	10647	14565	-181 -1927 1587	N
ATOM	2536	C	ARG	E	64	69.487	10.763	8.062	1.00 88.71	C
ANISOU	2536	C	ARG	E	64	13899	7671	12137	129 -1667 1231	C
ATOM	2537	O	ARG	E	64	69.817	11.809	8.616	1.00 86.57	O
ANISOU	2537	O	ARG	E	64	13407	7522	11963	173 -1425 1236	O
ATOM	2538	N	ALA	E	65	68.696	9.856	8.626	1.00 95.35	N
ANISOU	2538	N	ALA	E	65	14934	8310	12986	-17 -1810 1333	N
ATOM	2539	CA	ALA	E	65	68.167	10.039	9.968	1.00 93.54	C
ANISOU	2539	CA	ALA	E	65	14670	7989	12883	-133 -1689 1459	C
ATOM	2540	CB	ALA	E	65	67.154	8.977	10.280	1.00 98.04	C
ANISOU	2540	CB	ALA	E	65	15456	8339	13457	-315 -1880 1589	C
ATOM	2541	C	ALA	E	65	69.278	10.033	11.003	1.00 96.77	C

ANISOU	2541	C	ALA	E	65	15147	8394	13226	59	-1608	1277	C
ATOM	2542	O	ALA	E	65	69.108	10.557	12.097	1.00104.73			O
ANISOU	2542	O	ALA	E	65	16050	9394	14351	10	-1435	1352	O
ATOM	2543	N	LEU	E	66	70.419	9.446	10.658	1.00	96.76		N
ANISOU	2543	N	LEU	E	66	15322	8402	13041	279	-1732	1036	N
ATOM	2544	CA	LEU	E	66	71.551	9.423	11.576	1.00	94.04		C
ANISOU	2544	CA	LEU	E	66	15047	8061	12622	477	-1663	847	C
ATOM	2545	CB	LEU	E	66	72.602	8.402	11.134	1.00	93.98		C
ANISOU	2545	CB	LEU	E	66	15313	8008	12389	686	-1878	598	C
ATOM	2546	CG	LEU	E	66	73.894	8.354	11.956	1.00100.91			C
ANISOU	2546	CG	LEU	E	66	16271	8903	13169	916	-1817	377	C
ATOM	2547	CD1	LEU	E	66	74.277	6.919	12.253	1.00109.10			C
ANISOU	2547	CD1	LEU	E	66	17668	9752	14033	997	-2067	237	C
ATOM	2548	CD2	LEU	E	66	75.046	9.092	11.268	1.00	95.65		C
ANISOU	2548	CD2	LEU	E	66	15459	8446	12435	1129	-1712	198	C
ATOM	2549	C	LEU	E	66	72.158	10.808	11.594	1.00	90.16		C
ANISOU	2549	C	LEU	E	66	14254	7789	12213	576	-1390	811	C
ATOM	2550	O	LEU	E	66	72.518	11.341	12.637	1.00	89.47		O
ANISOU	2550	O	LEU	E	66	14078	7728	12189	624	-1214	791	O
ATOM	2551	N	TRP	E	67	72.228	11.387	10.406	1.00	88.90		N
ANISOU	2551	N	TRP	E	67	13935	7786	12056	597	-1360	811	N
ATOM	2552	CA	TRP	E	67	72.773	12.709	10.197	1.00	85.36		C
ANISOU	2552	CA	TRP	E	67	13194	7559	11682	688	-1116	780	C
ATOM	2553	CB	TRP	E	67	72.941	12.951	8.702	1.00	82.72		C
ANISOU	2553	CB	TRP	E	67	12776	7362	11293	735	-1169	740	C
ATOM	2554	CG	TRP	E	67	73.191	14.345	8.338	1.00	76.97		C
ANISOU	2554	CG	TRP	E	67	11723	6855	10668	772	-924	764	C
ATOM	2555	CD1	TRP	E	67	72.506	15.066	7.424	1.00	75.25		C
ANISOU	2555	CD1	TRP	E	67	11290	6752	10552	652	-854	911	C
ATOM	2556	NE1	TRP	E	67	73.030	16.325	7.324	1.00	81.62		N
ANISOU	2556	NE1	TRP	E	67	11819	7760	11431	738	-614	882	N
ATOM	2557	CE2	TRP	E	67	74.100	16.428	8.162	1.00	84.20		C
ANISOU	2557	CE2	TRP	E	67	12181	8109	11701	921	-526	709	C
ATOM	2558	CD2	TRP	E	67	74.245	15.194	8.819	1.00	83.77		C
ANISOU	2558	CD2	TRP	E	67	12436	7859	11534	951	-718	627	C
ATOM	2559	CE3	TRP	E	67	75.278	15.034	9.746	1.00	80.17		C
ANISOU	2559	CE3	TRP	E	67	12078	7384	11001	1130	-675	447	C
ATOM	2560	CZ3	TRP	E	67	76.125	16.103	9.985	1.00	77.57		C
ANISOU	2560	CZ3	TRP	E	67	11535	7229	10709	1270	-445	355	C
ATOM	2561	CH2	TRP	E	67	75.959	17.322	9.319	1.00	76.36		C
ANISOU	2561	CH2	TRP	E	67	11075	7268	10669	1236	-258	440	C
ATOM	2562	CZ2	TRP	E	67	74.959	17.504	8.407	1.00	82.43		C
ANISOU	2562	CZ2	TRP	E	67	11745	8061	11515	1063	-294	616	C
ATOM	2563	C	TRP	E	67	71.858	13.753	10.833	1.00	77.11		C
ANISOU	2563	C	TRP	E	67	11882	6559	10859	502	-882	1008	C
ATOM	2564	O	TRP	E	67	72.316	14.706	11.466	1.00	72.67		O
ANISOU	2564	O	TRP	E	67	11127	6108	10375	569	-652	986	O
ATOM	2565	N	TRP	E	68	70.560	13.578	10.616	1.00	75.72		N
ANISOU	2565	N	TRP	E	68	11691	6298	10781	268	-943	1228	N
ATOM	2566	CA	TRP	E	68	69.546	14.452	11.180	1.00	73.58		C
ANISOU	2566	CA	TRP	E	68	11188	6049	10720	67	-748	1465	C
ATOM	2567	CB	TRP	E	68	68.143	13.973	10.787	1.00	72.07		C
ANISOU	2567	CB	TRP	E	68	11045	5740	10598	-181	-880	1684	C
ATOM	2568	CG	TRP	E	68	67.101	14.652	11.580	1.00	73.79		C
ANISOU	2568	CG	TRP	E	68	11080	5939	11017	-387	-708	1919	C
ATOM	2569	CD1	TRP	E	68	66.674	15.944	11.458	1.00	71.43		C
ANISOU	2569	CD1	TRP	E	68	10460	5796	10884	-474	-473	2062	C
ATOM	2570	NE1	TRP	E	68	65.718	16.214	12.416	1.00	73.54		N
ANISOU	2570	NE1	TRP	E	68	10647	5985	11309	-663	-367	2263	N
ATOM	2571	CE2	TRP	E	68	65.533	15.103	13.183	1.00	79.02		C
ANISOU	2571	CE2	TRP	E	68	11610	6473	11942	-697	-529	2250	C
ATOM	2572	CD2	TRP	E	68	66.395	14.091	12.693	1.00	79.27		C
ANISOU	2572	CD2	TRP	E	68	11901	6449	11769	-526	-747	2034	C

ATOM	2573	CE3	TRP	E	68	66.402	12.837	13.312	1.00	71.02	C	
ANISOU	2573	CE3	TRP	E	68	11163	5198	10623	-521	-944	1977	C
ATOM	2574	CZ3	TRP	E	68	65.558	12.622	14.385	1.00	74.46	C	
ANISOU	2574	CZ3	TRP	E	68	11639	5490	11163	-687	-921	2134	C
ATOM	2575	CH2	TRP	E	68	64.705	13.641	14.856	1.00	80.79	C	
ANISOU	2575	CH2	TRP	E	68	12178	6351	12168	-857	-704	2349	C
ATOM	2576	CZ2	TRP	E	68	64.678	14.881	14.269	1.00	75.86	C	
ANISOU	2576	CZ2	TRP	E	68	11250	5927	11645	-865	-507	2409	C
ATOM	2577	C	TRP	E	68	69.659	14.540	12.696	1.00	75.77	C	
ANISOU	2577	C	TRP	E	68	11482	6249	11059	69	-627	1473	C
ATOM	2578	O	TRP	E	68	69.563	15.619	13.272	1.00	73.29	O	
ANISOU	2578	O	TRP	E	68	10924	6036	10888	35	-383	1555	O
ATOM	2579	N	SER	E	69	69.852	13.391	13.332	1.00	76.95	N	
ANISOU	2579	N	SER	E	69	11922	6217	11100	107	-802	1388	N
ATOM	2580	CA	SER	E	69	69.950	13.315	14.789	1.00	81.12	C	
ANISOU	2580	CA	SER	E	69	12503	6649	11672	110	-717	1389	C
ATOM	2581	CB	SER	E	69	70.023	11.852	15.233	1.00	83.51	C	
ANISOU	2581	CB	SER	E	69	13161	6733	11837	131	-965	1306	C
ATOM	2582	OG	SER	E	69	71.248	11.264	14.838	1.00	87.92	O	
ANISOU	2582	OG	SER	E	69	13897	7308	12200	367	-1091	1049	O
ATOM	2583	C	SER	E	69	71.160	14.093	15.329	1.00	74.56	C	
ANISOU	2583	C	SER	E	69	11547	5956	10825	319	-519	1220	C
ATOM	2584	O	SER	E	69	71.058	14.822	16.323	1.00	69.66	O	
ANISOU	2584	O	SER	E	69	10773	5364	10330	283	-314	1292	O
ATOM	2585	N	VAL	E	70	72.310	13.916	14.643	1.00	69.95	N	
ANISOU	2585	N	VAL	E	70	11035	5458	10083	539	-588	994	N
ATOM	2586	CA	VAL	E	70	73.436	14.651	15.191	1.00	68.44	C	
ANISOU	2586	CA	VAL	E	70	10727	5396	9882	732	-399	838	C
ATOM	2587	CB	VAL	E	70	74.740	14.283	14.456	1.00	63.98	C	
ANISOU	2587	CB	VAL	E	70	10284	4905	9122	983	-505	573	C
ATOM	2588	CG1	VAL	E	70	75.899	15.139	14.943	1.00	73.65	C	
ANISOU	2588	CG1	VAL	E	70	11362	6280	10342	1181	-297	416	C
ATOM	2589	CG2	VAL	E	70	75.029	12.804	14.603	1.00	73.34	C	
ANISOU	2589	CG2	VAL	E	70	11831	5902	10133	1050	-775	446	C
ATOM	2590	C	VAL	E	70	73.224	16.151	15.088	1.00	69.01	C	
ANISOU	2590	C	VAL	E	70	10437	5660	10124	680	-122	952	C
ATOM	2591	O	VAL	E	70	73.459	16.892	16.039	1.00	75.05	O	
ANISOU	2591	O	VAL	E	70	11057	6476	10981	705	86	963	O
ATOM	2592	N	GLU	E	71	72.725	16.596	13.895	1.00	75.27	N	
ANISOU	2592	N	GLU	E	71	11082	6557	10961	597	-122	1048	N
ATOM	2593	CA	GLU	E	71	72.518	18.030	13.713	1.00	76.58	C	
ANISOU	2593	CA	GLU	E	71	10900	6911	11284	548	138	1158	C
ATOM	2594	CB	GLU	E	71	72.365	18.403	12.230	1.00	74.11	C	
ANISOU	2594	CB	GLU	E	71	10463	6731	10962	534	108	1183	C
ATOM	2595	CG	GLU	E	71	71.179	17.806	11.518	1.00	75.21	C	
ANISOU	2595	CG	GLU	E	71	10682	6770	11125	332	-66	1354	C
ATOM	2596	CD	GLU	E	71	70.861	18.547	10.221	1.00	82.54	C	
ANISOU	2596	CD	GLU	E	71	11397	7860	12104	283	-14	1431	C
ATOM	2597	OE1	GLU	E	71	70.724	19.795	10.245	1.00	83.03	O	
ANISOU	2597	OE1	GLU	E	71	11164	8076	12307	246	225	1522	O
ATOM	2598	OE2	GLU	E	71	70.740	17.876	9.171	1.00	97.65	O	
ANISOU	2598	OE2	GLU	E	71	13440	9746	13917	281	-215	1401	O
ATOM	2599	C	GLU	E	71	71.310	18.496	14.503	1.00	75.51	C	
ANISOU	2599	C	GLU	E	71	10626	6717	11345	314	267	1411	C
ATOM	2600	O	GLU	E	71	71.033	19.692	14.574	1.00	80.58	O	
ANISOU	2600	O	GLU	E	71	10981	7496	12139	252	497	1524	O
ATOM	2601	N	THR	E	72	70.580	17.555	15.086	1.00	73.18	N	
ANISOU	2601	N	THR	E	72	10536	6221	11049	183	119	1502	N
ATOM	2602	CA	THR	E	72	69.439	17.931	15.898	1.00	75.27	C	
ANISOU	2602	CA	THR	E	72	10686	6420	11495	-37	233	1739	C
ATOM	2603	CB	THR	E	72	68.254	16.960	15.711	1.00	74.73	C	
ANISOU	2603	CB	THR	E	72	10793	6168	11433	-243	23	1899	C
ATOM	2604	OG1	THR	E	72	67.802	16.996	14.349	1.00	83.65	O	

ANISOU	2604	OG1	THR	E	72	11869	7363	12552	-311	-66	1961	O
ATOM	2605	CG2	THR	E	72	67.111	17.318	16.657	1.00	71.76		C
ANISOU	2605	CG2	THR	E	72	10308	5715	11241	-465	143	2138	C
ATOM	2606	C	THR	E	72	69.879	17.979	17.366	1.00	73.02		C
ANISOU	2606	C	THR	E	72	10437	6074	11234	27	345	1684	C
ATOM	2607	O	THR	E	72	69.471	18.866	18.117	1.00	71.43		O
ANISOU	2607	O	THR	E	72	10028	5919	11193	-63	560	1815	O
ATOM	2608	N	ALA	E	73	70.699	17.007	17.767	1.00	69.81		N
ANISOU	2608	N	ALA	E	73	10298	5561	10667	182	196	1492	N
ATOM	2609	CA	ALA	E	73	71.223	16.920	19.137	1.00	74.15		C
ANISOU	2609	CA	ALA	E	73	10915	6043	11214	265	277	1413	C
ATOM	2610	CB	ALA	E	73	71.955	15.599	19.334	1.00	69.58		C
ANISOU	2610	CB	ALA	E	73	10679	5321	10439	410	47	1216	C
ATOM	2611	C	ALA	E	73	72.151	18.082	19.497	1.00	74.37		C
ANISOU	2611	C	ALA	E	73	10714	6256	11287	420	532	1311	C
ATOM	2612	O	ALA	E	73	72.227	18.499	20.651	1.00	77.11		O
ANISOU	2612	O	ALA	E	73	10991	6591	11718	420	689	1336	O
ATOM	2613	N	THR	E	74	72.902	18.569	18.558	1.00	70.80		N
ANISOU	2613	N	THR	E	74	7468	11567	7865	-2437	1390	-39	N
ATOM	2614	CA	THR	E	74	73.840	19.668	18.783	1.00	79.11		C
ANISOU	2614	CA	THR	E	74	8529	12588	8942	-2417	1338	69	C
ATOM	2615	CB	THR	E	74	74.967	19.676	17.726	1.00	79.69		C
ANISOU	2615	CB	THR	E	74	8572	12751	8957	-2411	1311	138	C
ATOM	2616	OG1	THR	E	74	74.383	19.700	16.412	1.00	75.20		O
ANISOU	2616	OG1	THR	E	74	7924	12301	8347	-2417	1290	137	O
ATOM	2617	CG2	THR	E	74	75.861	18.445	17.874	1.00	93.73		C
ANISOU	2617	CG2	THR	E	74	10401	14520	10692	-2421	1365	96	C
ATOM	2618	C	THR	E	74	73.104	21.013	18.695	1.00	78.79		C
ANISOU	2618	C	THR	E	74	8441	12549	8948	-2406	1279	124	C
ATOM	2619	O	THR	E	74	73.679	22.057	18.983	1.00	76.15		O
ANISOU	2619	O	THR	E	74	8111	12179	8645	-2388	1232	211	O
ATOM	2620	N	THR	E	75	71.835	20.947	18.297	1.00	77.57		N
ANISOU	2620	N	THR	E	75	8241	12434	8796	-2416	1282	69	N
ATOM	2621	CA	THR	E	75	70.942	22.099	18.097	1.00	78.42		C
ANISOU	2621	CA	THR	E	75	8298	12556	8943	-2408	1230	106	C
ATOM	2622	CB	THR	E	75	70.780	23.002	19.374	1.00	85.12		C
ANISOU	2622	CB	THR	E	75	9188	13286	9870	-2397	1212	134	C
ATOM	2623	OG1	THR	E	75	71.990	23.723	19.653	1.00	89.45		O
ANISOU	2623	OG1	THR	E	75	9758	13798	10429	-2380	1177	230	O
ATOM	2624	CG2	THR	E	75	70.415	22.143	20.591	1.00	90.32		C
ANISOU	2624	CG2	THR	E	75	9919	13843	10557	-2409	1276	42	C
ATOM	2625	C	THR	E	75	71.336	22.978	16.898	1.00	90.72		C
ANISOU	2625	C	THR	E	75	9784	14212	10472	-2396	1165	201	C
ATOM	2626	O	THR	E	75	70.937	24.139	16.818	1.00	103.19		O
ANISOU	2626	O	THR	E	75	11327	15793	12088	-2385	1112	259	O
ATOM	2627	N	VAL	E	76	72.085	22.420	15.949	1.00	88.48		N
ANISOU	2627	N	VAL	E	76	9480	14014	10124	-2399	1169	216	N
ATOM	2628	CA	VAL	E	76	72.484	23.192	14.765	1.00	87.34		C
ANISOU	2628	CA	VAL	E	76	9269	13969	9949	-2388	1110	304	C
ATOM	2629	CB	VAL	E	76	73.611	22.479	13.979	1.00	82.37		C
ANISOU	2629	CB	VAL	E	76	8637	13409	9251	-2390	1122	323	C
ATOM	2630	CG1	VAL	E	76	73.908	23.225	12.665	1.00	72.70		C
ANISOU	2630	CG1	VAL	E	76	7338	12295	7991	-2381	1063	407	C
ATOM	2631	CG2	VAL	E	76	74.873	22.444	14.835	1.00	91.11		C
ANISOU	2631	CG2	VAL	E	76	9814	14434	10370	-2381	1132	362	C
ATOM	2632	C	VAL	E	76	71.264	23.416	13.861	1.00	91.80		C
ANISOU	2632	C	VAL	E	76	9759	14617	10504	-2394	1090	280	C
ATOM	2633	O	VAL	E	76	70.954	24.552	13.495	1.00	97.04		O
ANISOU	2633	O	VAL	E	76	10374	15306	11190	-2383	1033	345	O
ATOM	2634	N	GLY	E	77	70.567	22.331	13.520	1.00	95.23		N
ANISOU	2634	N	GLY	E	77	10184	15093	10907	-2412	1138	184	N
ATOM	2635	CA	GLY	E	77	69.362	22.424	12.706	1.00	92.84		C
ANISOU	2635	CA	GLY	E	77	9814	14867	10594	-2419	1126	150	C

ATOM	2636	C	GLY	E	77	69.408	23.172	11.382	1.00	93.48	C	
ANISOU	2636	C	GLY	E	77	9814	15060	10643	-2411	1067	223	C
ATOM	2637	O	GLY	E	77	68.670	24.151	11.181	1.00	100.67	O	
ANISOU	2637	O	GLY	E	77	10681	15984	11585	-2404	1022	255	O
ATOM	2638	N	TYR	E	78	70.243	22.692	10.460	1.00	91.95	N	
ANISOU	2638	N	TYR	E	78	9601	14949	10386	-2412	1067	246	N
ATOM	2639	CA	TYR	E	78	70.381	23.312	9.146	1.00	82.84	C	
ANISOU	2639	CA	TYR	E	78	8372	13907	9196	-2404	1014	316	C
ATOM	2640	CB	TYR	E	78	71.318	22.488	8.256	1.00	70.15	C	
ANISOU	2640	CB	TYR	E	78	6755	12382	7517	-2410	1031	321	C
ATOM	2641	CG	TYR	E	78	72.757	22.459	8.715	1.00	76.84	C	
ANISOU	2641	CG	TYR	E	78	7655	13182	8358	-2402	1032	376	C
ATOM	2642	CD1	TYR	E	78	73.496	23.638	8.834	1.00	84.72	C	
ANISOU	2642	CD1	TYR	E	78	8652	14157	9382	-2382	976	483	C
ATOM	2643	CE1	TYR	E	78	74.852	23.607	9.191	1.00	91.45	C	
ANISOU	2643	CE1	TYR	E	78	9551	14971	10226	-2374	977	535	C
ATOM	2644	CZ	TYR	E	78	75.461	22.383	9.433	1.00	90.59	C	
ANISOU	2644	CZ	TYR	E	78	9490	14847	10083	-2386	1033	479	C
ATOM	2645	OH	TYR	E	78	76.795	22.314	9.745	1.00	88.21	O	
ANISOU	2645	OH	TYR	E	78	9234	14511	9771	-2379	1035	528	O
ATOM	2646	CE2	TYR	E	78	74.740	21.201	9.329	1.00	87.02	C	
ANISOU	2646	CE2	TYR	E	78	9040	14417	9605	-2406	1090	373	C
ATOM	2647	CD2	TYR	E	78	73.399	21.245	8.972	1.00	81.58	C	
ANISOU	2647	CD2	TYR	E	78	8305	13766	8925	-2413	1089	322	C
ATOM	2648	C	TYR	E	78	69.060	23.475	8.408	1.00	77.11	C	
ANISOU	2648	C	TYR	E	78	7579	13251	8467	-2411	1000	278	C
ATOM	2649	O	TYR	E	78	68.832	24.483	7.762	1.00	71.47	O	
ANISOU	2649	O	TYR	E	78	6808	12587	7759	-2400	943	344	O
ATOM	2650	N	GLY	E	79	68.250	22.443	8.497	1.00	79.54	N	
ANISOU	2650	N	GLY	E	79	7895	13562	8763	-2428	1054	173	N
ATOM	2651	CA	GLY	E	79	66.988	22.398	7.810	1.00	79.45	C	
ANISOU	2651	CA	GLY	E	79	7825	13618	8746	-2435	1051	124	C
ATOM	2652	C	GLY	E	79	66.874	21.555	6.567	1.00	76.87	C	
ANISOU	2652	C	GLY	E	79	7449	13409	8349	-2446	1068	86	C
ATOM	2653	O	GLY	E	79	65.852	21.599	5.943	1.00	77.06	O	
ANISOU	2653	O	GLY	E	79	7420	13492	8366	-2451	1061	52	O
ATOM	2654	N	ASP	E	80	67.893	20.801	6.188	1.00	83.83	N	
ANISOU	2654	N	ASP	E	80	8345	14327	9179	-2450	1091	91	N
ATOM	2655	CA	ASP	E	80	67.775	19.945	5.021	1.00	69.92	C	
ANISOU	2655	CA	ASP	E	80	6538	12678	7351	-2461	1110	51	C
ATOM	2656	CB	ASP	E	80	69.114	19.466	4.486	1.00	72.52	C	
ANISOU	2656	CB	ASP	E	80	6875	13053	7625	-2460	1115	92	C
ATOM	2657	CG	ASP	E	80	69.966	18.844	5.517	1.00	78.29	C	
ANISOU	2657	CG	ASP	E	80	7688	13694	8366	-2463	1157	73	C
ATOM	2658	OD1	ASP	E	80	69.783	19.122	6.692	1.00	79.95	O	
ANISOU	2658	OD1	ASP	E	80	7949	13797	8632	-2460	1167	62	O
ATOM	2659	OD2	ASP	E	80	70.848	18.076	5.148	1.00	66.88	O	
ANISOU	2659	OD2	ASP	E	80	6255	12285	6872	-2469	1181	71	O
ATOM	2660	C	ASP	E	80	66.885	18.768	5.303	1.00	70.48	C	
ANISOU	2660	C	ASP	E	80	6626	12736	7416	-2479	1176	-71	C
ATOM	2661	O	ASP	E	80	66.368	18.153	4.396	1.00	69.49	O	
ANISOU	2661	O	ASP	E	80	6455	12700	7249	-2488	1191	-119	O
ATOM	2662	N	LEU	E	81	66.739	18.445	6.583	1.00	84.34	N	
ANISOU	2662	N	LEU	E	81	8450	14379	9215	-2483	1215	-121	N
ATOM	2663	CA	LEU	E	81	65.963	17.292	7.040	1.00	78.92	C	
ANISOU	2663	CA	LEU	E	81	7792	13665	8529	-2500	1283	-239	C
ATOM	2664	CB	LEU	E	81	66.878	16.090	7.274	1.00	70.98	C	
ANISOU	2664	CB	LEU	E	81	6838	12645	7485	-2510	1338	-278	C
ATOM	2665	CG	LEU	E	81	67.674	15.504	6.119	1.00	72.79	C	
ANISOU	2665	CG	LEU	E	81	7034	12981	7642	-2514	1339	-258	C
ATOM	2666	CD1	LEU	E	81	68.880	14.842	6.710	1.00	75.19	C	
ANISOU	2666	CD1	LEU	E	81	7405	13233	7932	-2516	1373	-255	C
ATOM	2667	CD2	LEU	E	81	66.870	14.534	5.290	1.00	86.98	C	

ANISOU	2667	CD2	LEU	E	81	8789	14864	9396	-2529	1375	-344	C
ATOM	2668	C	LEU	E	81	65.230	17.623	8.341	1.00	74.87		C
ANISOU	2668	C	LEU	E	81	7326	13034	8087	-2500	1296	-275	C
ATOM	2669	O	LEU	E	81	65.783	18.311	9.204	1.00	79.18		O
ANISOU	2669	O	LEU	E	81	7914	13495	8675	-2489	1276	-220	O
ATOM	2670	N	TYR	E	82	64.013	17.103	8.490	1.00	73.76		N
ANISOU	2670	N	TYR	E	82	7178	12888	7959	-2512	1331	-369	N
ATOM	2671	CA	TYR	E	82	63.214	17.297	9.698	1.00	74.39		C
ANISOU	2671	CA	TYR	E	82	7301	12860	8104	-2514	1349	-416	C
ATOM	2672	CB	TYR	E	82	62.880	18.784	9.889	1.00	76.15		C
ANISOU	2672	CB	TYR	E	82	7499	13054	8379	-2499	1284	-339	C
ATOM	2673	CG	TYR	E	82	62.200	19.453	8.704	1.00	88.44		C
ANISOU	2673	CG	TYR	E	82	8970	14714	9919	-2495	1234	-308	C
ATOM	2674	CD1	TYR	E	82	60.826	19.374	8.534	1.00	82.67		C
ANISOU	2674	CD1	TYR	E	82	8205	14002	9203	-2503	1243	-377	C
ATOM	2675	CE1	TYR	E	82	60.209	19.981	7.476	1.00	87.26		C
ANISOU	2675	CE1	TYR	E	82	8709	14675	9770	-2499	1199	-350	C
ATOM	2676	CZ	TYR	E	82	60.956	20.674	6.551	1.00	88.86		C
ANISOU	2676	CZ	TYR	E	82	8867	14954	9943	-2486	1144	-252	C
ATOM	2677	OH	TYR	E	82	60.319	21.274	5.484	1.00	102.08		O
ANISOU	2677	OH	TYR	E	82	10463	16721	11601	-2482	1100	-226	O
ATOM	2678	CE2	TYR	E	82	62.322	20.764	6.688	1.00	83.00		C
ANISOU	2678	CE2	TYR	E	82	8157	14196	9185	-2479	1135	-183	C
ATOM	2679	CD2	TYR	E	82	62.935	20.154	7.756	1.00	88.02		C
ANISOU	2679	CD2	TYR	E	82	8870	14739	9836	-2483	1179	-211	C
ATOM	2680	C	TYR	E	82	61.933	16.465	9.644	1.00	82.27		C
ANISOU	2680	C	TYR	E	82	8286	13873	9100	-2529	1396	-530	C
ATOM	2681	O	TYR	E	82	61.455	16.120	8.570	1.00	87.66		O
ANISOU	2681	O	TYR	E	82	8910	14656	9740	-2535	1396	-557	O
ATOM	2682	N	PRO	E	83	61.376	16.125	10.815	1.00	85.71		N
ANISOU	2682	N	PRO	E	83	8777	14206	9581	-2536	1437	-599	N
ATOM	2683	CA	PRO	E	83	60.129	15.359	10.901	1.00	93.15		C
ANISOU	2683	CA	PRO	E	83	9715	15150	10529	-2551	1484	-711	C
ATOM	2684	CB	PRO	E	83	60.126	14.930	12.367	1.00	90.34		C
ANISOU	2684	CB	PRO	E	83	9442	14665	10218	-2556	1532	-764	C
ATOM	2685	CG	PRO	E	83	60.728	16.105	13.040	1.00	85.95		C
ANISOU	2685	CG	PRO	E	83	8911	14037	9708	-2541	1483	-671	C
ATOM	2686	CD	PRO	E	83	61.933	16.340	12.159	1.00	83.80		C
ANISOU	2686	CD	PRO	E	83	8612	13840	9387	-2532	1448	-582	C
ATOM	2687	C	PRO	E	83	58.872	16.172	10.569	1.00	94.02		C
ANISOU	2687	C	PRO	E	83	9768	15285	10669	-2548	1447	-714	C
ATOM	2688	O	PRO	E	83	58.784	17.349	10.917	1.00	102.07		O
ANISOU	2688	O	PRO	E	83	10782	16264	11734	-2537	1397	-649	O
ATOM	2689	N	VAL	E	84	57.901	15.565	9.899	1.00	97.58		N
ANISOU	2689	N	VAL	E	84	10177	15804	11095	-2559	1471	-790	N
ATOM	2690	CA	VAL	E	84	56.645	16.244	9.599	1.00	106.28		C
ANISOU	2690	CA	VAL	E	84	11227	16929	12226	-2558	1440	-803	C
ATOM	2691	CB	VAL	E	84	56.367	16.332	8.118	1.00	96.90		C
ANISOU	2691	CB	VAL	E	84	9956	15875	10987	-2556	1411	-786	C
ATOM	2692	CG1	VAL	E	84	57.371	17.228	7.438	1.00	96.68		C
ANISOU	2692	CG1	VAL	E	84	9895	15900	10938	-2542	1348	-667	C
ATOM	2693	CG2	VAL	E	84	56.358	14.954	7.528	1.00	94.08		C
ANISOU	2693	CG2	VAL	E	84	9592	15583	10572	-2570	1467	-866	C
ATOM	2694	C	VAL	E	84	55.473	15.489	10.188	1.00	106.12		C
ANISOU	2694	C	VAL	E	84	11229	16863	12229	-2572	1496	-921	C
ATOM	2695	O	VAL	E	84	54.378	16.009	10.297	1.00	106.78		O
ANISOU	2695	O	VAL	E	84	11288	16934	12350	-2572	1480	-944	O
ATOM	2696	N	THR	E	85	55.709	14.242	10.537	1.00	107.66		N
ANISOU	2696	N	THR	E	85	11468	17036	12400	-2584	1562	-996	N
ATOM	2697	CA	THR	E	85	54.692	13.419	11.136	1.00	115.16		C
ANISOU	2697	CA	THR	E	85	12446	17940	13370	-2597	1620	-1111	C
ATOM	2698	CB	THR	E	85	55.192	11.993	11.260	1.00	114.17		C
ANISOU	2698	CB	THR	E	85	12360	17814	13203	-2609	1689	-1180	C

ATOM	2699	OG1	THR	E	85	56.401	12.005	12.011	1.00112.45	O
ANISOU	2699	OG1	THR	E	85	12205	17527	12993	-2604 1694 -1131	O
ATOM	2700	CG2	THR	E	85	55.497	11.431	9.921	1.00105.33	C
ANISOU	2700	CG2	THR	E	85	11186	16821	12013	-2612 1690 -1178	C
ATOM	2701	C	THR	E	85	54.566	13.914	12.536	1.00117.69	C
ANISOU	2701	C	THR	E	85	12827	18128	13759	-2595 1622 -1109	C
ATOM	2702	O	THR	E	85	55.569	14.233	13.133	1.00111.07	O
ANISOU	2702	O	THR	E	85	12033	17232	12934	-2587 1611 -1048	O
ATOM	2703	N	LEU	E	86	53.366	13.951	13.089	1.00128.64	N
ANISOU	2703	N	LEU	E	86	15883	16137	16859	-4465 -1969 2160	N
ATOM	2704	CA	LEU	E	86	53.233	14.408	14.457	1.00127.24	C
ANISOU	2704	CA	LEU	E	86	15565	16220	16559	-4348 -1914 2264	C
ATOM	2705	CB	LEU	E	86	51.798	14.489	14.915	1.00129.39	C
ANISOU	2705	CB	LEU	E	86	15692	16695	16776	-4396 -1907 2491	C
ATOM	2706	CG	LEU	E	86	51.783	14.904	16.376	1.00130.36	C
ANISOU	2706	CG	LEU	E	86	15690	17073	16768	-4246 -1838 2583	C
ATOM	2707	CD1	LEU	E	86	52.385	16.294	16.529	1.00132.23	C
ANISOU	2707	CD1	LEU	E	86	15936	17421	16885	-4087 -1751 2369	C
ATOM	2708	CD2	LEU	E	86	50.375	14.826	16.944	1.00127.82	C
ANISOU	2708	CD2	LEU	E	86	15219	16947	16400	-4292 -1830 2838	C
ATOM	2709	C	LEU	E	86	54.010	13.470	15.320	1.00122.04	C
ANISOU	2709	C	LEU	E	86	14914	15525	15933	-4304 -1931 2345	C
ATOM	2710	O	LEU	E	86	54.584	13.874	16.298	1.00118.86	O
ANISOU	2710	O	LEU	E	86	14462	15260	15439	-4162 -1879 2321	O
ATOM	2711	N	TRP	E	87	53.991	12.199	14.987	1.00125.94	N
ANISOU	2711	N	TRP	E	87	15466	15835	16552	-4432 -2001 2453	N
ATOM	2712	CA	TRP	E	87	54.737	11.236	15.767	1.00120.30	C
ANISOU	2712	CA	TRP	E	87	14759	15070	15878	-4396 -2017 2537	C
ATOM	2713	CB	TRP	E	87	54.293	9.822	15.438	1.00136.53	C
ANISOU	2713	CB	TRP	E	87	16853	16961	18062	-4561 -2093 2713	C
ATOM	2714	CG	TRP	E	87	53.343	9.325	16.442	1.00141.79	C
ANISOU	2714	CG	TRP	E	87	17377	17811	18687	-4585 -2104 2980	C
ATOM	2715	CD1	TRP	E	87	52.104	9.808	16.708	1.00148.82	C
ANISOU	2715	CD1	TRP	E	87	18143	18902	19500	-4608 -2092 3111	C
ATOM	2716	NE1	TRP	E	87	51.535	9.105	17.722	1.00144.11	N
ANISOU	2716	NE1	TRP	E	87	17435	18434	18888	-4619 -2106 3354	N
ATOM	2717	CE2	TRP	E	87	52.419	8.147	18.135	1.00146.14	C
ANISOU	2717	CE2	TRP	E	87	17743	18573	19210	-4603 -2128 3380	C
ATOM	2718	CD2	TRP	E	87	53.566	8.266	17.349	1.00141.11	C
ANISOU	2718	CD2	TRP	E	87	17252	17728	18633	-4579 -2125 3151	C
ATOM	2719	CE3	TRP	E	87	54.636	7.401	17.574	1.00144.51	C
ANISOU	2719	CE3	TRP	E	87	17757	18007	19142	-4555 -2139 3136	C
ATOM	2720	CZ3	TRP	E	87	54.525	6.464	18.559	1.00157.99	C
ANISOU	2720	CZ3	TRP	E	87	19390	19775	20863	-4556 -2158 3344	C
ATOM	2721	CH2	TRP	E	87	53.362	6.364	19.328	1.00160.29	C
ANISOU	2721	CH2	TRP	E	87	19537	20274	21091	-4583 -2164 3566	C
ATOM	2722	CZ2	TRP	E	87	52.301	7.198	19.130	1.00158.40	C
ANISOU	2722	CZ2	TRP	E	87	19223	20186	20775	-4605 -2148 3588	C
ATOM	2723	C	TRP	E	87	56.253	11.367	15.721	1.00112.25	C
ANISOU	2723	C	TRP	E	87	13842	13929	14880	-4288 -1994 2336	C
ATOM	2724	O	TRP	E	87	56.903	11.250	16.735	1.00109.19	O
ANISOU	2724	O	TRP	E	87	13409	13630	14448	-4180 -1969 2372	O
ATOM	2725	N	GLY	E	88	56.810	11.621	14.546	1.00118.78	N
ANISOU	2725	N	GLY	E	88	14803	14554	15772	-4320 -2003 2130	N
ATOM	2726	CA	GLY	E	88	58.249	11.740	14.367	1.00105.36	C
ANISOU	2726	CA	GLY	E	88	13210	12719	14105	-4227 -1984 1935	C
ATOM	2727	C	GLY	E	88	58.835	12.881	15.147	1.00 93.90	C
ANISOU	2727	C	GLY	E	88	11698	11466	12516	-4049 -1916 1819	C
ATOM	2728	O	GLY	E	88	59.915	12.810	15.682	1.00 99.28	O
ANISOU	2728	O	GLY	E	88	12399	12134	13188	-3947 -1898 1764	O
ATOM	2729	N	ARG	E	89	58.109	13.888	15.288	1.00 95.33	N
ANISOU	2729	N	ARG	E	89	11800	11837	12584	-4013 -1878 1802	N
ATOM	2730	CA	ARG	E	89	58.478	15.114	15.915	1.00100.21	C

ANISOU	2730	CA	ARG	E	89	12367	12651	13056	-3858	-1807	1686	C
ATOM	2731	CB	ARG	E	89	57.358	16.132	15.762	1.00	98.52		C
ANISOU	2731	CB	ARG	E	89	12077	12611	12744	-3862	-1768	1687	C
ATOM	2732	CG	ARG	E	89	57.104	16.566	14.329	1.00	94.71		C
ANISOU	2732	CG	ARG	E	89	11683	11981	12321	-3946	-1786	1531	C
ATOM	2733	CD	ARG	E	89	56.278	17.842	14.282	1.00	98.84		C
ANISOU	2733	CD	ARG	E	89	12131	12698	12724	-3903	-1726	1487	C
ATOM	2734	NE	ARG	E	89	55.951	18.257	12.918	1.00	101.48		N
ANISOU	2734	NE	ARG	E	89	12540	12903	13116	-3992	-1745	1352	N
ATOM	2735	CZ	ARG	E	89	54.966	19.087	12.602	1.00	104.76		C
ANISOU	2735	CZ	ARG	E	89	12892	13441	13470	-4011	-1713	1359	C
ATOM	2736	NH1	ARG	E	89	54.165	19.551	13.548	1.00	114.98		N
ANISOU	2736	NH1	ARG	E	89	14050	14989	14651	-3950	-1658	1504	N
ATOM	2737	NH2	ARG	E	89	54.798	19.463	11.350	1.00	97.14		N
ANISOU	2737	NH2	ARG	E	89	12002	12348	12560	-4088	-1733	1222	N
ATOM	2738	C	ARG	E	89	58.707	14.827	17.358	1.00	98.73		C
ANISOU	2738	C	ARG	E	89	12083	12634	12795	-3769	-1786	1834	C
ATOM	2739	O	ARG	E	89	59.600	15.370	17.970	1.00	86.20		O
ANISOU	2739	O	ARG	E	89	10497	11127	11128	-3641	-1746	1736	O
ATOM	2740	N	CYS	E	90	58.013	13.840	17.877	1.00	104.31		N
ANISOU	2740	N	CYS	E	90	12719	13371	13544	-3845	-1822	2071	N
ATOM	2741	CA	CYS	E	90	58.214	13.495	19.290	1.00	94.71		C
ANISOU	2741	CA	CYS	E	90	11407	12316	12261	-3766	-1805	2225	C
ATOM	2742	CB	CYS	E	90	57.231	12.437	19.801	1.00	90.79		C
ANISOU	2742	CB	CYS	E	90	10822	11864	11808	-3863	-1846	2501	C
ATOM	2743	SG	CYS	E	90	55.585	13.064	20.213	1.00	104.99		S
ANISOU	2743	SG	CYS	E	90	12476	13918	13495	-3885	-1812	2660	S
ATOM	2744	C	CYS	E	90	59.635	13.008	19.464	1.00	89.12		C
ANISOU	2744	C	CYS	E	90	10775	11475	11611	-3707	-1817	2146	C
ATOM	2745	O	CYS	E	90	60.338	13.495	20.350	1.00	97.45		O
ANISOU	2745	O	CYS	E	90	11797	12663	12568	-3582	-1777	2107	O
ATOM	2746	N	VAL	E	91	60.045	12.042	18.636	1.00	79.83		N
ANISOU	2746	N	VAL	E	91	9703	10038	10591	-3799	-1871	2130	N
ATOM	2747	CA	VAL	E	91	61.416	11.525	18.665	1.00	82.46		C
ANISOU	2747	CA	VAL	E	91	10117	10214	10999	-3748	-1880	2056	C
ATOM	2748	CB	VAL	E	91	61.712	10.579	17.485	1.00	87.48		C
ANISOU	2748	CB	VAL	E	91	10888	10537	11811	-3865	-1928	2016	C
ATOM	2749	CG1	VAL	E	91	63.154	10.088	17.527	1.00	81.74		C
ANISOU	2749	CG1	VAL	E	91	10243	9651	11163	-3800	-1927	1942	C
ATOM	2750	CG2	VAL	E	91	60.753	9.407	17.498	1.00	90.73		C
ANISOU	2750	CG2	VAL	E	91	11270	10897	12306	-4004	-1978	2244	C
ATOM	2751	C	VAL	E	91	62.405	12.691	18.648	1.00	87.57		C
ANISOU	2751	C	VAL	E	91	10804	10909	11558	-3614	-1831	1826	C
ATOM	2752	O	VAL	E	91	63.400	12.691	19.390	1.00	86.81		O
ANISOU	2752	O	VAL	E	91	10697	10856	11429	-3514	-1815	1810	O
ATOM	2753	N	ALA	E	92	62.095	13.702	17.835	1.00	91.55		N
ANISOU	2753	N	ALA	E	92	11347	11418	12018	-3615	-1809	1658	N
ATOM	2754	CA	ALA	E	92	62.938	14.888	17.723	1.00	92.38		C
ANISOU	2754	CA	ALA	E	92	11495	11570	12035	-3495	-1763	1429	C
ATOM	2755	CB	ALA	E	92	62.345	15.858	16.702	1.00	80.71		C
ANISOU	2755	CB	ALA	E	92	10056	10081	10528	-3526	-1745	1272	C
ATOM	2756	C	ALA	E	92	63.113	15.573	19.083	1.00	86.73		C
ANISOU	2756	C	ALA	E	92	10676	11124	11152	-3367	-1712	1472	C
ATOM	2757	O	ALA	E	92	64.238	15.852	19.497	1.00	79.07		O
ANISOU	2757	O	ALA	E	92	9732	10167	10143	-3267	-1695	1379	O
ATOM	2758	N	VAL	E	93	62.000	15.833	19.767	1.00	85.91		N
ANISOU	2758	N	VAL	E	93	10460	11232	10951	-3374	-1688	1618	N
ATOM	2759	CA	VAL	E	93	62.027	16.494	21.062	1.00	76.49		C
ANISOU	2759	CA	VAL	E	93	9173	10299	9590	-3262	-1633	1670	C
ATOM	2760	CB	VAL	E	93	60.634	16.625	21.686	1.00	77.52		C
ANISOU	2760	CB	VAL	E	93	9183	10634	9638	-3290	-1607	1856	C
ATOM	2761	CG1	VAL	E	93	60.725	17.484	22.927	1.00	82.13		C
ANISOU	2761	CG1	VAL	E	93	9692	11477	10035	-3168	-1538	1872	C

ATOM	2762	CG2	VAL	E	93	59.680	17.268	20.729	1.00	89.09	C	
ANISOU	2762	CG2	VAL	E	93	10658	12091	11103	-3347	-1592	1787	C
ATOM	2763	C	VAL	E	93	62.890	15.706	22.020	1.00	83.52	C	
ANISOU	2763	C	VAL	E	93	10041	11195	10499	-3220	-1654	1777	C
ATOM	2764	O	VAL	E	93	63.639	16.278	22.808	1.00	92.24	O	
ANISOU	2764	O	VAL	E	93	11130	12424	11492	-3113	-1619	1723	O
ATOM	2765	N	VAL	E	94	62.787	14.386	21.952	1.00	85.46	N	
ANISOU	2765	N	VAL	E	94	10285	11303	10882	-3309	-1711	1932	N
ATOM	2766	CA	VAL	E	94	63.570	13.545	22.844	1.00	84.88	C	
ANISOU	2766	CA	VAL	E	94	10185	11227	10840	-3276	-1732	2050	C
ATOM	2767	CB	VAL	E	94	63.120	12.072	22.775	1.00	83.51	C	
ANISOU	2767	CB	VAL	E	94	9996	10922	10813	-3390	-1789	2253	C
ATOM	2768	CG1	VAL	E	94	64.150	11.156	23.448	1.00	73.29	C	
ANISOU	2768	CG1	VAL	E	94	8699	9566	9581	-3356	-1812	2341	C
ATOM	2769	CG2	VAL	E	94	61.735	11.913	23.426	1.00	81.27	C	
ANISOU	2769	CG2	VAL	E	94	9592	10820	10468	-3439	-1787	2462	C
ATOM	2770	C	VAL	E	94	65.050	13.684	22.490	1.00	86.33	C	
ANISOU	2770	C	VAL	E	94	10466	11269	11066	-3209	-1733	1872	C
ATOM	2771	O	VAL	E	94	65.897	13.837	23.383	1.00	84.86	O	
ANISOU	2771	O	VAL	E	94	10252	11181	10810	-3118	-1718	1879	O
ATOM	2772	N	VAL	E	95	65.347	13.678	21.190	1.00	83.71	N	
ANISOU	2772	N	VAL	E	95	10249	10713	10843	-3254	-1751	1713	N
ATOM	2773	CA	VAL	E	95	66.720	13.853	20.700	1.00	84.56	C	
ANISOU	2773	CA	VAL	E	95	10459	10669	11001	-3193	-1750	1531	C
ATOM	2774	CB	VAL	E	95	66.810	13.649	19.171	1.00	83.41	C	
ANISOU	2774	CB	VAL	E	95	10443	10252	10998	-3271	-1773	1388	C
ATOM	2775	CG1	VAL	E	95	68.196	14.008	18.639	1.00	73.51	C	
ANISOU	2775	CG1	VAL	E	95	9293	8856	9782	-3197	-1764	1182	C
ATOM	2776	CG2	VAL	E	95	66.458	12.217	18.821	1.00	83.83	C	
ANISOU	2776	CG2	VAL	E	95	10521	10117	11214	-3392	-1821	1548	C
ATOM	2777	C	VAL	E	95	67.297	15.227	21.080	1.00	83.55	C	
ANISOU	2777	C	VAL	E	95	10326	10707	10711	-3069	-1701	1364	C
ATOM	2778	O	VAL	E	95	68.453	15.325	21.504	1.00	79.66	O	
ANISOU	2778	O	VAL	E	95	9852	10217	10199	-2987	-1696	1311	O
ATOM	2779	N	MET	E	96	66.509	16.281	20.882	1.00	85.40	N	
ANISOU	2779	N	MET	E	96	10542	11073	10833	-3059	-1664	1280	N
ATOM	2780	CA	MET	E	96	66.953	17.628	21.213	1.00	83.98	C	
ANISOU	2780	CA	MET	E	96	10364	11053	10490	-2947	-1611	1119	C
ATOM	2781	CB	MET	E	96	65.876	18.670	20.889	1.00	83.43	C	
ANISOU	2781	CB	MET	E	96	10272	11110	10316	-2953	-1566	1051	C
ATOM	2782	CG	MET	E	96	65.446	18.748	19.425	1.00	80.76	C	
ANISOU	2782	CG	MET	E	96	10014	10586	10086	-3035	-1584	926	C
ATOM	2783	SD	MET	E	96	63.994	19.814	19.216	1.00	96.55	S	
ANISOU	2783	SD	MET	E	96	11955	12760	11968	-3052	-1531	912	S
ATOM	2784	CE	MET	E	96	63.673	19.667	17.465	1.00	96.18	C	
ANISOU	2784	CE	MET	E	96	12011	12459	12076	-3165	-1571	781	C
ATOM	2785	C	MET	E	96	67.322	17.718	22.686	1.00	86.47	C	
ANISOU	2785	C	MET	E	96	10597	11581	10679	-2867	-1589	1235	C
ATOM	2786	O	MET	E	96	68.438	18.118	23.029	1.00	85.81	O	
ANISOU	2786	O	MET	E	96	10543	11521	10540	-2783	-1580	1139	O
ATOM	2787	N	VAL	E	97	66.404	17.310	23.557	1.00	89.66	N	
ANISOU	2787	N	VAL	E	97	10896	12135	11037	-2897	-1585	1446	N
ATOM	2788	CA	VAL	E	97	66.646	17.401	24.995	1.00	88.69	C	
ANISOU	2788	CA	VAL	E	97	10691	12223	10785	-2828	-1563	1567	C
ATOM	2789	CB	VAL	E	97	65.392	16.963	25.806	1.00	87.63	C	
ANISOU	2789	CB	VAL	E	97	10441	12245	10610	-2874	-1555	1803	C
ATOM	2790	CG1	VAL	E	97	65.760	16.648	27.245	1.00	85.02	C	
ANISOU	2790	CG1	VAL	E	97	10033	12077	10195	-2826	-1552	1960	C
ATOM	2791	CG2	VAL	E	97	64.314	18.052	25.761	1.00	83.51	C	
ANISOU	2791	CG2	VAL	E	97	9887	11886	9955	-2860	-1492	1760	C
ATOM	2792	C	VAL	E	97	67.867	16.563	25.398	1.00	84.70	C	
ANISOU	2792	C	VAL	E	97	10200	11623	10359	-2807	-1605	1619	C
ATOM	2793	O	VAL	E	97	68.666	16.991	26.232	1.00	91.09	O	

ANISOU	2793	O	VAL	E	97	10995	12555	11061	-2727	-1587	1600	O
ATOM	2794	N	ALA	E	98	68.051	15.419	24.740	1.00	79.76		N
ANISOU	2794	N	ALA	E	98	9612	10771	9923	-2880	-1657	1673	N
ATOM	2795	CA	ALA	E	98	69.182	14.541	25.031	1.00	78.88		C
ANISOU	2795	CA	ALA	E	98	9516	10548	9908	-2863	-1692	1732	C
ATOM	2796	CB	ALA	E	98	69.113	13.286	24.184	1.00	74.25		C
ANISOU	2796	CB	ALA	E	98	8978	9702	9530	-2958	-1738	1797	C
ATOM	2797	C	ALA	E	98	70.513	15.256	24.800	1.00	82.46		C
ANISOU	2797	C	ALA	E	98	10043	10958	10328	-2775	-1680	1535	C
ATOM	2798	O	ALA	E	98	71.436	15.126	25.593	1.00	92.37		O
ANISOU	2798	O	ALA	E	98	11274	12273	11551	-2717	-1685	1582	O
ATOM	2799	N	GLY	E	99	70.606	16.006	23.711	1.00	84.95		N
ANISOU	2799	N	GLY	E	99	10450	11174	10654	-2769	-1665	1320	N
ATOM	2800	CA	GLY	E	99	71.806	16.762	23.397	1.00	82.88		C
ANISOU	2800	CA	GLY	E	99	10263	10869	10359	-2688	-1653	1119	C
ATOM	2801	C	GLY	E	99	71.991	17.976	24.290	1.00	80.82		C
ANISOU	2801	C	GLY	E	99	9964	10862	9880	-2598	-1610	1056	C
ATOM	2802	O	GLY	E	99	73.085	18.213	24.805	1.00	80.28		O
ANISOU	2802	O	GLY	E	99	9905	10839	9761	-2529	-1611	1021	O
ATOM	2803	N	ILE	E	100	70.921	18.748	24.470	1.00	76.52		N
ANISOU	2803	N	ILE	E	100	9382	10483	9208	-2602	-1568	1047	N
ATOM	2804	CA	ILE	E	100	70.969	19.949	25.302	1.00	81.28		C
ANISOU	2804	CA	ILE	E	100	9959	11329	9594	-2521	-1515	987	C
ATOM	2805	CB	ILE	E	100	69.619	20.719	25.310	1.00	90.33		C
ANISOU	2805	CB	ILE	E	100	11069	12626	10627	-2535	-1461	984	C
ATOM	2806	CG1	ILE	E	100	69.167	21.020	23.878	1.00	82.08		C
ANISOU	2806	CG1	ILE	E	100	10095	11421	9672	-2577	-1460	827	C
ATOM	2807	CD1	ILE	E	100	67.801	21.671	23.782	1.00	80.52		C
ANISOU	2807	CD1	ILE	E	100	9854	11350	9388	-2599	-1410	841	C
ATOM	2808	CG2	ILE	E	100	69.736	22.014	26.132	1.00	78.08		C
ANISOU	2808	CG2	ILE	E	100	9510	11313	8845	-2447	-1395	907	C
ATOM	2809	C	ILE	E	100	71.403	19.576	26.732	1.00	84.63		C
ANISOU	2809	C	ILE	E	100	10307	11912	9938	-2489	-1522	1161	C
ATOM	2810	O	ILE	E	100	71.951	20.410	27.459	1.00	88.57		O
ANISOU	2810	O	ILE	E	100	10806	12572	10275	-2418	-1493	1105	O
ATOM	2811	N	THR	E	101	71.012	18.386	27.187	1.00	88.02		N
ANISOU	2811	N	THR	E	101	10665	12316	10461	-2546	-1557	1381	N
ATOM	2812	CA	THR	E	101	71.430	17.893	28.503	1.00	81.05		C
ANISOU	2812	CA	THR	E	101	9706	11565	9524	-2525	-1571	1560	C
ATOM	2813	CB	THR	E	101	70.509	16.773	28.974	1.00	79.80		C
ANISOU	2813	CB	THR	E	101	9459	11421	9442	-2596	-1594	1802	C
ATOM	2814	OG1	THR	E	101	69.201	17.312	29.186	1.00	78.02		O
ANISOU	2814	OG1	THR	E	101	9186	11348	9110	-2612	-1549	1841	O
ATOM	2815	CG2	THR	E	101	71.024	16.171	30.271	1.00	100.67		C
ANISOU	2815	CG2	THR	E	101	12025	14178	12048	-2577	-1614	1987	C
ATOM	2816	C	THR	E	101	72.874	17.385	28.600	1.00	78.59		C
ANISOU	2816	C	THR	E	101	9423	11146	9293	-2494	-1612	1554	C
ATOM	2817	O	THR	E	101	73.636	17.842	29.447	1.00	86.38		O
ANISOU	2817	O	THR	E	101	10394	12269	10157	-2435	-1604	1552	O
ATOM	2818	N	SER	E	102	73.247	16.452	27.726	1.00	74.24		N
ANISOU	2818	N	SER	E	102	8916	10348	8945	-2535	-1652	1554	N
ATOM	2819	CA	SER	E	102	74.590	15.865	27.759	1.00	82.35		C
ANISOU	2819	CA	SER	E	102	9966	11252	10071	-2506	-1687	1566	C
ATOM	2820	CB	SER	E	102	74.759	14.851	26.627	1.00	83.00		C
ANISOU	2820	CB	SER	E	102	10112	11041	10385	-2561	-1717	1559	C
ATOM	2821	OG	SER	E	102	73.840	13.784	26.770	1.00	91.20		O
ANISOU	2821	OG	SER	E	102	11095	12041	11515	-2641	-1736	1751	O
ATOM	2822	C	SER	E	102	75.705	16.906	27.684	1.00	84.01		C
ANISOU	2822	C	SER	E	102	10237	11498	10184	-2425	-1673	1378	C
ATOM	2823	O	SER	E	102	76.615	16.909	28.515	1.00	84.53		O
ANISOU	2823	O	SER	E	102	10272	11653	10192	-2380	-1685	1435	O
ATOM	2824	N	PHE	E	103	75.637	17.778	26.681	1.00	86.04		N
ANISOU	2824	N	PHE	E	103	10579	11687	10425	-2409	-1650	1157	N

ATOM	2825	CA	PHE	E	103	76.627	18.838	26.535	1.00	84.06	C	
ANISOU	2825	CA	PHE	E	103	10392	11470	10076	-2334	-1635	964	C
ATOM	2826	CB	PHE	E	103	76.439	19.602	25.220	1.00	80.09	C	
ANISOU	2826	CB	PHE	E	103	9988	10845	9599	-2331	-1614	726	C
ATOM	2827	CG	PHE	E	103	76.993	18.900	24.011	1.00	74.01	C	
ANISOU	2827	CG	PHE	E	103	9297	9781	9042	-2356	-1644	654	C
ATOM	2828	CD1	PHE	E	103	78.350	18.945	23.732	1.00	73.65	C	
ANISOU	2828	CD1	PHE	E	103	9307	9627	9051	-2303	-1660	561	C
ATOM	2829	CE1	PHE	E	103	78.869	18.322	22.614	1.00	75.20	C	
ANISOU	2829	CE1	PHE	E	103	9583	9547	9442	-2322	-1679	493	C
ATOM	2830	CZ	PHE	E	103	78.027	17.657	21.746	1.00	91.86	C	
ANISOU	2830	CZ	PHE	E	103	11726	11486	11690	-2403	-1684	511	C
ATOM	2831	CE2	PHE	E	103	76.663	17.615	22.002	1.00	88.64	C	
ANISOU	2831	CE2	PHE	E	103	11261	11190	11228	-2463	-1674	603	C
ATOM	2832	CD2	PHE	E	103	76.154	18.240	23.129	1.00	83.94	C	
ANISOU	2832	CD2	PHE	E	103	10579	10871	10442	-2436	-1653	675	C
ATOM	2833	C	PHE	E	103	76.548	19.813	27.703	1.00	79.95	C	
ANISOU	2833	C	PHE	E	103	9826	11235	9317	-2286	-1602	976	C
ATOM	2834	O	PHE	E	103	77.547	20.432	28.076	1.00	79.12	O	
ANISOU	2834	O	PHE	E	103	9744	11202	9115	-2227	-1602	899	O
ATOM	2835	N	GLY	E	104	75.355	19.945	28.272	1.00	79.88	N	
ANISOU	2835	N	GLY	E	104	9755	11384	9212	-2313	-1572	1075	N
ATOM	2836	CA	GLY	E	104	75.146	20.828	29.403	1.00	85.90	C	
ANISOU	2836	CA	GLY	E	104	10479	12414	9746	-2274	-1530	1100	C
ATOM	2837	C	GLY	E	104	75.880	20.314	30.618	1.00	87.17	C	
ANISOU	2837	C	GLY	E	104	10577	12680	9865	-2262	-1559	1269	C
ATOM	2838	O	GLY	E	104	76.473	21.072	31.384	1.00	80.80	O	
ANISOU	2838	O	GLY	E	104	9776	12034	8889	-2216	-1544	1235	O
ATOM	2839	N	LEU	E	105	75.853	19.000	30.777	1.00	88.41	N	
ANISOU	2839	N	LEU	E	105	10675	12739	10178	-2308	-1603	1455	N
ATOM	2840	CA	LEU	E	105	76.501	18.353	31.898	1.00	80.60	C	
ANISOU	2840	CA	LEU	E	105	9615	11833	9175	-2305	-1636	1639	C
ATOM	2841	CB	LEU	E	105	75.972	16.919	32.034	1.00	77.67	C	
ANISOU	2841	CB	LEU	E	105	9172	11371	8969	-2368	-1670	1857	C
ATOM	2842	CG	LEU	E	105	76.335	16.046	33.234	1.00	98.77	C	
ANISOU	2842	CG	LEU	E	105	11751	14133	11646	-2379	-1702	2091	C
ATOM	2843	CD1	LEU	E	105	75.188	15.114	33.589	1.00	98.24	C	
ANISOU	2843	CD1	LEU	E	105	11602	14082	11642	-2442	-1708	2291	C
ATOM	2844	CD2	LEU	E	105	77.579	15.271	32.940	1.00	95.20	C	
ANISOU	2844	CD2	LEU	E	105	11313	13506	11353	-2368	-1747	2116	C
ATOM	2845	C	LEU	E	105	78.026	18.394	31.716	1.00	84.79	C	
ANISOU	2845	C	LEU	E	105	10193	12275	9750	-2261	-1668	1560	C
ATOM	2846	O	LEU	E	105	78.756	18.592	32.679	1.00	96.83	O	
ANISOU	2846	O	LEU	E	105	11686	13939	11165	-2234	-1680	1624	O
ATOM	2847	N	VAL	E	106	78.504	18.214	30.485	1.00	81.35	N	
ANISOU	2847	N	VAL	E	106	9831	11607	9471	-2257	-1683	1427	N
ATOM	2848	CA	VAL	E	106	79.943	18.280	30.205	1.00	79.83	C	
ANISOU	2848	CA	VAL	E	106	9685	11315	9330	-2211	-1710	1345	C
ATOM	2849	CB	VAL	E	106	80.284	18.029	28.717	1.00	84.18	C	
ANISOU	2849	CB	VAL	E	106	10327	11587	10071	-2212	-1717	1195	C
ATOM	2850	CG1	VAL	E	106	81.765	18.308	28.452	1.00	67.83	C	
ANISOU	2850	CG1	VAL	E	106	8307	9438	8027	-2154	-1736	1092	C
ATOM	2851	CG2	VAL	E	106	79.937	16.603	28.309	1.00	86.01	C	
ANISOU	2851	CG2	VAL	E	106	10535	11622	10521	-2271	-1740	1342	C
ATOM	2852	C	VAL	E	106	80.437	19.664	30.595	1.00	81.61	C	
ANISOU	2852	C	VAL	E	106	9950	11718	9340	-2155	-1686	1197	C
ATOM	2853	O	VAL	E	106	81.554	19.831	31.081	1.00	82.32	O	
ANISOU	2853	O	VAL	E	106	10038	11858	9382	-2121	-1709	1206	O
ATOM	2854	N	THR	E	107	79.590	20.664	30.378	1.00	80.70	N	
ANISOU	2854	N	THR	E	107	9871	11699	9093	-2149	-1638	1065	N
ATOM	2855	CA	THR	E	107	79.913	22.029	30.766	1.00	81.94	C	
ANISOU	2855	CA	THR	E	107	10072	12033	9028	-2100	-1605	923	C
ATOM	2856	CB	THR	E	107	78.889	23.033	30.238	1.00	88.77	C	

ANISOU	2856	CB	THR	E	107	10986	12951	9793	-2094	-1545	763	C
ATOM	2857	OG1	THR	E	107	79.095	23.215	28.830	1.00	88.81		O
ANISOU	2857	OG1	THR	E	107	11072	12747	9923	-2084	-1549	571	O
ATOM	2858	CG2	THR	E	107	79.040	24.371	30.960	1.00	79.11		C
ANISOU	2858	CG2	THR	E	107	9794	11955	8309	-2050	-1499	668	C
ATOM	2859	C	THR	E	107	79.981	22.127	32.276	1.00	86.52		C
ANISOU	2859	C	THR	E	107	10583	12853	9436	-2101	-1603	1083	C
ATOM	2860	O	THR	E	107	80.864	22.786	32.826	1.00	91.17		O
ANISOU	2860	O	THR	E	107	11195	13555	9888	-2068	-1608	1038	O
ATOM	2861	N	ALA	E	108	79.056	21.448	32.943	1.00	88.86		N
ANISOU	2861	N	ALA	E	108	10798	13225	9741	-2144	-1598	1275	N
ATOM	2862	CA	ALA	E	108	79.014	21.458	34.399	1.00	93.80		C
ANISOU	2862	CA	ALA	E	108	11355	14075	10208	-2152	-1594	1443	C
ATOM	2863	CB	ALA	E	108	77.806	20.669	34.902	1.00	98.53		C
ANISOU	2863	CB	ALA	E	108	11867	14725	10845	-2201	-1584	1639	C
ATOM	2864	C	ALA	E	108	80.304	20.878	34.977	1.00	95.36		C
ANISOU	2864	C	ALA	E	108	11519	14263	10449	-2148	-1653	1553	C
ATOM	2865	O	ALA	E	108	80.926	21.473	35.856	1.00	97.83		O
ANISOU	2865	O	ALA	E	108	11835	14744	10592	-2131	-1655	1564	O
ATOM	2866	N	ALA	E	109	80.733	19.762	34.425	1.00	90.52		N
ANISOU	2866	N	ALA	E	109	10883	13448	10062	-2163	-1699	1625	N
ATOM	2867	CA	ALA	E	109	81.933	19.132	34.911	1.00	97.05		C
ANISOU	2867	CA	ALA	E	109	11671	14251	10952	-2157	-1752	1743	C
ATOM	2868	CB	ALA	E	109	82.223	17.889	34.105	1.00	91.37		C
ANISOU	2868	CB	ALA	E	109	10939	13277	10502	-2171	-1786	1808	C
ATOM	2869	C	ALA	E	109	83.075	20.101	34.781	1.00	98.72		C
ANISOU	2869	C	ALA	E	109	11952	14494	11062	-2109	-1758	1583	C
ATOM	2870	O	ALA	E	109	83.879	20.223	35.681	1.00	105.63		O
ANISOU	2870	O	ALA	E	109	12798	15498	11839	-2104	-1784	1665	O
ATOM	2871	N	LEU	E	110	83.184	20.749	33.633	1.00	101.22		N
ANISOU	2871	N	LEU	E	110	12361	14686	11412	-2078	-1739	1358	N
ATOM	2872	CA	LEU	E	110	84.258	21.695	33.437	1.00	101.78		C
ANISOU	2872	CA	LEU	E	110	12502	14779	11389	-2032	-1746	1195	C
ATOM	2873	CB	LEU	E	110	84.220	22.312	32.049	1.00	98.34		C
ANISOU	2873	CB	LEU	E	110	12167	14184	11016	-2001	-1722	946	C
ATOM	2874	CG	LEU	E	110	84.872	21.544	30.910	1.00	87.48		C
ANISOU	2874	CG	LEU	E	110	10821	12529	9888	-1989	-1752	905	C
ATOM	2875	CD1	LEU	E	110	85.074	22.466	29.732	1.00	85.74		C
ANISOU	2875	CD1	LEU	E	110	10709	12202	9667	-1951	-1730	637	C
ATOM	2876	CD2	LEU	E	110	86.211	21.009	31.351	1.00	99.09		C
ANISOU	2876	CD2	LEU	E	110	12255	13975	11422	-1972	-1801	1020	C
ATOM	2877	C	LEU	E	110	84.140	22.766	34.479	1.00	97.93		C
ANISOU	2877	C	LEU	E	110	12024	14560	10627	-2028	-1718	1178	C
ATOM	2878	O	LEU	E	110	85.130	23.230	34.983	1.00	99.79		O
ANISOU	2878	O	LEU	E	110	12273	14886	10756	-2011	-1742	1166	O
ATOM	2879	N	ALA	E	111	82.926	23.149	34.833	1.00	97.28		N
ANISOU	2879	N	ALA	E	111	11932	14603	10425	-2046	-1667	1185	N
ATOM	2880	CA	ALA	E	111	82.758	24.186	35.830	1.00	101.09		C
ANISOU	2880	CA	ALA	E	111	12434	15336	10639	-2042	-1628	1168	C
ATOM	2881	CB	ALA	E	111	81.294	24.530	35.994	1.00	99.30		C
ANISOU	2881	CB	ALA	E	111	12201	15208	10321	-2055	-1560	1170	C
ATOM	2882	C	ALA	E	111	83.326	23.723	37.142	1.00	110.96		C
ANISOU	2882	C	ALA	E	111	13612	16728	11817	-2070	-1668	1377	C
ATOM	2883	O	ALA	E	111	84.017	24.454	37.815	1.00	112.74		O
ANISOU	2883	O	ALA	E	111	13870	17102	11865	-2064	-1673	1352	O
ATOM	2884	N	THR	E	112	83.035	22.492	37.512	1.00	111.78		N
ANISOU	2884	N	THR	E	112	13621	16791	12060	-2105	-1699	1589	N
ATOM	2885	CA	THR	E	112	83.544	21.955	38.756	1.00	108.03		C
ANISOU	2885	CA	THR	E	112	13068	16445	11533	-2136	-1739	1804	C
ATOM	2886	CB	THR	E	112	82.798	20.689	39.176	1.00	111.98		C
ANISOU	2886	CB	THR	E	112	13463	16920	12164	-2177	-1753	2030	C
ATOM	2887	OG1	THR	E	112	81.422	21.021	39.367	1.00	121.68		O
ANISOU	2887	OG1	THR	E	112	14691	18246	13297	-2190	-1693	2026	O

ATOM	2888	CG2	THR	E	112	83.361	20.111	40.457	1.00121.71	C
ANISOU	2888	CG2	THR	E	112	14612	18285	13349	-2209 -1798 2255	C
ATOM	2889	C	THR	E	112	85.059	21.809	38.796	1.00109.84	C
ANISOU	2889	C	THR	E	112	13299	16629	11808	-2123 -1801 1819	C
ATOM	2890	O	THR	E	112	85.663	22.070	39.800	1.00120.17	O
ANISOU	2890	O	THR	E	112	14588	18100	12970	-2140 -1823 1903	O
ATOM	2891	N	TRP	E	113	85.684	21.418	37.698	1.00114.90	N
ANISOU	2891	N	TRP	E	113	13963	17047	12646	-2094 -1827 1737	N
ATOM	2892	CA	TRP	E	113	87.131	21.251	37.680	1.00110.29	C
ANISOU	2892	CA	TRP	E	113	13376	16408	12121	-2077 -1882 1759	C
ATOM	2893	CB	TRP	E	113	87.547	20.792	36.294	1.00119.83	C
ANISOU	2893	CB	TRP	E	113	14621	17342	13567	-2042 -1892 1653	C
ATOM	2894	CG	TRP	E	113	89.005	20.697	35.999	1.00119.43	C
ANISOU	2894	CG	TRP	E	113	14581	17197	13600	-2010 -1937 1639	C
ATOM	2895	CD1	TRP	E	113	89.979	20.206	36.799	1.00114.91	C
ANISOU	2895	CD1	TRP	E	113	13937	16685	13037	-2022 -1987 1818	C
ATOM	2896	NE1	TRP	E	113	91.180	20.241	36.153	1.00110.10	N
ANISOU	2896	NE1	TRP	E	113	13359	15945	12529	-1981 -2015 1750	N
ATOM	2897	CE2	TRP	E	113	90.988	20.744	34.899	1.00119.71	C
ANISOU	2897	CE2	TRP	E	113	14673	17007	13806	-1943 -1983 1519	C
ATOM	2898	CD2	TRP	E	113	89.632	21.026	34.764	1.00125.59	C
ANISOU	2898	CD2	TRP	E	113	15443	17791	14486	-1963 -1935 1446	C
ATOM	2899	CE3	TRP	E	113	89.172	21.553	33.560	1.00117.48	C
ANISOU	2899	CE3	TRP	E	113	14508	16629	13502	-1935 -1898 1219	C
ATOM	2900	CZ3	TRP	E	113	90.058	21.771	32.561	1.00109.58	C
ANISOU	2900	CZ3	TRP	E	113	13572	15460	12602	-1890 -1908 1071	C
ATOM	2901	CH2	TRP	E	113	91.401	21.481	32.723	1.00121.02	C
ANISOU	2901	CH2	TRP	E	113	14996	16872	14115	-1868 -1953 1147	C
ATOM	2902	CZ2	TRP	E	113	91.887	20.966	33.887	1.00124.07	C
ANISOU	2902	CZ2	TRP	E	113	15289	17390	14463	-1895 -1991 1374	C
ATOM	2903	C	TRP	E	113	87.790	22.562	37.985	1.00110.10	C
ANISOU	2903	C	TRP	E	113	13426	16535	11873	-2060 -1878 1619	C
ATOM	2904	O	TRP	E	113	88.695	22.621	38.777	1.00115.32	O
ANISOU	2904	O	TRP	E	113	14059	17306	12450	-2074 -1919 1715	O
ATOM	2905	N	PHE	E	114	87.322	23.632	37.375	1.00115.01	N
ANISOU	2905	N	PHE	E	114	14142	17167	12389	-2033 -1827 1396	N
ATOM	2906	CA	PHE	E	114	87.874	24.929	37.658	1.00117.88	C
ANISOU	2906	CA	PHE	E	114	14586	17677	12526	-2019 -1816 1254	C
ATOM	2907	CB	PHE	E	114	87.304	25.972	36.713	1.00116.64	C
ANISOU	2907	CB	PHE	E	114	14533	17478	12307	-1981 -1756 995	C
ATOM	2908	CG	PHE	E	114	87.768	25.803	35.312	1.00111.74	C
ANISOU	2908	CG	PHE	E	114	13955	16614	11888	-1940 -1772 846	C
ATOM	2909	CD1	PHE	E	114	88.991	25.255	35.061	1.00117.49	C
ANISOU	2909	CD1	PHE	E	114	14662	17224	12755	-1925 -1832 893	C
ATOM	2910	CE1	PHE	E	114	89.440	25.082	33.781	1.00113.33	C
ANISOU	2910	CE1	PHE	E	114	14179	16466	12414	-1886 -1841 760	C
ATOM	2911	CZ	PHE	E	114	88.657	25.465	32.733	1.00112.52	C
ANISOU	2911	CZ	PHE	E	114	14142	16252	12358	-1866 -1795 575	C
ATOM	2912	CE2	PHE	E	114	87.428	26.018	32.976	1.00112.13	C
ANISOU	2912	CE2	PHE	E	114	14108	16325	12171	-1882 -1738 531	C
ATOM	2913	CD2	PHE	E	114	86.990	26.182	34.263	1.00111.93	C
ANISOU	2913	CD2	PHE	E	114	14039	16528	11962	-1916 -1724 667	C
ATOM	2914	C	PHE	E	114	87.603	25.289	39.106	1.00115.84	C
ANISOU	2914	C	PHE	E	114	14302	17679	12031	-2062 -1804 1382	C
ATOM	2915	O	PHE	E	114	88.459	25.824	39.775	1.00121.70	O
ANISOU	2915	O	PHE	E	114	15067	18553	12621	-2076 -1832 1394	O
ATOM	2916	N	VAL	E	115	86.398	25.016	39.585	1.00115.84	N
ANISOU	2916	N	VAL	E	115	14262	17754	11997	-2088 -1763 1476	N
ATOM	2917	CA	VAL	E	115	86.071	25.310	40.966	1.00123.55	C
ANISOU	2917	CA	VAL	E	115	15217	18971	12755	-2130 -1745 1604	C
ATOM	2918	CB	VAL	E	115	84.568	25.247	41.250	1.00118.61	C
ANISOU	2918	CB	VAL	E	115	14569	18414	12084	-2143 -1678 1652	C
ATOM	2919	CG1	VAL	E	115	84.310	25.442	42.729	1.00119.95	C

ANISOU	2919	CG1	VAL	E	115	14714	18822	12038	-2189	-1661	1804	C
ATOM	2920	CG2	VAL	E	115	83.846	26.316	40.459	1.00112.44			C
ANISOU	2920	CG2	VAL	E	115	13885	17617	11220	-2104	-1601	1419	C
ATOM	2921	C	VAL	E	115	86.869	24.456	41.939	1.00127.22			C
ANISOU	2921	C	VAL	E	115	15590	19497	13250	-2173	-1816	1840	C
ATOM	2922	O	VAL	E	115	87.235	24.911	42.998	1.00127.26			O
ANISOU	2922	O	VAL	E	115	15604	19693	13057	-2208	-1825	1908	O
ATOM	2923	N	GLY	E	116	87.088	23.199	41.591	1.00125.18			N
ANISOU	2923	N	GLY	E	116	15245	19076	13240	-2173	-1863	1970	N
ATOM	2924	CA	GLY	E	116	87.816	22.263	42.428	1.00124.02			C
ANISOU	2924	CA	GLY	E	116	15000	18966	13156	-2209	-1929	2207	C
ATOM	2925	C	GLY	E	116	89.267	22.577	42.694	1.00137.05			C
ANISOU	2925	C	GLY	E	116	16662	20659	14751	-2212	-1986	2213	C
ATOM	2926	O	GLY	E	116	89.726	22.425	43.811	1.00157.15			O
ANISOU	2926	O	GLY	E	116	19158	23359	17194	-2258	-2024	2381	O
ATOM	2927	N	ARG	E	117	90.007	22.990	41.677	1.00131.48			N
ANISOU	2927	N	ARG	E	117	16022	19817	14117	-2166	-1997	2040	N
ATOM	2928	CA	ARG	E	117	91.399	23.349	41.892	1.00138.83			C
ANISOU	2928	CA	ARG	E	117	16968	20792	14991	-2168	-2052	2042	C
ATOM	2929	C	ARG	E	117	91.537	24.793	42.387	1.00142.09			C
ANISOU	2929	C	ARG	E	117	17480	21402	15103	-2183	-2030	1904	C
ATOM	2930	O	ARG	E	117	92.582	25.207	42.842	1.00152.44			O
ANISOU	2930	O	ARG	E	117	18806	22807	16307	-2204	-2076	1926	O
ATOM	2931	CB	ARG	E	117	92.220	23.131	40.637	1.00140.53			C
ANISOU	2931	CB	ARG	E	117	17205	20775	15414	-2111	-2075	1932	C
ATOM	2932	CG	ARG	E	117	93.697	23.322	40.875	1.00149.78			C
ANISOU	2932	CG	ARG	E	117	18371	21981	16559	-2113	-2138	1972	C
ATOM	2933	CD	ARG	E	117	94.524	22.965	39.659	1.00156.48			C
ANISOU	2933	CD	ARG	E	117	19231	22588	17637	-2054	-2157	1890	C
ATOM	2934	NE	ARG	E	117	95.918	22.784	40.031	1.00172.08			N
ANISOU	2934	NE	ARG	E	117	21160	24588	19633	-2060	-2224	2010	N
ATOM	2935	CZ	ARG	E	117	96.881	22.476	39.176	1.00179.47			C
ANISOU	2935	CZ	ARG	E	117	22096	25342	20753	-2012	-2248	1979	C
ATOM	2936	NH1	ARG	E	117	96.602	22.318	37.891	1.00171.54			N
ANISOU	2936	NH1	ARG	E	117	21143	24111	19923	-1955	-2211	1823	N
ATOM	2937	NH2	ARG	E	117	98.124	22.323	39.610	1.00183.31			N
ANISOU	2937	NH2	ARG	E	117	22531	25871	21246	-2021	-2308	2109	N
ATOM	2938	N	GLU	E	118	90.480	25.575	42.265	1.00140.69			N
ANISOU	2938	N	GLU	E	118	17377	21287	14792	-2174	-1957	1760	N
ATOM	2939	CA	GLU	E	118	90.486	26.943	42.734	1.00142.18			C
ANISOU	2939	CA	GLU	E	118	17672	21660	14692	-2188	-1921	1627	C
ATOM	2940	CB	GLU	E	118	89.242	27.691	42.272	1.00138.52			C
ANISOU	2940	CB	GLU	E	118	17285	21203	14142	-2159	-1828	1450	C
ATOM	2941	CG	GLU	E	118	89.170	29.132	42.740	1.00138.99			C
ANISOU	2941	CG	GLU	E	118	17464	21448	13899	-2170	-1776	1307	C
ATOM	2942	CD	GLU	E	118	90.332	29.952	42.250	1.00144.35			C
ANISOU	2942	CD	GLU	E	118	18226	22104	14516	-2149	-1808	1144	C
ATOM	2943	OE1	GLU	E	118	91.213	29.398	41.573	1.00138.16			O
ANISOU	2943	OE1	GLU	E	118	17404	21165	13927	-2125	-1872	1148	O
ATOM	2944	OE2	GLU	E	118	90.361	31.152	42.546	1.00153.13			O
ANISOU	2944	OE2	GLU	E	118	19446	23354	15385	-2157	-1767	1013	O
ATOM	2945	C	GLU	E	118	90.596	27.005	44.243	1.00155.54			C
ANISOU	2945	C	GLU	E	118	19334	23584	16180	-2260	-1939	1809	C
ATOM	2946	O	GLU	E	118	91.188	27.930	44.774	1.00163.54			O
ANISOU	2946	O	GLU	E	118	20420	24744	16974	-2288	-1946	1756	O
ATOM	2947	N	GLN	E	119	90.024	26.018	44.924	1.00159.21			N
ANISOU	2947	N	GLN	E	119	19697	24080	16718	-2294	-1946	2023	N
ATOM	2948	CA	GLN	E	119	90.064	25.968	46.381	1.00156.72			C
ANISOU	2948	CA	GLN	E	119	19346	23979	16223	-2366	-1964	2212	C
ATOM	2949	CB	GLN	E	119	89.177	24.837	46.903	1.00151.41			C
ANISOU	2949	CB	GLN	E	119	18561	23305	15663	-2389	-1958	2420	C
ATOM	2950	CG	GLN	E	119	87.713	24.966	46.516	1.00152.62			C
ANISOU	2950	CG	GLN	E	119	18738	23428	15824	-2359	-1872	2336	C

ATOM	2951	CD	GLN	E	119	87.083	26.244	47.035	1.00153.82	C
ANISOU	2951	CD	GLN	E	119	18999	23761	15686	-2370 -1792 2218	C
ATOM	2952	OE1	GLN	E	119	87.740	27.049	47.696	1.00144.03	O
ANISOU	2952	OE1	GLN	E	119	17826	22669	14229	-2405 -1801 2193	O
ATOM	2953	NE2	GLN	E	119	85.804	26.437	46.737	1.00160.29	N
ANISOU	2953	NE2	GLN	E	119	19838	24567	16497	-2343 -1711 2149	N
ATOM	2954	C	GLN	E	119	91.491	25.792	46.888	1.00162.94	C
ANISOU	2954	C	GLN	E	119	20098	24817	16996	-2405 -2053 2329	C
ATOM	2955	O	GLN	E	119	91.817	26.193	48.005	1.00168.06	O
ANISOU	2955	O	GLN	E	119	20762	25662	17432	-2471 -2072 2421	O
ATOM	2956	N	GLU	E	120	92.338	25.189	46.059	1.00164.44	N
ANISOU	2956	N	GLU	E	120	20242	24826	17412	-2367 -2107 2331	N
ATOM	2957	CA	GLU	E	120	93.731	24.959	46.422	1.00160.43	C
ANISOU	2957	CA	GLU	E	120	19690	24345	16923	-2396 -2193 2450	C
ATOM	2958	CB	GLU	E	120	94.436	24.132	45.344	1.00159.71	C
ANISOU	2958	CB	GLU	E	120	19541	24012	17130	-2338 -2231 2453	C
ATOM	2959	C	GLU	E	120	94.469	26.276	46.638	1.00164.34	C
ANISOU	2959	C	GLU	E	120	20297	24974	17169	-2419 -2202 2312	C
ATOM	2960	O	GLU	E	120	95.272	26.405	47.562	1.00173.94	O
ANISOU	2960	O	GLU	E	120	21496	26339	18253	-2484 -2259 2441	O
ATOM	2961	N	ARG	E	121	94.172	27.249	45.790	1.00169.49	N
ANISOU	2961	N	ARG	E	121	21066	25575	17757	-2370 -2147 2055	N
ATOM	2962	CA	ARG	E	121	94.787	28.567	45.842	1.00173.10	C
ANISOU	2962	CA	ARG	E	121	21645	26141	17982	-2383 -2146 1891	C
ATOM	2963	CB	ARG	E	121	94.282	29.410	44.655	1.00172.06	C
ANISOU	2963	CB	ARG	E	121	21623	25898	17853	-2310 -2076 1603	C
ATOM	2964	CG	ARG	E	121	95.209	30.510	44.163	1.00169.62	C
ANISOU	2964	CG	ARG	E	121	21422	25596	17428	-2293 -2093 1409	C
ATOM	2965	CD	ARG	E	121	94.473	31.481	43.256	1.00160.51	C
ANISOU	2965	CD	ARG	E	121	20383	24351	16252	-2217 -1989 1123	C
ATOM	2966	NE	ARG	E	121	93.512	32.288	44.001	1.00166.26	N
ANISOU	2966	NE	ARG	E	121	21179	25151	16841	-2198 -1857 1055	N
ATOM	2967	CZ	ARG	E	121	92.729	33.222	43.470	1.00166.32	C
ANISOU	2967	CZ	ARG	E	121	21282	25089	16824	-2124 -1741 832	C
ATOM	2968	NH1	ARG	E	121	92.774	33.484	42.172	1.00163.93	N
ANISOU	2968	NH1	ARG	E	121	21021	24642	16621	-2063 -1738 644	N
ATOM	2969	NH2	ARG	E	121	91.890	33.890	44.243	1.00162.38	N
ANISOU	2969	NH2	ARG	E	121	20834	24657	16207	-2109 -1629 804	N
ATOM	2970	C	ARG	E	121	94.450	29.263	47.157	1.00173.49	C
ANISOU	2970	C	ARG	E	121	21749	26424	17747	-2453 -2110 1941	C
ATOM	2971	O	ARG	E	121	95.293	29.903	47.768	1.00179.03	O
ANISOU	2971	O	ARG	E	121	22491	27150	18381	-2459 -2088 1909	O
ATOM	2972	N	ARG	E	122	93.207	29.133	47.587	1.00172.35	N
ANISOU	2972	N	ARG	E	122	21598	26350	17536	-2467 -2049 1983	N
ATOM	2973	CA	ARG	E	122	92.734	29.747	48.821	1.00171.85	C
ANISOU	2973	CA	ARG	E	122	21580	26394	17320	-2486 -1949 1990	C
ATOM	2974	CB	ARG	E	122	91.437	30.521	48.572	1.00176.03	C
ANISOU	2974	CB	ARG	E	122	22200	26914	17770	-2434 -1821 1811	C
ATOM	2975	C	ARG	E	122	92.519	28.701	49.911	1.00168.60	C
ANISOU	2975	C	ARG	E	122	21052	26101	16907	-2563 -2001 2281	C
ATOM	2976	O	ARG	E	122	93.390	27.869	50.166	1.00164.88	O
ANISOU	2976	O	ARG	E	122	20483	25644	16521	-2608 -2107 2472	O
TER										
HETATM	2977	O	HOH	E1001		68.021	19.935	9.746	1.00 90.00	O
HETATM	2978	O	HOH	E1002		73.746	24.014	27.142	1.00 67.41	O
HETATM	2979	O	HOH	E1003		74.003	24.104	22.914	1.00 65.57	O
TER										
HETATM	2980	K	K	A	1	67.945	26.564	9.372	0.50 85.90	K
HETATM	2981	K	K	A	2	69.184	26.541	12.538	0.50 85.90	K
HETATM	2982	K	K	A	3	70.343	26.530	15.531	0.50 85.90	K
HETATM	2983	K	K	A	4	71.572	26.515	18.640	0.50 85.90	K
HETATM	2984	K	K	A	5	74.349	26.623	24.987	1.00 97.49	K
HETATM	2985	K	K	A	6	65.872	26.493	4.377	1.00106.03	K

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